

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1N-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/1/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,184.95	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,081.63	1,048.53	187.89	165.91	8.548	CC
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,100.00	1,065.82	187.99	165.60	8.394	ES
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,300.00	1,251.21	204.66	177.82	7.627	SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	100.00	87.00	280.08	279.27	345.723	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	500.00	485.70	283.11	273.97	30.996	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,400.00	1,342.84	414.90	386.45	14.582	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	100.00	102.00	119.85	119.57	434.188	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	20,184.95	18,438.11	4,061.48	3,734.62	12.426	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	100.00	102.00	110.04	109.77	398.674	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	20,184.95	18,410.31	3,739.27	3,413.63	11.483	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	100.00	102.00	99.96	99.69	362.156	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	20,184.95	18,444.23	3,390.68	3,066.34	10.454	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	100.00	102.00	89.88	89.61	325.638	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	20,184.95	18,784.53	3,042.44	2,715.38	9.302	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	100.00	102.00	80.08	79.81	290.135	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	20,184.95	18,700.24	2,721.83	2,398.18	8.410	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	100.00	101.00	70.00	69.73	256.955	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	20,184.95	18,932.01	2,399.57	2,074.09	7.372	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	100.00	101.00	59.92	59.65	219.945	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	20,184.95	19,013.04	2,051.94	1,728.71	6.348	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	100.00	101.00	50.12	49.85	183.975	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	20,184.95	19,376.34	1,705.29	1,376.76	5.191	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	40.04	39.77	148.936	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	20,184.95	19,424.48	1,379.75	1,054.05	4.236	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	29.96	29.69	111.445	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	20,184.95	19,514.03	1,064.59	743.83	3.319	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	19.88	19.61	73.957	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	20,184.95	19,886.35	723.44	391.91	2.182	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	10.09	9.82	37.517	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	9,100.00	9,135.75	193.28	34.01	1.214	Level 2, SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	100.00	102.00	130.21	129.93	471.720	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	20,184.95	18,135.62	4,380.19	4,055.07	13.472	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,508.12	16,236.00	2,893.40	2,714.78	16.199	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,600.00	16,236.00	2,894.86	2,713.05	15.922	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,236.00	3,027.74	2,824.60	14.905	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,177.67	16,659.00	3,434.30	3,256.74	19.342	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,300.00	16,659.00	3,436.48	3,255.18	18.955	ES

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
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Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,659.00	3,613.04	3,408.32	17.649	SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,390.59	16,530.00	3,352.46	3,175.14	18.906	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,500.00	16,530.00	3,354.25	3,173.54	18.562	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,400.00	16,530.00	3,501.13	3,298.73	17.298	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,411.22			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	100.00	85.35	1,411.33	1,411.06	5,253.754	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	20,184.95	17,546.00	7,432.08	7,098.74	22.296	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	135.00	135.14	1,402.50	1,402.04	3,035.707	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	20,184.95	17,340.00	7,179.09	6,846.12	21.561	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	108.25	101.62	1,394.65	1,394.33	4,324.129	CC, ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	20,184.95	17,471.00	7,082.91	6,749.34	21.233	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	0.00	0.00	1,386.45			
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	89.96	1,386.46	1,386.17	4,881.981	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	19,400.00	19,400.00	6,698.55	6,347.73	19.094	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	278.84	318.00	1,349.96	1,349.18	1,741.535	CC, ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	20,184.95	17,273.25	6,447.72	6,121.02	19.736	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	90.46	1,369.69	1,369.41	4,886.478	CC, ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	20,184.95	17,796.00	6,298.73	5,964.13	18.825	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	89.70	1,361.67	1,361.39	4,800.735	CC, ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	20,184.95	17,487.00	6,207.55	5,874.28	18.626	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	114.79	108.79	1,353.32	1,352.97	3,864.453	CC, ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	19,900.00	19,900.00	5,799.00	5,445.06	16.384	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	100.00	89.45	1,345.28	1,345.00	4,748.374	CC, ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	20,184.95	17,583.00	5,513.82	5,181.13	16.573	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	103.27	94.13	1,337.30	1,337.00	4,419.466	CC, ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	20,184.95	17,568.00	5,306.66	4,976.73	16.084	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	0.00	0.00	1,329.23			
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	100.00	83.16	1,329.42	1,329.15	4,859.209	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	19,200.00	19,200.00	5,130.06	4,790.59	15.112	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	100.00	90.44	1,320.89	1,320.60	4,635.690	CC, ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	20,184.95	17,804.57	4,969.55	4,636.00	14.899	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	302.46	301.79	277.24	275.61	169.644	CC, ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	15,800.00	15,800.00	7,898.00	7,758.30	56.534	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	299.44			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	90.88	299.50	299.22	1,059.647	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	7,000.00	7,000.00	5,163.01	5,088.18	68.994	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	0.00	0.00	286.44			
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	91.20	286.45	286.17	1,013.464	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	2,100.00	1,987.14	732.15	711.25	35.033	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,037.06	1,081.77	255.70	248.18	34.038	CC, ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,400.00	1,415.43	302.47	291.90	28.626	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	104.81	97.00	293.64	293.33	947.450	CC, ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	2,292.11	1,969.81	1,072.39	1,050.24	48.403	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	0.00	0.00	274.22			
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	700.00	721.97	276.12	271.25	56.695	ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,200.00	1,179.29	360.71	351.48	39.104	SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,206.09	1,230.62	214.39	204.42	21.511	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,600.00	1,610.59	249.45	235.69	18.130	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,357.55	15,305.69	1,126.48	959.06	6.729	CC
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,450.00	15,284.24	1,130.02	955.87	6.489	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,700.00	15,311.13	1,174.25	986.19	6.244	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,491.42	15,170.28	789.39	620.23	4.667	CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,550.00	15,170.65	791.51	616.37	4.519	ES

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Anticollision Report

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Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

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Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,700.00	15,199.35	815.15	628.16	4.359	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,802.48	15,134.00	1,394.52	1,227.67	8.358	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,900.00	15,134.00	1,397.92	1,225.80	8.122	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,200.00	15,096.13	1,449.58	1,264.30	7.824	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,950.60	15,352.00	473.12	307.91	2.864	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	10,050.00	15,352.00	485.27	299.09	2.606	ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	10,100.00	15,352.00	500.07	305.72	2.573	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	6,655.07	5,288.84	224.81	123.27	2.214	CC, ES, SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	5,829.38	4,734.22	544.37	453.33	5.979	CC, ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	5,900.00	4,772.06	547.61	455.94	5.974	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	6,114.17	4,922.73	473.73	379.46	5.025	CC, ES, SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	0.00	0.00	4,026.58			
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	1,000.00	1,319.13	4,032.47	4,023.43	446.138	ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	16,700.00	7,832.28	5,006.37	4,882.72	40.487	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	263.70	349.02	4,036.29	4,034.50	2,257.066	CC, ES
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	17,200.00	7,929.84	4,854.61	4,714.47	34.640	SF

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Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	2,897.03	2,486.51	2,709.77	2,674.79	77.455	CC
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	3,000.00	2,581.17	2,710.52	2,673.64	73.496	ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	15,300.00	7,690.20	4,100.53	3,994.97	38.844	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	3,640.37	2,959.57	664.97	615.64	13.479	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	3,800.00	3,066.69	675.96	623.95	12.995	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,150.14	4,238.82	1,503.89	1,445.66	25.824	CC
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,200.00	4,263.24	1,504.45	1,445.50	25.520	ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,800.00	4,677.46	1,580.23	1,514.67	24.103	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	5,543.76	4,522.29	117.65	28.75	1.323	Level 3, CC, ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,413.86	3,481.66	700.60	641.46	11.846	CC, ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,800.00	3,784.36	741.19	672.04	10.718	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	7,780.71	6,079.13	324.71	198.60	2.575	CC
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	7,800.00	6,092.82	324.99	198.36	2.566	ES, SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,966.66	7,772.33	63.55	-19.30	0.767	Level 1, CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	12,000.00	7,772.64	71.76	-40.69	0.638	Level 1, ES, SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,631.52	6,701.23	26.93	-111.85	0.194	Level 1, CC, ES, SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	10,175.47	7,778.55	468.84	396.10	6.445	CC, ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	10,427.79	7,823.53	562.43	459.90	5.485	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	11,000.00	7,753.22	500.24	373.34	3.942	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	11,200.00	7,754.47	421.21	329.86	4.611	ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	11,282.07	7,754.98	413.13	335.05	5.291	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,589.76	7,950.99	378.76	283.96	3.995	CC, ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,800.00	7,958.66	433.14	312.50	3.590	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	6,800.00	5,352.78	1,610.69	1,494.93	13.914	ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	7,200.00	5,664.48	1,646.98	1,526.16	13.631	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	12,016.03	7,863.31	1,596.01	1,511.72	18.936	CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,442.14	3,633.85	2,065.85	2,017.59	42.814	CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,500.00	3,661.99	2,066.43	2,017.20	41.970	ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	4,600.00	4,279.60	2,279.57	2,216.11	35.923	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	1,978.60	1,400.38	2,761.25	2,743.47	155.280	CC
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	2,000.00	1,407.43	2,761.30	2,743.23	152.829	ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	15,800.00	7,883.36	4,126.73	4,009.78	35.287	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	14,004.04	7,774.91	2,131.45	2,033.38	21.733	CC, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	14,600.00	7,756.32	2,213.14	2,110.10	21.479	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,218.53	8,000.93	368.20	253.30	3.205	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,300.00	8,001.37	377.10	248.44	2.931	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,400.00	8,001.91	410.49	264.14	2.805	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	11,011.02	7,642.00	502.44	319.66	2.749	CC
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	11,100.00	7,642.00	510.26	315.38	2.618	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	11,200.00	7,642.00	536.81	326.94	2.558	SF
EXIST VERT HELEN 23-23 - OWB - Design #1	4,399.22	3,547.12	2,328.07	2,217.82	21.116	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	4,500.00	3,619.81	2,329.12	2,216.06	20.601	ES
EXIST VERT HELEN 23-23 - OWB - Design #1	13,800.00	7,673.00	2,997.89	2,799.42	15.105	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	13,222.01	7,706.00	1,652.38	1,459.43	8.564	CC, ES
EXIST VERT HELEN 33-23 - OWB - Design #1	13,500.00	7,706.00	1,675.60	1,479.03	8.524	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,700.00	7,685.00	1,373.95	1,159.92	6.420	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,842.08	7,685.00	1,366.59	1,154.69	6.449	CC, ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,361.93	7,677.00	36.15	-157.68	0.187	Level 1, CC, SF
EXIST VERT HELEN 43-23 - OWB - Design #1	13,400.00	7,677.00	52.50	-180.42	0.225	Level 1, ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	14,200.00	7,683.00	537.40	327.65	2.562	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	14,289.74	7,683.00	529.85	325.28	2.590	CC, ES

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 26-T1N-R68W						
ABND VERT ALAUX 1 - OWB - Design #1	16,028.12	5,050.00	3,846.76	3,710.98	28.329	CC, ES
ABND VERT ALAUX 1 - OWB - Design #1	17,400.00	5,050.00	4,084.07	3,935.96	27.574	SF
ABND VERT ALAUX 2 - OWB - Design #1	1,230.71	1,178.58	4,574.28	4,548.97	180.720	CC
ABND VERT ALAUX 2 - OWB - Design #1	16,032.71	5,450.00	4,682.50	4,520.79	28.955	ES
ABND VERT ALAUX 2 - OWB - Design #1	17,100.00	5,450.00	4,802.60	4,633.85	28.459	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,400.00	15,400.00	3,968.45	3,816.39	26.098	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	16,294.46	7,709.84	3,866.73	3,739.73	30.446	CC
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	16,300.00	7,709.56	3,866.73	3,739.72	30.443	ES
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,974.29	7,748.00	3,769.01	3,491.82	13.597	CC, ES, SF
ABND VERT GOLTL 1 - OWB - Design #1	18,645.45	5,042.00	2,664.32	2,547.78	22.862	CC
ABND VERT GOLTL 1 - OWB - Design #1	18,700.00	5,042.00	2,664.88	2,547.67	22.736	ES
ABND VERT GOLTL 1 - OWB - Design #1	20,184.95	5,042.00	3,077.12	2,912.14	18.651	SF
ABND VERT GOLTL 2 - OWB - Design #1	19,964.18	5,020.00	2,684.13	2,557.42	21.184	CC
ABND VERT GOLTL 2 - OWB - Design #1	20,000.00	5,020.00	2,684.37	2,557.25	21.118	ES
ABND VERT GOLTL 2 - OWB - Design #1	20,184.95	5,020.00	2,693.19	2,562.73	20.644	SF
ABND VERT JL SEARS 1 - OWB - Design #1	17,360.93	5,125.00	4,848.28	4,676.59	28.239	CC
ABND VERT JL SEARS 1 - OWB - Design #1	17,400.00	5,125.00	4,848.44	4,676.58	28.212	ES
ABND VERT JL SEARS 1 - OWB - Design #1	18,100.00	5,125.00	4,904.29	4,729.00	27.979	SF
ABND VERT JL SEARS 2 - OWB - Design #1	17,327.91	5,148.00	3,776.83	3,621.10	24.254	CC, ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,700.00	5,148.00	3,795.11	3,638.29	24.200	SF
ABND VERT MANN 1 - OWB - Design #1	18,628.66	5,050.00	3,055.70	2,913.74	21.525	CC, ES
ABND VERT MANN 1 - OWB - Design #1	19,600.00	5,050.00	3,206.37	3,056.30	21.366	SF
ABND VERT MANN 2 - OWB - Design #1	19,700.00	5,048.00	3,065.17	2,907.90	19.489	SF
ABND VERT MANN 2 - OWB - Design #1	19,968.91	5,048.00	3,053.36	2,896.77	19.500	CC, ES
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	15,200.00	7,846.69	2,316.01	2,199.73	19.918	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	15,429.27	7,845.01	2,304.63	2,189.23	19.971	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	19,233.77	7,949.56	4,660.48	4,484.36	26.462	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	19,600.00	7,947.04	4,674.85	4,497.57	26.370	SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	20,184.95	8,156.03	4,760.37	4,553.48	23.009	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	20,135.34	7,978.74	4,250.73	4,053.54	21.556	CC, ES
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	20,184.95	7,978.56	4,251.02	4,053.71	21.544	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,400.00	7,914.13	2,809.91	2,643.69	16.905	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,593.48	7,911.97	2,803.24	2,637.77	16.941	CC, ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,600.00	8,075.12	2,698.91	2,504.02	13.848	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,878.36	8,079.99	2,684.53	2,492.00	13.943	CC, ES
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	20,184.95	20,184.95	3,493.64	3,249.60	14.316	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	19,000.00	8,086.00	2,225.03	2,043.10	12.230	SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	19,200.00	8,083.04	2,210.87	2,031.53	12.328	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	19,257.09	8,082.21	2,210.13	2,031.62	12.381	CC
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,876.91	8,068.26	4,677.89	4,521.11	29.838	CC
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	18,000.00	18,000.00	4,679.30	4,494.47	25.316	ES, SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,700.00	7,992.53	3,469.31	3,312.87	22.176	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,854.77	7,989.06	3,465.86	3,309.69	22.193	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,600.00	7,794.18	2,271.10	2,113.05	14.370	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,900.00	7,788.62	2,250.65	2,095.47	14.504	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,904.12	7,788.54	2,250.65	2,095.52	14.508	CC
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	17,074.07	7,778.51	4,152.26	4,012.59	29.730	CC, ES
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	17,400.00	7,777.54	4,165.03	4,024.54	29.646	SF
EXIST VERT ROBERTS 2 - OWB - Design #1	17,399.60	7,703.00	201.92	-48.80	0.805	Level 1, CC, ES, SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,500.00	7,684.00	983.99	742.04	4.067	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,600.00	7,684.00	978.05	739.84	4.106	ES
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,608.23	7,684.00	978.02	740.11	4.111	CC
SI VERT ALAUX 26-3 - OWB - Design #1	15,800.00	7,709.00	2,802.06	2,574.73	12.326	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 26-T1N-R68W						
SI VERT ALAUX 26-3 - OWB - Design #1	15,878.82	7,709.00	2,800.95	2,573.74	12.327	CC, ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,600.00	7,706.00	521.34	228.76	1.782	ES, SF
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,649.51	7,706.00	518.99	231.30	1.804	CC
SI VERT SEARS 22-26 - OWB - Design #1	17,100.00	7,709.00	2,626.83	2,378.26	10.568	SF
SI VERT SEARS 22-26 - OWB - Design #1	17,200.00	7,709.00	2,624.10	2,376.01	10.577	ES
SI VERT SEARS 22-26 - OWB - Design #1	17,221.70	7,709.00	2,624.01	2,376.03	10.582	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,341.31	5,425.00	2,275.99	2,168.10	21.095	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,400.00	5,425.00	2,276.75	2,168.05	20.945	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	18,900.00	5,425.00	2,758.56	2,589.80	16.346	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	16,023.68	5,450.00	2,715.48	2,591.26	21.861	CC, ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	17,500.00	5,450.00	3,090.85	2,939.96	20.485	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,300.00	5,450.00	2,908.30	2,757.67	19.308	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	17,346.04	5,450.00	2,713.67	2,574.92	19.558	CC, ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1	16,018.96	5,400.00	2,278.44	2,180.82	23.339	CC, ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1	17,700.00	5,400.00	2,831.46	2,664.66	16.975	SF

Offset Design		SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1											Offset Site Error:		0.00 usft
Survey Program:		0-INC-ONLY											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft) +E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	22.01	232.78	94.08	251.46						
100.00	100.00	86.00	86.00	0.13	0.68	22.01	232.78	94.08	251.07	250.26	0.82	307.170			
200.00	199.98	185.98	185.98	0.49	2.29	-48.76	232.78	94.08	249.92	247.13	2.79	89.704			
300.00	299.84	285.84	285.84	0.86	4.04	-49.73	232.78	94.08	246.50	241.61	4.89	50.369			
400.00	399.45	385.45	385.45	1.23	5.78	-51.39	232.78	94.08	240.95	233.94	7.01	34.384			
500.00	498.70	484.70	484.70	1.63	7.51	-53.84	232.78	94.08	233.51	224.38	9.13	25.576			
600.00	597.47	583.47	583.47	2.05	9.23	-57.19	232.78	94.08	224.58	213.31	11.27	19.934			
700.00	695.62	681.62	681.62	2.51	10.95	-61.58	232.78	94.08	214.72	201.30	13.42	15.995			
800.00	793.06	779.06	779.06	3.00	12.65	-67.19	232.78	94.08	204.78	189.17	15.61	13.115			
900.00	889.64	875.64	875.64	3.53	14.33	-74.13	232.78	94.08	195.93	178.09	17.84	10.981			
1,000.00	985.27	971.27	971.27	4.12	16.00	-82.41	232.78	94.08	189.72	169.61	20.11	9.434			
1,081.63	1,062.53	1,048.53	1,048.53	4.63	17.35	-90.00	232.78	94.08	187.89	165.91	21.98	8.548	CC		
1,100.00	1,079.82	1,065.82	1,065.82	4.75	17.65	-91.78	232.78	94.08	187.99	165.60	22.40	8.394	ES		
1,200.00	1,173.17	1,159.17	1,159.17	5.44	19.28	-101.73	232.78	94.08	192.54	167.89	24.65	7.809			
1,300.00	1,265.21	1,251.21	1,251.21	6.18	20.89	-111.53	232.78	94.08	204.66	177.82	26.83	7.627	SF		
1,400.00	1,355.84	1,341.84	1,341.84	6.99	22.47	-120.55	232.78	94.08	224.79	195.88	28.91	7.776			
1,500.00	1,444.94	1,430.94	1,430.94	7.87	24.02	-128.42	232.78	94.08	252.57	221.69	30.88	8.179			
1,600.00	1,532.39	1,518.39	1,518.39	8.80	25.55	-135.04	232.78	94.08	287.24	254.46	32.78	8.762			
1,700.00	1,618.11	1,604.11	1,604.11	9.81	27.05	-140.50	232.78	94.08	327.93	293.31	34.63	9.470			
1,800.00	1,701.97	1,687.97	1,687.97	10.89	28.51	-144.96	232.78	94.08	373.87	337.44	36.43	10.262			
1,900.00	1,783.88	1,769.88	1,769.88	12.04	29.94	-148.61	232.78	94.08	424.44	386.23	38.21	11.109			
2,000.00	1,863.74	1,849.74	1,849.74	13.26	31.33	-151.59	232.78	94.08	479.14	439.19	39.95	11.994			
2,100.00	1,941.45	1,927.45	1,927.45	14.55	32.69	-154.04	232.78	94.08	537.60	495.94	41.66	12.904			
2,200.00	2,016.92	2,002.92	2,002.92	15.92	34.01	-156.05	232.78	94.08	599.50	556.17	43.34	13.834			
2,292.11	2,084.36	2,070.36	2,070.36	17.25	35.18	-157.60	232.78	94.08	659.36	614.51	44.85	14.703			
2,300.00	2,090.06	2,076.06	2,076.06	17.36	35.28	-157.77	232.78	94.08	664.60	619.62	44.98	14.776			
2,400.00	2,162.18	2,148.18	2,148.18	18.84	36.54	-159.77	232.78	94.08	731.30	684.71	46.59	15.695			
2,500.00	2,234.31	2,220.31	2,220.31	20.33	37.80	-161.44	232.78	94.08	798.44	750.23	48.22	16.560			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,600.00	2,306.43	2,307.57	2,292.43	21.83	39.32	-162.87	232.78	94.08	865.92	815.81	50.11	17.281		
2,700.00	2,378.56	2,364.56	2,364.56	23.33	40.32	-164.10	232.78	94.08	933.66	882.18	51.48	18.137		
2,800.00	2,450.68	2,436.68	2,436.68	24.84	41.58	-165.17	232.78	94.08	1,001.60	948.49	53.12	18.856		
2,900.00	2,522.81	2,508.81	2,508.81	26.36	42.84	-166.11	232.78	94.08	1,069.72	1,014.96	54.76	19.534		
3,000.00	2,594.93	2,580.93	2,580.93	27.88	44.09	-166.93	232.78	94.08	1,137.98	1,081.56	56.41	20.173		
3,100.00	2,667.06	2,653.06	2,653.06	29.40	45.35	-167.67	232.78	94.08	1,206.35	1,148.28	58.06	20.776		
3,200.00	2,739.18	2,725.18	2,725.18	30.92	46.61	-168.33	232.78	94.08	1,274.82	1,215.10	59.72	21.347		
3,300.00	2,811.31	2,802.69	2,797.31	32.45	47.97	-168.92	232.78	94.08	1,343.37	1,281.89	61.47	21.853		
3,400.00	2,883.43	2,869.43	2,869.43	33.98	49.13	-169.46	232.78	94.08	1,411.98	1,348.94	63.04	22.398		
3,500.00	2,955.56	2,941.56	2,941.56	35.51	50.39	-169.94	232.78	94.08	1,480.67	1,415.96	64.71	22.883		
3,600.00	3,027.68	3,013.68	3,013.68	37.04	51.65	-170.39	232.78	94.08	1,549.40	1,483.02	66.37	23.343		
3,700.00	3,099.81	3,085.81	3,085.81	38.57	52.91	-170.79	232.78	94.08	1,618.18	1,550.13	68.04	23.781		
3,800.00	3,171.93	3,157.93	3,157.93	40.11	54.17	-171.17	232.78	94.08	1,686.99	1,617.28	69.72	24.198		
3,900.00	3,244.06	3,230.06	3,230.06	41.64	55.42	-171.51	232.78	94.08	1,755.85	1,684.46	71.39	24.595		
4,000.00	3,316.18	3,302.18	3,302.18	43.18	56.68	-171.83	232.78	94.08	1,824.73	1,751.66	73.07	24.973		
4,100.00	3,388.31	3,374.31	3,374.31	44.71	57.94	-172.13	232.78	94.08	1,893.64	1,818.90	74.75	25.335		
4,200.00	3,460.43	3,446.43	3,446.43	46.25	59.20	-172.40	232.78	94.08	1,962.58	1,886.16	76.42	25.680		
4,300.00	3,532.56	3,518.56	3,518.56	47.79	60.46	-172.66	232.78	94.08	2,031.54	1,953.44	78.11	26.010		
4,400.00	3,604.68	3,609.32	3,590.68	49.33	62.04	-172.90	232.78	94.08	2,100.52	2,020.41	80.11	26.219		
4,500.00	3,676.81	3,662.81	3,662.81	50.87	62.98	-173.13	232.78	94.08	2,169.52	2,088.05	81.47	26.629		
4,600.00	3,748.93	3,734.93	3,734.93	52.41	64.24	-173.34	232.78	94.08	2,238.54	2,155.38	83.16	26.919		
4,700.00	3,821.06	3,807.06	3,807.06	53.95	65.49	-173.54	232.78	94.08	2,307.57	2,222.72	84.84	27.198		
4,800.00	3,893.18	3,879.18	3,879.18	55.49	66.75	-173.73	232.78	94.08	2,376.61	2,290.08	86.53	27.465		
4,900.00	3,965.31	3,951.31	3,951.31	57.03	68.01	-173.90	232.78	94.08	2,445.67	2,357.45	88.22	27.722		
5,000.00	4,037.43	4,023.43	4,023.43	58.58	69.27	-174.07	232.78	94.08	2,514.74	2,424.83	89.91	27.970		
5,100.00	4,109.56	4,104.44	4,095.56	60.12	70.68	-174.23	232.78	94.08	2,583.82	2,492.06	91.76	28.160		
5,200.00	4,181.68	4,167.68	4,167.68	61.66	71.79	-174.38	232.78	94.08	2,652.90	2,559.61	93.29	28.437		
5,300.00	4,253.81	4,239.81	4,239.81	63.20	73.05	-174.52	232.78	94.08	2,722.00	2,627.02	94.98	28.657		
5,400.00	4,325.93	4,311.93	4,311.93	64.75	74.31	-174.66	232.78	94.08	2,791.11	2,694.43	96.68	28.870		
5,500.00	4,398.06	4,384.06	4,384.06	66.29	75.57	-174.78	232.78	94.08	2,860.22	2,761.85	98.37	29.075		
5,600.00	4,470.18	4,456.18	4,456.18	67.84	76.82	-174.91	232.78	94.08	2,929.34	2,829.28	100.07	29.274		
5,700.00	4,542.31	4,528.31	4,528.31	69.38	78.08	-175.02	232.78	94.08	2,998.47	2,896.71	101.76	29.465		
5,800.00	4,614.43	4,553.00	4,553.00	70.92	78.51	-175.06	232.78	94.08	3,067.97	2,965.61	102.37	29.971		
5,900.00	4,686.56	4,553.00	4,553.00	72.47	78.51	-175.06	232.78	94.08	3,139.03	3,036.67	102.36	30.667		
6,000.00	4,758.68	4,553.00	4,553.00	74.01	78.51	-175.06	232.78	94.08	3,211.62	3,109.31	102.31	31.392		
6,100.00	4,830.81	4,553.00	4,553.00	75.56	78.51	-175.06	232.78	94.08	3,285.65	3,183.43	102.22	32.143		
6,200.00	4,902.93	4,553.00	4,553.00	77.10	78.51	-175.06	232.78	94.08	3,361.03	3,258.93	102.10	32.918		
6,300.00	4,975.06	4,553.00	4,553.00	78.65	78.51	-175.06	232.78	94.08	3,437.66	3,335.71	101.96	33.716		
6,400.00	5,047.18	4,553.00	4,553.00	80.19	78.51	-175.06	232.78	94.08	3,515.47	3,413.68	101.79	34.535		
6,500.00	5,119.31	4,553.00	4,553.00	81.74	78.51	-175.06	232.78	94.08	3,594.38	3,492.77	101.61	35.373		
6,600.00	5,191.43	4,553.00	4,553.00	83.28	78.51	-175.06	232.78	94.08	3,674.31	3,572.90	101.42	36.230		
6,700.00	5,263.56	4,553.00	4,553.00	84.83	78.51	-175.06	232.78	94.08	3,755.21	3,654.00	101.21	37.104		
6,800.00	5,335.68	4,553.00	4,553.00	86.37	78.51	-175.06	232.78	94.08	3,837.01	3,736.01	100.99	37.993		
6,900.00	5,407.81	4,553.00	4,553.00	87.92	78.51	-175.06	232.78	94.08	3,919.65	3,818.88	100.77	38.897		
7,000.00	5,479.93	4,553.00	4,553.00	89.47	78.51	-175.06	232.78	94.08	4,003.08	3,902.54	100.54	39.815		
7,100.00	5,552.06	4,553.00	4,553.00	91.01	78.51	-175.06	232.78	94.08	4,087.26	3,986.94	100.31	40.745		
7,200.00	5,624.18	4,553.00	4,553.00	92.56	78.51	-175.06	232.78	94.08	4,172.13	4,072.05	100.08	41.687		
7,300.00	5,696.31	4,553.00	4,553.00	94.10	78.51	-175.06	232.78	94.08	4,257.66	4,157.81	99.85	42.640		
7,400.00	5,768.43	4,553.00	4,553.00	95.65	78.51	-175.06	232.78	94.08	4,343.81	4,244.19	99.62	43.603		
7,500.00	5,840.56	4,553.00	4,553.00	97.20	78.51	-175.06	232.78	94.08	4,430.54	4,331.15	99.40	44.575		
7,600.00	5,912.68	4,553.00	4,553.00	98.74	78.51	-175.06	232.78	94.08	4,517.82	4,418.65	99.17	45.555		
7,700.00	5,984.81	4,553.00	4,553.00	100.29	78.51	-175.06	232.78	94.08	4,605.62	4,506.67	98.95	46.543		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,800.00	6,056.93	4,553.00	4,553.00	101.84	78.51	-175.06	232.78	94.08	4,693.91	4,595.17	98.74	47.539		
7,900.00	6,129.06	4,553.00	4,553.00	103.38	78.51	-175.06	232.78	94.08	4,782.65	4,684.12	98.53	48.540		
8,000.00	6,201.18	4,553.00	4,553.00	104.93	78.51	-175.06	232.78	94.08	4,871.84	4,773.51	98.33	49.548		
8,100.00	6,273.31	4,553.00	4,553.00	106.48	78.51	-175.06	232.78	94.08	4,961.43	4,863.31	98.13	50.561		
8,200.00	6,345.43	4,553.00	4,553.00	108.02	78.51	-175.06	232.78	94.08	5,051.42	4,953.48	97.94	51.579		
8,300.00	6,417.56	4,553.00	4,553.00	109.57	78.51	-175.06	232.78	94.08	5,141.77	5,044.02	97.75	52.601		
8,400.00	6,489.68	4,553.00	4,553.00	111.12	78.51	-175.06	232.78	94.08	5,232.48	5,134.91	97.57	53.627		
8,500.00	6,561.81	4,553.00	4,553.00	112.66	78.51	-175.06	232.78	94.08	5,323.52	5,226.12	97.40	54.657		
8,600.00	6,633.93	4,553.00	4,553.00	114.21	78.51	-175.06	232.78	94.08	5,414.88	5,317.64	97.23	55.689		
8,700.00	6,706.06	4,553.00	4,553.00	115.76	78.51	-175.06	232.78	94.08	5,506.53	5,409.46	97.08	56.723		
8,800.00	6,778.18	4,553.00	4,553.00	117.30	78.51	-175.06	232.78	94.08	5,598.47	5,501.55	96.93	57.760		
8,900.00	6,850.31	4,553.00	4,553.00	118.85	78.51	-175.06	232.78	94.08	5,690.69	5,593.90	96.78	58.798		
9,000.00	6,922.43	4,553.00	4,553.00	120.40	78.51	-175.06	232.78	94.08	5,783.16	5,686.51	96.65	59.837		
9,100.00	6,994.56	4,553.00	4,553.00	121.95	78.51	-175.06	232.78	94.08	5,875.88	5,779.36	96.52	60.877		
9,200.00	7,066.68	4,553.00	4,553.00	123.49	78.51	-175.06	232.78	94.08	5,968.83	5,872.43	96.40	61.917		
9,300.00	7,138.81	4,553.00	4,553.00	125.04	78.51	-175.06	232.78	94.08	6,062.01	5,965.73	96.29	62.958		
9,392.50	7,205.52	4,553.00	4,553.00	126.47	78.51	-175.06	232.78	94.08	6,148.39	6,052.20	96.19	63.920		
9,400.00	7,210.94	4,553.00	4,553.00	126.59	78.51	-177.76	232.78	94.08	6,155.40	6,059.22	96.18	63.999		
9,450.00	7,247.42	4,553.00	4,553.00	127.35	78.51	164.93	232.78	94.08	6,201.92	6,105.80	96.12	64.520		
9,500.00	7,284.35	4,553.00	4,553.00	128.10	78.51	149.32	232.78	94.08	6,247.84	6,151.78	96.06	65.042		
9,550.00	7,321.43	4,553.00	4,553.00	128.83	78.51	135.66	232.78	94.08	6,292.82	6,196.83	95.98	65.561		
9,600.00	7,358.38	4,553.00	4,553.00	129.52	78.51	123.83	232.78	94.08	6,336.54	6,240.64	95.90	66.075		
9,650.00	7,394.93	4,553.00	4,553.00	130.16	78.51	113.59	232.78	94.08	6,378.71	6,282.91	95.80	66.582		
9,700.00	7,430.79	4,553.00	4,553.00	130.76	78.51	104.74	232.78	94.08	6,419.04	6,323.34	95.69	67.080		
9,750.00	7,465.70	4,553.00	4,553.00	131.30	78.51	97.09	232.78	94.08	6,457.25	6,361.67	95.57	67.564		
9,800.00	7,499.38	4,553.00	4,553.00	131.78	78.51	90.49	232.78	94.08	6,493.09	6,397.65	95.44	68.032		
9,850.00	7,531.58	4,553.00	4,553.00	132.21	78.51	84.82	232.78	94.08	6,526.34	6,431.04	95.30	68.481		
9,900.00	7,562.06	4,553.00	4,553.00	132.57	78.51	79.97	232.78	94.08	6,556.78	6,461.62	95.16	68.906		
9,950.00	7,590.58	4,553.00	4,553.00	132.87	78.51	75.84	232.78	94.08	6,584.22	6,489.21	95.01	69.303		
10,000.00	7,616.93	4,553.00	4,553.00	133.11	78.51	72.36	232.78	94.08	6,608.49	6,513.63	94.86	69.668		
10,050.00	7,640.90	4,553.00	4,553.00	133.29	78.51	69.44	232.78	94.08	6,629.44	6,534.72	94.71	69.995		
10,100.00	7,662.32	4,553.00	4,553.00	133.42	78.51	67.03	232.78	94.08	6,646.94	6,552.36	94.58	70.280		
10,150.00	7,681.01	4,553.00	4,553.00	133.50	78.51	65.08	232.78	94.08	6,660.89	6,566.43	94.46	70.518		
10,200.00	7,696.85	4,553.00	4,553.00	133.52	78.51	63.55	232.78	94.08	6,671.21	6,576.85	94.36	70.703		
10,250.00	7,709.70	4,553.00	4,553.00	133.51	78.51	62.41	232.78	94.08	6,677.83	6,583.55	94.28	70.830		
10,300.00	7,719.47	4,553.00	4,553.00	133.46	78.51	61.63	232.78	94.08	6,680.71	6,586.47	94.23	70.896		
10,350.00	7,726.09	4,553.00	4,553.00	133.37	78.51	61.21	232.78	94.08	6,679.84	6,585.62	94.22	70.896		
10,400.00	7,729.50	4,553.00	4,553.00	133.26	78.51	61.13	232.78	94.08	6,675.22	6,580.97	94.25	70.828		
10,427.79	7,730.00	4,553.00	4,553.00	133.18	78.51	61.23	232.78	94.08	6,671.04	6,576.76	94.28	70.759		
10,500.00	7,730.00	4,553.00	4,553.00	132.98	78.51	61.23	232.78	94.08	6,659.07	6,564.67	94.40	70.540		
10,600.00	7,730.00	4,553.00	4,553.00	132.72	78.51	61.23	232.78	94.08	6,643.76	6,549.10	94.66	70.185		
10,700.00	7,730.00	4,553.00	4,553.00	132.47	78.51	61.23	232.78	94.08	6,629.92	6,534.90	95.02	69.775		
10,800.00	7,730.00	4,553.00	4,553.00	132.22	78.51	61.23	232.78	94.08	6,617.56	6,522.09	95.47	69.315		
10,900.00	7,730.00	4,553.00	4,553.00	131.99	78.51	61.23	232.78	94.08	6,606.69	6,510.68	96.01	68.810		
11,000.00	7,730.00	4,553.00	4,553.00	131.77	78.51	61.23	232.78	94.08	6,597.32	6,500.68	96.64	68.265		
11,100.00	7,730.00	4,553.00	4,553.00	131.56	78.51	61.23	232.78	94.08	6,589.46	6,492.11	97.35	67.687		
11,200.00	7,730.00	4,553.00	4,553.00	131.36	78.51	61.23	232.78	94.08	6,583.10	6,484.97	98.13	67.083		
11,300.00	7,730.00	4,553.00	4,553.00	131.17	78.51	61.23	232.78	94.08	6,578.26	6,479.28	98.98	66.458		
11,400.00	7,730.00	4,553.00	4,553.00	130.99	78.51	61.23	232.78	94.08	6,574.94	6,475.04	99.89	65.819		
11,500.00	7,730.00	4,553.00	4,553.00	130.82	78.51	61.23	232.78	94.08	6,573.14	6,472.27	100.86	65.170		
11,568.53	7,730.00	4,553.00	4,553.00	130.71	78.51	61.23	232.78	94.08	6,572.78	6,471.22	101.56	64.717		
11,600.00	7,730.00	4,553.00	4,553.00	130.66	78.51	61.23	232.78	94.08	6,572.85	6,470.98	101.88	64.516		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,700.00	7,730.00	4,553.00	4,553.00	130.51	78.51	61.23	232.78	94.08	6,574.09	6,471.15	102.94	63.863		
11,800.00	7,730.00	4,553.00	4,553.00	130.37	78.51	61.23	232.78	94.08	6,576.85	6,472.81	104.04	63.214		
11,900.00	7,730.00	4,553.00	4,553.00	130.24	78.51	61.23	232.78	94.08	6,581.13	6,475.96	105.18	62.572		
12,000.00	7,730.00	4,553.00	4,553.00	130.13	78.51	61.23	232.78	94.08	6,586.93	6,480.58	106.34	61.941		
12,100.00	7,730.00	4,553.00	4,553.00	130.02	78.51	61.23	232.78	94.08	6,594.23	6,486.70	107.53	61.323		
12,200.00	7,730.00	4,553.00	4,553.00	129.93	78.51	61.23	232.78	94.08	6,603.04	6,494.30	108.75	60.719		
12,300.00	7,730.00	4,553.00	4,553.00	129.85	78.51	61.23	232.78	94.08	6,613.36	6,503.38	109.98	60.133		
12,400.00	7,730.00	4,553.00	4,553.00	129.77	78.51	61.23	232.78	94.08	6,625.16	6,513.94	111.23	59.565		
12,500.00	7,730.00	4,553.00	4,553.00	129.71	78.51	61.23	232.78	94.08	6,638.45	6,525.97	112.49	59.016		
12,600.00	7,730.00	4,553.00	4,553.00	129.66	78.51	61.23	232.78	94.08	6,653.22	6,539.47	113.75	58.488		
12,700.00	7,730.00	4,553.00	4,553.00	129.63	78.51	61.23	232.78	94.08	6,669.46	6,554.43	115.03	57.980		
12,800.00	7,730.00	4,553.00	4,553.00	129.60	78.51	61.23	232.78	94.08	6,687.15	6,570.84	116.31	57.495		
12,900.00	7,730.00	4,553.00	4,553.00	129.59	78.51	61.23	232.78	94.08	6,706.28	6,588.69	117.59	57.031		
13,000.00	7,730.00	4,553.00	4,553.00	129.59	78.51	61.23	232.78	94.08	6,726.85	6,607.98	118.87	56.589		
13,100.00	7,730.00	4,553.00	4,553.00	129.60	78.51	61.23	232.78	94.08	6,748.84	6,628.69	120.15	56.169		
13,200.00	7,730.00	4,553.00	4,553.00	129.63	78.51	61.23	232.78	94.08	6,772.23	6,650.80	121.43	55.771		
13,300.00	7,730.00	4,553.00	4,553.00	129.66	78.51	61.23	232.78	94.08	6,797.01	6,674.32	122.70	55.396		
13,400.00	7,730.00	4,553.00	4,553.00	129.72	78.51	61.23	232.78	94.08	6,823.17	6,699.21	123.96	55.042		
13,500.00	7,730.00	4,553.00	4,553.00	129.78	78.51	61.23	232.78	94.08	6,850.69	6,725.47	125.22	54.710		
13,600.00	7,730.00	4,553.00	4,553.00	129.86	78.51	61.23	232.78	94.08	6,879.56	6,753.09	126.47	54.399		
13,700.00	7,730.00	4,553.00	4,553.00	129.96	78.51	61.23	232.78	94.08	6,909.75	6,782.04	127.70	54.109		
13,800.00	7,730.00	4,553.00	4,553.00	130.07	78.51	61.23	232.78	94.08	6,941.24	6,812.32	128.93	53.839		
13,900.00	7,730.00	4,553.00	4,553.00	130.19	78.51	61.23	232.78	94.08	6,974.04	6,843.90	130.14	53.590		
14,000.00	7,730.00	4,553.00	4,553.00	130.33	78.51	61.23	232.78	94.08	7,008.10	6,876.76	131.33	53.361		
14,100.00	7,730.00	4,553.00	4,553.00	130.49	78.51	61.23	232.78	94.08	7,043.42	6,910.90	132.52	53.150		
14,200.00	7,730.00	4,553.00	4,553.00	130.67	78.51	61.23	232.78	94.08	7,079.98	6,946.29	133.69	52.959		
14,300.00	7,730.00	4,553.00	4,553.00	130.86	78.51	61.23	232.78	94.08	7,117.75	6,982.91	134.84	52.786		
14,400.00	7,730.00	4,553.00	4,553.00	131.07	78.51	61.23	232.78	94.08	7,156.72	7,020.74	135.98	52.631		
14,500.00	7,730.00	4,553.00	4,553.00	131.30	78.51	61.23	232.78	94.08	7,196.87	7,059.77	137.10	52.494		
14,600.00	7,730.00	4,553.00	4,553.00	131.55	78.51	61.23	232.78	94.08	7,238.18	7,099.98	138.20	52.374		
14,700.00	7,730.00	4,553.00	4,553.00	131.82	78.51	61.23	232.78	94.08	7,280.63	7,141.34	139.29	52.270		
14,800.00	7,730.00	4,553.00	4,553.00	132.11	78.51	61.23	232.78	94.08	7,324.19	7,183.84	140.36	52.183		
14,900.00	7,730.00	4,553.00	4,553.00	132.42	78.51	61.23	232.78	94.08	7,368.86	7,227.45	141.41	52.111		
15,000.00	7,730.00	4,553.00	4,553.00	132.75	78.51	61.23	232.78	94.08	7,414.61	7,272.17	142.44	52.055		
15,100.00	7,730.00	4,553.00	4,553.00	133.10	78.51	61.23	232.78	94.08	7,461.41	7,317.96	143.45	52.013		
15,200.00	7,730.00	4,553.00	4,553.00	133.48	78.51	61.23	232.78	94.08	7,509.26	7,364.81	144.45	51.986		
15,300.00	7,730.00	4,553.00	4,553.00	133.88	78.51	61.23	232.78	94.08	7,558.13	7,412.70	145.42	51.973		
15,400.00	7,730.00	4,553.00	4,553.00	134.31	78.51	61.23	232.78	94.08	7,607.99	7,461.61	146.38	51.973		
15,500.00	7,730.00	4,553.00	4,553.00	134.76	78.51	61.23	232.78	94.08	7,658.84	7,511.52	147.32	51.987		
15,600.00	7,730.00	4,553.00	4,553.00	135.23	78.51	61.23	232.78	94.08	7,710.65	7,562.41	148.24	52.013		
15,700.00	7,730.00	4,553.00	4,553.00	135.73	78.51	61.23	232.78	94.08	7,763.40	7,614.26	149.15	52.052		
15,800.00	7,730.00	4,553.00	4,553.00	136.26	78.51	61.23	232.78	94.08	7,817.08	7,667.05	150.03	52.103		
15,900.00	7,730.00	4,553.00	4,553.00	136.81	78.51	61.23	232.78	94.08	7,871.66	7,720.76	150.90	52.166		
16,000.00	7,730.00	4,553.00	4,553.00	137.39	78.51	61.23	232.78	94.08	7,927.13	7,775.38	151.75	52.240		
16,100.00	7,730.00	4,553.00	4,553.00	138.00	78.51	61.23	232.78	94.08	7,983.46	7,830.88	152.58	52.325		
16,200.00	7,730.00	4,553.00	4,553.00	138.63	78.51	61.23	232.78	94.08	8,040.64	7,887.25	153.39	52.420		
16,300.00	7,730.00	4,553.00	4,553.00	139.30	78.51	61.23	232.78	94.08	8,098.66	7,944.47	154.18	52.526		
16,400.00	7,730.00	4,553.00	4,553.00	139.99	78.51	61.23	232.78	94.08	8,157.48	8,002.52	154.96	52.642		
16,500.00	7,730.00	4,553.00	4,553.00	140.70	78.51	61.23	232.78	94.08	8,217.10	8,061.38	155.72	52.768		
16,600.00	7,730.00	4,553.00	4,553.00	141.45	78.51	61.23	232.78	94.08	8,277.51	8,121.04	156.46	52.903		
16,700.00	7,730.00	4,553.00	4,553.00	142.22	78.51	61.23	232.78	94.08	8,338.67	8,181.48	157.19	53.048		
16,800.00	7,730.00	4,553.00	4,553.00	143.03	78.51	61.23	232.78	94.08	8,400.58	8,242.67	157.90	53.201		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,900.00	7,730.00	4,553.00	4,553.00	143.86	78.51	61.23	232.78	94.08	8,463.21	8,304.62	158.60	53.363		
17,000.00	7,730.00	4,553.00	4,553.00	144.71	78.51	61.23	232.78	94.08	8,526.56	8,367.29	159.28	53.534		
17,100.00	7,730.00	4,553.00	4,553.00	145.60	78.51	61.23	232.78	94.08	8,590.61	8,430.67	159.94	53.712		
17,200.00	7,730.00	4,553.00	4,553.00	146.51	78.51	61.23	232.78	94.08	8,655.34	8,494.75	160.59	53.898		
17,300.00	7,730.00	4,553.00	4,553.00	147.44	78.51	61.23	232.78	94.08	8,720.73	8,559.51	161.22	54.092		
17,400.00	7,730.00	4,553.00	4,553.00	148.40	78.51	61.23	232.78	94.08	8,786.78	8,624.94	161.84	54.294		
17,500.00	7,730.00	4,553.00	4,553.00	149.39	78.51	61.23	232.78	94.08	8,853.46	8,691.02	162.44	54.502		
17,600.00	7,730.00	4,553.00	4,553.00	150.40	78.51	61.23	232.78	94.08	8,920.76	8,757.73	163.03	54.718		
17,700.00	7,730.00	4,553.00	4,553.00	151.44	78.51	61.23	232.78	94.08	8,988.68	8,825.07	163.61	54.940		
17,800.00	7,730.00	4,553.00	4,553.00	152.50	78.51	61.23	232.78	94.08	9,057.19	8,893.02	164.17	55.169		
17,900.00	7,730.00	4,553.00	4,553.00	153.58	78.51	61.23	232.78	94.08	9,126.28	8,961.56	164.72	55.405		
18,000.00	7,730.00	4,553.00	4,553.00	154.68	78.51	61.23	232.78	94.08	9,195.93	9,030.68	165.26	55.646		
18,100.00	7,730.00	4,553.00	4,553.00	155.80	78.51	61.23	232.78	94.08	9,266.15	9,100.37	165.78	55.894		
18,200.00	7,730.00	4,553.00	4,553.00	156.95	78.51	61.23	232.78	94.08	9,336.90	9,170.61	166.29	56.147		
18,300.00	7,730.00	4,553.00	4,553.00	158.11	78.51	61.23	232.78	94.08	9,408.19	9,241.40	166.79	56.407		
18,400.00	7,730.00	4,553.00	4,553.00	159.30	78.51	61.23	232.78	94.08	9,480.00	9,312.72	167.28	56.671		
18,500.00	7,730.00	4,553.00	4,553.00	160.50	78.51	61.23	232.78	94.08	9,552.31	9,384.56	167.76	56.941		
18,600.00	7,730.00	4,553.00	4,553.00	161.72	78.51	61.23	232.78	94.08	9,625.12	9,456.90	168.22	57.217		
18,700.00	7,730.00	4,553.00	4,553.00	162.96	78.51	61.23	232.78	94.08	9,698.42	9,529.74	168.68	57.497		
18,800.00	7,730.00	4,553.00	4,553.00	164.21	78.51	61.23	232.78	94.08	9,772.18	9,603.06	169.12	57.782		
18,900.00	7,730.00	4,553.00	4,553.00	165.48	78.51	61.23	232.78	94.08	9,846.41	9,676.86	169.55	58.072		
19,000.00	7,730.00	4,553.00	4,553.00	166.76	78.51	61.23	232.78	94.08	9,921.10	9,751.12	169.98	58.367		
19,100.00	7,730.00	4,553.00	4,553.00	168.06	78.51	61.23	232.78	94.08	9,996.22	9,825.83	170.39	58.666		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-22.95	257.92	-109.20	280.38					
100.00	100.00	87.00	87.00	0.13	0.68	-22.95	257.92	-109.20	280.08	279.27	0.81	345.723 CC		
200.00	199.98	186.98	186.98	0.49	2.29	-93.75	257.92	-109.20	280.19	277.41	2.78	100.614		
300.00	299.84	286.84	286.84	0.86	4.04	-94.81	257.92	-109.20	280.58	275.69	4.89	57.375		
400.00	399.45	386.45	386.45	1.23	5.78	-96.56	257.92	-109.20	281.45	274.44	7.01	40.174		
500.00	498.70	485.70	485.70	1.63	7.51	-98.96	257.92	-109.20	283.11	273.97	9.13	30.996 ES		
600.00	597.47	584.47	584.47	2.05	9.23	-101.96	257.92	-109.20	285.98	274.71	11.28	25.361		
700.00	695.62	682.62	682.62	2.51	10.95	-105.49	257.92	-109.20	290.59	277.16	13.43	21.631		
800.00	793.06	780.06	780.06	3.00	12.65	-109.44	257.92	-109.20	297.51	281.91	15.60	19.066		
900.00	889.64	876.64	876.64	3.53	14.33	-113.69	257.92	-109.20	307.33	289.54	17.78	17.283		
1,000.00	985.27	972.27	972.27	4.12	16.00	-118.08	257.92	-109.20	320.57	300.61	19.96	16.062		
1,100.00	1,079.82	1,066.82	1,066.82	4.75	17.65	-122.48	257.92	-109.20	337.69	315.57	22.12	15.265		
1,200.00	1,173.17	1,160.17	1,160.17	5.44	19.28	-126.76	257.92	-109.20	359.02	334.75	24.26	14.796		
1,300.00	1,265.21	1,252.21	1,252.21	6.18	20.89	-130.81	257.92	-109.20	384.73	358.36	26.38	14.586		
1,400.00	1,355.84	1,342.84	1,342.84	6.99	22.47	-134.58	257.92	-109.20	414.90	386.45	28.45	14.582 SF		
1,500.00	1,444.94	1,431.94	1,431.94	7.87	24.02	-138.02	257.92	-109.20	449.48	418.99	30.49	14.743		
1,600.00	1,532.39	1,519.39	1,519.39	8.80	25.55	-141.12	257.92	-109.20	488.37	455.89	32.48	15.034		
1,700.00	1,618.11	1,605.11	1,605.11	9.81	27.05	-143.89	257.92	-109.20	531.42	496.98	34.44	15.432		
1,800.00	1,701.97	1,688.97	1,688.97	10.89	28.51	-146.34	257.92	-109.20	578.44	542.10	36.35	15.914		
1,900.00	1,783.88	1,770.88	1,770.88	12.04	29.94	-148.49	257.92	-109.20	629.27	591.05	38.22	16.466		
2,000.00	1,863.74	1,850.74	1,850.74	13.26	31.33	-150.37	257.92	-109.20	683.70	643.66	40.04	17.076		
2,100.00	1,941.45	1,928.45	1,928.45	14.55	32.69	-152.01	257.92	-109.20	741.57	699.76	41.82	17.733		
2,200.00	2,016.92	2,003.92	2,003.92	15.92	34.01	-153.44	257.92	-109.20	802.72	759.16	43.55	18.431		
2,292.11	2,084.36	2,071.36	2,071.36	17.25	35.18	-154.57	257.92	-109.20	861.79	816.68	45.11	19.105		
2,300.00	2,090.06	2,077.06	2,077.06	17.36	35.28	-154.72	257.92	-109.20	866.96	821.72	45.24	19.163		
2,400.00	2,162.18	2,149.18	2,149.18	18.84	36.54	-156.46	257.92	-109.20	932.80	885.90	46.90	19.890		
2,500.00	2,234.31	2,221.31	2,221.31	20.33	37.80	-157.99	257.92	-109.20	999.09	950.54	48.55	20.578		
2,600.00	2,306.43	2,306.57	2,293.43	21.83	39.29	-159.35	257.92	-109.20	1,065.77	1,015.34	50.43	21.133		
2,700.00	2,378.56	2,365.56	2,365.56	23.33	40.32	-160.55	257.92	-109.20	1,132.76	1,080.90	51.86	21.845		
2,800.00	2,450.68	2,437.68	2,437.68	24.84	41.58	-161.62	257.92	-109.20	1,200.00	1,146.50	53.51	22.427		
2,900.00	2,522.81	2,509.81	2,509.81	26.36	42.84	-162.59	257.92	-109.20	1,267.47	1,212.31	55.16	22.977		
3,000.00	2,594.93	2,581.93	2,581.93	27.88	44.09	-163.46	257.92	-109.20	1,335.12	1,278.30	56.82	23.499		
3,100.00	2,667.06	2,654.06	2,654.06	29.40	45.35	-164.25	257.92	-109.20	1,402.92	1,344.45	58.47	23.992		
3,200.00	2,739.18	2,726.18	2,726.18	30.92	46.61	-164.97	257.92	-109.20	1,470.87	1,410.73	60.13	24.461		
3,300.00	2,811.31	2,801.69	2,798.31	32.45	47.93	-165.63	257.92	-109.20	1,538.93	1,477.08	61.85	24.881		
3,400.00	2,883.43	2,870.43	2,870.43	33.98	49.13	-166.24	257.92	-109.20	1,607.09	1,543.64	63.45	25.327		
3,500.00	2,955.56	2,942.56	2,942.56	35.51	50.39	-166.79	257.92	-109.20	1,675.34	1,610.23	65.12	25.728		
3,600.00	3,027.68	3,014.68	3,014.68	37.04	51.65	-167.31	257.92	-109.20	1,743.68	1,676.90	66.78	26.110		
3,700.00	3,099.81	3,086.81	3,086.81	38.57	52.91	-167.78	257.92	-109.20	1,812.08	1,743.64	68.45	26.473		
3,800.00	3,171.93	3,158.93	3,158.93	40.11	54.17	-168.23	257.92	-109.20	1,880.55	1,810.44	70.12	26.820		
3,900.00	3,244.06	3,231.06	3,231.06	41.64	55.42	-168.64	257.92	-109.20	1,949.08	1,877.29	71.79	27.151		
4,000.00	3,316.18	3,303.18	3,303.18	43.18	56.68	-169.02	257.92	-109.20	2,017.65	1,944.19	73.46	27.466		
4,100.00	3,388.31	3,375.31	3,375.31	44.71	57.94	-169.38	257.92	-109.20	2,086.27	2,011.14	75.13	27.768		
4,200.00	3,460.43	3,447.43	3,447.43	46.25	59.20	-169.72	257.92	-109.20	2,154.94	2,078.13	76.81	28.056		
4,300.00	3,532.56	3,519.56	3,519.56	47.79	60.46	-170.03	257.92	-109.20	2,223.64	2,145.15	78.48	28.332		
4,400.00	3,604.68	3,608.32	3,591.68	49.33	62.01	-170.33	257.92	-109.20	2,292.37	2,211.92	80.45	28.494		
4,500.00	3,676.81	3,663.81	3,663.81	50.87	62.98	-170.61	257.92	-109.20	2,361.14	2,279.30	81.84	28.851		
4,600.00	3,748.93	3,735.93	3,735.93	52.41	64.24	-170.88	257.92	-109.20	2,429.93	2,346.41	83.52	29.094		
4,700.00	3,821.06	3,808.06	3,808.06	53.95	65.49	-171.13	257.92	-109.20	2,498.75	2,413.55	85.20	29.328		
4,800.00	3,893.18	3,880.18	3,880.18	55.49	66.75	-171.36	257.92	-109.20	2,567.60	2,480.71	86.88	29.552		
4,900.00	3,965.31	3,952.31	3,952.31	57.03	68.01	-171.59	257.92	-109.20	2,636.46	2,547.90	88.57	29.768		
5,000.00	4,037.43	4,024.43	4,024.43	58.58	69.27	-171.80	257.92	-109.20	2,705.35	2,615.10	90.25	29.976		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,103.44	4,096.56	60.12	70.65	-172.01	257.92	-109.20	2,774.25	2,682.20	92.06	30.136		
5,200.00	4,181.68	4,168.68	4,168.68	61.66	71.79	-172.20	257.92	-109.20	2,843.18	2,749.55	93.62	30.368		
5,300.00	4,253.81	4,240.81	4,240.81	63.20	73.05	-172.38	257.92	-109.20	2,912.12	2,816.81	95.31	30.554		
5,400.00	4,325.93	4,312.93	4,312.93	64.75	74.31	-172.56	257.92	-109.20	2,981.07	2,884.07	97.00	30.733		
5,500.00	4,398.06	4,385.06	4,385.06	66.29	75.57	-172.73	257.92	-109.20	3,050.04	2,951.35	98.69	30.905		
5,600.00	4,470.18	4,457.18	4,457.18	67.84	76.82	-172.89	257.92	-109.20	3,119.02	3,018.64	100.38	31.072		
5,700.00	4,542.31	4,529.31	4,529.31	69.38	78.08	-173.04	257.92	-109.20	3,188.02	3,085.95	102.07	31.233		
5,800.00	4,614.43	4,601.43	4,601.43	70.92	79.34	-173.19	257.92	-109.20	3,257.03	3,153.26	103.76	31.389		
5,900.00	4,686.56	4,673.56	4,673.56	72.47	80.60	-173.33	257.92	-109.20	3,326.04	3,220.59	105.46	31.539		
6,000.00	4,758.68	4,745.68	4,745.68	74.01	81.86	-173.46	257.92	-109.20	3,395.07	3,287.92	107.15	31.685		
6,100.00	4,830.81	4,817.81	4,817.81	75.56	83.12	-173.59	257.92	-109.20	3,464.11	3,355.26	108.84	31.826		
6,200.00	4,902.93	4,889.93	4,889.93	77.10	84.38	-173.72	257.92	-109.20	3,533.15	3,422.61	110.54	31.963		
6,300.00	4,975.06	4,962.06	4,962.06	78.65	85.64	-173.84	257.92	-109.20	3,602.21	3,489.97	112.24	32.095		
6,400.00	5,047.18	5,034.18	5,034.18	80.19	86.89	-173.96	257.92	-109.20	3,671.27	3,557.34	113.93	32.223		
6,500.00	5,119.31	5,106.31	5,106.31	81.74	88.15	-174.07	257.92	-109.20	3,740.34	3,624.71	115.63	32.348		
6,600.00	5,191.43	5,178.43	5,178.43	83.28	89.41	-174.17	257.92	-109.20	3,809.42	3,692.09	117.33	32.468		
6,700.00	5,263.56	5,250.56	5,250.56	84.83	90.67	-174.28	257.92	-109.20	3,878.50	3,759.47	119.03	32.585		
6,800.00	5,335.68	5,322.68	5,322.68	86.37	91.93	-174.38	257.92	-109.20	3,947.59	3,826.87	120.73	32.699		
6,900.00	5,407.81	5,405.19	5,394.81	87.92	93.37	-174.47	257.92	-109.20	4,016.69	3,894.08	122.61	32.761		
7,000.00	5,479.93	5,466.93	5,466.93	89.47	94.45	-174.57	257.92	-109.20	4,085.79	3,961.66	124.13	32.916		
7,100.00	5,552.06	5,539.06	5,539.06	91.01	95.71	-174.66	257.92	-109.20	4,154.90	4,029.07	125.83	33.020		
7,200.00	5,624.18	5,611.18	5,611.18	92.56	96.96	-174.75	257.92	-109.20	4,224.01	4,096.48	127.53	33.122		
7,300.00	5,696.31	5,683.31	5,683.31	94.10	98.22	-174.83	257.92	-109.20	4,293.13	4,163.90	129.23	33.220		
7,400.00	5,768.43	5,755.43	5,755.43	95.65	99.48	-174.91	257.92	-109.20	4,362.25	4,231.32	130.94	33.316		
7,500.00	5,840.56	5,827.56	5,827.56	97.20	100.74	-174.99	257.92	-109.20	4,431.38	4,298.74	132.64	33.409		
7,600.00	5,912.68	5,900.32	5,899.68	98.74	102.01	-175.07	257.92	-109.20	4,500.51	4,366.16	134.36	33.497		
7,700.00	5,984.81	5,971.81	5,971.81	100.29	103.26	-175.14	257.92	-109.20	4,569.65	4,433.60	136.05	33.588		
7,800.00	6,056.93	6,043.93	6,043.93	101.84	104.52	-175.21	257.92	-109.20	4,638.79	4,501.03	137.75	33.674		
7,900.00	6,129.06	6,116.06	6,116.06	103.38	105.78	-175.28	257.92	-109.20	4,707.93	4,568.47	139.46	33.758		
8,000.00	6,201.18	6,188.18	6,188.18	104.93	107.04	-175.35	257.92	-109.20	4,777.08	4,635.91	141.17	33.840		
8,100.00	6,273.31	6,260.31	6,260.31	106.48	108.29	-175.42	257.92	-109.20	4,846.23	4,703.35	142.87	33.919		
8,200.00	6,345.43	6,332.43	6,332.43	108.02	109.55	-175.48	257.92	-109.20	4,915.38	4,770.80	144.58	33.997		
8,300.00	6,417.56	6,404.56	6,404.56	109.57	110.81	-175.55	257.92	-109.20	4,984.54	4,838.25	146.29	34.073		
8,400.00	6,489.68	6,476.68	6,476.68	111.12	112.07	-175.61	257.92	-109.20	5,053.70	4,905.70	148.00	34.147		
8,500.00	6,561.81	6,548.81	6,548.81	112.66	113.33	-175.67	257.92	-109.20	5,122.86	4,973.15	149.71	34.219		
8,600.00	6,633.93	6,620.93	6,620.93	114.21	114.59	-175.72	257.92	-109.20	5,192.03	5,040.61	151.42	34.289		
8,700.00	6,706.06	6,706.94	6,693.06	115.76	116.09	-175.78	257.92	-109.20	5,261.19	5,107.82	153.37	34.303		
8,800.00	6,778.18	6,765.18	6,765.18	117.30	117.11	-175.83	257.92	-109.20	5,330.37	5,175.52	154.84	34.425		
8,900.00	6,850.31	6,837.31	6,837.31	118.85	118.36	-175.89	257.92	-109.20	5,399.54	5,242.99	156.55	34.490		
9,000.00	6,922.43	6,909.43	6,909.43	120.40	119.62	-175.94	257.92	-109.20	5,468.71	5,310.45	158.26	34.554		
9,100.00	6,994.56	6,981.56	6,981.56	121.95	120.88	-175.99	257.92	-109.20	5,537.89	5,377.92	159.98	34.617		
9,200.00	7,066.68	7,053.68	7,053.68	123.49	122.14	-176.04	257.92	-109.20	5,607.07	5,445.38	161.69	34.678		
9,300.00	7,138.81	7,125.81	7,125.81	125.04	123.40	-176.09	257.92	-109.20	5,676.26	5,512.85	163.40	34.737		
9,392.50	7,205.52	7,207.48	7,192.52	126.47	124.83	-176.13	257.92	-109.20	5,740.25	5,575.00	165.25	34.737		
9,400.00	7,210.94	7,202.06	7,197.94	126.59	124.73	-177.60	257.92	-109.20	5,745.43	5,580.24	165.19	34.781		
9,450.00	7,247.42	7,234.42	7,234.42	127.35	125.30	172.64	257.92	-109.20	5,779.58	5,613.60	165.98	34.820		
9,500.00	7,284.35	7,271.35	7,271.35	128.10	125.94	163.02	257.92	-109.20	5,812.85	5,646.00	166.85	34.839		
9,550.00	7,321.43	7,308.43	7,308.43	128.83	126.59	153.72	257.92	-109.20	5,845.00	5,677.29	167.72	34.851		
9,600.00	7,358.38	7,345.38	7,345.38	129.52	127.23	144.89	257.92	-109.20	5,875.81	5,707.24	168.57	34.857		
9,650.00	7,394.93	7,381.93	7,381.93	130.16	127.87	136.65	257.92	-109.20	5,905.07	5,735.66	169.41	34.857		
9,700.00	7,430.79	7,417.79	7,417.79	130.76	128.50	129.09	257.92	-109.20	5,932.58	5,762.36	170.22	34.852		
9,750.00	7,465.70	7,452.70	7,452.70	131.30	129.11	122.28	257.92	-109.20	5,958.19	5,787.18	171.01	34.841		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,486.38	7,486.38	131.78	129.69	116.22	257.92	-109.20	5,981.75	5,809.98	171.76	34.826		
9,850.00	7,531.58	7,518.58	7,518.58	132.21	130.26	110.89	257.92	-109.20	6,003.11	5,830.63	172.47	34.806		
9,900.00	7,562.06	7,549.06	7,549.06	132.57	130.79	106.28	257.92	-109.20	6,022.17	5,849.02	173.14	34.781		
9,950.00	7,590.58	7,577.58	7,577.58	132.87	131.29	102.32	257.92	-109.20	6,038.83	5,865.06	173.77	34.752		
10,000.00	7,616.93	7,603.93	7,603.93	133.11	131.74	98.98	257.92	-109.20	6,053.02	5,878.67	174.34	34.719		
10,050.00	7,640.90	7,627.90	7,627.90	133.29	132.16	96.21	257.92	-109.20	6,064.67	5,889.80	174.87	34.681		
10,100.00	7,662.32	7,649.32	7,649.32	133.42	132.54	93.96	257.92	-109.20	6,073.74	5,898.39	175.35	34.638		
10,150.00	7,681.01	7,668.01	7,668.01	133.50	132.86	92.19	257.92	-109.20	6,080.21	5,904.43	175.78	34.590		
10,200.00	7,696.85	7,683.85	7,683.85	133.52	133.14	90.87	257.92	-109.20	6,084.05	5,907.89	176.16	34.538		
10,250.00	7,709.70	7,703.30	7,696.70	133.51	133.48	89.97	257.92	-109.20	6,085.26	5,908.66	176.60	34.458		
10,300.00	7,719.47	7,706.47	7,706.47	133.46	133.53	89.48	257.92	-109.20	6,083.86	5,907.09	176.77	34.417		
10,350.00	7,726.09	7,713.09	7,713.09	133.37	133.65	89.39	257.92	-109.20	6,079.86	5,902.86	177.01	34.348		
10,400.00	7,729.50	7,716.50	7,716.50	133.26	133.71	89.67	257.92	-109.20	6,073.32	5,896.11	177.20	34.273		
10,427.79	7,730.00	7,717.00	7,717.00	133.18	133.72	90.00	257.92	-109.20	6,068.59	5,891.29	177.29	34.229		
10,500.00	7,730.00	7,717.00	7,717.00	132.98	133.72	90.00	257.92	-109.20	6,055.72	5,878.20	177.53	34.112		
10,600.00	7,730.00	7,717.00	7,717.00	132.72	133.72	90.00	257.92	-109.20	6,039.28	5,861.39	177.89	33.949		
10,700.00	7,730.00	7,717.00	7,717.00	132.47	133.72	90.00	257.92	-109.20	6,024.46	5,846.15	178.31	33.786		
10,800.00	7,730.00	7,717.00	7,717.00	132.22	133.72	90.00	257.92	-109.20	6,011.27	5,832.48	178.78	33.623		
10,900.00	7,730.00	7,717.00	7,717.00	131.99	133.72	90.00	257.92	-109.20	5,999.71	5,820.40	179.31	33.461		
11,000.00	7,730.00	7,717.00	7,717.00	131.77	133.72	90.00	257.92	-109.20	5,989.80	5,809.92	179.87	33.300		
11,100.00	7,730.00	7,717.00	7,717.00	131.56	133.72	90.00	257.92	-109.20	5,981.54	5,801.05	180.49	33.141		
11,200.00	7,730.00	7,717.00	7,717.00	131.36	133.72	90.00	257.92	-109.20	5,974.95	5,793.81	181.14	32.984		
11,300.00	7,730.00	7,717.00	7,717.00	131.17	133.72	90.00	257.92	-109.20	5,970.03	5,788.18	181.84	32.831		
11,400.00	7,730.00	7,717.00	7,717.00	130.99	133.72	90.00	257.92	-109.20	5,966.78	5,784.20	182.58	32.681		
11,500.00	7,730.00	7,717.00	7,717.00	130.82	133.72	90.00	257.92	-109.20	5,965.20	5,781.85	183.35	32.535		
11,544.08	7,730.00	7,717.00	7,717.00	130.74	133.72	90.00	257.92	-109.20	5,965.04	5,781.33	183.71	32.471		
11,600.00	7,730.00	7,717.00	7,717.00	130.66	133.72	90.00	257.92	-109.20	5,965.30	5,781.15	184.15	32.394		
11,700.00	7,730.00	7,717.00	7,717.00	130.51	133.72	90.00	257.92	-109.20	5,967.07	5,782.09	184.98	32.257		
11,800.00	7,730.00	7,717.00	7,717.00	130.37	133.72	90.00	257.92	-109.20	5,970.52	5,784.68	185.84	32.127		
11,900.00	7,730.00	7,717.00	7,717.00	130.24	133.72	90.00	257.92	-109.20	5,975.64	5,788.92	186.72	32.003		
12,000.00	7,730.00	7,717.00	7,717.00	130.13	133.72	90.00	257.92	-109.20	5,982.43	5,794.81	187.63	31.885		
12,100.00	7,730.00	7,717.00	7,717.00	130.02	133.72	90.00	257.92	-109.20	5,990.88	5,802.34	188.55	31.774		
12,200.00	7,730.00	7,717.00	7,717.00	129.93	133.72	90.00	257.92	-109.20	6,000.99	5,811.50	189.49	31.670		
12,300.00	7,730.00	7,717.00	7,717.00	129.85	133.72	90.00	257.92	-109.20	6,012.74	5,822.30	190.44	31.574		
12,400.00	7,730.00	7,717.00	7,717.00	129.77	133.72	90.00	257.92	-109.20	6,026.13	5,834.73	191.40	31.485		
12,500.00	7,730.00	7,717.00	7,717.00	129.71	133.72	90.00	257.92	-109.20	6,041.14	5,848.78	192.37	31.404		
12,600.00	7,730.00	7,717.00	7,717.00	129.66	133.72	90.00	257.92	-109.20	6,057.77	5,864.43	193.34	31.332		
12,700.00	7,730.00	7,717.00	7,717.00	129.63	133.72	90.00	257.92	-109.20	6,076.00	5,881.68	194.32	31.268		
12,800.00	7,730.00	7,717.00	7,717.00	129.60	133.72	90.00	257.92	-109.20	6,095.82	5,900.52	195.30	31.213		
12,900.00	7,730.00	7,717.00	7,717.00	129.59	133.72	90.00	257.92	-109.20	6,117.20	5,920.92	196.28	31.166		
13,000.00	7,730.00	7,717.00	7,717.00	129.59	133.72	90.00	257.92	-109.20	6,140.14	5,942.89	197.26	31.128		
13,100.00	7,730.00	7,717.00	7,717.00	129.60	133.72	90.00	257.92	-109.20	6,164.62	5,966.39	198.23	31.098		
13,200.00	7,730.00	7,717.00	7,717.00	129.63	133.72	90.00	257.92	-109.20	6,190.61	5,991.42	199.20	31.078		
13,300.00	7,730.00	7,717.00	7,717.00	129.66	133.72	90.00	257.92	-109.20	6,218.11	6,017.95	200.16	31.066		
13,400.00	7,730.00	7,717.00	7,717.00	129.72	133.72	90.00	257.92	-109.20	6,247.08	6,045.97	201.11	31.062		
13,500.00	7,730.00	7,717.00	7,717.00	129.78	133.72	90.00	257.92	-109.20	6,277.52	6,075.46	202.06	31.068		
13,600.00	7,730.00	7,717.00	7,717.00	129.86	133.72	90.00	257.92	-109.20	6,309.39	6,106.40	202.99	31.082		
13,700.00	7,730.00	7,717.00	7,717.00	129.96	133.72	90.00	257.92	-109.20	6,342.68	6,138.77	203.91	31.105		
13,800.00	7,730.00	7,717.00	7,717.00	130.07	133.72	90.00	257.92	-109.20	6,377.37	6,172.54	204.82	31.136		
13,900.00	7,730.00	7,717.00	7,717.00	130.19	133.72	90.00	257.92	-109.20	6,413.42	6,207.70	205.72	31.175		
14,000.00	7,730.00	7,717.00	7,717.00	130.33	133.72	90.00	257.92	-109.20	6,450.83	6,244.22	206.60	31.223		
14,100.00	7,730.00	7,717.00	7,717.00	130.49	133.72	90.00	257.92	-109.20	6,489.56	6,282.08	207.47	31.279		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,717.00	7,717.00	130.67	133.72	90.00	257.92	-109.20	6,529.59	6,321.26	208.33	31.343		
14,300.00	7,730.00	7,717.00	7,717.00	130.86	133.72	90.00	257.92	-109.20	6,570.90	6,361.73	209.16	31.415		
14,400.00	7,730.00	7,717.00	7,717.00	131.07	133.72	90.00	257.92	-109.20	6,613.46	6,403.48	209.99	31.495		
14,500.00	7,730.00	7,717.00	7,717.00	131.30	133.72	90.00	257.92	-109.20	6,657.26	6,446.46	210.79	31.582		
14,600.00	7,730.00	7,717.00	7,717.00	131.55	133.72	90.00	257.92	-109.20	6,702.26	6,490.68	211.58	31.677		
14,700.00	7,730.00	7,717.00	7,717.00	131.82	133.72	90.00	257.92	-109.20	6,748.44	6,536.08	212.36	31.779		
14,800.00	7,730.00	7,717.00	7,717.00	132.11	133.72	90.00	257.92	-109.20	6,795.78	6,582.67	213.11	31.888		
14,900.00	7,730.00	7,717.00	7,717.00	132.42	133.72	90.00	257.92	-109.20	6,844.25	6,630.40	213.85	32.005		
15,000.00	7,730.00	7,717.00	7,717.00	132.75	133.72	90.00	257.92	-109.20	6,893.84	6,679.26	214.58	32.128		
15,100.00	7,730.00	7,717.00	7,717.00	133.10	133.72	90.00	257.92	-109.20	6,944.51	6,729.23	215.28	32.258		
15,200.00	7,730.00	7,717.00	7,717.00	133.48	133.72	90.00	257.92	-109.20	6,996.24	6,780.27	215.97	32.394		
15,300.00	7,730.00	7,717.00	7,717.00	133.88	133.72	90.00	257.92	-109.20	7,049.01	6,832.37	216.64	32.537		
15,400.00	7,730.00	7,717.00	7,717.00	134.31	133.72	90.00	257.92	-109.20	7,102.80	6,885.50	217.30	32.687		
15,500.00	7,730.00	7,717.00	7,717.00	134.76	133.72	90.00	257.92	-109.20	7,157.58	6,939.64	217.94	32.842		
15,600.00	7,730.00	7,717.00	7,717.00	135.23	133.72	90.00	257.92	-109.20	7,213.33	6,994.77	218.56	33.003		
15,700.00	7,730.00	7,717.00	7,717.00	135.73	133.72	90.00	257.92	-109.20	7,270.03	7,050.86	219.17	33.171		
15,800.00	7,730.00	7,717.00	7,717.00	136.26	133.72	90.00	257.92	-109.20	7,327.65	7,107.89	219.76	33.344		
15,900.00	7,730.00	7,717.00	7,717.00	136.81	133.72	90.00	257.92	-109.20	7,386.18	7,165.84	220.34	33.522		
16,000.00	7,730.00	7,717.00	7,717.00	137.39	133.72	90.00	257.92	-109.20	7,445.59	7,224.69	220.90	33.706		
16,100.00	7,730.00	7,717.00	7,717.00	138.00	133.72	90.00	257.92	-109.20	7,505.87	7,284.42	221.44	33.895		
16,200.00	7,730.00	7,717.00	7,717.00	138.63	133.72	90.00	257.92	-109.20	7,566.98	7,345.01	221.97	34.089		
16,300.00	7,730.00	7,717.00	7,717.00	139.30	133.72	90.00	257.92	-109.20	7,628.92	7,406.43	222.49	34.289		
16,400.00	7,730.00	7,717.00	7,717.00	139.99	133.72	90.00	257.92	-109.20	7,691.66	7,468.66	222.99	34.493		
16,500.00	7,730.00	7,717.00	7,717.00	140.70	133.72	90.00	257.92	-109.20	7,755.18	7,531.69	223.48	34.702		
16,600.00	7,730.00	7,717.00	7,717.00	141.45	133.72	90.00	257.92	-109.20	7,819.46	7,595.50	223.96	34.915		
16,700.00	7,730.00	7,717.00	7,717.00	142.22	133.72	90.00	257.92	-109.20	7,884.49	7,660.07	224.42	35.133		
16,800.00	7,730.00	7,717.00	7,717.00	143.03	133.72	90.00	257.92	-109.20	7,950.24	7,725.37	224.86	35.356		
16,900.00	7,730.00	7,717.00	7,717.00	143.86	133.72	90.00	257.92	-109.20	8,016.70	7,791.40	225.30	35.582		
17,000.00	7,730.00	7,717.00	7,717.00	144.71	133.72	90.00	257.92	-109.20	8,083.85	7,858.13	225.72	35.813		
17,100.00	7,730.00	7,717.00	7,717.00	145.60	133.72	90.00	257.92	-109.20	8,151.68	7,925.54	226.14	36.048		
17,200.00	7,730.00	7,717.00	7,717.00	146.51	133.72	90.00	257.92	-109.20	8,220.16	7,993.63	226.53	36.287		
17,300.00	7,730.00	7,717.00	7,717.00	147.44	133.72	90.00	257.92	-109.20	8,289.28	8,062.36	226.92	36.529		
17,400.00	7,730.00	7,717.00	7,717.00	148.40	133.72	90.00	257.92	-109.20	8,359.03	8,131.73	227.30	36.775		
17,500.00	7,730.00	7,717.00	7,717.00	149.39	133.72	90.00	257.92	-109.20	8,429.39	8,201.72	227.67	37.025		
17,600.00	7,730.00	7,717.00	7,717.00	150.40	133.72	90.00	257.92	-109.20	8,500.34	8,272.32	228.02	37.278		
17,700.00	7,730.00	7,717.00	7,717.00	151.44	133.72	90.00	257.92	-109.20	8,571.87	8,343.50	228.37	37.535		
17,800.00	7,730.00	7,717.00	7,717.00	152.50	133.72	90.00	257.92	-109.20	8,643.97	8,415.26	228.70	37.795		
17,900.00	7,730.00	7,717.00	7,717.00	153.58	133.72	90.00	257.92	-109.20	8,716.61	8,487.58	229.03	38.059		
18,000.00	7,730.00	7,717.00	7,717.00	154.68	133.72	90.00	257.92	-109.20	8,789.80	8,560.45	229.35	38.325		
18,100.00	7,730.00	7,717.00	7,717.00	155.80	133.72	90.00	257.92	-109.20	8,863.50	8,633.85	229.66	38.595		
18,200.00	7,730.00	7,717.00	7,717.00	156.95	133.72	90.00	257.92	-109.20	8,937.72	8,707.77	229.95	38.867		
18,300.00	7,730.00	7,717.00	7,717.00	158.11	133.72	90.00	257.92	-109.20	9,012.44	8,782.19	230.25	39.143		
18,400.00	7,730.00	7,717.00	7,717.00	159.30	133.72	90.00	257.92	-109.20	9,087.64	8,857.11	230.53	39.421		
18,500.00	7,730.00	7,717.00	7,717.00	160.50	133.72	90.00	257.92	-109.20	9,163.32	8,932.52	230.80	39.702		
18,600.00	7,730.00	7,717.00	7,717.00	161.72	133.72	90.00	257.92	-109.20	9,239.46	9,008.39	231.07	39.986		
18,700.00	7,730.00	7,717.00	7,717.00	162.96	133.72	90.00	257.92	-109.20	9,316.05	9,084.72	231.33	40.272		
18,800.00	7,730.00	7,717.00	7,717.00	164.21	133.72	90.00	257.92	-109.20	9,393.08	9,161.50	231.58	40.561		
18,900.00	7,730.00	7,717.00	7,717.00	165.48	133.72	90.00	257.92	-109.20	9,470.54	9,238.72	231.83	40.852		
19,000.00	7,730.00	7,717.00	7,717.00	166.76	133.72	90.00	257.92	-109.20	9,548.42	9,316.36	232.06	41.146		
19,100.00	7,730.00	7,717.00	7,717.00	168.06	133.72	90.00	257.92	-109.20	9,626.71	9,394.41	232.30	41.442		
19,200.00	7,730.00	7,717.00	7,717.00	169.38	133.72	90.00	257.92	-109.20	9,705.40	9,472.87	232.52	41.740		
19,300.00	7,730.00	7,717.00	7,717.00	170.70	133.72	90.00	257.92	-109.20	9,784.47	9,551.73	232.74	42.040		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,717.00	7,717.00	172.04	133.72	90.00	257.92	-109.20	9,863.93	9,630.97	232.95	42.343	
19,500.00	7,730.00	7,717.00	7,717.00	173.40	133.72	90.00	257.92	-109.20	9,943.75	9,710.59	233.16	42.648	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.48	1.09	-119.84	119.85					
100.00	100.00	102.00	102.00	0.13	0.14	-89.48	1.09	-119.84	119.85	119.57	0.28	434.188	CC, ES	
200.00	199.98	201.98	201.98	0.49	0.50	-160.20	1.09	-119.84	121.49	120.49	0.99	122.494		
300.00	299.84	301.84	301.84	0.86	0.86	-160.97	1.09	-119.84	126.42	124.71	1.71	73.721		
400.00	399.45	401.45	401.45	1.23	1.22	-162.13	1.09	-119.84	134.69	132.25	2.44	55.193		
500.00	498.70	500.70	500.70	1.63	1.57	-163.53	1.09	-119.84	146.35	143.18	3.17	46.197		
600.00	597.47	600.53	599.47	2.05	1.93	-165.02	1.09	-119.84	161.42	157.52	3.90	41.380		
700.00	695.62	702.38	697.62	2.51	2.29	-166.50	1.09	-119.84	179.93	175.29	4.64	38.741		
800.00	793.06	804.94	795.06	3.00	2.66	-167.90	1.09	-119.84	201.90	196.50	5.39	37.427		
900.00	889.64	908.36	891.64	3.53	3.03	-169.17	1.09	-119.84	227.30	221.15	6.15	36.952		
1,000.00	985.27	987.27	987.27	4.12	3.32	-170.29	1.09	-119.84	256.11	249.28	6.82	37.531		
1,100.00	1,079.82	1,081.82	1,081.82	4.75	3.65	-171.28	1.09	-119.84	288.29	280.73	7.56	38.152		
1,200.00	1,173.17	1,175.17	1,175.17	5.44	3.99	-172.14	1.09	-119.84	323.79	315.51	8.29	39.065		
1,300.00	1,265.21	1,267.21	1,267.21	6.18	4.32	-172.88	1.09	-119.84	362.58	353.56	9.02	40.198		
1,400.00	1,355.84	1,365.57	1,365.56	6.99	4.67	-173.51	1.64	-119.33	404.05	394.26	9.79	41.283		
1,500.00	1,444.94	1,469.09	1,468.99	7.87	5.04	-173.83	4.75	-116.44	446.14	435.56	10.59	42.147		
1,600.00	1,532.39	1,573.96	1,573.55	8.80	5.41	-173.87	10.68	-110.92	488.63	477.23	11.40	42.871		
1,700.00	1,618.11	1,680.19	1,679.08	9.81	5.80	-173.69	19.53	-102.68	531.46	519.23	12.23	43.469		
1,800.00	1,701.97	1,787.79	1,785.43	10.89	6.20	-173.32	31.42	-91.62	574.60	561.53	13.07	43.950		
1,900.00	1,783.88	1,896.76	1,892.45	12.04	6.62	-172.80	46.43	-77.65	618.03	604.09	13.94	44.319		
2,000.00	1,863.74	2,007.11	1,999.95	13.26	7.07	-172.15	64.65	-60.69	661.73	646.89	14.84	44.577		
2,100.00	1,941.45	2,118.85	2,107.75	14.55	7.57	-171.39	86.18	-40.65	705.69	689.90	15.78	44.714		
2,200.00	2,016.92	2,232.00	2,215.64	15.92	8.10	-170.54	111.09	-17.47	749.88	733.12	16.76	44.733		
2,292.11	2,084.36	2,337.45	2,314.92	17.25	8.65	-169.67	137.11	6.74	790.80	773.08	17.72	44.640		
2,300.00	2,090.06	2,346.55	2,323.43	17.36	8.70	-169.61	139.48	8.95	794.31	776.50	17.80	44.619		
2,400.00	2,162.18	2,463.56	2,431.83	18.84	9.36	-168.74	171.70	38.94	837.17	818.26	18.90	44.289		
2,500.00	2,234.31	2,583.59	2,541.07	20.33	10.10	-167.75	208.10	72.81	877.10	857.01	20.09	43.656		
2,600.00	2,306.43	2,672.79	2,621.60	21.83	10.70	-167.03	236.18	98.95	915.88	894.68	21.20	43.206		
2,700.00	2,378.56	2,764.33	2,704.24	23.33	11.32	-166.34	265.01	125.78	954.77	932.43	22.35	42.729		
2,800.00	2,450.68	2,855.87	2,786.87	24.84	11.96	-165.71	293.84	152.61	993.78	970.26	23.52	42.252		
2,900.00	2,522.81	2,947.41	2,869.51	26.36	12.62	-165.12	322.67	179.44	1,032.87	1,008.15	24.72	41.783		
3,000.00	2,594.93	3,038.95	2,952.14	27.88	13.28	-164.58	351.50	206.27	1,072.06	1,046.11	25.94	41.323		
3,100.00	2,667.06	3,130.49	3,034.78	29.40	13.96	-164.07	380.33	233.10	1,111.31	1,084.13	27.19	40.877		
3,200.00	2,739.18	3,222.03	3,117.41	30.92	14.64	-163.60	409.16	259.93	1,150.64	1,122.19	28.45	40.446		
3,300.00	2,811.31	3,313.57	3,200.05	32.45	15.34	-163.16	437.98	286.76	1,190.03	1,160.30	29.73	40.030		
3,400.00	2,883.43	3,405.11	3,282.68	33.98	16.03	-162.75	466.81	313.59	1,229.48	1,198.46	31.02	39.631		
3,500.00	2,955.56	3,496.65	3,365.32	35.51	16.74	-162.36	495.64	340.42	1,268.98	1,236.64	32.33	39.249		
3,600.00	3,027.68	3,588.19	3,447.95	37.04	17.45	-162.00	524.47	367.25	1,308.52	1,274.87	33.65	38.882		
3,700.00	3,099.81	3,679.73	3,530.59	38.57	18.16	-161.66	553.30	394.08	1,348.10	1,313.12	34.99	38.532		
3,800.00	3,171.93	3,771.27	3,613.22	40.11	18.88	-161.33	582.13	420.91	1,387.73	1,351.40	36.33	38.198		
3,900.00	3,244.06	3,862.81	3,695.86	41.64	19.60	-161.03	610.96	447.74	1,427.39	1,389.70	37.68	37.879		
4,000.00	3,316.18	3,954.35	3,778.49	43.18	20.32	-160.74	639.79	474.57	1,467.08	1,428.03	39.05	37.574		
4,100.00	3,388.31	4,045.89	3,861.13	44.71	21.05	-160.47	668.62	501.40	1,506.80	1,466.39	40.42	37.283		
4,200.00	3,460.43	4,137.43	3,943.76	46.25	21.78	-160.21	697.45	528.23	1,546.55	1,504.76	41.79	37.005		
4,300.00	3,532.56	4,228.97	4,026.40	47.79	22.51	-159.96	726.28	555.07	1,586.33	1,543.15	43.18	36.740		
4,400.00	3,604.68	4,320.51	4,109.03	49.33	23.24	-159.73	755.10	581.90	1,626.12	1,581.56	44.57	36.486		
4,500.00	3,676.81	4,412.05	4,191.67	50.87	23.98	-159.50	783.93	608.73	1,665.94	1,619.98	45.96	36.244		
4,600.00	3,748.93	4,503.59	4,274.30	52.41	24.72	-159.29	812.76	635.56	1,705.78	1,658.42	47.37	36.012		
4,700.00	3,821.06	4,604.87	4,356.94	53.95	25.53	-159.09	841.59	662.39	1,745.64	1,696.81	48.84	35.745		
4,800.00	3,893.18	4,686.67	4,439.57	55.49	26.19	-158.89	870.42	689.22	1,785.52	1,735.34	50.19	35.578		
4,900.00	3,965.31	4,778.21	4,522.21	57.03	26.94	-158.71	899.25	716.05	1,825.42	1,773.81	51.60	35.375		
5,000.00	4,037.43	4,869.75	4,604.85	58.58	27.68	-158.53	928.08	742.88	1,865.32	1,812.30	53.02	35.180		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,961.29	4,687.48	60.12	28.42	-158.36	956.91	769.71	1,905.25	1,850.80	54.45	34.993		
5,200.00	4,181.68	5,052.83	4,770.12	61.66	29.17	-158.19	985.74	796.54	1,945.19	1,889.31	55.87	34.814		
5,300.00	4,253.81	5,144.37	4,852.75	63.20	29.91	-158.04	1,014.57	823.37	1,985.14	1,927.83	57.30	34.642		
5,400.00	4,325.93	5,235.91	4,935.39	64.75	30.66	-157.89	1,043.40	850.20	2,025.10	1,966.36	58.74	34.476		
5,500.00	4,398.06	5,327.45	5,018.02	66.29	31.41	-157.74	1,072.22	877.03	2,065.07	2,004.90	60.18	34.317		
5,600.00	4,470.18	5,418.99	5,100.66	67.84	32.15	-157.60	1,101.05	903.86	2,105.06	2,043.44	61.62	34.164		
5,700.00	4,542.31	5,510.53	5,183.29	69.38	32.90	-157.47	1,129.88	930.69	2,145.05	2,081.99	63.06	34.017		
5,800.00	4,614.43	5,602.07	5,265.93	70.92	33.65	-157.34	1,158.71	957.52	2,185.06	2,120.55	64.50	33.875		
5,900.00	4,686.56	5,706.39	5,348.56	72.47	34.51	-157.21	1,187.54	984.35	2,225.07	2,159.03	66.04	33.695		
6,000.00	4,758.68	5,785.15	5,431.20	74.01	35.15	-157.09	1,216.37	1,011.18	2,265.09	2,197.69	67.40	33.607		
6,100.00	4,830.81	5,876.69	5,513.83	75.56	35.90	-156.98	1,245.20	1,038.01	2,305.12	2,236.27	68.85	33.480		
6,200.00	4,902.93	5,968.23	5,596.47	77.10	36.65	-156.86	1,274.03	1,064.84	2,345.16	2,274.85	70.30	33.357		
6,300.00	4,975.06	6,059.77	5,679.10	78.65	37.41	-156.76	1,302.86	1,091.67	2,385.20	2,313.44	71.76	33.239		
6,400.00	5,047.18	6,151.31	5,761.74	80.19	38.16	-156.65	1,331.69	1,118.50	2,425.26	2,352.04	73.22	33.124		
6,500.00	5,119.31	6,242.85	5,844.37	81.74	38.91	-156.55	1,360.51	1,145.33	2,465.32	2,390.64	74.68	33.013		
6,600.00	5,191.43	6,334.39	5,927.01	83.28	39.66	-156.45	1,389.34	1,172.16	2,505.38	2,429.24	76.14	32.906		
6,700.00	5,263.56	6,425.93	6,009.64	84.83	40.42	-156.36	1,418.17	1,198.99	2,545.45	2,467.85	77.60	32.803		
6,800.00	5,335.68	6,517.47	6,092.28	86.37	41.17	-156.26	1,447.00	1,225.83	2,585.53	2,506.47	79.06	32.703		
6,900.00	5,407.81	6,609.01	6,174.91	87.92	41.92	-156.17	1,475.83	1,252.66	2,625.61	2,545.08	80.53	32.606		
7,000.00	5,479.93	6,700.55	6,257.55	89.47	42.68	-156.09	1,504.66	1,279.49	2,665.70	2,583.71	81.99	32.512		
7,100.00	5,552.06	6,807.92	6,340.18	91.01	43.56	-156.00	1,533.49	1,306.32	2,705.79	2,622.22	83.57	32.379		
7,200.00	5,624.18	6,883.63	6,422.82	92.56	44.19	-155.92	1,562.32	1,333.15	2,745.89	2,660.96	84.93	32.332		
7,300.00	5,696.31	6,975.16	6,505.45	94.10	44.94	-155.84	1,591.15	1,359.98	2,785.99	2,699.59	86.40	32.246		
7,400.00	5,768.43	7,066.70	6,588.09	95.65	45.70	-155.77	1,619.98	1,386.81	2,826.09	2,738.23	87.87	32.163		
7,500.00	5,840.56	7,158.24	6,670.72	97.20	46.46	-155.69	1,648.81	1,413.64	2,866.20	2,776.86	89.34	32.082		
7,600.00	5,912.68	7,249.78	6,753.36	98.74	47.21	-155.62	1,677.63	1,440.47	2,906.32	2,815.51	90.81	32.003		
7,700.00	5,984.81	7,341.32	6,835.99	100.29	47.97	-155.55	1,706.46	1,467.30	2,946.44	2,854.15	92.29	31.927		
7,800.00	6,056.93	7,432.86	6,918.63	101.84	48.72	-155.48	1,735.29	1,494.13	2,986.56	2,892.80	93.76	31.853		
7,900.00	6,129.06	7,524.40	7,001.26	103.38	49.48	-155.41	1,764.12	1,520.96	3,026.68	2,931.45	95.24	31.781		
8,000.00	6,201.18	7,615.94	7,083.90	104.93	50.24	-155.35	1,792.95	1,547.79	3,066.81	2,970.10	96.71	31.710		
8,100.00	6,273.31	7,716.33	7,174.66	106.48	51.06	-155.29	1,824.08	1,577.26	3,106.92	3,008.63	98.29	31.610		
8,200.00	6,345.43	7,858.45	7,307.92	108.02	52.01	-155.65	1,845.83	1,620.44	3,146.05	3,046.45	99.60	31.588		
8,300.00	6,417.56	7,986.21	7,428.83	109.57	52.49	-156.54	1,835.46	1,659.52	3,184.03	3,084.39	99.64	31.956		
8,400.00	6,489.68	8,091.58	7,524.94	111.12	52.66	-157.61	1,805.88	1,690.51	3,221.67	3,122.68	98.99	32.544		
8,500.00	6,561.81	8,174.69	7,596.14	112.66	52.65	-158.65	1,769.81	1,713.42	3,259.80	3,161.68	98.12	33.222		
8,600.00	6,633.93	8,239.38	7,647.69	114.21	52.57	-159.57	1,734.46	1,729.98	3,299.05	3,201.79	97.27	33.917		
8,700.00	6,706.06	8,289.97	7,685.16	115.76	52.46	-160.34	1,702.70	1,741.99	3,339.85	3,243.34	96.51	34.608		
8,800.00	6,778.18	8,330.03	7,712.86	117.30	52.35	-160.97	1,675.17	1,750.86	3,382.42	3,286.58	95.84	35.293		
8,900.00	6,850.31	8,362.25	7,733.77	118.85	52.25	-161.50	1,651.59	1,757.54	3,426.90	3,331.65	95.25	35.978		
9,000.00	6,922.43	8,388.57	7,749.89	120.40	52.16	-161.95	1,631.44	1,762.69	3,473.35	3,378.63	94.72	36.669		
9,100.00	6,994.56	8,410.38	7,762.58	121.95	52.08	-162.32	1,614.16	1,766.74	3,521.77	3,427.53	94.23	37.372		
9,200.00	7,066.68	8,428.71	7,772.75	123.49	52.00	-162.64	1,599.26	1,769.98	3,572.14	3,478.37	93.77	38.093		
9,300.00	7,138.81	8,450.00	7,783.98	125.04	51.92	-163.01	1,581.53	1,773.55	3,624.43	3,531.22	93.21	38.884		
9,392.50	7,205.52	8,450.00	7,783.98	126.47	51.92	-163.01	1,581.53	1,773.55	3,674.45	3,581.38	93.07	39.481		
9,400.00	7,210.94	8,450.00	7,783.98	126.59	51.92	-164.26	1,581.53	1,773.55	3,678.59	3,585.53	93.06	39.530		
9,450.00	7,247.42	8,464.91	7,791.48	127.35	51.85	-173.10	1,568.86	1,775.93	3,706.36	3,613.68	92.68	39.990		
9,500.00	7,284.35	8,473.37	7,795.59	128.10	51.81	177.92	1,561.58	1,777.24	3,734.47	3,642.00	92.48	40.383		
9,550.00	7,321.43	8,482.95	7,800.12	128.83	51.77	168.86	1,553.27	1,778.67	3,762.67	3,670.40	92.28	40.776		
9,600.00	7,358.38	8,500.00	7,807.85	129.52	51.70	159.83	1,538.27	1,781.12	3,790.73	3,698.78	91.95	41.227		
9,650.00	7,394.93	8,500.00	7,807.85	130.16	51.70	151.34	1,538.27	1,781.12	3,818.38	3,726.37	92.01	41.500		
9,700.00	7,430.79	8,517.21	7,815.23	130.76	51.61	143.10	1,522.90	1,783.46	3,845.42	3,753.68	91.73	41.920		
9,750.00	7,465.70	8,530.14	7,820.48	131.30	51.55	135.51	1,511.20	1,785.12	3,871.63	3,780.06	91.58	42.277		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,550.00	7,828.05	131.78	51.45	128.51	1,493.00	1,787.50	3,896.83	3,805.53	91.30	42.681		
9,850.00	7,531.58	8,550.00	7,828.05	132.21	51.45	122.36	1,493.00	1,787.50	3,920.80	3,829.31	91.49	42.853		
9,900.00	7,562.06	8,572.43	7,835.87	132.57	51.34	116.71	1,472.12	1,789.96	3,943.33	3,852.11	91.23	43.226		
9,950.00	7,590.58	8,600.00	7,844.41	132.87	51.20	111.72	1,446.05	1,792.64	3,964.37	3,873.50	90.87	43.626		
10,000.00	7,616.93	8,600.00	7,844.41	133.11	51.20	107.52	1,446.05	1,792.64	3,983.57	3,892.39	91.18	43.687		
10,050.00	7,640.90	8,618.65	7,849.51	133.29	51.09	103.81	1,428.18	1,794.22	4,000.96	3,909.85	91.11	43.912		
10,100.00	7,662.32	8,634.70	7,853.45	133.42	51.01	100.68	1,412.67	1,795.45	4,016.36	3,925.22	91.14	44.066		
10,150.00	7,681.01	8,650.00	7,856.82	133.50	50.93	98.07	1,397.78	1,796.49	4,029.67	3,938.43	91.24	44.167		
10,200.00	7,696.85	8,667.47	7,860.20	133.52	50.83	95.95	1,380.68	1,797.52	4,040.78	3,949.45	91.33	44.244		
10,250.00	7,709.70	8,684.11	7,862.97	133.51	50.73	94.30	1,364.28	1,798.36	4,049.64	3,958.15	91.49	44.265		
10,300.00	7,719.47	8,700.00	7,865.18	133.46	50.65	93.10	1,348.57	1,799.02	4,056.17	3,964.45	91.71	44.227		
10,350.00	7,726.09	8,717.72	7,867.16	133.37	50.55	92.32	1,330.97	1,799.60	4,060.33	3,968.38	91.94	44.161		
10,400.00	7,729.50	8,734.61	7,868.56	133.26	50.45	91.96	1,314.14	1,800.00	4,062.09	3,969.85	92.24	44.037		
10,427.79	7,730.00	8,750.00	7,869.43	133.18	50.36	91.94	1,298.78	1,800.23	4,062.05	3,969.78	92.27	44.022		
10,500.00	7,730.00	8,768.43	7,869.95	132.98	50.26	91.95	1,280.36	1,800.33	4,061.34	3,968.41	92.93	43.701		
10,520.72	7,730.00	8,778.62	7,870.00	132.93	50.20	91.95	1,274.90	1,800.33	4,061.30	3,968.20	93.10	43.623		
10,600.00	7,730.00	8,853.16	7,870.00	132.72	49.78	91.95	1,195.63	1,800.06	4,061.30	3,968.95	92.35	43.979		
10,700.00	7,730.00	8,953.16	7,870.00	132.47	49.25	91.95	1,095.63	1,799.72	4,061.30	3,969.83	91.47	44.399		
10,800.00	7,730.00	9,053.16	7,870.00	132.22	48.75	91.95	995.63	1,799.38	4,061.30	3,970.57	90.73	44.762		
10,900.00	7,730.00	9,153.16	7,870.00	131.99	48.28	91.95	895.63	1,799.04	4,061.30	3,971.18	90.12	45.064		
11,000.00	7,730.00	9,253.16	7,870.00	131.77	47.83	91.95	795.63	1,798.70	4,061.31	3,971.65	89.66	45.299		
11,100.00	7,730.00	9,353.16	7,870.00	131.56	47.41	91.95	695.63	1,798.36	4,061.31	3,971.98	89.33	45.465		
11,200.00	7,730.00	9,453.16	7,870.00	131.36	47.01	91.95	595.63	1,798.02	4,061.31	3,972.17	89.14	45.560		
11,300.00	7,730.00	9,553.16	7,870.00	131.17	46.64	91.95	495.63	1,797.68	4,061.31	3,972.21	89.10	45.582		
11,400.00	7,730.00	9,653.16	7,870.00	130.99	46.29	91.95	395.63	1,797.34	4,061.31	3,972.12	89.20	45.531		
11,500.00	7,730.00	9,753.16	7,870.00	130.82	45.97	91.95	295.63	1,797.00	4,061.32	3,971.88	89.44	45.408		
11,600.00	7,730.00	9,853.16	7,870.00	130.66	45.67	91.95	195.63	1,796.66	4,061.32	3,971.49	89.82	45.214		
11,700.00	7,730.00	9,953.16	7,870.00	130.51	45.39	91.95	95.63	1,796.32	4,061.32	3,970.97	90.35	44.953		
11,800.00	7,730.00	10,053.16	7,870.00	130.37	45.14	91.95	-4.37	1,795.98	4,061.32	3,970.32	91.00	44.628		
11,900.00	7,730.00	10,153.16	7,870.00	130.24	44.91	91.95	-104.36	1,795.64	4,061.32	3,969.53	91.79	44.244		
12,000.00	7,730.00	10,253.16	7,870.00	130.13	44.73	91.95	-204.36	1,795.30	4,061.33	3,968.61	92.71	43.805		
12,100.00	7,730.00	10,353.16	7,870.00	130.02	44.59	91.95	-304.36	1,794.96	4,061.33	3,967.57	93.76	43.317		
12,200.00	7,730.00	10,453.16	7,870.00	129.93	44.55	91.95	-404.36	1,794.62	4,061.33	3,966.41	94.92	42.785		
12,300.00	7,730.00	10,553.16	7,870.00	129.85	44.66	91.95	-504.36	1,794.28	4,061.33	3,965.13	96.20	42.216		
12,400.00	7,730.00	10,653.16	7,870.00	129.77	45.06	91.95	-604.36	1,793.94	4,061.33	3,963.74	97.60	41.614		
12,500.00	7,730.00	10,753.16	7,870.00	129.71	45.75	91.95	-704.36	1,793.60	4,061.33	3,962.24	99.09	40.984		
12,600.00	7,730.00	10,853.16	7,870.00	129.66	46.63	91.95	-804.36	1,793.26	4,061.34	3,960.64	100.69	40.333		
12,700.00	7,730.00	10,953.16	7,870.00	129.63	47.63	91.95	-904.36	1,792.92	4,061.34	3,958.95	102.39	39.665		
12,800.00	7,730.00	11,053.16	7,870.00	129.60	48.70	91.95	-1,004.36	1,792.58	4,061.34	3,957.16	104.18	38.984		
12,900.00	7,730.00	11,153.16	7,870.00	129.59	49.83	91.95	-1,104.36	1,792.24	4,061.34	3,955.29	106.05	38.295		
13,000.00	7,730.00	11,253.16	7,870.00	129.59	50.99	91.95	-1,204.36	1,791.90	4,061.34	3,953.33	108.01	37.601		
13,100.00	7,730.00	11,353.16	7,870.00	129.60	52.19	91.95	-1,304.36	1,791.56	4,061.35	3,951.30	110.05	36.906		
13,200.00	7,730.00	11,453.16	7,870.00	129.63	53.42	91.95	-1,404.36	1,791.22	4,061.35	3,949.19	112.15	36.212		
13,300.00	7,730.00	11,553.16	7,870.00	129.66	54.67	91.95	-1,504.36	1,790.88	4,061.35	3,947.02	114.33	35.523		
13,400.00	7,730.00	11,653.16	7,870.00	129.72	55.95	91.95	-1,604.36	1,790.54	4,061.35	3,944.78	116.58	34.839		
13,500.00	7,730.00	11,753.16	7,870.00	129.78	57.26	91.95	-1,704.36	1,790.20	4,061.35	3,942.47	118.88	34.163		
13,600.00	7,730.00	11,853.16	7,870.00	129.86	58.59	91.95	-1,804.35	1,789.86	4,061.36	3,940.11	121.24	33.497		
13,700.00	7,730.00	11,953.16	7,870.00	129.96	59.93	91.95	-1,904.35	1,789.52	4,061.36	3,937.70	123.66	32.842		
13,800.00	7,730.00	12,053.16	7,870.00	130.07	61.30	91.95	-2,004.35	1,789.18	4,061.36	3,935.23	126.13	32.199		
13,900.00	7,730.00	12,153.16	7,870.00	130.19	62.68	91.95	-2,104.35	1,788.84	4,061.36	3,932.71	128.65	31.569		
14,000.00	7,730.00	12,253.16	7,870.00	130.33	64.08	91.95	-2,204.35	1,788.50	4,061.36	3,930.15	131.22	30.951		
14,100.00	7,730.00	12,353.16	7,870.00	130.49	65.49	91.95	-2,304.35	1,788.16	4,061.37	3,927.54	133.83	30.348		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	12,453.16	7,870.00	130.67	66.92	91.95	-2,404.35	1,787.82	4,061.37	3,924.89	136.48	29.759		
14,300.00	7,730.00	12,553.16	7,870.00	130.86	68.36	91.95	-2,504.35	1,787.48	4,061.37	3,922.20	139.17	29.184		
14,400.00	7,730.00	12,653.16	7,870.00	131.07	69.82	91.95	-2,604.35	1,787.14	4,061.37	3,919.48	141.89	28.623		
14,500.00	7,730.00	12,753.16	7,870.00	131.30	71.29	91.95	-2,704.35	1,786.80	4,061.37	3,916.72	144.65	28.077		
14,600.00	7,730.00	12,853.16	7,870.00	131.55	72.77	91.95	-2,804.35	1,786.46	4,061.37	3,913.93	147.44	27.546		
14,700.00	7,730.00	12,953.16	7,870.00	131.82	74.26	91.95	-2,904.35	1,786.12	4,061.38	3,911.11	150.27	27.028		
14,800.00	7,730.00	13,053.16	7,870.00	132.11	75.76	91.95	-3,004.35	1,785.78	4,061.38	3,908.26	153.12	26.525		
14,900.00	7,730.00	13,153.16	7,870.00	132.42	77.28	91.95	-3,104.35	1,785.44	4,061.38	3,905.38	156.00	26.035		
15,000.00	7,730.00	13,253.16	7,870.00	132.75	78.80	91.95	-3,204.35	1,785.10	4,061.38	3,902.48	158.90	25.559		
15,100.00	7,730.00	13,353.16	7,870.00	133.10	80.33	91.95	-3,304.35	1,784.76	4,061.38	3,899.55	161.83	25.096		
15,200.00	7,730.00	13,453.16	7,870.00	133.48	81.87	91.95	-3,404.35	1,784.42	4,061.39	3,896.60	164.79	24.646		
15,300.00	7,730.00	13,553.16	7,870.00	133.88	83.41	91.95	-3,504.35	1,784.08	4,061.39	3,893.63	167.76	24.209		
15,400.00	7,730.00	13,653.16	7,870.00	134.31	84.97	91.95	-3,604.34	1,783.74	4,061.39	3,890.63	170.76	23.784		
15,500.00	7,730.00	13,753.16	7,870.00	134.76	86.53	91.95	-3,704.34	1,783.40	4,061.39	3,887.62	173.78	23.371		
15,600.00	7,730.00	13,853.16	7,870.00	135.23	88.10	91.95	-3,804.34	1,783.06	4,061.39	3,884.58	176.81	22.970		
15,700.00	7,730.00	13,953.16	7,870.00	135.73	89.67	91.95	-3,904.34	1,782.72	4,061.40	3,881.53	179.87	22.580		
15,800.00	7,730.00	14,053.16	7,870.00	136.26	91.25	91.95	-4,004.34	1,782.38	4,061.40	3,878.46	182.94	22.201		
15,900.00	7,730.00	14,153.16	7,870.00	136.81	92.84	91.95	-4,104.34	1,782.04	4,061.40	3,875.38	186.02	21.833		
16,000.00	7,730.00	14,253.16	7,870.00	137.39	94.44	91.95	-4,204.34	1,781.70	4,061.40	3,872.28	189.13	21.475		
16,100.00	7,730.00	14,353.16	7,870.00	138.00	96.04	91.95	-4,304.34	1,781.36	4,061.40	3,869.16	192.24	21.126		
16,200.00	7,730.00	14,453.16	7,870.00	138.63	97.64	91.95	-4,404.34	1,781.02	4,061.41	3,866.03	195.37	20.788		
16,300.00	7,730.00	14,553.16	7,870.00	139.30	99.25	91.95	-4,504.34	1,780.68	4,061.41	3,862.89	198.52	20.458		
16,400.00	7,730.00	14,653.16	7,870.00	139.99	100.86	91.95	-4,604.34	1,780.34	4,061.41	3,859.73	201.68	20.138		
16,500.00	7,730.00	14,753.16	7,870.00	140.70	102.48	91.95	-4,704.34	1,780.00	4,061.41	3,856.56	204.85	19.827		
16,600.00	7,730.00	14,853.16	7,870.00	141.45	104.11	91.95	-4,804.34	1,779.66	4,061.41	3,853.39	208.03	19.523		
16,700.00	7,730.00	14,953.16	7,870.00	142.22	105.73	91.95	-4,904.34	1,779.32	4,061.41	3,850.19	211.22	19.228		
16,800.00	7,730.00	15,053.16	7,870.00	143.03	107.36	91.95	-5,004.34	1,778.98	4,061.42	3,846.99	214.42	18.941		
16,900.00	7,730.00	15,153.16	7,870.00	143.86	109.00	91.95	-5,104.34	1,778.64	4,061.42	3,843.78	217.64	18.662		
17,000.00	7,730.00	15,253.16	7,870.00	144.71	110.64	91.95	-5,204.34	1,778.30	4,061.42	3,840.56	220.86	18.389		
17,100.00	7,730.00	15,353.16	7,870.00	145.60	112.28	91.95	-5,304.33	1,777.96	4,061.42	3,837.33	224.09	18.124		
17,200.00	7,730.00	15,453.16	7,870.00	146.51	113.93	91.95	-5,404.33	1,777.62	4,061.42	3,834.09	227.33	17.866		
17,300.00	7,730.00	15,553.16	7,870.00	147.44	115.58	91.95	-5,504.33	1,777.28	4,061.43	3,830.84	230.58	17.614		
17,400.00	7,730.00	15,653.16	7,870.00	148.40	117.23	91.95	-5,604.33	1,776.94	4,061.43	3,827.59	233.84	17.368		
17,500.00	7,730.00	15,753.16	7,870.00	149.39	118.88	91.95	-5,704.33	1,776.60	4,061.43	3,824.33	237.10	17.129		
17,600.00	7,730.00	15,853.16	7,870.00	150.40	120.54	91.95	-5,804.33	1,776.26	4,061.43	3,821.05	240.38	16.896		
17,700.00	7,730.00	15,953.16	7,870.00	151.44	122.20	91.95	-5,904.33	1,775.92	4,061.43	3,817.78	243.66	16.669		
17,800.00	7,730.00	16,053.16	7,870.00	152.50	123.87	91.95	-6,004.33	1,775.58	4,061.44	3,814.49	246.94	16.447		
17,900.00	7,730.00	16,153.16	7,870.00	153.58	125.54	91.95	-6,104.33	1,775.24	4,061.44	3,811.20	250.24	16.230		
18,000.00	7,730.00	16,253.16	7,870.00	154.68	127.20	91.95	-6,204.33	1,774.90	4,061.44	3,807.90	253.54	16.019		
18,100.00	7,730.00	16,353.16	7,870.00	155.80	128.88	91.95	-6,304.33	1,774.56	4,061.44	3,804.60	256.85	15.813		
18,200.00	7,730.00	16,453.16	7,870.00	156.95	130.55	91.95	-6,404.33	1,774.22	4,061.44	3,801.29	260.16	15.611		
18,300.00	7,730.00	16,553.16	7,870.00	158.11	132.23	91.95	-6,504.33	1,773.88	4,061.45	3,797.97	263.48	15.415		
18,400.00	7,730.00	16,653.16	7,870.00	159.30	133.90	91.95	-6,604.33	1,773.54	4,061.45	3,794.65	266.80	15.223		
18,500.00	7,730.00	16,753.16	7,870.00	160.50	135.58	91.95	-6,704.33	1,773.20	4,061.45	3,791.32	270.13	15.035		
18,600.00	7,730.00	16,853.16	7,870.00	161.72	137.27	91.95	-6,804.33	1,772.86	4,061.45	3,787.99	273.46	14.852		
18,700.00	7,730.00	16,953.16	7,870.00	162.96	138.95	91.95	-6,904.33	1,772.52	4,061.45	3,784.65	276.80	14.673		
18,800.00	7,730.00	17,053.16	7,870.00	164.21	140.64	91.95	-7,004.32	1,772.18	4,061.45	3,781.31	280.14	14.498		
18,900.00	7,730.00	17,153.16	7,870.00	165.48	142.33	91.95	-7,104.32	1,771.84	4,061.46	3,777.96	283.49	14.326		
19,000.00	7,730.00	17,253.16	7,870.00	166.76	144.02	91.95	-7,204.32	1,771.50	4,061.46	3,774.61	286.85	14.159		
19,100.00	7,730.00	17,353.16	7,870.00	168.06	145.71	91.95	-7,304.32	1,771.16	4,061.46	3,771.26	290.20	13.995		
19,200.00	7,730.00	17,453.16	7,870.00	169.38	147.40	91.95	-7,404.32	1,770.82	4,061.46	3,767.90	293.56	13.835		
19,300.00	7,730.00	17,553.16	7,870.00	170.70	149.10	91.95	-7,504.32	1,770.48	4,061.46	3,764.54	296.93	13.678		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	17,653.16	7,870.00	172.04	150.79	91.95	-7,604.32	1,770.14	4,061.47	3,761.17	300.30	13.525	
19,500.00	7,730.00	17,753.16	7,870.00	173.40	152.49	91.95	-7,704.32	1,769.80	4,061.47	3,757.80	303.67	13.375	
19,600.00	7,730.00	17,853.16	7,870.00	174.76	154.19	91.95	-7,804.32	1,769.46	4,061.47	3,754.42	307.05	13.228	
19,700.00	7,730.00	17,953.16	7,870.00	176.14	155.89	91.95	-7,904.32	1,769.12	4,061.47	3,751.05	310.43	13.084	
19,800.00	7,730.00	18,053.16	7,870.00	177.52	157.59	91.95	-8,004.32	1,768.78	4,061.47	3,747.67	313.81	12.943	
19,900.00	7,730.00	18,153.16	7,870.00	178.92	159.30	91.95	-8,104.32	1,768.44	4,061.48	3,744.28	317.19	12.804	
20,000.00	7,730.00	18,253.16	7,870.00	180.33	161.00	91.95	-8,204.32	1,768.10	4,061.48	3,740.89	320.58	12.669	
20,100.00	7,730.00	18,353.16	7,870.00	181.75	162.71	91.95	-8,304.32	1,767.76	4,061.48	3,737.50	323.98	12.536	
20,184.95	7,730.00	18,438.11	7,870.00	182.96	164.16	91.95	-8,389.27	1,767.47	4,061.48	3,734.62	326.86	12.426 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.62	0.73	-110.04	110.04					
100.00	100.00	102.00	102.00	0.13	0.14	-89.62	0.73	-110.04	110.04	109.77	0.28	398.674	CC, ES	
200.00	199.98	201.98	201.98	0.49	0.50	-160.37	0.73	-110.04	111.69	110.69	0.99	112.611		
300.00	299.84	301.84	301.84	0.86	0.86	-161.20	0.73	-110.04	116.63	114.91	1.71	68.008		
400.00	399.45	401.45	401.45	1.23	1.22	-162.44	0.73	-110.04	124.91	122.47	2.44	51.184		
500.00	498.70	500.70	500.70	1.63	1.57	-163.91	0.73	-110.04	136.59	133.42	3.17	43.116		
600.00	597.47	600.53	599.47	2.05	1.93	-165.47	0.73	-110.04	151.69	147.79	3.90	38.888		
700.00	695.62	702.38	697.62	2.51	2.29	-167.00	0.73	-110.04	170.24	165.60	4.64	36.657		
800.00	793.06	804.94	795.06	3.00	2.66	-168.42	0.73	-110.04	192.25	186.85	5.39	35.642		
900.00	889.64	908.36	891.64	3.53	3.03	-169.69	0.73	-110.04	217.69	211.54	6.15	35.396		
1,000.00	985.27	987.27	987.27	4.12	3.32	-170.81	0.73	-110.04	246.54	239.72	6.82	36.136		
1,100.00	1,079.82	1,081.82	1,081.82	4.75	3.65	-171.78	0.73	-110.04	278.76	271.20	7.55	36.899		
1,200.00	1,173.17	1,175.17	1,175.17	5.44	3.99	-172.61	0.73	-110.04	314.30	306.02	8.29	37.929		
1,300.00	1,265.21	1,275.28	1,275.27	6.18	4.35	-173.31	1.40	-109.32	352.36	343.30	9.05	38.917		
1,400.00	1,355.84	1,379.31	1,379.20	6.99	4.72	-173.67	4.55	-105.93	390.85	381.01	9.84	39.703		
1,500.00	1,444.94	1,484.69	1,484.22	7.87	5.09	-173.75	10.35	-99.68	429.61	418.96	10.65	40.346		
1,600.00	1,532.39	1,591.41	1,590.19	8.80	5.48	-173.60	18.90	-90.48	468.58	457.11	11.47	40.862		
1,700.00	1,618.11	1,699.51	1,696.98	9.81	5.89	-173.27	30.29	-78.21	507.73	495.42	12.30	41.262		
1,800.00	1,701.97	1,808.99	1,804.42	10.89	6.32	-172.80	44.61	-62.79	547.02	533.86	13.17	41.551		
1,900.00	1,783.88	1,919.88	1,912.32	12.04	6.78	-172.20	61.95	-44.11	586.45	572.40	14.05	41.738		
2,000.00	1,863.74	2,032.17	2,020.52	13.26	7.29	-171.49	82.40	-22.09	625.98	611.01	14.97	41.807		
2,100.00	1,941.45	2,145.90	2,128.80	14.55	7.84	-170.70	106.03	3.36	665.61	649.67	15.94	41.770		
2,200.00	2,016.92	2,261.06	2,236.96	15.92	8.45	-169.82	132.91	32.31	705.30	688.36	16.95	41.619		
2,292.11	2,084.36	2,368.41	2,336.28	17.25	9.08	-168.94	160.62	62.15	741.92	723.99	17.93	41.373		
2,300.00	2,090.06	2,377.67	2,344.78	17.36	9.14	-168.88	163.13	64.86	745.05	727.03	18.02	41.342		
2,400.00	2,162.18	2,496.64	2,452.82	18.84	9.90	-167.99	197.01	101.34	783.01	763.85	19.17	40.855		
2,500.00	2,234.31	2,609.39	2,553.28	20.33	10.70	-167.07	231.83	138.83	817.96	797.59	20.37	40.154		
2,600.00	2,306.43	2,702.78	2,636.04	21.83	11.39	-166.33	261.28	170.55	852.25	830.70	21.55	39.552		
2,700.00	2,378.56	2,803.84	2,718.79	23.33	12.16	-165.65	290.73	202.27	886.65	863.85	22.80	38.889		
2,800.00	2,450.68	2,889.55	2,801.54	24.84	12.83	-165.02	320.19	233.99	921.15	897.16	24.00	38.386		
2,900.00	2,522.81	2,982.94	2,884.29	26.36	13.57	-164.43	349.64	265.71	955.75	930.48	25.26	37.831		
3,000.00	2,594.93	3,076.33	2,967.05	27.88	14.33	-163.89	379.09	297.43	990.43	963.87	26.55	37.298		
3,100.00	2,667.06	3,169.72	3,049.80	29.40	15.09	-163.38	408.55	329.15	1,025.18	997.31	27.87	36.789		
3,200.00	2,739.18	3,263.11	3,132.55	30.92	15.86	-162.91	438.00	360.87	1,060.00	1,030.80	29.20	36.304		
3,300.00	2,811.31	3,356.50	3,215.30	32.45	16.64	-162.46	467.45	392.59	1,094.88	1,064.33	30.55	35.841		
3,400.00	2,883.43	3,449.89	3,298.06	33.98	17.42	-162.05	496.91	424.30	1,129.81	1,097.90	31.91	35.402		
3,500.00	2,955.56	3,543.28	3,380.81	35.51	18.21	-161.65	526.36	456.02	1,164.79	1,131.50	33.29	34.985		
3,600.00	3,027.68	3,636.67	3,463.56	37.04	19.00	-161.28	555.81	487.74	1,199.82	1,165.13	34.69	34.589		
3,700.00	3,099.81	3,730.06	3,546.32	38.57	19.80	-160.93	585.27	519.46	1,234.89	1,198.80	36.09	34.213		
3,800.00	3,171.93	3,823.45	3,629.07	40.11	20.60	-160.60	614.72	551.18	1,270.00	1,232.49	37.51	33.856		
3,900.00	3,244.06	3,916.84	3,711.82	41.64	21.41	-160.29	644.17	582.90	1,305.15	1,266.21	38.94	33.518		
4,000.00	3,316.18	4,010.23	3,794.57	43.18	22.22	-160.00	673.63	614.62	1,340.32	1,299.95	40.38	33.196		
4,100.00	3,388.31	4,103.62	3,877.33	44.71	23.03	-159.72	703.08	646.34	1,375.53	1,333.71	41.82	32.891		
4,200.00	3,460.43	4,202.99	3,960.08	46.25	23.89	-159.45	732.53	678.06	1,410.76	1,367.45	43.31	32.571		
4,300.00	3,532.56	4,309.60	4,042.83	47.79	24.82	-159.20	761.98	709.78	1,446.02	1,401.16	44.86	32.232		
4,400.00	3,604.68	4,383.79	4,125.58	49.33	25.47	-158.95	791.44	741.49	1,481.30	1,435.10	46.20	32.061		
4,500.00	3,676.81	4,477.17	4,208.34	50.87	26.29	-158.72	820.89	773.21	1,516.61	1,468.93	47.68	31.810		
4,600.00	3,748.93	4,570.56	4,291.09	52.41	27.11	-158.50	850.34	804.93	1,551.93	1,502.78	49.16	31.572		
4,700.00	3,821.06	4,663.95	4,373.84	53.95	27.93	-158.29	879.80	836.65	1,587.28	1,536.64	50.64	31.344		
4,800.00	3,893.18	4,757.34	4,456.59	55.49	28.76	-158.09	909.25	868.37	1,622.64	1,570.51	52.13	31.126		
4,900.00	3,965.31	4,850.73	4,539.35	57.03	29.58	-157.90	938.70	900.09	1,658.02	1,604.40	53.63	30.919		
5,000.00	4,037.43	4,944.12	4,622.10	58.58	30.41	-157.71	968.16	931.81	1,693.42	1,638.29	55.12	30.720		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,037.51	4,704.85	60.12	31.23	-157.54	997.61	963.53	1,728.83	1,672.20	56.63	30.530		
5,200.00	4,181.68	5,130.90	4,787.60	61.66	32.06	-157.37	1,027.06	995.25	1,764.25	1,706.12	58.13	30.348		
5,300.00	4,253.81	5,224.29	4,870.36	63.20	32.89	-157.20	1,056.52	1,026.97	1,799.69	1,740.05	59.64	30.174		
5,400.00	4,325.93	5,317.68	4,953.11	64.75	33.72	-157.05	1,085.97	1,058.68	1,835.14	1,773.98	61.16	30.007		
5,500.00	4,398.06	5,411.07	5,035.86	66.29	34.55	-156.90	1,115.42	1,090.40	1,870.60	1,807.93	62.67	29.846		
5,600.00	4,470.18	5,504.46	5,118.62	67.84	35.38	-156.75	1,144.88	1,122.12	1,906.07	1,841.88	64.19	29.692		
5,700.00	4,542.31	5,597.85	5,201.37	69.38	36.21	-156.61	1,174.33	1,153.84	1,941.55	1,875.84	65.72	29.544		
5,800.00	4,614.43	5,708.76	5,284.12	70.92	37.19	-156.47	1,203.78	1,185.56	1,977.05	1,909.68	67.36	29.349		
5,900.00	4,686.56	5,784.63	5,366.87	72.47	37.87	-156.34	1,233.24	1,217.28	2,012.55	1,943.78	68.77	29.265		
6,000.00	4,758.68	5,878.02	5,449.63	74.01	38.70	-156.22	1,262.69	1,249.00	2,048.06	1,977.76	70.30	29.133		
6,100.00	4,830.81	5,971.41	5,532.38	75.56	39.54	-156.10	1,292.14	1,280.72	2,083.58	2,011.75	71.83	29.006		
6,200.00	4,902.93	6,064.80	5,615.13	77.10	40.37	-155.98	1,321.60	1,312.44	2,119.10	2,045.74	73.37	28.884		
6,300.00	4,975.06	6,158.19	5,697.88	78.65	41.20	-155.87	1,351.05	1,344.16	2,154.64	2,079.74	74.90	28.766		
6,400.00	5,047.18	6,251.57	5,780.64	80.19	42.04	-155.76	1,380.50	1,375.88	2,190.18	2,113.74	76.44	28.652		
6,500.00	5,119.31	6,344.96	5,863.39	81.74	42.87	-155.65	1,409.96	1,407.59	2,225.73	2,147.75	77.98	28.542		
6,600.00	5,191.43	6,438.35	5,946.14	83.28	43.71	-155.55	1,439.41	1,439.31	2,261.28	2,181.76	79.52	28.436		
6,700.00	5,263.56	6,531.74	6,028.89	84.83	44.54	-155.45	1,468.86	1,471.03	2,296.84	2,215.78	81.07	28.333		
6,800.00	5,335.68	6,625.13	6,111.65	86.37	45.38	-155.35	1,498.32	1,502.75	2,332.41	2,249.80	82.61	28.234		
6,900.00	5,407.81	6,718.52	6,194.40	87.92	46.21	-155.26	1,527.77	1,534.47	2,367.98	2,283.83	84.16	28.138		
7,000.00	5,479.93	6,811.91	6,277.15	89.47	47.05	-155.16	1,557.22	1,566.19	2,403.56	2,317.86	85.70	28.045		
7,100.00	5,552.06	6,905.30	6,359.90	91.01	47.89	-155.08	1,586.68	1,597.91	2,439.15	2,351.89	87.25	27.955		
7,200.00	5,624.18	7,001.31	6,442.66	92.56	48.75	-154.99	1,616.13	1,629.63	2,474.73	2,385.91	88.82	27.862		
7,300.00	5,696.31	7,092.08	6,525.41	94.10	49.56	-154.91	1,645.58	1,661.35	2,510.33	2,419.97	90.36	27.783		
7,400.00	5,768.43	7,185.47	6,608.16	95.65	50.40	-154.82	1,675.04	1,693.07	2,545.92	2,454.02	91.91	27.701		
7,500.00	5,840.56	7,278.86	6,690.92	97.20	51.24	-154.75	1,704.49	1,724.78	2,581.53	2,488.06	93.46	27.621		
7,600.00	5,912.68	7,372.25	6,773.67	98.74	52.07	-154.67	1,733.94	1,756.50	2,617.13	2,522.11	95.02	27.544		
7,700.00	5,984.81	7,465.64	6,856.42	100.29	52.91	-154.59	1,763.40	1,788.22	2,652.74	2,556.17	96.57	27.469		
7,800.00	6,056.93	7,559.03	6,939.17	101.84	53.75	-154.52	1,792.85	1,819.94	2,688.35	2,590.23	98.13	27.396		
7,900.00	6,129.06	7,652.42	7,021.93	103.38	54.59	-154.45	1,822.30	1,851.66	2,723.97	2,624.28	99.69	27.325		
8,000.00	6,201.18	7,745.81	7,104.75	104.93	55.43	-154.38	1,852.39	1,910.08	2,758.39	2,657.09	101.29	27.232		
8,100.00	6,273.31	7,839.20	7,187.56	106.48	56.27	-154.31	1,882.88	1,963.52	2,793.97	2,689.66	102.84	27.144		
8,200.00	6,345.43	7,932.59	7,270.37	108.02	57.11	-154.24	1,913.37	2,004.06	2,829.55	2,721.22	99.80	28.277		
8,300.00	6,417.56	8,025.98	7,353.18	109.57	57.95	-154.17	1,943.86	2,034.61	2,865.13	2,756.80	98.48	28.982		
8,400.00	6,489.68	8,119.37	7,435.99	111.12	58.79	-154.10	1,974.35	2,065.16	2,899.71	2,791.38	97.16	29.687		
8,500.00	6,561.81	8,212.76	7,518.80	112.66	59.63	-160.80	1,682.02	2,062.70	2,922.86	2,826.48	96.38	30.325		
8,600.00	6,633.93	8,306.15	7,599.84	114.21	60.47	-161.51	1,653.78	2,071.90	2,960.48	2,864.88	95.60	30.968		
8,700.00	6,706.06	8,399.54	7,681.05	115.76	61.31	-162.08	1,630.37	2,078.65	3,000.49	2,905.57	94.93	31.609		
8,800.00	6,778.18	8,492.93	7,762.26	117.30	62.15	-162.55	1,610.85	2,083.75	3,042.93	2,948.60	94.33	32.260		
8,900.00	6,850.31	8,586.32	7,843.47	118.85	62.99	-162.80	1,600.32	2,086.32	3,087.80	2,993.86	93.94	32.869		
9,000.00	6,922.43	8,679.71	7,924.68	120.40	63.83	-163.27	1,580.49	2,090.83	3,135.01	3,041.78	93.23	33.625		
9,100.00	6,994.56	8,773.10	8,005.89	121.95	64.67	-163.54	1,568.54	2,093.35	3,184.55	3,091.84	92.71	34.349		
9,200.00	7,066.68	8,866.49	8,087.10	123.49	65.51	-163.79	1,557.70	2,095.52	3,236.31	3,144.14	92.18	35.109		
9,300.00	7,138.81	8,959.88	8,168.31	125.04	66.35	-163.79	1,557.70	2,095.52	3,290.26	3,198.36	91.90	35.802		
9,392.50	7,205.52	9,053.27	8,249.52	126.47	67.19	-164.16	1,541.81	2,098.50	3,341.93	3,250.74	91.18	36.650		
9,400.00	7,210.94	9,058.68	8,255.00	126.59	67.25	-165.45	1,541.23	2,098.61	3,346.20	3,255.05	91.14	36.713		
9,450.00	7,247.42	9,104.16	8,290.48	127.35	68.09	-174.29	1,536.66	2,099.42	3,374.92	3,284.03	90.89	37.133		
9,500.00	7,284.35	9,149.64	8,325.96	128.10	68.93	176.59	1,530.94	2,100.41	3,403.94	3,313.29	90.65	37.552		
9,550.00	7,321.43	9,195.12	8,361.44	128.83	69.77	167.18	1,512.98	2,103.35	3,433.06	3,342.93	90.13	38.091		
9,600.00	7,358.38	9,240.60	8,396.92	129.52	70.61	158.27	1,512.98	2,103.35	3,461.88	3,371.76	90.12	38.414		
9,650.00	7,394.93	9,286.08	8,432.40	130.16	71.45	149.68	1,512.98	2,103.35	3,490.33	3,400.17	90.15	38.715		
9,700.00	7,430.79	9,331.56	8,467.88	130.76	72.29	141.34	1,498.38	2,105.54	3,518.10	3,428.25	89.85	39.155		
9,750.00	7,465.70	9,377.04	8,503.36	131.30	73.13	133.67	1,488.22	2,106.97	3,545.01	3,455.30	89.71	39.518		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,550.00	7,700.59	131.78	55.64	126.55	1,466.48	2,109.75	3,570.90	3,481.59	89.31	39.985		
9,850.00	7,531.58	8,550.00	7,700.59	132.21	55.64	120.37	1,466.48	2,109.75	3,595.39	3,505.88	89.51	40.166		
9,900.00	7,562.06	8,550.00	7,700.59	132.57	55.64	114.86	1,466.48	2,109.75	3,618.57	3,528.79	89.78	40.307		
9,950.00	7,590.58	8,576.34	7,708.09	132.87	55.51	109.82	1,441.38	2,112.53	3,639.96	3,550.53	89.43	40.702		
10,000.00	7,616.93	8,600.00	7,713.91	133.11	55.39	105.46	1,418.55	2,114.68	3,659.69	3,570.51	89.19	41.033		
10,050.00	7,640.90	8,600.00	7,713.91	133.29	55.39	101.84	1,418.55	2,114.68	3,677.43	3,587.82	89.61	41.037		
10,100.00	7,662.32	8,617.79	7,717.71	133.42	55.30	98.69	1,401.23	2,116.07	3,693.15	3,603.52	89.63	41.205		
10,150.00	7,681.01	8,632.16	7,720.40	133.50	55.23	96.09	1,387.15	2,117.05	3,706.73	3,616.94	89.79	41.281		
10,200.00	7,696.85	8,650.00	7,723.29	133.52	55.14	93.97	1,369.58	2,118.10	3,718.08	3,628.16	89.92	41.350		
10,250.00	7,709.70	8,650.00	7,723.29	133.51	55.14	92.34	1,369.58	2,118.10	3,727.15	3,636.56	90.59	41.141		
10,300.00	7,719.47	8,676.31	7,726.61	133.46	54.99	91.12	1,343.50	2,119.28	3,733.74	3,643.14	90.60	41.211		
10,350.00	7,726.09	8,700.00	7,728.64	133.37	54.87	90.34	1,319.91	2,119.97	3,738.00	3,647.27	90.73	41.199		
10,400.00	7,729.50	8,700.00	7,728.64	133.26	54.87	89.98	1,319.91	2,119.97	3,739.76	3,648.16	91.60	40.827		
10,427.79	7,730.00	8,714.54	7,729.44	133.18	54.79	89.96	1,305.40	2,120.23	3,739.67	3,647.98	91.69	40.788		
10,500.00	7,730.00	8,740.83	7,730.00	132.98	54.65	89.97	1,279.12	2,120.35	3,738.98	3,646.72	92.26	40.524		
10,513.37	7,730.00	8,742.94	7,730.00	132.95	54.64	89.97	1,281.22	2,120.36	3,738.95	3,646.39	92.56	40.394		
10,600.00	7,730.00	8,825.36	7,730.00	132.72	54.20	89.97	1,194.59	2,120.06	3,738.95	3,647.27	91.69	40.780		
10,700.00	7,730.00	8,925.36	7,730.00	132.47	53.69	89.97	1,094.59	2,119.72	3,738.96	3,648.19	90.76	41.194		
10,800.00	7,730.00	9,025.36	7,730.00	132.22	53.21	89.97	994.59	2,119.38	3,738.96	3,648.99	89.97	41.556		
10,900.00	7,730.00	9,125.36	7,730.00	131.99	52.76	89.97	894.59	2,119.04	3,738.96	3,649.65	89.32	41.861		
11,000.00	7,730.00	9,225.36	7,730.00	131.77	52.33	89.97	794.59	2,118.70	3,738.97	3,650.16	88.80	42.105		
11,100.00	7,730.00	9,325.36	7,730.00	131.56	51.93	89.97	694.59	2,118.36	3,738.97	3,650.54	88.43	42.283		
11,200.00	7,730.00	9,425.36	7,730.00	131.36	51.55	89.97	594.59	2,118.01	3,738.97	3,650.78	88.19	42.395		
11,300.00	7,730.00	9,525.36	7,730.00	131.17	51.20	89.97	494.60	2,117.67	3,738.98	3,650.87	88.10	42.438		
11,400.00	7,730.00	9,625.36	7,730.00	130.99	50.87	89.97	394.60	2,117.33	3,738.98	3,650.82	88.16	42.411		
11,500.00	7,730.00	9,725.36	7,730.00	130.82	50.56	89.97	294.60	2,116.99	3,738.98	3,650.62	88.36	42.316		
11,600.00	7,730.00	9,825.36	7,730.00	130.66	50.28	89.97	194.60	2,116.65	3,738.99	3,650.29	88.70	42.153		
11,700.00	7,730.00	9,925.36	7,730.00	130.51	50.03	89.97	94.60	2,116.31	3,738.99	3,649.81	89.18	41.925		
11,800.00	7,730.00	10,025.36	7,730.00	130.37	49.80	89.97	-5.40	2,115.97	3,738.99	3,649.19	89.80	41.636		
11,900.00	7,730.00	10,125.36	7,730.00	130.24	49.60	89.97	-105.40	2,115.62	3,739.00	3,648.44	90.56	41.288		
12,000.00	7,730.00	10,225.36	7,730.00	130.13	49.44	89.97	-205.40	2,115.28	3,739.00	3,647.55	91.44	40.888		
12,100.00	7,730.00	10,325.36	7,730.00	130.02	49.32	89.97	-305.40	2,114.94	3,739.00	3,646.54	92.46	40.440		
12,200.00	7,730.00	10,425.36	7,730.00	129.93	49.26	89.97	-405.40	2,114.60	3,739.01	3,645.41	93.60	39.949		
12,300.00	7,730.00	10,525.36	7,730.00	129.85	49.26	89.97	-505.40	2,114.26	3,739.01	3,644.16	94.85	39.419		
12,400.00	7,730.00	10,625.36	7,730.00	129.77	49.36	89.97	-605.40	2,113.92	3,739.01	3,642.79	96.22	38.859		
12,500.00	7,730.00	10,725.36	7,730.00	129.71	49.57	89.97	-705.40	2,113.58	3,739.02	3,641.32	97.70	38.271		
12,600.00	7,730.00	10,825.36	7,730.00	129.66	49.93	89.97	-805.40	2,113.23	3,739.02	3,639.74	99.28	37.662		
12,700.00	7,730.00	10,925.36	7,730.00	129.63	50.46	89.97	-905.40	2,112.89	3,739.02	3,638.06	100.96	37.035		
12,800.00	7,730.00	11,025.36	7,730.00	129.60	51.14	89.97	-1,005.40	2,112.55	3,739.03	3,636.29	102.73	36.396		
12,900.00	7,730.00	11,125.36	7,730.00	129.59	51.97	89.97	-1,105.40	2,112.21	3,739.03	3,634.43	104.59	35.748		
13,000.00	7,730.00	11,225.36	7,730.00	129.59	52.91	89.97	-1,205.39	2,111.87	3,739.03	3,632.49	106.54	35.095		
13,100.00	7,730.00	11,325.36	7,730.00	129.60	53.94	89.97	-1,305.39	2,111.53	3,739.04	3,630.47	108.57	34.440		
13,200.00	7,730.00	11,425.36	7,730.00	129.63	55.03	89.97	-1,405.39	2,111.19	3,739.04	3,628.37	110.67	33.787		
13,300.00	7,730.00	11,525.36	7,730.00	129.66	56.18	89.97	-1,505.39	2,110.84	3,739.04	3,626.20	112.84	33.136		
13,400.00	7,730.00	11,625.36	7,730.00	129.72	57.38	89.97	-1,605.39	2,110.50	3,739.05	3,623.97	115.08	32.492		
13,500.00	7,730.00	11,725.36	7,730.00	129.78	58.61	89.97	-1,705.39	2,110.16	3,739.05	3,621.67	117.38	31.855		
13,600.00	7,730.00	11,825.36	7,730.00	129.86	59.88	89.97	-1,805.39	2,109.82	3,739.05	3,619.31	119.74	31.227		
13,700.00	7,730.00	11,925.36	7,730.00	129.96	61.17	89.97	-1,905.39	2,109.48	3,739.06	3,616.90	122.15	30.609		
13,800.00	7,730.00	12,025.36	7,730.00	130.07	62.49	89.97	-2,005.39	2,109.14	3,739.06	3,614.43	124.62	30.003		
13,900.00	7,730.00	12,125.36	7,730.00	130.19	63.83	89.97	-2,105.39	2,108.80	3,739.06	3,611.92	127.14	29.408		
14,000.00	7,730.00	12,225.36	7,730.00	130.33	65.20	89.97	-2,205.39	2,108.45	3,739.07	3,609.36	129.71	28.826		
14,100.00	7,730.00	12,325.36	7,730.00	130.49	66.58	89.97	-2,305.39	2,108.11	3,739.07	3,606.75	132.32	28.258		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	12,425.36	7,730.00	130.67	67.97	89.97	-2,405.39	2,107.77	3,739.07	3,604.10	134.97	27.703		
14,300.00	7,730.00	12,525.36	7,730.00	130.86	69.39	89.97	-2,505.39	2,107.43	3,739.07	3,601.41	137.66	27.161		
14,400.00	7,730.00	12,625.36	7,730.00	131.07	70.82	89.97	-2,605.39	2,107.09	3,739.08	3,598.69	140.39	26.633		
14,500.00	7,730.00	12,725.36	7,730.00	131.30	72.26	89.97	-2,705.39	2,106.75	3,739.08	3,595.93	143.15	26.119		
14,600.00	7,730.00	12,825.36	7,730.00	131.55	73.72	89.97	-2,805.39	2,106.41	3,739.08	3,593.14	145.95	25.619		
14,700.00	7,730.00	12,925.36	7,730.00	131.82	75.19	89.97	-2,905.38	2,106.07	3,739.09	3,590.31	148.78	25.132		
14,800.00	7,730.00	13,025.36	7,730.00	132.11	76.67	89.97	-3,005.38	2,105.72	3,739.09	3,587.46	151.63	24.659		
14,900.00	7,730.00	13,125.36	7,730.00	132.42	78.16	89.97	-3,105.38	2,105.38	3,739.09	3,584.58	154.52	24.199		
15,000.00	7,730.00	13,225.36	7,730.00	132.75	79.66	89.97	-3,205.38	2,105.04	3,739.10	3,581.67	157.43	23.751		
15,100.00	7,730.00	13,325.36	7,730.00	133.10	81.17	89.97	-3,305.38	2,104.70	3,739.10	3,578.74	160.36	23.317		
15,200.00	7,730.00	13,425.36	7,730.00	133.48	82.70	89.97	-3,405.38	2,104.36	3,739.10	3,575.78	163.32	22.894		
15,300.00	7,730.00	13,525.36	7,730.00	133.88	84.23	89.97	-3,505.38	2,104.02	3,739.11	3,572.81	166.30	22.484		
15,400.00	7,730.00	13,625.36	7,730.00	134.31	85.76	89.97	-3,605.38	2,103.68	3,739.11	3,569.81	169.30	22.085		
15,500.00	7,730.00	13,725.36	7,730.00	134.76	87.31	89.97	-3,705.38	2,103.33	3,739.11	3,566.79	172.32	21.698		
15,600.00	7,730.00	13,825.36	7,730.00	135.23	88.86	89.97	-3,805.38	2,102.99	3,739.12	3,563.75	175.37	21.322		
15,700.00	7,730.00	13,925.36	7,730.00	135.73	90.42	89.97	-3,905.38	2,102.65	3,739.12	3,560.70	178.43	20.956		
15,800.00	7,730.00	14,025.36	7,730.00	136.26	91.99	89.97	-4,005.38	2,102.31	3,739.12	3,557.62	181.50	20.601		
15,900.00	7,730.00	14,125.36	7,730.00	136.81	93.56	89.97	-4,105.38	2,101.97	3,739.13	3,554.53	184.59	20.256		
16,000.00	7,730.00	14,225.36	7,730.00	137.39	95.14	89.97	-4,205.38	2,101.63	3,739.13	3,551.43	187.70	19.921		
16,100.00	7,730.00	14,325.36	7,730.00	138.00	96.73	89.97	-4,305.38	2,101.29	3,739.13	3,548.31	190.82	19.595		
16,200.00	7,730.00	14,425.36	7,730.00	138.63	98.32	89.97	-4,405.38	2,100.94	3,739.14	3,545.18	193.96	19.278		
16,300.00	7,730.00	14,525.36	7,730.00	139.30	99.92	89.97	-4,505.38	2,100.60	3,739.14	3,542.03	197.11	18.970		
16,400.00	7,730.00	14,625.36	7,730.00	139.99	101.52	89.97	-4,605.37	2,100.26	3,739.14	3,538.87	200.27	18.670		
16,500.00	7,730.00	14,725.36	7,730.00	140.70	103.12	89.97	-4,705.37	2,099.92	3,739.15	3,535.70	203.45	18.379		
16,600.00	7,730.00	14,825.36	7,730.00	141.45	104.74	89.97	-4,805.37	2,099.58	3,739.15	3,532.51	206.64	18.095		
16,700.00	7,730.00	14,925.36	7,730.00	142.22	106.35	89.97	-4,905.37	2,099.24	3,739.15	3,529.32	209.83	17.820		
16,800.00	7,730.00	15,025.36	7,730.00	143.03	107.97	89.97	-5,005.37	2,098.90	3,739.16	3,526.11	213.04	17.551		
16,900.00	7,730.00	15,125.36	7,730.00	143.86	109.60	89.97	-5,105.37	2,098.55	3,739.16	3,522.90	216.26	17.290		
17,000.00	7,730.00	15,225.36	7,730.00	144.71	111.22	89.97	-5,205.37	2,098.21	3,739.16	3,519.67	219.49	17.036		
17,100.00	7,730.00	15,325.36	7,730.00	145.60	112.86	89.97	-5,305.37	2,097.87	3,739.17	3,516.44	222.73	16.788		
17,200.00	7,730.00	15,425.36	7,730.00	146.51	114.49	89.97	-5,405.37	2,097.53	3,739.17	3,513.20	225.97	16.547		
17,300.00	7,730.00	15,525.36	7,730.00	147.44	116.13	89.97	-5,505.37	2,097.19	3,739.17	3,509.95	229.23	16.312		
17,400.00	7,730.00	15,625.36	7,730.00	148.40	117.77	89.97	-5,605.37	2,096.85	3,739.18	3,506.69	232.49	16.083		
17,500.00	7,730.00	15,725.36	7,730.00	149.39	119.42	89.97	-5,705.37	2,096.51	3,739.18	3,503.42	235.76	15.860		
17,600.00	7,730.00	15,825.36	7,730.00	150.40	121.07	89.97	-5,805.37	2,096.17	3,739.18	3,500.14	239.04	15.643		
17,700.00	7,730.00	15,925.36	7,730.00	151.44	122.72	89.97	-5,905.37	2,095.82	3,739.19	3,496.86	242.32	15.431		
17,800.00	7,730.00	16,025.36	7,730.00	152.50	124.38	89.97	-6,005.37	2,095.48	3,739.19	3,493.57	245.62	15.224		
17,900.00	7,730.00	16,125.36	7,730.00	153.58	126.03	89.97	-6,105.37	2,095.14	3,739.19	3,490.28	248.91	15.022		
18,000.00	7,730.00	16,225.36	7,730.00	154.68	127.69	89.97	-6,205.37	2,094.80	3,739.20	3,486.98	252.22	14.825		
18,100.00	7,730.00	16,325.36	7,730.00	155.80	129.36	89.97	-6,305.36	2,094.46	3,739.20	3,483.67	255.53	14.633		
18,200.00	7,730.00	16,425.36	7,730.00	156.95	131.02	89.97	-6,405.36	2,094.12	3,739.20	3,480.35	258.85	14.446		
18,300.00	7,730.00	16,525.36	7,730.00	158.11	132.69	89.97	-6,505.36	2,093.78	3,739.21	3,477.03	262.17	14.262		
18,400.00	7,730.00	16,625.36	7,730.00	159.30	134.36	89.97	-6,605.36	2,093.43	3,739.21	3,473.71	265.50	14.084		
18,500.00	7,730.00	16,725.36	7,730.00	160.50	136.03	89.97	-6,705.36	2,093.09	3,739.21	3,470.38	268.83	13.909		
18,600.00	7,730.00	16,825.36	7,730.00	161.72	137.71	89.97	-6,805.36	2,092.75	3,739.22	3,467.04	272.17	13.738		
18,700.00	7,730.00	16,925.36	7,730.00	162.96	139.39	89.97	-6,905.36	2,092.41	3,739.22	3,463.70	275.52	13.572		
18,800.00	7,730.00	17,025.36	7,730.00	164.21	141.06	89.97	-7,005.36	2,092.07	3,739.22	3,460.36	278.86	13.409		
18,900.00	7,730.00	17,125.36	7,730.00	165.48	142.75	89.97	-7,105.36	2,091.73	3,739.23	3,457.01	282.22	13.250		
19,000.00	7,730.00	17,225.36	7,730.00	166.76	144.43	89.97	-7,205.36	2,091.39	3,739.23	3,453.66	285.57	13.094		
19,100.00	7,730.00	17,325.36	7,730.00	168.06	146.11	89.97	-7,305.36	2,091.04	3,739.23	3,450.30	288.93	12.941		
19,200.00	7,730.00	17,425.36	7,730.00	169.38	147.80	89.97	-7,405.36	2,090.70	3,739.24	3,446.94	292.30	12.792		
19,300.00	7,730.00	17,525.36	7,730.00	170.70	149.49	89.97	-7,505.36	2,090.36	3,739.24	3,443.57	295.67	12.647		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	17,625.36	7,730.00	172.04	151.18	89.97	-7,605.36	2,090.02	3,739.24	3,440.20	299.04	12.504	
19,500.00	7,730.00	17,725.36	7,730.00	173.40	152.87	89.97	-7,705.36	2,089.68	3,739.25	3,436.83	302.42	12.364	
19,600.00	7,730.00	17,825.36	7,730.00	174.76	154.56	89.97	-7,805.36	2,089.34	3,739.25	3,433.45	305.80	12.228	
19,700.00	7,730.00	17,925.36	7,730.00	176.14	156.26	89.97	-7,905.36	2,089.00	3,739.25	3,430.07	309.18	12.094	
19,800.00	7,730.00	18,025.36	7,730.00	177.52	157.95	89.97	-8,005.36	2,088.65	3,739.26	3,426.69	312.57	11.963	
19,900.00	7,730.00	18,125.36	7,730.00	178.92	159.65	89.97	-8,105.35	2,088.31	3,739.26	3,423.30	315.96	11.835	
20,000.00	7,730.00	18,225.36	7,730.00	180.33	161.35	89.97	-8,205.35	2,087.97	3,739.26	3,419.91	319.35	11.709	
20,100.00	7,730.00	18,325.36	7,730.00	181.75	163.05	89.97	-8,305.35	2,087.63	3,739.27	3,416.51	322.75	11.586	
20,184.95	7,730.00	18,410.31	7,730.00	182.96	164.49	89.97	-8,390.31	2,087.34	3,739.27	3,413.63	325.64	11.483 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.58	0.73	-99.96	99.96					
100.00	100.00	102.00	102.00	0.13	0.14	-89.58	0.73	-99.96	99.96	99.69	0.28	362.156	CC, ES	
200.00	199.98	201.98	201.98	0.49	0.50	-160.36	0.73	-99.96	101.61	100.61	0.99	102.448		
300.00	299.84	301.84	301.84	0.86	0.86	-161.27	0.73	-99.96	106.55	104.83	1.71	62.131		
400.00	399.45	401.45	401.45	1.23	1.22	-162.62	0.73	-99.96	114.84	112.40	2.44	47.057		
500.00	498.70	500.70	500.70	1.63	1.57	-164.20	0.73	-99.96	126.53	123.36	3.17	39.942		
600.00	597.47	600.53	599.47	2.05	1.93	-165.85	0.73	-99.96	141.65	137.75	3.90	36.316		
700.00	695.62	702.38	697.62	2.51	2.29	-167.44	0.73	-99.96	160.24	155.59	4.64	34.506		
800.00	793.06	804.94	795.06	3.00	2.66	-168.89	0.73	-99.96	182.28	176.88	5.39	33.798		
900.00	889.64	908.36	891.64	3.53	3.03	-170.17	0.73	-99.96	207.76	201.61	6.15	33.786		
1,000.00	985.27	987.27	987.27	4.12	3.32	-171.29	0.73	-99.96	236.64	229.82	6.82	34.692		
1,100.00	1,079.82	1,081.82	1,081.82	4.75	3.65	-172.25	0.73	-99.96	268.90	261.35	7.55	35.600		
1,200.00	1,173.17	1,183.10	1,183.09	5.44	4.01	-173.03	1.49	-99.02	303.50	295.18	8.32	36.489		
1,300.00	1,265.21	1,287.31	1,287.17	6.18	4.38	-173.45	4.58	-95.20	338.39	329.29	9.10	37.193		
1,400.00	1,355.84	1,392.80	1,392.29	6.99	4.76	-173.58	10.12	-88.33	373.44	363.55	9.89	37.753		
1,500.00	1,444.94	1,499.59	1,498.29	7.87	5.15	-173.49	18.21	-78.32	408.61	397.91	10.70	38.187		
1,600.00	1,532.39	1,607.70	1,605.05	8.80	5.56	-173.22	28.92	-65.06	443.85	432.32	11.53	38.508		
1,700.00	1,618.11	1,717.15	1,712.39	9.81	6.00	-172.81	42.34	-48.45	479.13	466.76	12.37	38.727		
1,800.00	1,701.97	1,827.95	1,820.15	10.89	6.47	-172.28	58.54	-28.40	514.43	501.19	13.24	38.845		
1,900.00	1,783.88	1,940.13	1,928.14	12.04	6.98	-171.65	77.59	-4.82	549.72	535.58	14.14	38.865		
2,000.00	1,863.74	2,053.69	2,036.17	13.26	7.55	-170.93	99.56	22.39	584.97	569.89	15.08	38.787		
2,100.00	1,941.45	2,168.64	2,144.03	14.55	8.18	-170.13	124.53	53.30	620.18	604.11	16.06	38.608		
2,200.00	2,016.92	2,284.99	2,251.49	15.92	8.88	-169.26	152.55	87.98	655.30	638.21	17.10	38.325		
2,292.11	2,084.36	2,393.41	2,349.92	17.25	9.59	-168.41	181.11	123.34	687.58	669.47	18.11	37.967		
2,300.00	2,090.06	2,402.77	2,358.33	17.36	9.66	-168.35	183.68	126.52	690.33	672.13	18.20	37.928		
2,400.00	2,162.18	2,522.72	2,464.96	18.84	10.54	-167.47	218.20	169.25	723.38	704.00	19.38	37.325		
2,500.00	2,234.31	2,633.00	2,561.02	20.33	11.41	-166.59	252.22	211.37	753.38	732.77	20.61	36.546		
2,600.00	2,306.43	2,728.07	2,643.50	21.83	12.20	-165.86	281.94	248.16	782.94	761.10	21.85	35.837		
2,700.00	2,378.56	2,823.14	2,725.97	23.33	13.01	-165.19	311.66	284.95	812.61	789.50	23.11	35.155		
2,800.00	2,450.68	2,918.22	2,808.44	24.84	13.83	-164.56	341.38	321.74	842.38	817.96	24.41	34.505		
2,900.00	2,522.81	3,013.29	2,890.92	26.36	14.67	-163.98	371.11	358.54	872.23	846.49	25.74	33.886		
3,000.00	2,594.93	3,108.36	2,973.39	27.88	15.52	-163.43	400.83	395.33	902.15	875.06	27.09	33.299		
3,100.00	2,667.06	3,203.43	3,055.86	29.40	16.37	-162.92	430.55	432.12	932.15	903.68	28.47	32.744		
3,200.00	2,739.18	3,301.49	3,138.33	30.92	17.27	-162.44	460.27	468.91	962.21	932.33	29.88	32.200		
3,300.00	2,811.31	3,406.42	3,220.81	32.45	18.23	-161.99	489.99	505.71	992.33	960.97	31.36	31.643		
3,400.00	2,883.43	3,488.65	3,303.28	33.98	18.99	-161.56	519.71	542.50	1,022.51	989.80	32.71	31.258		
3,500.00	2,955.56	3,583.72	3,385.75	35.51	19.87	-161.16	549.43	579.29	1,052.73	1,018.57	34.16	30.818		
3,600.00	3,027.68	3,678.80	3,468.22	37.04	20.76	-160.79	579.15	616.08	1,082.99	1,047.37	35.62	30.402		
3,700.00	3,099.81	3,773.87	3,550.70	38.57	21.65	-160.43	608.88	652.88	1,113.30	1,076.20	37.10	30.010		
3,800.00	3,171.93	3,868.94	3,633.17	40.11	22.55	-160.09	638.60	689.67	1,143.64	1,105.06	38.59	29.639		
3,900.00	3,244.06	3,964.01	3,715.64	41.64	23.44	-159.77	668.32	726.46	1,174.02	1,133.94	40.08	29.289		
4,000.00	3,316.18	4,059.09	3,798.11	43.18	24.34	-159.47	698.04	763.25	1,204.43	1,162.84	41.59	28.958		
4,100.00	3,388.31	4,154.16	3,880.59	44.71	25.25	-159.18	727.76	800.05	1,234.87	1,191.76	43.11	28.645		
4,200.00	3,460.43	4,249.23	3,963.06	46.25	26.15	-158.90	757.48	836.84	1,265.34	1,220.70	44.64	28.348		
4,300.00	3,532.56	4,344.30	4,045.53	47.79	27.06	-158.64	787.20	873.63	1,295.83	1,249.66	46.17	28.066		
4,400.00	3,604.68	4,439.38	4,128.01	49.33	27.97	-158.39	816.93	910.42	1,326.34	1,278.63	47.71	27.799		
4,500.00	3,676.81	4,534.45	4,210.48	50.87	28.88	-158.15	846.65	947.22	1,356.88	1,307.62	49.26	27.545		
4,600.00	3,748.93	4,629.52	4,292.95	52.41	29.79	-157.92	876.37	984.01	1,387.44	1,336.63	50.81	27.304		
4,700.00	3,821.06	4,724.59	4,375.42	53.95	30.70	-157.70	906.09	1,020.80	1,418.02	1,365.64	52.37	27.074		
4,800.00	3,893.18	4,819.67	4,457.90	55.49	31.61	-157.49	935.81	1,057.59	1,448.61	1,394.67	53.94	26.856		
4,900.00	3,965.31	4,914.74	4,540.37	57.03	32.53	-157.29	965.53	1,094.39	1,479.23	1,423.71	55.51	26.647		
5,000.00	4,037.43	5,009.81	4,622.84	58.58	33.44	-157.09	995.25	1,131.18	1,509.86	1,452.77	57.09	26.448		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,104.88	4,705.31	60.12	34.36	-156.91	1,024.97	1,167.97	1,540.50	1,481.83	58.67	26.258		
5,200.00	4,181.68	5,200.04	4,787.79	61.66	35.28	-156.73	1,054.70	1,204.76	1,571.16	1,510.90	60.25	26.076		
5,300.00	4,253.81	5,304.97	4,870.26	63.20	36.29	-156.56	1,084.42	1,241.56	1,601.83	1,539.92	61.91	25.873		
5,400.00	4,325.93	5,390.10	4,952.73	64.75	37.12	-156.39	1,114.14	1,278.35	1,632.51	1,569.08	63.43	25.737		
5,500.00	4,398.06	5,485.17	5,035.20	66.29	38.04	-156.23	1,143.86	1,315.14	1,663.21	1,598.18	65.03	25.577		
5,600.00	4,470.18	5,580.25	5,117.68	67.84	38.96	-156.08	1,173.58	1,351.93	1,693.91	1,627.29	66.63	25.424		
5,700.00	4,542.31	5,675.32	5,200.15	69.38	39.88	-155.93	1,203.30	1,388.73	1,724.63	1,656.40	68.23	25.278		
5,800.00	4,614.43	5,770.39	5,282.62	70.92	40.80	-155.79	1,233.02	1,425.52	1,755.36	1,685.53	69.83	25.137		
5,900.00	4,686.56	5,865.46	5,365.10	72.47	41.72	-155.65	1,262.74	1,462.31	1,786.10	1,714.66	71.44	25.002		
6,000.00	4,758.68	5,960.54	5,447.57	74.01	42.64	-155.52	1,292.47	1,499.10	1,816.84	1,743.79	73.05	24.872		
6,100.00	4,830.81	6,055.61	5,530.04	75.56	43.57	-155.39	1,322.19	1,535.90	1,847.60	1,772.94	74.66	24.746		
6,200.00	4,902.93	6,150.68	5,612.51	77.10	44.49	-155.27	1,351.91	1,572.69	1,878.36	1,802.08	76.28	24.626		
6,300.00	4,975.06	6,245.75	5,694.99	78.65	45.42	-155.14	1,381.63	1,609.48	1,909.13	1,831.24	77.89	24.510		
6,400.00	5,047.18	6,340.83	5,777.46	80.19	46.34	-155.03	1,411.35	1,646.27	1,939.91	1,860.40	79.51	24.398		
6,500.00	5,119.31	6,435.90	5,859.93	81.74	47.26	-154.91	1,441.07	1,683.07	1,970.69	1,889.56	81.13	24.290		
6,600.00	5,191.43	6,530.97	5,942.40	83.28	48.19	-154.81	1,470.79	1,719.86	2,001.49	1,918.73	82.76	24.186		
6,700.00	5,263.56	6,626.04	6,024.88	84.83	49.11	-154.70	1,500.52	1,756.65	2,032.28	1,947.90	84.38	24.085		
6,800.00	5,335.68	6,721.12	6,107.35	86.37	50.04	-154.60	1,530.24	1,793.44	2,063.09	1,977.08	86.01	23.988		
6,900.00	5,407.81	6,816.19	6,189.82	87.92	50.97	-154.50	1,559.96	1,830.24	2,093.90	2,006.27	87.63	23.894		
7,000.00	5,479.93	6,911.26	6,272.29	89.47	51.89	-154.40	1,589.68	1,867.03	2,124.72	2,035.45	89.26	23.803		
7,100.00	5,552.06	7,006.33	6,354.77	91.01	52.82	-154.30	1,619.40	1,903.82	2,155.54	2,064.64	90.89	23.715		
7,200.00	5,624.18	7,101.41	6,437.24	92.56	53.74	-154.21	1,649.12	1,940.61	2,186.36	2,093.84	92.53	23.629		
7,300.00	5,696.31	7,203.52	6,519.71	94.10	54.74	-154.12	1,678.84	1,977.41	2,217.19	2,122.98	94.21	23.534		
7,400.00	5,768.43	7,291.55	6,602.19	95.65	55.60	-154.04	1,708.56	2,014.20	2,248.03	2,152.24	95.80	23.467		
7,500.00	5,840.56	7,386.62	6,684.66	97.20	56.53	-153.95	1,738.29	2,050.99	2,278.87	2,181.44	97.43	23.389		
7,600.00	5,912.68	7,481.70	6,767.13	98.74	57.45	-153.87	1,768.01	2,087.78	2,309.72	2,210.65	99.07	23.314		
7,700.00	5,984.81	7,576.77	6,849.60	100.29	58.38	-153.79	1,797.73	2,124.58	2,340.57	2,239.86	100.71	23.241		
7,800.00	6,056.93	7,671.84	6,932.08	101.84	59.31	-153.71	1,827.45	2,161.37	2,371.42	2,269.07	102.35	23.170		
7,900.00	6,129.06	7,762.25	7,014.55	103.38	60.24	-153.63	1,857.17	2,192.16	2,402.26	2,298.18	103.98	23.098		
8,000.00	6,201.18	7,852.25	7,093.55	104.93	61.17	-153.55	1,886.89	2,222.95	2,433.00	2,327.29	105.60	23.026		
8,100.00	6,273.31	7,942.25	7,173.02	106.48	62.10	-153.47	1,916.61	2,253.74	2,463.74	2,357.01	107.21	22.954		
8,200.00	6,345.43	8,032.25	7,253.50	108.02	63.03	-153.39	1,946.33	2,284.53	2,494.48	2,387.74	108.82	22.882		
8,300.00	6,417.56	8,122.25	7,334.00	109.57	63.96	-153.31	1,976.05	2,315.32	2,525.22	2,418.46	110.43	22.810		
8,400.00	6,489.68	8,212.25	7,414.50	111.12	64.89	-153.23	2,005.77	2,346.11	2,555.96	2,448.20	112.04	22.738		
8,500.00	6,561.81	8,302.25	7,495.00	112.66	65.82	-153.15	2,035.49	2,376.90	2,586.69	2,478.93	113.65	22.666		
8,600.00	6,633.93	8,392.25	7,575.50	114.21	66.75	-153.07	2,065.21	2,407.69	2,617.42	2,509.65	115.26	22.594		
8,700.00	6,706.06	8,482.25	7,656.00	115.76	67.68	-152.99	2,094.93	2,438.48	2,648.15	2,540.38	116.87	22.522		
8,800.00	6,778.18	8,572.25	7,736.50	117.30	68.61	-152.91	2,124.65	2,469.27	2,678.88	2,571.11	118.48	22.450		
8,900.00	6,850.31	8,662.25	7,817.00	118.85	69.54	-152.83	2,154.37	2,500.06	2,709.59	2,601.84	120.09	22.378		
9,000.00	6,922.43	8,752.25	7,897.50	120.40	70.47	-152.75	2,184.09	2,530.85	2,740.30	2,632.57	121.70	22.306		
9,100.00	6,994.56	8,842.25	7,978.00	121.95	71.40	-152.67	2,213.81	2,561.64	2,771.01	2,663.30	123.31	22.234		
9,200.00	7,066.68	8,932.25	8,058.50	123.49	72.33	-152.59	2,243.53	2,592.43	2,801.72	2,694.03	124.92	22.162		
9,300.00	7,138.81	9,022.25	8,139.00	125.04	73.26	-152.51	2,273.25	2,623.22	2,832.43	2,724.74	126.53	22.090		
9,392.50	7,205.52	9,112.25	8,219.50	126.58	74.19	-152.43	2,302.97	2,654.01	2,863.14	2,755.45	128.14	22.018		
9,400.00	7,210.94	9,117.67	8,224.92	126.59	74.20	-152.43	2,303.00	2,654.04	2,863.17	2,755.48	128.15	22.018		
9,450.00	7,247.42	9,154.15	8,261.40	127.35	74.40	-152.40	2,313.81	2,664.85	2,873.96	2,766.27	128.99	22.000		
9,500.00	7,284.35	9,190.67	8,297.92	128.10	74.60	-152.37	2,324.62	2,675.66	2,884.75	2,777.06	129.83	21.982		
9,550.00	7,321.43	9,227.19	8,334.44	128.83	74.80	-152.34	2,335.43	2,686.47	2,895.54	2,787.86	130.67	21.964		
9,600.00	7,358.38	9,263.71	8,370.96	129.52	75.00	-152.31	2,346.24	2,697.28	2,906.33	2,798.67	131.51	21.946		
9,650.00	7,394.93	9,300.23	8,407.48	130.16	75.20	-152.28	2,357.05	2,708.09	2,917.12	2,809.48	132.35	21.928		
9,700.00	7,430.79	9,336.75	8,443.99	130.76	75.40	-152.25	2,367.86	2,718.90	2,927.91	2,820.29	133.19	21.910		
9,750.00	7,465.70	9,373.27	8,480.51	131.30	75.60	-152.22	2,378.67	2,729.71	2,938.72	2,831.10	134.03	21.892		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,580.30	7,602.62	131.78	61.16	124.97	1,469.00	2,458.49	3,220.29	3,132.31	87.98	36.601		
9,850.00	7,531.58	8,600.00	7,608.07	132.21	61.07	118.55	1,450.22	2,460.85	3,245.28	3,157.60	87.69	37.011		
9,900.00	7,562.06	8,600.00	7,608.07	132.57	61.07	113.05	1,450.22	2,460.85	3,268.71	3,180.72	87.98	37.151		
9,950.00	7,590.58	8,600.00	7,608.07	132.87	61.07	108.20	1,450.22	2,460.85	3,290.61	3,202.26	88.36	37.242		
10,000.00	7,616.93	8,627.85	7,614.76	133.11	60.94	103.79	1,423.34	2,463.74	3,310.47	3,222.46	88.01	37.615		
10,050.00	7,640.90	8,650.00	7,619.23	133.29	60.84	100.04	1,401.73	2,465.65	3,328.53	3,240.65	87.87	37.878		
10,100.00	7,662.32	8,650.00	7,619.23	133.42	60.84	96.99	1,401.73	2,465.65	3,344.43	3,255.97	88.46	37.808		
10,150.00	7,681.01	8,667.26	7,622.18	133.50	60.76	94.37	1,384.77	2,466.91	3,358.18	3,269.57	88.60	37.901		
10,200.00	7,696.85	8,680.85	7,624.17	133.52	60.69	92.27	1,371.35	2,467.75	3,369.66	3,280.73	88.93	37.891		
10,250.00	7,709.70	8,700.00	7,626.48	133.51	60.60	90.62	1,352.37	2,468.71	3,378.80	3,289.65	89.15	37.901		
10,300.00	7,719.47	8,700.00	7,626.48	133.46	60.60	89.44	1,352.37	2,468.71	3,385.54	3,295.49	90.05	37.595		
10,350.00	7,726.09	8,722.43	7,628.46	133.37	60.49	88.66	1,330.04	2,469.52	3,389.77	3,299.46	90.31	37.536		
10,400.00	7,729.50	8,750.00	7,629.78	133.26	60.35	88.29	1,302.51	2,470.01	3,391.66	3,301.21	90.45	37.500		
10,427.79	7,730.00	8,750.00	7,629.78	133.18	60.35	88.27	1,302.51	2,470.01	3,391.49	3,300.43	91.06	37.245		
10,500.00	7,730.00	8,766.45	7,630.00	132.98	60.27	88.28	1,286.07	2,470.06	3,390.81	3,298.67	92.15	36.798		
10,536.24	7,730.00	8,804.48	7,630.00	132.89	60.08	88.28	1,257.00	2,469.96	3,390.81	3,298.86	91.94	36.880		
10,600.00	7,730.00	8,859.27	7,630.00	132.72	59.81	88.28	1,193.24	2,469.74	3,390.80	3,299.49	91.31	37.134		
10,700.00	7,730.00	8,959.27	7,630.00	132.47	59.33	88.28	1,093.24	2,469.41	3,390.80	3,300.45	90.35	37.530		
10,800.00	7,730.00	9,059.27	7,630.00	132.22	58.89	88.28	993.25	2,469.07	3,390.80	3,301.28	89.52	37.879		
10,900.00	7,730.00	9,159.27	7,630.00	131.99	58.46	88.28	893.25	2,468.73	3,390.80	3,301.98	88.82	38.176		
11,000.00	7,730.00	9,259.27	7,630.00	131.77	58.06	88.28	793.25	2,468.40	3,390.80	3,302.54	88.26	38.418		
11,100.00	7,730.00	9,359.27	7,630.00	131.56	57.68	88.28	693.25	2,468.06	3,390.80	3,302.96	87.84	38.601		
11,200.00	7,730.00	9,459.27	7,630.00	131.36	57.33	88.28	593.25	2,467.72	3,390.80	3,303.23	87.57	38.722		
11,300.00	7,730.00	9,559.27	7,630.00	131.17	57.00	88.28	493.25	2,467.38	3,390.80	3,303.36	87.43	38.781		
11,400.00	7,730.00	9,659.27	7,630.00	130.99	56.69	88.28	393.25	2,467.05	3,390.79	3,303.35	87.45	38.775		
11,500.00	7,730.00	9,759.27	7,630.00	130.82	56.41	88.28	293.25	2,466.71	3,390.79	3,303.19	87.61	38.705		
11,600.00	7,730.00	9,859.27	7,630.00	130.66	56.15	88.28	193.25	2,466.37	3,390.79	3,302.89	87.91	38.573		
11,700.00	7,730.00	9,959.27	7,630.00	130.51	55.91	88.28	93.25	2,466.04	3,390.79	3,302.44	88.35	38.380		
11,800.00	7,730.00	10,059.27	7,630.00	130.37	55.70	88.28	-6.75	2,465.70	3,390.79	3,301.86	88.93	38.128		
11,900.00	7,730.00	10,159.27	7,630.00	130.24	55.52	88.28	-106.75	2,465.36	3,390.79	3,301.14	89.65	37.823		
12,000.00	7,730.00	10,259.27	7,630.00	130.13	55.37	88.28	-206.75	2,465.03	3,390.79	3,300.29	90.50	37.467		
12,100.00	7,730.00	10,359.27	7,630.00	130.02	55.25	88.28	-306.75	2,464.69	3,390.79	3,299.30	91.48	37.065		
12,200.00	7,730.00	10,459.27	7,630.00	129.93	55.17	88.28	-406.75	2,464.35	3,390.78	3,298.20	92.59	36.622		
12,300.00	7,730.00	10,559.27	7,630.00	129.85	55.14	88.28	-506.75	2,464.02	3,390.78	3,296.97	93.81	36.144		
12,400.00	7,730.00	10,659.27	7,630.00	129.77	55.15	88.28	-606.75	2,463.68	3,390.78	3,295.62	95.16	35.633		
12,500.00	7,730.00	10,759.27	7,630.00	129.71	55.23	88.28	-706.75	2,463.34	3,390.78	3,294.17	96.61	35.098		
12,600.00	7,730.00	10,859.27	7,630.00	129.66	55.38	88.28	-806.74	2,463.01	3,390.78	3,292.61	98.17	34.541		
12,700.00	7,730.00	10,959.27	7,630.00	129.63	55.61	88.28	-906.74	2,462.67	3,390.78	3,290.95	99.82	33.967		
12,800.00	7,730.00	11,059.27	7,630.00	129.60	55.94	88.28	-1,006.74	2,462.33	3,390.78	3,289.20	101.58	33.381		
12,900.00	7,730.00	11,159.27	7,630.00	129.59	56.38	88.28	-1,106.74	2,461.99	3,390.78	3,287.35	103.42	32.786		
13,000.00	7,730.00	11,259.27	7,630.00	129.59	56.94	88.28	-1,206.74	2,461.66	3,390.77	3,285.42	105.35	32.186		
13,100.00	7,730.00	11,359.27	7,630.00	129.60	57.60	88.28	-1,306.74	2,461.32	3,390.77	3,283.41	107.36	31.583		
13,200.00	7,730.00	11,459.27	7,630.00	129.63	58.37	88.28	-1,406.74	2,460.98	3,390.77	3,281.32	109.45	30.981		
13,300.00	7,730.00	11,559.27	7,630.00	129.66	59.24	88.28	-1,506.74	2,460.65	3,390.77	3,279.16	111.61	30.381		
13,400.00	7,730.00	11,659.27	7,630.00	129.72	60.20	88.28	-1,606.74	2,460.31	3,390.77	3,276.93	113.83	29.787		
13,500.00	7,730.00	11,759.27	7,630.00	129.78	61.23	88.28	-1,706.74	2,459.97	3,390.77	3,274.64	116.13	29.199		
13,600.00	7,730.00	11,859.27	7,630.00	129.86	62.32	88.28	-1,806.74	2,459.64	3,390.77	3,272.29	118.48	28.619		
13,700.00	7,730.00	11,959.27	7,630.00	129.96	63.47	88.28	-1,906.74	2,459.30	3,390.77	3,269.88	120.89	28.049		
13,800.00	7,730.00	12,059.27	7,630.00	130.07	64.66	88.28	-2,006.74	2,458.96	3,390.76	3,267.41	123.35	27.489		
13,900.00	7,730.00	12,159.27	7,630.00	130.19	65.89	88.28	-2,106.74	2,458.63	3,390.76	3,264.90	125.86	26.940		
14,000.00	7,730.00	12,259.27	7,630.00	130.33	67.16	88.28	-2,206.74	2,458.29	3,390.76	3,262.34	128.42	26.403		
14,100.00	7,730.00	12,359.27	7,630.00	130.49	68.46	88.28	-2,306.74	2,457.95	3,390.76	3,259.73	131.03	25.878		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	12,459.27	7,630.00	130.67	69.78	88.28	-2,406.74	2,457.62	3,390.76	3,257.08	133.68	25.365		
14,300.00	7,730.00	12,559.27	7,630.00	130.86	71.13	88.28	-2,506.74	2,457.28	3,390.76	3,254.39	136.36	24.865		
14,400.00	7,730.00	12,659.27	7,630.00	131.07	72.50	88.28	-2,606.73	2,456.94	3,390.76	3,251.67	139.09	24.378		
14,500.00	7,730.00	12,759.27	7,630.00	131.30	73.88	88.28	-2,706.73	2,456.61	3,390.76	3,248.91	141.85	23.904		
14,600.00	7,730.00	12,859.27	7,630.00	131.55	75.29	88.28	-2,806.73	2,456.27	3,390.75	3,246.11	144.64	23.442		
14,700.00	7,730.00	12,959.27	7,630.00	131.82	76.71	88.28	-2,906.73	2,455.93	3,390.75	3,243.29	147.47	22.993		
14,800.00	7,730.00	13,059.27	7,630.00	132.11	78.15	88.28	-3,006.73	2,455.59	3,390.75	3,240.43	150.32	22.556		
14,900.00	7,730.00	13,159.27	7,630.00	132.42	79.60	88.28	-3,106.73	2,455.26	3,390.75	3,237.54	153.21	22.132		
15,000.00	7,730.00	13,259.27	7,630.00	132.75	81.06	88.28	-3,206.73	2,454.92	3,390.75	3,234.63	156.11	21.720		
15,100.00	7,730.00	13,359.27	7,630.00	133.10	82.54	88.28	-3,306.73	2,454.58	3,390.75	3,231.70	159.05	21.319		
15,200.00	7,730.00	13,459.27	7,630.00	133.48	84.03	88.28	-3,406.73	2,454.25	3,390.75	3,228.74	162.01	20.930		
15,300.00	7,730.00	13,559.27	7,630.00	133.88	85.52	88.28	-3,506.73	2,453.91	3,390.75	3,225.76	164.99	20.551		
15,400.00	7,730.00	13,659.27	7,630.00	134.31	87.03	88.28	-3,606.73	2,453.57	3,390.74	3,222.75	167.99	20.184		
15,500.00	7,730.00	13,759.27	7,630.00	134.76	88.55	88.28	-3,706.73	2,453.24	3,390.74	3,219.73	171.01	19.828		
15,600.00	7,730.00	13,859.27	7,630.00	135.23	90.08	88.28	-3,806.73	2,452.90	3,390.74	3,216.69	174.05	19.481		
15,700.00	7,730.00	13,959.27	7,630.00	135.73	91.61	88.28	-3,906.73	2,452.56	3,390.74	3,213.63	177.11	19.145		
15,800.00	7,730.00	14,059.27	7,630.00	136.26	93.15	88.28	-4,006.73	2,452.23	3,390.74	3,210.55	180.19	18.818		
15,900.00	7,730.00	14,159.27	7,630.00	136.81	94.70	88.28	-4,106.73	2,451.89	3,390.74	3,207.46	183.28	18.500		
16,000.00	7,730.00	14,259.27	7,630.00	137.39	96.26	88.28	-4,206.73	2,451.55	3,390.74	3,204.35	186.39	18.192		
16,100.00	7,730.00	14,359.27	7,630.00	138.00	97.82	88.28	-4,306.72	2,451.22	3,390.74	3,201.22	189.51	17.892		
16,200.00	7,730.00	14,459.27	7,630.00	138.63	99.39	88.28	-4,406.72	2,450.88	3,390.73	3,198.08	192.65	17.600		
16,300.00	7,730.00	14,559.27	7,630.00	139.30	100.97	88.28	-4,506.72	2,450.54	3,390.73	3,194.93	195.80	17.317		
16,400.00	7,730.00	14,659.27	7,630.00	139.99	102.55	88.28	-4,606.72	2,450.21	3,390.73	3,191.77	198.97	17.042		
16,500.00	7,730.00	14,759.27	7,630.00	140.70	104.14	88.28	-4,706.72	2,449.87	3,390.73	3,188.59	202.14	16.774		
16,600.00	7,730.00	14,859.27	7,630.00	141.45	105.73	88.28	-4,806.72	2,449.53	3,390.73	3,185.40	205.33	16.514		
16,700.00	7,730.00	14,959.27	7,630.00	142.22	107.33	88.28	-4,906.72	2,449.19	3,390.73	3,182.20	208.53	16.260		
16,800.00	7,730.00	15,059.27	7,630.00	143.03	108.93	88.28	-5,006.72	2,448.86	3,390.73	3,178.99	211.74	16.014		
16,900.00	7,730.00	15,159.27	7,630.00	143.86	110.54	88.28	-5,106.72	2,448.52	3,390.73	3,175.77	214.95	15.774		
17,000.00	7,730.00	15,259.27	7,630.00	144.71	112.15	88.28	-5,206.72	2,448.18	3,390.72	3,172.54	218.18	15.541		
17,100.00	7,730.00	15,359.27	7,630.00	145.60	113.77	88.28	-5,306.72	2,447.85	3,390.72	3,169.30	221.42	15.313		
17,200.00	7,730.00	15,459.27	7,630.00	146.51	115.39	88.28	-5,406.72	2,447.51	3,390.72	3,166.05	224.67	15.092		
17,300.00	7,730.00	15,559.27	7,630.00	147.44	117.01	88.28	-5,506.72	2,447.17	3,390.72	3,162.80	227.92	14.877		
17,400.00	7,730.00	15,659.27	7,630.00	148.40	118.64	88.28	-5,606.72	2,446.84	3,390.72	3,159.53	231.19	14.667		
17,500.00	7,730.00	15,759.27	7,630.00	149.39	120.27	88.28	-5,706.72	2,446.50	3,390.72	3,156.26	234.46	14.462		
17,600.00	7,730.00	15,859.27	7,630.00	150.40	121.90	88.28	-5,806.72	2,446.16	3,390.72	3,152.98	237.74	14.262		
17,700.00	7,730.00	15,959.27	7,630.00	151.44	123.54	88.28	-5,906.72	2,445.83	3,390.72	3,149.69	241.02	14.068		
17,800.00	7,730.00	16,059.27	7,630.00	152.50	125.18	88.28	-6,006.72	2,445.49	3,390.71	3,146.40	244.32	13.878		
17,900.00	7,730.00	16,159.27	7,630.00	153.58	126.83	88.28	-6,106.71	2,445.15	3,390.71	3,143.10	247.62	13.693		
18,000.00	7,730.00	16,259.27	7,630.00	154.68	128.48	88.28	-6,206.71	2,444.82	3,390.71	3,139.79	250.92	13.513		
18,100.00	7,730.00	16,359.27	7,630.00	155.80	130.13	88.28	-6,306.71	2,444.48	3,390.71	3,136.48	254.23	13.337		
18,200.00	7,730.00	16,459.27	7,630.00	156.95	131.78	88.28	-6,406.71	2,444.14	3,390.71	3,133.16	257.55	13.165		
18,300.00	7,730.00	16,559.27	7,630.00	158.11	133.44	88.28	-6,506.71	2,443.81	3,390.71	3,129.83	260.88	12.997		
18,400.00	7,730.00	16,659.27	7,630.00	159.30	135.10	88.28	-6,606.71	2,443.47	3,390.71	3,126.50	264.20	12.834		
18,500.00	7,730.00	16,759.27	7,630.00	160.50	136.76	88.28	-6,706.71	2,443.13	3,390.71	3,123.17	267.54	12.674		
18,600.00	7,730.00	16,859.27	7,630.00	161.72	138.42	88.28	-6,806.71	2,442.79	3,390.70	3,119.83	270.88	12.517		
18,700.00	7,730.00	16,959.27	7,630.00	162.96	140.09	88.28	-6,906.71	2,442.46	3,390.70	3,116.48	274.22	12.365		
18,800.00	7,730.00	17,059.27	7,630.00	164.21	141.76	88.28	-7,006.71	2,442.12	3,390.70	3,113.13	277.57	12.216		
18,900.00	7,730.00	17,159.27	7,630.00	165.48	143.43	88.28	-7,106.71	2,441.78	3,390.70	3,109.78	280.92	12.070		
19,000.00	7,730.00	17,259.27	7,630.00	166.76	145.10	88.28	-7,206.71	2,441.45	3,390.70	3,106.42	284.28	11.927		
19,100.00	7,730.00	17,359.27	7,630.00	168.06	146.77	88.28	-7,306.71	2,441.11	3,390.70	3,103.06	287.64	11.788		
19,200.00	7,730.00	17,459.27	7,630.00	169.38	148.45	88.28	-7,406.71	2,440.77	3,390.70	3,099.69	291.01	11.652		
19,300.00	7,730.00	17,559.27	7,630.00	170.70	150.13	88.28	-7,506.71	2,440.44	3,390.70	3,096.32	294.38	11.518		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	17,659.27	7,630.00	172.04	151.81	88.28	-7,606.71	2,440.10	3,390.69	3,092.94	297.75	11.388	
19,500.00	7,730.00	17,759.27	7,630.00	173.40	153.49	88.28	-7,706.71	2,439.76	3,390.69	3,089.56	301.13	11.260	
19,600.00	7,730.00	17,859.27	7,630.00	174.76	155.17	88.28	-7,806.71	2,439.43	3,390.69	3,086.18	304.51	11.135	
19,700.00	7,730.00	17,959.27	7,630.00	176.14	156.86	88.28	-7,906.70	2,439.09	3,390.69	3,082.80	307.89	11.013	
19,800.00	7,730.00	18,059.27	7,630.00	177.52	158.55	88.28	-8,006.70	2,438.75	3,390.69	3,079.41	311.28	10.893	
19,900.00	7,730.00	18,159.27	7,630.00	178.92	160.24	88.28	-8,106.70	2,438.42	3,390.69	3,076.02	314.67	10.775	
20,000.00	7,730.00	18,259.27	7,630.00	180.33	161.93	88.28	-8,206.70	2,438.08	3,390.69	3,072.62	318.06	10.660	
20,100.00	7,730.00	18,359.27	7,630.00	181.75	163.62	88.28	-8,306.70	2,437.74	3,390.69	3,069.22	321.46	10.548	
20,184.95	7,730.00	18,444.23	7,630.00	182.96	165.06	88.28	-8,391.66	2,437.46	3,390.68	3,066.34	324.35	10.454 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.54	0.73	-89.88	89.88					
100.00	100.00	102.00	102.00	0.13	0.14	-89.54	0.73	-89.88	89.88	89.61	0.28	325.638	CC, ES	
200.00	199.98	201.98	201.98	0.49	0.50	-160.35	0.73	-89.88	91.53	90.53	0.99	92.284		
300.00	299.84	301.84	301.84	0.86	0.86	-161.37	0.73	-89.88	96.47	94.76	1.71	56.253		
400.00	399.45	401.45	401.45	1.23	1.22	-162.84	0.73	-89.88	104.77	102.33	2.44	42.930		
500.00	498.70	500.70	500.70	1.63	1.57	-164.54	0.73	-89.88	116.47	113.30	3.17	36.768		
600.00	597.47	600.53	599.47	2.05	1.93	-166.29	0.73	-89.88	131.62	127.72	3.90	33.747		
700.00	695.62	702.38	697.62	2.51	2.29	-167.93	0.73	-89.88	150.24	145.60	4.64	32.356		
800.00	793.06	804.94	795.06	3.00	2.66	-169.41	0.73	-89.88	172.32	166.93	5.39	31.956		
900.00	889.64	908.36	891.64	3.53	3.03	-170.70	0.73	-89.88	197.84	191.69	6.15	32.178		
1,000.00	985.27	987.27	987.27	4.12	3.32	-171.81	0.73	-89.88	226.77	219.95	6.82	33.250		
1,100.00	1,079.82	1,089.24	1,089.22	4.75	3.68	-172.70	1.53	-88.75	257.88	250.30	7.58	34.028		
1,200.00	1,173.17	1,193.37	1,193.22	5.44	4.05	-173.19	4.51	-84.56	289.19	280.84	8.35	34.637		
1,300.00	1,265.21	1,298.69	1,298.14	6.18	4.42	-173.40	9.74	-77.20	320.59	311.45	9.13	35.106		
1,400.00	1,355.84	1,405.21	1,403.86	6.99	4.82	-173.37	17.29	-66.55	352.03	342.10	9.93	35.454		
1,500.00	1,444.94	1,512.96	1,510.23	7.87	5.23	-173.18	27.25	-52.54	383.46	372.72	10.74	35.696		
1,600.00	1,532.39	1,621.96	1,617.08	8.80	5.67	-172.84	39.66	-35.05	414.87	403.30	11.57	35.849		
1,700.00	1,618.11	1,732.21	1,724.26	9.81	6.14	-172.39	54.61	-14.00	446.21	433.78	12.43	35.909		
1,800.00	1,701.97	1,843.73	1,831.59	10.89	6.66	-171.84	72.15	10.69	477.46	464.15	13.31	35.883		
1,900.00	1,783.88	1,956.54	1,938.86	12.04	7.24	-171.20	92.33	39.12	508.59	494.37	14.22	35.771		
2,000.00	1,863.74	2,070.64	2,045.89	13.26	7.88	-170.50	115.22	71.35	539.58	524.42	15.17	35.574		
2,100.00	1,941.45	2,186.04	2,152.45	14.55	8.58	-169.73	140.86	107.46	570.41	554.25	16.16	35.288		
2,200.00	2,016.92	2,302.75	2,258.32	15.92	9.37	-168.90	169.29	147.50	601.05	583.84	17.22	34.912		
2,292.11	2,084.36	2,411.41	2,355.00	17.25	10.18	-168.09	197.99	187.91	629.09	610.84	18.25	34.480		
2,300.00	2,090.06	2,420.78	2,363.25	17.36	10.26	-168.03	200.56	191.54	631.47	613.13	18.34	34.433		
2,400.00	2,162.18	2,536.32	2,463.76	18.84	11.20	-167.22	233.55	237.99	659.83	640.31	19.52	33.795		
2,500.00	2,234.31	2,632.25	2,546.51	20.33	12.03	-166.55	261.64	277.55	687.06	666.33	20.73	33.149		
2,600.00	2,306.43	2,728.17	2,629.26	21.83	12.87	-165.94	289.73	317.11	714.37	692.41	21.96	32.530		
2,700.00	2,378.56	2,824.10	2,712.00	23.33	13.73	-165.37	317.83	356.67	741.74	718.52	23.22	31.939		
2,800.00	2,450.68	2,920.02	2,794.75	24.84	14.61	-164.84	345.92	396.24	769.18	744.67	24.51	31.377		
2,900.00	2,522.81	3,015.95	2,877.50	26.36	15.50	-164.35	374.01	435.80	796.68	770.85	25.83	30.844		
3,000.00	2,594.93	3,111.87	2,960.25	27.88	16.39	-163.89	402.11	475.36	824.23	797.06	27.17	30.341		
3,100.00	2,667.06	3,207.80	3,043.00	29.40	17.30	-163.46	430.20	514.92	851.83	823.30	28.52	29.866		
3,200.00	2,739.18	3,303.72	3,125.75	30.92	18.21	-163.05	458.29	554.48	879.46	849.57	29.90	29.418		
3,300.00	2,811.31	3,400.35	3,208.50	32.45	19.13	-162.67	486.38	594.04	907.14	875.85	31.29	28.991		
3,400.00	2,883.43	3,504.42	3,291.25	33.98	20.13	-162.32	514.48	633.61	934.85	902.10	32.75	28.548		
3,500.00	2,955.56	3,608.50	3,374.00	35.51	21.13	-161.98	542.57	673.17	962.59	928.37	34.22	28.132		
3,600.00	3,027.68	3,687.43	3,456.75	37.04	21.90	-161.66	570.66	712.73	990.36	954.82	35.54	27.867		
3,700.00	3,099.81	3,783.35	3,539.50	38.57	22.83	-161.36	598.75	752.29	1,018.15	981.17	36.98	27.532		
3,800.00	3,171.93	3,879.28	3,622.25	40.11	23.77	-161.08	626.85	791.85	1,045.97	1,007.54	38.43	27.216		
3,900.00	3,244.06	3,975.20	3,704.99	41.64	24.70	-160.81	654.94	831.41	1,073.82	1,033.93	39.89	26.917		
4,000.00	3,316.18	4,071.13	3,787.74	43.18	25.64	-160.55	683.03	870.97	1,101.68	1,060.32	41.36	26.635		
4,100.00	3,388.31	4,167.06	3,870.49	44.71	26.59	-160.31	711.12	910.54	1,129.57	1,086.73	42.84	26.367		
4,200.00	3,460.43	4,262.98	3,953.24	46.25	27.53	-160.08	739.22	950.10	1,157.47	1,113.14	44.33	26.113		
4,300.00	3,532.56	4,358.91	4,035.99	47.79	28.48	-159.86	767.31	989.66	1,185.39	1,139.57	45.82	25.872		
4,400.00	3,604.68	4,454.83	4,118.74	49.33	29.42	-159.65	795.40	1,029.22	1,213.32	1,166.01	47.31	25.644		
4,500.00	3,676.81	4,550.76	4,201.49	50.87	30.37	-159.44	823.50	1,068.78	1,241.27	1,192.45	48.82	25.426		
4,600.00	3,748.93	4,646.68	4,284.24	52.41	31.32	-159.25	851.59	1,108.34	1,269.23	1,218.90	50.33	25.220		
4,700.00	3,821.06	4,742.61	4,366.99	53.95	32.27	-159.07	879.68	1,147.91	1,297.21	1,245.36	51.84	25.023		
4,800.00	3,893.18	4,838.54	4,449.74	55.49	33.22	-158.89	907.77	1,187.47	1,325.19	1,271.83	53.36	24.835		
4,900.00	3,965.31	4,934.46	4,532.49	57.03	34.18	-158.72	935.87	1,227.03	1,353.19	1,298.31	54.88	24.656		
5,000.00	4,037.43	5,030.39	4,615.23	58.58	35.13	-158.56	963.96	1,266.59	1,381.20	1,324.79	56.41	24.485		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,126.31	4,697.98	60.12	36.09	-158.40	992.05	1,306.15	1,409.22	1,351.27	57.94	24.321		
5,200.00	4,181.68	5,222.24	4,780.73	61.66	37.04	-158.26	1,020.14	1,345.71	1,437.24	1,377.77	59.48	24.165		
5,300.00	4,253.81	5,318.16	4,863.48	63.20	38.00	-158.11	1,048.24	1,385.27	1,465.28	1,404.26	61.01	24.015		
5,400.00	4,325.93	5,414.09	4,946.23	64.75	38.95	-157.97	1,076.33	1,424.84	1,493.32	1,430.77	62.56	23.872		
5,500.00	4,398.06	5,510.01	5,028.98	66.29	39.91	-157.84	1,104.42	1,464.40	1,521.37	1,457.27	64.10	23.734		
5,600.00	4,470.18	5,605.94	5,111.73	67.84	40.87	-157.71	1,132.51	1,503.96	1,549.43	1,483.79	65.65	23.602		
5,700.00	4,542.31	5,701.87	5,194.48	69.38	41.83	-157.59	1,160.61	1,543.52	1,577.50	1,510.30	67.20	23.476		
5,800.00	4,614.43	5,797.79	5,277.23	70.92	42.78	-157.47	1,188.70	1,583.08	1,605.57	1,536.82	68.75	23.354		
5,900.00	4,686.56	5,906.28	5,359.98	72.47	43.87	-157.35	1,216.79	1,622.64	1,633.65	1,563.26	70.39	23.208		
6,000.00	4,758.68	5,989.64	5,442.73	74.01	44.70	-157.24	1,244.89	1,662.21	1,661.74	1,589.87	71.86	23.124		
6,100.00	4,830.81	6,085.57	5,525.47	75.56	45.66	-157.13	1,272.98	1,701.77	1,689.83	1,616.40	73.42	23.016		
6,200.00	4,902.93	6,181.49	5,608.22	77.10	46.62	-157.03	1,301.07	1,741.33	1,717.92	1,642.94	74.98	22.911		
6,300.00	4,975.06	6,277.42	5,690.97	78.65	47.58	-156.93	1,329.16	1,780.89	1,746.02	1,669.48	76.55	22.810		
6,400.00	5,047.18	6,373.35	5,773.72	80.19	48.54	-156.83	1,357.26	1,820.45	1,774.13	1,696.02	78.11	22.713		
6,500.00	5,119.31	6,469.27	5,856.47	81.74	49.51	-156.73	1,385.35	1,860.01	1,802.24	1,722.56	79.68	22.619		
6,600.00	5,191.43	6,565.20	5,939.22	83.28	50.47	-156.64	1,413.44	1,899.58	1,830.35	1,749.11	81.25	22.529		
6,700.00	5,263.56	6,661.12	6,021.97	84.83	51.43	-156.55	1,441.53	1,939.14	1,858.47	1,775.66	82.82	22.441		
6,800.00	5,335.68	6,757.05	6,104.72	86.37	52.39	-156.47	1,469.63	1,978.70	1,886.59	1,802.21	84.39	22.357		
6,900.00	5,407.81	6,852.97	6,187.47	87.92	53.35	-156.38	1,497.72	2,018.26	1,914.72	1,828.76	85.96	22.275		
7,000.00	5,479.93	6,948.90	6,270.22	89.47	54.32	-156.30	1,525.81	2,057.82	1,942.85	1,855.32	87.53	22.196		
7,100.00	5,552.06	7,044.83	6,352.97	91.01	55.28	-156.22	1,553.90	2,097.38	1,970.99	1,881.88	89.11	22.119		
7,200.00	5,624.18	7,140.75	6,435.72	92.56	56.24	-156.14	1,582.00	2,136.94	1,999.12	1,908.44	90.69	22.045		
7,300.00	5,696.31	7,236.68	6,518.46	94.10	57.20	-156.07	1,610.09	2,176.51	2,027.26	1,935.00	92.26	21.972		
7,400.00	5,768.43	7,332.60	6,601.21	95.65	58.17	-156.00	1,638.18	2,216.07	2,055.41	1,961.57	93.84	21.903		
7,500.00	5,840.56	7,428.53	6,683.96	97.20	59.13	-155.93	1,666.27	2,255.63	2,083.55	1,988.13	95.42	21.835		
7,600.00	5,912.68	7,524.45	6,766.71	98.74	60.09	-155.86	1,694.37	2,295.19	2,111.70	2,014.70	97.00	21.769		
7,700.00	5,984.81	7,620.38	6,849.46	100.29	61.06	-155.79	1,722.46	2,334.75	2,139.86	2,041.27	98.59	21.705		
7,800.00	6,056.93	7,716.31	6,932.21	101.84	62.02	-155.72	1,750.55	2,374.31	2,168.01	2,067.84	100.17	21.643		
7,900.00	6,129.06	7,812.23	7,014.96	103.38	62.99	-155.66	1,778.65	2,413.88	2,196.17	2,094.41	101.75	21.583		
8,000.00	6,201.18	7,908.16	7,097.71	104.93	63.95	-155.60	1,806.74	2,453.44	2,224.33	2,120.99	103.34	21.525		
8,100.00	6,273.31	8,004.08	7,180.46	106.48	64.91	-155.54	1,834.83	2,493.00	2,252.49	2,147.57	104.93	21.468		
8,200.00	6,345.43	8,146.78	7,306.09	108.02	66.25	-155.77	1,864.55	2,553.02	2,279.91	2,173.41	106.49	21.409		
8,300.00	6,417.56	8,292.27	7,436.97	109.57	67.27	-156.90	1,895.05	2,615.42	2,305.13	2,198.93	108.21	21.350		
8,400.00	6,489.68	8,411.86	7,540.89	111.12	67.79	-158.44	1,827.30	2,664.88	2,329.34	2,224.61	104.73	22.241		
8,500.00	6,561.81	8,504.32	7,615.84	112.66	68.00	-159.96	1,786.77	2,700.49	2,354.01	2,250.99	103.02	22.850		
8,600.00	6,633.93	8,574.53	7,668.30	114.21	68.06	-161.28	1,747.37	2,725.38	2,380.29	2,278.81	101.48	23.457		
8,700.00	6,706.06	8,628.16	7,705.23	115.76	68.05	-162.37	1,712.66	2,742.87	2,408.90	2,308.72	100.18	24.045		
8,800.00	6,778.18	8,669.80	7,731.78	117.30	68.01	-163.25	1,683.16	2,755.44	2,440.25	2,341.16	99.09	24.626		
8,900.00	6,850.31	8,700.00	7,749.79	118.85	67.97	-163.91	1,660.47	2,763.95	2,474.56	2,376.33	98.22	25.193		
9,000.00	6,922.43	8,729.28	7,766.21	120.40	67.91	-164.57	1,637.50	2,771.70	2,511.88	2,414.60	97.28	25.821		
9,100.00	6,994.56	8,750.00	7,777.17	121.95	67.87	-165.04	1,620.70	2,776.87	2,552.23	2,455.74	96.49	26.450		
9,200.00	7,066.68	8,769.16	7,786.82	123.49	67.82	-165.48	1,604.79	2,781.42	2,595.55	2,499.88	95.67	27.130		
9,300.00	7,138.81	8,784.44	7,794.17	125.04	67.78	-165.84	1,591.84	2,784.88	2,641.74	2,546.86	94.88	27.843		
9,392.50	7,205.52	8,800.00	7,801.32	126.47	67.74	-166.20	1,578.45	2,788.25	2,686.95	2,592.89	94.06	28.567		
9,400.00	7,210.94	8,800.00	7,801.32	126.59	67.74	-167.40	1,578.45	2,788.25	2,690.72	2,596.69	94.02	28.617		
9,450.00	7,247.42	8,800.00	7,801.32	127.35	67.74	-175.58	1,578.45	2,788.25	2,716.13	2,622.29	93.83	28.946		
9,500.00	7,284.35	8,812.80	7,806.96	128.10	67.70	175.70	1,567.27	2,790.90	2,741.88	2,648.51	93.37	29.367		
9,550.00	7,321.43	8,822.17	7,810.95	128.83	67.67	166.99	1,558.99	2,792.78	2,767.76	2,674.71	93.05	29.743		
9,600.00	7,358.38	8,832.52	7,815.21	129.52	67.64	158.39	1,549.77	2,794.78	2,793.54	2,700.76	92.78	30.110		
9,650.00	7,394.93	8,850.00	7,822.06	130.16	67.59	149.97	1,534.02	2,797.99	2,819.00	2,726.63	92.37	30.518		
9,700.00	7,430.79	8,850.00	7,822.06	130.76	67.59	142.29	1,534.02	2,797.99	2,843.90	2,751.41	92.49	30.748		
9,750.00	7,465.70	8,868.34	7,828.78	131.30	67.52	134.87	1,517.25	2,801.14	2,868.04	2,775.85	92.18	31.112		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,881.57	7,833.33	131.78	67.48	128.16	1,505.01	2,803.26	2,891.24	2,799.17	92.07	31.402		
9,850.00	7,531.58	8,900.00	7,839.23	132.21	67.41	122.05	1,487.77	2,806.02	2,913.33	2,821.45	91.88	31.708		
9,900.00	7,562.06	8,900.00	7,839.23	132.57	67.41	116.78	1,487.77	2,806.02	2,934.14	2,841.86	92.27	31.798		
9,950.00	7,590.58	8,924.16	7,846.20	132.87	67.32	111.92	1,464.87	2,809.27	2,953.41	2,861.37	92.05	32.086		
10,000.00	7,616.93	8,950.00	7,852.69	133.11	67.22	107.68	1,440.04	2,812.28	2,971.20	2,879.37	91.83	32.357		
10,050.00	7,640.90	8,950.00	7,852.69	133.29	67.22	104.19	1,440.04	2,812.28	2,987.15	2,894.70	92.45	32.311		
10,100.00	7,662.32	8,969.93	7,857.00	133.42	67.13	101.11	1,420.69	2,814.27	3,001.30	2,908.75	92.55	32.429		
10,150.00	7,681.01	9,000.00	7,862.35	133.50	67.00	98.52	1,391.20	2,816.72	3,013.62	2,921.23	92.39	32.619		
10,200.00	7,696.85	9,000.00	7,862.35	133.52	67.00	96.52	1,391.20	2,816.72	3,023.72	2,930.45	93.27	32.420		
10,250.00	7,709.70	9,017.67	7,864.84	133.51	66.93	94.90	1,373.75	2,817.85	3,031.82	2,938.16	93.66	32.372		
10,300.00	7,719.47	9,033.84	7,866.70	133.46	66.85	93.73	1,357.70	2,818.68	3,037.78	2,943.61	94.17	32.259		
10,350.00	7,726.09	9,050.00	7,868.14	133.37	66.78	92.97	1,341.62	2,819.32	3,041.54	2,946.79	94.75	32.101		
10,400.00	7,729.50	9,066.36	7,869.18	133.26	66.70	92.61	1,325.30	2,819.76	3,043.10	2,947.70	95.40	31.898		
10,427.79	7,730.00	9,075.41	7,869.58	133.18	66.66	92.59	1,316.26	2,819.92	3,043.01	2,947.22	95.79	31.768		
10,500.00	7,730.00	9,100.43	7,870.00	132.98	66.55	92.60	1,292.10	2,820.04	3,042.44	2,945.64	96.81	31.428		
10,600.00	7,730.00	9,200.43	7,870.00	132.72	66.09	92.60	1,192.10	2,819.70	3,042.44	2,946.62	95.82	31.751		
10,700.00	7,730.00	9,300.43	7,870.00	132.47	65.65	92.60	1,092.10	2,819.36	3,042.44	2,947.48	94.96	32.040		
10,800.00	7,730.00	9,400.43	7,870.00	132.22	65.24	92.60	992.10	2,819.02	3,042.44	2,948.22	94.22	32.290		
10,900.00	7,730.00	9,500.43	7,870.00	131.99	64.84	92.60	892.10	2,818.68	3,042.44	2,948.83	93.62	32.499		
11,000.00	7,730.00	9,600.43	7,870.00	131.77	64.48	92.60	792.10	2,818.35	3,042.44	2,949.30	93.14	32.665		
11,100.00	7,730.00	9,700.43	7,870.00	131.56	64.13	92.60	692.11	2,818.01	3,042.44	2,949.64	92.80	32.785		
11,200.00	7,730.00	9,800.43	7,870.00	131.36	63.80	92.60	592.11	2,817.67	3,042.44	2,949.85	92.59	32.858		
11,300.00	7,730.00	9,900.43	7,870.00	131.17	63.50	92.60	492.11	2,817.33	3,042.44	2,949.92	92.52	32.883		
11,400.00	7,730.00	10,000.43	7,870.00	130.99	63.21	92.60	392.11	2,816.99	3,042.44	2,949.86	92.59	32.860		
11,500.00	7,730.00	10,100.43	7,870.00	130.82	62.95	92.60	292.11	2,816.66	3,042.44	2,949.65	92.79	32.788		
11,600.00	7,730.00	10,199.58	7,870.00	130.66	62.72	92.60	192.11	2,816.32	3,042.44	2,949.32	93.13	32.670		
11,700.00	7,730.00	10,300.43	7,870.00	130.51	62.50	92.60	92.11	2,815.98	3,042.44	2,948.85	93.60	32.505		
11,800.00	7,730.00	10,400.43	7,870.00	130.37	62.31	92.60	-7.89	2,815.64	3,042.44	2,948.24	94.20	32.298		
11,900.00	7,730.00	10,500.43	7,870.00	130.24	62.15	92.60	-107.89	2,815.30	3,042.44	2,947.51	94.93	32.049		
12,000.00	7,730.00	10,600.43	7,870.00	130.13	62.01	92.60	-207.89	2,814.97	3,042.44	2,946.66	95.79	31.763		
12,100.00	7,730.00	10,700.43	7,870.00	130.02	61.90	92.60	-307.89	2,814.63	3,042.44	2,945.68	96.76	31.442		
12,200.00	7,730.00	10,800.43	7,870.00	129.93	61.82	92.60	-407.89	2,814.29	3,042.44	2,944.58	97.86	31.090		
12,300.00	7,730.00	10,900.43	7,870.00	129.85	61.78	92.60	-507.89	2,813.95	3,042.44	2,943.37	99.07	30.710		
12,400.00	7,730.00	11,000.43	7,870.00	129.77	61.77	92.60	-607.89	2,813.61	3,042.44	2,942.05	100.39	30.306		
12,500.00	7,730.00	11,100.43	7,870.00	129.71	61.81	92.60	-707.89	2,813.27	3,042.44	2,940.63	101.82	29.881		
12,600.00	7,730.00	11,200.43	7,870.00	129.66	61.90	92.60	-807.89	2,812.94	3,042.44	2,939.10	103.34	29.440		
12,700.00	7,730.00	11,300.43	7,870.00	129.63	62.04	92.60	-907.89	2,812.60	3,042.44	2,937.48	104.97	28.985		
12,800.00	7,730.00	11,400.43	7,870.00	129.60	62.23	92.60	-1,007.88	2,812.26	3,042.44	2,935.76	106.68	28.519		
12,900.00	7,730.00	11,500.43	7,870.00	129.59	62.50	92.60	-1,107.88	2,811.92	3,042.44	2,933.96	108.49	28.045		
13,000.00	7,730.00	11,600.43	7,870.00	129.59	62.84	92.60	-1,207.88	2,811.58	3,042.44	2,932.07	110.37	27.565		
13,100.00	7,730.00	11,700.43	7,870.00	129.60	63.26	92.60	-1,307.88	2,811.25	3,042.44	2,930.11	112.34	27.083		
13,200.00	7,730.00	11,800.43	7,870.00	129.63	63.76	92.60	-1,407.88	2,810.91	3,042.44	2,928.07	114.38	26.600		
13,300.00	7,730.00	11,900.43	7,870.00	129.66	64.34	92.60	-1,507.88	2,810.57	3,042.44	2,925.95	116.49	26.118		
13,400.00	7,730.00	12,000.43	7,870.00	129.72	65.02	92.60	-1,607.88	2,810.23	3,042.44	2,923.78	118.67	25.639		
13,500.00	7,730.00	12,100.43	7,870.00	129.78	65.77	92.60	-1,707.88	2,809.89	3,042.44	2,921.53	120.91	25.163		
13,600.00	7,730.00	12,200.43	7,870.00	129.86	66.61	92.60	-1,807.88	2,809.56	3,042.44	2,919.23	123.21	24.693		
13,700.00	7,730.00	12,300.43	7,870.00	129.96	67.52	92.60	-1,907.88	2,809.22	3,042.44	2,916.87	125.57	24.229		
13,800.00	7,730.00	12,400.43	7,870.00	130.07	68.49	92.60	-2,007.88	2,808.88	3,042.44	2,914.46	127.98	23.773		
13,900.00	7,730.00	12,500.43	7,870.00	130.19	69.53	92.60	-2,107.88	2,808.54	3,042.44	2,912.00	130.44	23.324		
14,000.00	7,730.00	12,600.43	7,870.00	130.33	70.62	92.60	-2,207.88	2,808.20	3,042.44	2,909.49	132.95	22.883		
14,100.00	7,730.00	12,700.43	7,870.00	130.49	71.75	92.60	-2,307.88	2,807.87	3,042.44	2,906.93	135.51	22.452		
14,200.00	7,730.00	12,800.43	7,870.00	130.67	72.93	92.60	-2,407.88	2,807.53	3,042.44	2,904.34	138.11	22.029		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	12,900.43	7,870.00	130.86	74.15	92.60	-2,507.88	2,807.19	3,042.44	2,901.70	140.75	21.616		
14,400.00	7,730.00	13,000.43	7,870.00	131.07	75.40	92.60	-2,607.88	2,806.85	3,042.44	2,899.02	143.42	21.213		
14,500.00	7,730.00	13,100.43	7,870.00	131.30	76.68	92.60	-2,707.88	2,806.51	3,042.44	2,896.31	146.14	20.819		
14,600.00	7,730.00	13,200.43	7,870.00	131.55	77.99	92.60	-2,807.87	2,806.18	3,042.44	2,893.56	148.88	20.435		
14,700.00	7,730.00	13,300.43	7,870.00	131.82	79.32	92.60	-2,907.87	2,805.84	3,042.44	2,890.78	151.66	20.061		
14,800.00	7,730.00	13,399.58	7,870.00	132.11	80.66	92.60	-3,007.87	2,805.50	3,042.44	2,887.98	154.46	19.697		
14,900.00	7,730.00	13,499.58	7,870.00	132.42	82.03	92.60	-3,107.87	2,805.16	3,042.44	2,885.14	157.30	19.342		
15,000.00	7,730.00	13,600.43	7,870.00	132.75	83.44	92.60	-3,207.87	2,804.82	3,042.44	2,882.27	160.18	18.994		
15,100.00	7,730.00	13,700.43	7,870.00	133.10	84.85	92.60	-3,307.87	2,804.48	3,042.44	2,879.37	163.07	18.657		
15,200.00	7,730.00	13,800.43	7,870.00	133.48	86.27	92.60	-3,407.87	2,804.15	3,042.44	2,876.46	165.99	18.330		
15,300.00	7,730.00	13,899.58	7,870.00	133.88	87.70	92.60	-3,507.87	2,803.81	3,042.44	2,873.53	168.91	18.012		
15,400.00	7,730.00	14,000.43	7,870.00	134.31	89.17	92.60	-3,607.87	2,803.47	3,042.44	2,870.56	171.89	17.700		
15,500.00	7,730.00	14,100.43	7,870.00	134.76	90.63	92.60	-3,707.87	2,803.13	3,042.44	2,867.57	174.87	17.398		
15,600.00	7,730.00	14,200.43	7,870.00	135.23	92.11	92.60	-3,807.87	2,802.79	3,042.44	2,864.57	177.87	17.105		
15,700.00	7,730.00	14,300.43	7,870.00	135.73	93.60	92.60	-3,907.87	2,802.46	3,042.44	2,861.55	180.89	16.819		
15,800.00	7,730.00	14,400.43	7,870.00	136.26	95.09	92.60	-4,007.87	2,802.12	3,042.44	2,858.51	183.93	16.541		
15,900.00	7,730.00	14,500.43	7,870.00	136.81	96.60	92.60	-4,107.87	2,801.78	3,042.44	2,855.45	186.99	16.270		
16,000.00	7,730.00	14,599.58	7,870.00	137.39	98.11	92.60	-4,207.87	2,801.44	3,042.44	2,852.39	190.05	16.008		
16,100.00	7,730.00	14,700.43	7,870.00	138.00	99.65	92.60	-4,307.87	2,801.10	3,042.44	2,849.29	193.15	15.751		
16,200.00	7,730.00	14,800.43	7,870.00	138.63	101.18	92.60	-4,407.87	2,800.77	3,042.44	2,846.18	196.26	15.502		
16,300.00	7,730.00	14,900.43	7,870.00	139.30	102.72	92.60	-4,507.86	2,800.43	3,042.44	2,843.07	199.38	15.260		
16,400.00	7,730.00	15,000.43	7,870.00	139.99	104.27	92.60	-4,607.86	2,800.09	3,042.44	2,839.93	202.51	15.024		
16,500.00	7,730.00	15,100.43	7,870.00	140.70	105.82	92.60	-4,707.86	2,799.75	3,042.44	2,836.79	205.65	14.794		
16,600.00	7,730.00	15,200.43	7,870.00	141.45	107.39	92.60	-4,807.86	2,799.41	3,042.44	2,833.63	208.81	14.570		
16,700.00	7,730.00	15,300.43	7,870.00	142.22	108.95	92.60	-4,907.86	2,799.08	3,042.44	2,830.46	211.98	14.353		
16,800.00	7,730.00	15,400.43	7,870.00	143.03	110.53	92.60	-5,007.86	2,798.74	3,042.44	2,827.28	215.16	14.140		
16,900.00	7,730.00	15,500.43	7,870.00	143.86	112.11	92.60	-5,107.86	2,798.40	3,042.44	2,824.09	218.35	13.934		
17,000.00	7,730.00	15,600.43	7,870.00	144.71	113.69	92.60	-5,207.86	2,798.06	3,042.44	2,820.89	221.55	13.733		
17,100.00	7,730.00	15,700.43	7,870.00	145.60	115.28	92.60	-5,307.86	2,797.72	3,042.44	2,817.68	224.76	13.536		
17,200.00	7,730.00	15,799.58	7,870.00	146.51	116.86	92.60	-5,407.86	2,797.38	3,042.44	2,814.47	227.97	13.346		
17,300.00	7,730.00	15,900.43	7,870.00	147.44	118.48	92.60	-5,507.86	2,797.05	3,042.44	2,811.23	231.21	13.159		
17,400.00	7,730.00	16,000.43	7,870.00	148.40	120.08	92.60	-5,607.86	2,796.71	3,042.44	2,807.99	234.45	12.977		
17,500.00	7,730.00	16,100.43	7,870.00	149.39	121.69	92.60	-5,707.86	2,796.37	3,042.44	2,804.75	237.69	12.800		
17,600.00	7,730.00	16,200.43	7,870.00	150.40	123.30	92.60	-5,807.86	2,796.03	3,042.44	2,801.49	240.95	12.627		
17,700.00	7,730.00	16,300.43	7,870.00	151.44	124.92	92.60	-5,907.86	2,795.69	3,042.44	2,798.23	244.21	12.458		
17,800.00	7,730.00	16,400.43	7,870.00	152.50	126.54	92.60	-6,007.86	2,795.36	3,042.44	2,794.96	247.48	12.294		
17,900.00	7,730.00	16,500.43	7,870.00	153.58	128.16	92.60	-6,107.86	2,795.02	3,042.44	2,791.68	250.76	12.133		
18,000.00	7,730.00	16,600.43	7,870.00	154.68	129.79	92.60	-6,207.86	2,794.68	3,042.44	2,788.40	254.04	11.976		
18,100.00	7,730.00	16,700.43	7,870.00	155.80	131.42	92.60	-6,307.85	2,794.34	3,042.44	2,785.11	257.33	11.823		
18,200.00	7,730.00	16,800.43	7,870.00	156.95	133.06	92.60	-6,407.85	2,794.00	3,042.44	2,781.82	260.63	11.674		
18,300.00	7,730.00	16,899.58	7,870.00	158.11	134.68	92.60	-6,507.85	2,793.67	3,042.44	2,778.53	263.91	11.528		
18,400.00	7,730.00	17,000.43	7,870.00	159.30	136.34	92.60	-6,607.85	2,793.33	3,042.44	2,775.20	267.24	11.385		
18,500.00	7,730.00	17,100.43	7,870.00	160.50	137.98	92.60	-6,707.85	2,792.99	3,042.44	2,771.89	270.55	11.245		
18,600.00	7,730.00	17,200.43	7,870.00	161.72	139.63	92.60	-6,807.85	2,792.65	3,042.44	2,768.57	273.87	11.109		
18,700.00	7,730.00	17,300.43	7,870.00	162.96	141.28	92.60	-6,907.85	2,792.31	3,042.44	2,765.25	277.19	10.976		
18,800.00	7,730.00	17,400.43	7,870.00	164.21	142.93	92.60	-7,007.85	2,791.98	3,042.44	2,761.92	280.52	10.846		
18,900.00	7,730.00	17,499.58	7,870.00	165.48	144.57	92.60	-7,107.85	2,791.64	3,042.44	2,758.60	283.84	10.719		
19,000.00	7,730.00	17,600.43	7,870.00	166.76	146.24	92.60	-7,207.85	2,791.30	3,042.44	2,755.24	287.20	10.594		
19,100.00	7,730.00	17,700.43	7,870.00	168.06	147.90	92.60	-7,307.85	2,790.96	3,042.44	2,751.90	290.54	10.472		
19,200.00	7,730.00	17,800.43	7,870.00	169.38	149.56	92.60	-7,407.85	2,790.62	3,042.44	2,748.55	293.89	10.352		
19,300.00	7,730.00	17,900.43	7,870.00	170.70	151.23	92.60	-7,507.85	2,790.29	3,042.44	2,745.20	297.24	10.236		
19,400.00	7,730.00	18,000.43	7,870.00	172.04	152.89	92.60	-7,607.85	2,789.95	3,042.44	2,741.84	300.60	10.121		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,730.00	18,100.43	7,870.00	173.40	154.56	92.60	-7,707.85	2,789.61	3,042.44	2,738.48	303.96	10.009	
19,600.00	7,730.00	18,200.43	7,870.00	174.76	156.23	92.60	-7,807.85	2,789.27	3,042.44	2,735.12	307.32	9.900	
19,700.00	7,730.00	18,300.43	7,870.00	176.14	157.90	92.60	-7,907.85	2,788.93	3,042.44	2,731.75	310.69	9.793	
19,800.00	7,730.00	18,400.43	7,870.00	177.52	159.58	92.60	-8,007.85	2,788.59	3,042.44	2,728.38	314.06	9.687	
19,900.00	7,730.00	18,500.43	7,870.00	178.92	161.25	92.60	-8,107.84	2,788.26	3,042.44	2,725.01	317.44	9.584	
20,000.00	7,730.00	18,600.43	7,870.00	180.33	162.93	92.60	-8,207.84	2,787.92	3,042.44	2,721.63	320.81	9.483	
20,100.00	7,730.00	18,700.43	7,870.00	181.75	164.61	92.60	-8,307.84	2,787.58	3,042.44	2,718.25	324.20	9.385	
20,184.95	7,730.00	18,784.53	7,870.00	182.96	166.03	92.60	-8,392.80	2,787.29	3,042.44	2,715.38	327.06	9.302 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.48	0.73	-80.08	80.08					
100.00	100.00	102.00	102.00	0.13	0.14	-89.48	0.73	-80.08	80.08	79.81	0.28	290.135	CC, ES	
200.00	199.98	201.98	201.98	0.49	0.50	-160.34	0.73	-80.08	81.73	80.73	0.99	82.403		
300.00	299.84	301.84	301.84	0.86	0.86	-161.47	0.73	-80.08	86.67	84.96	1.71	50.539		
400.00	399.45	401.45	401.45	1.23	1.22	-163.10	0.73	-80.08	94.98	92.54	2.44	38.918		
500.00	498.70	500.70	500.70	1.63	1.57	-164.94	0.73	-80.08	106.70	103.53	3.17	33.684		
600.00	597.47	600.53	599.47	2.05	1.93	-166.78	0.73	-80.08	121.88	117.98	3.90	31.251		
700.00	695.62	702.38	697.62	2.51	2.29	-168.48	0.73	-80.08	140.54	135.89	4.64	30.269		
800.00	793.06	804.94	795.06	3.00	2.66	-169.98	0.73	-80.08	162.66	157.26	5.39	30.167		
900.00	889.64	891.64	891.64	3.53	2.97	-171.27	0.73	-80.08	188.22	182.13	6.09	30.919		
1,000.00	985.27	993.90	993.89	4.12	3.34	-172.29	1.56	-78.79	215.84	209.00	6.84	31.561		
1,100.00	1,079.82	1,097.75	1,097.60	4.75	3.70	-172.87	4.43	-74.35	243.60	236.00	7.60	32.055		
1,200.00	1,173.17	1,202.66	1,202.10	5.44	4.08	-173.14	9.38	-66.66	271.42	263.05	8.37	32.421		
1,300.00	1,265.21	1,308.65	1,307.27	6.18	4.47	-173.18	16.49	-55.63	299.24	290.09	9.16	32.681		
1,400.00	1,355.84	1,415.73	1,412.95	6.99	4.88	-173.03	25.81	-41.17	327.03	317.07	9.96	32.840		
1,500.00	1,444.94	1,523.92	1,519.00	7.87	5.33	-172.75	37.40	-23.20	354.75	343.98	10.77	32.929		
1,600.00	1,532.39	1,633.22	1,625.24	8.80	5.80	-172.36	51.29	-1.65	382.38	370.77	11.61	32.932		
1,700.00	1,618.11	1,743.65	1,731.51	9.81	6.33	-171.87	67.55	23.57	409.89	397.41	12.47	32.863		
1,800.00	1,701.97	1,855.21	1,837.61	10.89	6.91	-171.29	86.22	52.53	437.25	423.88	13.36	32.721		
1,900.00	1,783.88	1,967.92	1,943.36	12.04	7.55	-170.65	107.34	85.29	464.43	450.15	14.29	32.507		
2,000.00	1,863.74	2,081.77	2,048.54	13.26	8.26	-169.95	130.94	121.90	491.43	476.18	15.25	32.220		
2,100.00	1,941.45	2,196.77	2,152.94	14.55	9.05	-169.19	157.06	162.42	518.21	501.94	16.27	31.858		
2,200.00	2,016.92	2,312.92	2,256.33	15.92	9.93	-168.38	185.73	206.88	544.75	527.41	17.34	31.416		
2,292.11	2,084.36	2,420.92	2,350.47	17.25	10.83	-167.60	214.40	251.35	568.97	550.58	18.39	30.941		
2,300.00	2,090.06	2,430.22	2,358.49	17.36	10.91	-167.54	216.96	255.32	571.03	552.54	18.48	30.893		
2,400.00	2,162.18	2,549.19	2,459.60	18.84	11.98	-166.71	250.92	308.00	595.12	575.41	19.70	30.204		
2,500.00	2,234.31	2,648.29	2,542.55	20.33	12.94	-165.98	280.30	353.57	617.16	596.19	20.97	29.424		
2,600.00	2,306.43	2,745.55	2,623.96	21.83	13.90	-165.31	309.14	398.30	639.28	617.00	22.28	28.691		
2,700.00	2,378.56	2,842.81	2,705.36	23.33	14.88	-164.69	337.98	443.04	661.48	637.86	23.62	28.002		
2,800.00	2,450.68	2,940.08	2,786.77	24.84	15.87	-164.11	366.82	487.77	683.75	658.75	24.99	27.356		
2,900.00	2,522.81	3,037.34	2,868.17	26.36	16.87	-163.57	395.66	532.51	706.07	679.68	26.39	26.751		
3,000.00	2,594.93	3,134.60	2,949.58	27.88	17.88	-163.06	424.50	577.24	728.46	700.64	27.82	26.186		
3,100.00	2,667.06	3,231.86	3,030.98	29.40	18.89	-162.58	453.34	621.98	750.90	721.63	29.27	25.657		
3,200.00	2,739.18	3,329.12	3,112.39	30.92	19.92	-162.12	482.18	666.71	773.38	742.65	30.74	25.162		
3,300.00	2,811.31	3,426.39	3,193.79	32.45	20.95	-161.70	511.02	711.45	795.91	763.69	32.22	24.699		
3,400.00	2,883.43	3,523.65	3,275.20	33.98	21.98	-161.29	539.86	756.18	818.48	784.75	33.73	24.265		
3,500.00	2,955.56	3,620.91	3,356.61	35.51	23.02	-160.91	568.70	800.92	841.08	805.83	35.25	23.859		
3,600.00	3,027.68	3,718.17	3,438.01	37.04	24.06	-160.55	597.54	845.65	863.72	826.93	36.79	23.478		
3,700.00	3,099.81	3,815.43	3,519.42	38.57	25.11	-160.20	626.38	890.39	886.39	848.05	38.34	23.120		
3,800.00	3,171.93	3,912.70	3,600.82	40.11	26.15	-159.88	655.22	935.13	909.09	869.19	39.90	22.784		
3,900.00	3,244.06	4,009.96	3,682.23	41.64	27.20	-159.57	684.06	979.86	931.82	890.34	41.47	22.468		
4,000.00	3,316.18	4,107.22	3,763.63	43.18	28.26	-159.27	712.90	1,024.60	954.57	911.51	43.06	22.170		
4,100.00	3,388.31	4,204.48	3,845.04	44.71	29.31	-158.99	741.74	1,069.33	977.34	932.69	44.65	21.889		
4,200.00	3,460.43	4,301.74	3,926.44	46.25	30.37	-158.72	770.58	1,114.07	1,000.13	953.88	46.25	21.623		
4,300.00	3,532.56	4,399.00	4,007.85	47.79	31.43	-158.46	799.42	1,158.80	1,022.95	975.09	47.86	21.372		
4,400.00	3,604.68	4,503.73	4,089.26	49.33	32.57	-158.21	828.26	1,203.54	1,045.78	996.25	49.54	21.112		
4,500.00	3,676.81	4,593.53	4,170.66	50.87	33.54	-157.98	857.10	1,248.27	1,068.63	1,017.53	51.11	20.909		
4,600.00	3,748.93	4,709.21	4,252.07	52.41	34.81	-157.75	885.94	1,293.01	1,091.50	1,038.63	52.87	20.643		
4,700.00	3,821.06	4,788.05	4,333.47	53.95	35.67	-157.54	914.78	1,337.74	1,114.38	1,060.01	54.38	20.493		
4,800.00	3,893.18	4,885.31	4,414.88	55.49	36.73	-157.33	943.62	1,382.48	1,137.28	1,081.26	56.02	20.300		
4,900.00	3,965.31	4,982.58	4,496.28	57.03	37.80	-157.13	972.46	1,427.21	1,160.19	1,102.52	57.67	20.117		
5,000.00	4,037.43	5,079.84	4,577.69	58.58	38.86	-156.94	1,001.30	1,471.95	1,183.12	1,123.79	59.33	19.942		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,177.10	4,659.09	60.12	39.93	-156.75	1,030.14	1,516.68	1,206.05	1,145.07	60.99	19.775		
5,200.00	4,181.68	5,274.36	4,740.50	61.66	40.99	-156.57	1,058.98	1,561.42	1,229.00	1,166.35	62.65	19.616		
5,300.00	4,253.81	5,371.62	4,821.91	63.20	42.06	-156.40	1,087.82	1,606.15	1,251.96	1,187.64	64.32	19.464		
5,400.00	4,325.93	5,468.89	4,903.31	64.75	43.13	-156.24	1,116.66	1,650.89	1,274.93	1,208.93	65.99	19.319		
5,500.00	4,398.06	5,566.15	4,984.72	66.29	44.20	-156.08	1,145.50	1,695.63	1,297.91	1,230.24	67.67	19.180		
5,600.00	4,470.18	5,663.41	5,066.12	67.84	45.27	-155.93	1,174.34	1,740.36	1,320.89	1,251.54	69.35	19.047		
5,700.00	4,542.31	5,760.67	5,147.53	69.38	46.34	-155.78	1,203.18	1,785.10	1,343.89	1,272.86	71.03	18.919		
5,800.00	4,614.43	5,857.93	5,228.93	70.92	47.41	-155.63	1,232.02	1,829.83	1,366.89	1,294.18	72.72	18.797		
5,900.00	4,686.56	5,955.19	5,310.34	72.47	48.48	-155.49	1,260.86	1,874.57	1,389.91	1,315.50	74.41	18.679		
6,000.00	4,758.68	6,052.46	5,391.74	74.01	49.55	-155.36	1,289.71	1,919.30	1,412.93	1,336.83	76.10	18.567		
6,100.00	4,830.81	6,149.72	5,473.15	75.56	50.62	-155.23	1,318.55	1,964.04	1,435.95	1,358.16	77.80	18.458		
6,200.00	4,902.93	6,246.98	5,554.56	77.10	51.69	-155.10	1,347.39	2,008.77	1,458.99	1,379.49	79.49	18.354		
6,300.00	4,975.06	6,344.24	5,635.96	78.65	52.76	-154.98	1,376.23	2,053.51	1,482.03	1,400.83	81.19	18.253		
6,400.00	5,047.18	6,441.50	5,717.37	80.19	53.83	-154.86	1,405.07	2,098.24	1,505.07	1,422.18	82.90	18.156		
6,500.00	5,119.31	6,538.77	5,798.77	81.74	54.91	-154.75	1,433.91	2,142.98	1,528.13	1,443.53	84.60	18.063		
6,600.00	5,191.43	6,636.03	5,880.18	83.28	55.98	-154.64	1,462.75	2,187.71	1,551.18	1,464.88	86.31	17.973		
6,700.00	5,263.56	6,733.29	5,961.58	84.83	57.05	-154.53	1,491.59	2,232.45	1,574.25	1,486.23	88.01	17.886		
6,800.00	5,335.68	6,830.55	6,042.99	86.37	58.12	-154.43	1,520.43	2,277.18	1,597.32	1,507.59	89.72	17.802		
6,900.00	5,407.81	6,927.81	6,124.39	87.92	59.20	-154.32	1,549.27	2,321.92	1,620.39	1,528.95	91.44	17.721		
7,000.00	5,479.93	7,025.08	6,205.80	89.47	60.27	-154.23	1,578.11	2,366.65	1,643.47	1,550.32	93.15	17.643		
7,100.00	5,552.06	7,122.34	6,287.21	91.01	61.34	-154.13	1,606.95	2,411.39	1,666.55	1,571.68	94.87	17.567		
7,200.00	5,624.18	7,219.60	6,368.61	92.56	62.42	-154.04	1,635.79	2,456.13	1,689.64	1,593.05	96.58	17.494		
7,300.00	5,696.31	7,316.86	6,450.02	94.10	63.49	-153.94	1,664.63	2,500.86	1,712.73	1,614.42	98.30	17.423		
7,400.00	5,768.43	7,414.12	6,531.42	95.65	64.57	-153.86	1,693.47	2,545.60	1,735.82	1,635.80	100.02	17.354		
7,500.00	5,840.56	7,511.38	6,612.83	97.20	65.64	-153.77	1,722.31	2,590.33	1,758.92	1,657.18	101.74	17.288		
7,600.00	5,912.68	7,608.65	6,694.23	98.74	66.72	-153.68	1,751.15	2,635.07	1,782.02	1,678.56	103.47	17.223		
7,700.00	5,984.81	7,705.91	6,775.64	100.29	67.79	-153.60	1,779.99	2,679.80	1,805.13	1,699.94	105.19	17.160		
7,800.00	6,056.93	7,803.17	6,857.04	101.84	68.86	-153.52	1,808.83	2,724.54	1,828.24	1,721.32	106.92	17.100		
7,900.00	6,129.06	7,900.43	6,938.45	103.38	69.94	-153.45	1,837.67	2,769.27	1,851.35	1,742.71	108.64	17.041		
8,000.00	6,201.18	8,058.94	7,073.87	104.93	71.59	-153.75	1,871.25	2,843.64	1,873.40	1,763.07	110.33	16.980		
8,100.00	6,273.31	8,230.45	7,223.36	106.48	72.93	-155.49	1,859.62	2,925.57	1,891.51	1,782.47	109.04	17.348		
8,200.00	6,345.43	8,363.52	7,333.41	108.02	73.56	-157.76	1,816.10	2,985.77	1,907.67	1,801.45	106.22	17.960		
8,300.00	6,417.56	8,460.02	7,406.22	109.57	73.80	-159.84	1,767.03	3,025.52	1,924.39	1,820.85	103.54	18.585		
8,400.00	6,489.68	8,529.53	7,453.68	111.12	73.86	-161.51	1,723.39	3,051.40	1,943.39	1,841.95	101.44	19.158		
8,500.00	6,561.81	8,580.61	7,485.42	112.66	73.85	-162.83	1,687.32	3,068.69	1,965.64	1,865.82	99.82	19.692		
8,600.00	6,633.93	8,619.16	7,507.45	114.21	73.82	-163.86	1,658.04	3,080.66	1,991.61	1,893.10	98.51	20.217		
8,700.00	6,706.06	8,650.00	7,523.80	115.76	73.79	-164.70	1,633.46	3,089.54	2,021.50	1,924.16	97.34	20.767		
8,800.00	6,778.18	8,672.76	7,535.11	117.30	73.75	-165.33	1,614.68	3,095.68	2,055.35	1,959.03	96.32	21.339		
8,900.00	6,850.31	8,691.99	7,544.14	118.85	73.71	-165.87	1,598.44	3,100.58	2,093.10	1,997.81	95.30	21.964		
9,000.00	6,922.43	8,700.00	7,547.77	120.40	73.70	-166.10	1,591.57	3,102.55	2,134.66	2,040.13	94.53	22.581		
9,100.00	6,994.56	8,721.14	7,556.93	121.95	73.64	-166.70	1,573.17	3,107.51	2,179.79	2,086.56	93.23	23.381		
9,200.00	7,066.68	8,732.43	7,561.57	123.49	73.62	-167.03	1,563.19	3,110.02	2,228.38	2,136.21	92.17	24.177		
9,300.00	7,138.81	8,750.00	7,568.45	125.04	73.58	-167.53	1,547.46	3,113.74	2,280.25	2,189.40	90.85	25.100		
9,392.50	7,205.52	8,750.00	7,568.45	126.47	73.58	-167.53	1,547.46	3,113.74	2,330.88	2,240.81	90.07	25.879		
9,400.00	7,210.94	8,750.00	7,568.45	126.59	73.58	-168.80	1,547.46	3,113.74	2,335.10	2,245.10	90.00	25.944		
9,450.00	7,247.42	8,750.00	7,568.45	127.35	73.58	-177.48	1,547.46	3,113.74	2,363.50	2,273.88	89.62	26.372		
9,500.00	7,284.35	8,750.00	7,568.45	128.10	73.58	173.60	1,547.46	3,113.74	2,392.24	2,302.92	89.32	26.782		
9,550.00	7,321.43	8,768.80	7,575.35	128.83	73.52	164.15	1,530.37	3,117.46	2,420.90	2,332.34	88.56	27.337		
9,600.00	7,358.38	8,777.03	7,578.21	129.52	73.50	155.14	1,522.81	3,119.01	2,449.42	2,361.24	88.18	27.777		
9,650.00	7,394.93	8,800.00	7,585.69	130.16	73.43	146.17	1,501.47	3,123.04	2,477.61	2,390.15	87.46	28.329		
9,700.00	7,430.79	8,800.00	7,585.69	130.76	73.43	138.20	1,501.47	3,123.04	2,504.92	2,417.44	87.48	28.633		
9,750.00	7,465.70	8,800.00	7,585.69	131.30	73.43	130.80	1,501.47	3,123.04	2,531.46	2,443.86	87.60	28.898		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,817.90	7,591.00	131.78	73.37	123.76	1,484.62	3,125.89	2,556.87	2,469.60	87.27	29.300		
9,850.00	7,531.58	8,829.68	7,594.24	132.21	73.33	117.53	1,473.43	3,127.63	2,581.02	2,493.82	87.20	29.599		
9,900.00	7,562.06	8,850.00	7,599.35	132.57	73.26	111.91	1,453.96	3,130.36	2,603.76	2,516.81	86.95	29.946		
9,950.00	7,590.58	8,850.00	7,599.35	132.87	73.26	107.17	1,453.96	3,130.36	2,624.80	2,537.35	87.45	30.015		
10,000.00	7,616.93	8,867.68	7,603.30	133.11	73.19	102.90	1,436.86	3,132.47	2,644.10	2,556.63	87.47	30.229		
10,050.00	7,640.90	8,881.05	7,605.99	133.29	73.14	99.26	1,423.83	3,133.90	2,661.51	2,573.78	87.72	30.339		
10,100.00	7,662.32	8,900.00	7,609.33	133.42	73.07	96.15	1,405.27	3,135.67	2,676.92	2,589.04	87.88	30.462		
10,150.00	7,681.01	8,900.00	7,609.33	133.50	73.07	93.65	1,405.27	3,135.67	2,690.22	2,601.39	88.83	30.283		
10,200.00	7,696.85	8,922.65	7,612.62	133.52	72.98	91.54	1,382.92	3,137.40	2,701.25	2,612.20	89.05	30.335		
10,250.00	7,709.70	8,950.00	7,615.55	133.51	72.87	89.89	1,355.78	3,138.91	2,710.16	2,621.00	89.15	30.399		
10,300.00	7,719.47	8,950.00	7,615.55	133.46	72.87	88.74	1,355.78	3,138.91	2,716.52	2,626.06	90.45	30.032		
10,350.00	7,726.09	8,950.00	7,615.55	133.37	72.87	87.98	1,355.78	3,138.91	2,720.77	2,628.88	91.89	29.608		
10,400.00	7,729.50	8,980.06	7,617.46	133.26	72.74	87.62	1,325.80	3,139.86	2,722.32	2,630.18	92.14	29.545		
10,427.79	7,730.00	9,000.00	7,617.97	133.18	72.65	87.60	1,305.86	3,140.07	2,722.32	2,630.16	92.16	29.539		
10,482.46	7,730.00	9,015.94	7,618.00	133.03	72.58	87.60	1,308.60	3,140.10	2,721.70	2,627.71	93.98	28.959		
10,500.00	7,730.00	9,014.81	7,618.00	132.98	72.58	87.60	1,291.06	3,140.04	2,721.70	2,627.81	93.89	28.989		
10,600.00	7,730.00	9,114.81	7,618.00	132.72	72.15	87.60	1,191.06	3,139.70	2,721.70	2,628.92	92.78	29.334		
10,700.00	7,730.00	9,214.81	7,618.00	132.47	71.74	87.60	1,091.06	3,139.36	2,721.70	2,629.90	91.80	29.647		
10,800.00	7,730.00	9,314.81	7,618.00	132.22	71.35	87.60	991.06	3,139.02	2,721.70	2,630.75	90.95	29.926		
10,900.00	7,730.00	9,414.81	7,618.00	131.99	70.98	87.60	891.06	3,138.68	2,721.70	2,631.48	90.22	30.166		
11,000.00	7,730.00	9,514.81	7,618.00	131.77	70.63	87.60	791.06	3,138.34	2,721.71	2,632.07	89.64	30.364		
11,100.00	7,730.00	9,614.81	7,618.00	131.56	70.30	87.60	691.06	3,138.00	2,721.71	2,632.52	89.19	30.517		
11,200.00	7,730.00	9,714.81	7,618.00	131.36	69.99	87.60	591.06	3,137.66	2,721.71	2,632.83	88.87	30.624		
11,300.00	7,730.00	9,814.81	7,618.00	131.17	69.71	87.60	491.06	3,137.32	2,721.71	2,633.01	88.70	30.683		
11,400.00	7,730.00	9,914.81	7,618.00	130.99	69.44	87.60	391.06	3,136.98	2,721.71	2,633.04	88.67	30.693		
11,500.00	7,730.00	10,014.81	7,618.00	130.82	69.19	87.60	291.06	3,136.64	2,721.71	2,632.92	88.79	30.654		
11,600.00	7,730.00	10,114.81	7,618.00	130.66	68.96	87.60	191.06	3,136.30	2,721.71	2,632.67	89.04	30.567		
11,700.00	7,730.00	10,214.81	7,618.00	130.51	68.75	87.60	91.06	3,135.96	2,721.71	2,632.28	89.44	30.432		
11,800.00	7,730.00	10,314.81	7,618.00	130.37	68.56	87.60	-8.93	3,135.62	2,721.72	2,631.75	89.97	30.252		
11,900.00	7,730.00	10,414.81	7,618.00	130.24	68.40	87.60	-108.93	3,135.28	2,721.72	2,631.08	90.63	30.030		
12,000.00	7,730.00	10,514.81	7,618.00	130.13	68.26	87.60	-208.93	3,134.95	2,721.72	2,630.28	91.43	29.767		
12,100.00	7,730.00	10,614.81	7,618.00	130.02	68.14	87.60	-308.93	3,134.61	2,721.72	2,629.36	92.36	29.468		
12,200.00	7,730.00	10,714.81	7,618.00	129.93	68.05	87.60	-408.93	3,134.27	2,721.72	2,628.31	93.41	29.136		
12,300.00	7,730.00	10,814.81	7,618.00	129.85	67.98	87.60	-508.93	3,133.93	2,721.72	2,627.14	94.59	28.775		
12,400.00	7,730.00	10,914.81	7,618.00	129.77	67.95	87.60	-608.93	3,133.59	2,721.72	2,625.85	95.88	28.388		
12,500.00	7,730.00	11,014.81	7,618.00	129.71	67.95	87.60	-708.93	3,133.25	2,721.73	2,624.45	97.28	27.979		
12,600.00	7,730.00	11,114.81	7,618.00	129.66	67.98	87.60	-808.93	3,132.91	2,721.73	2,622.94	98.78	27.553		
12,700.00	7,730.00	11,214.81	7,618.00	129.63	68.05	87.60	-908.93	3,132.57	2,721.73	2,621.34	100.39	27.111		
12,800.00	7,730.00	11,314.81	7,618.00	129.60	68.16	87.60	-1,008.93	3,132.23	2,721.73	2,619.63	102.10	26.659		
12,900.00	7,730.00	11,414.81	7,618.00	129.59	68.32	87.60	-1,108.93	3,131.89	2,721.73	2,617.84	103.89	26.198		
13,000.00	7,730.00	11,514.81	7,618.00	129.59	68.53	87.60	-1,208.93	3,131.55	2,721.73	2,615.96	105.78	25.731		
13,100.00	7,730.00	11,614.81	7,618.00	129.60	68.79	87.60	-1,308.93	3,131.21	2,721.73	2,613.99	107.74	25.262		
13,200.00	7,730.00	11,714.81	7,618.00	129.63	69.11	87.60	-1,408.93	3,130.87	2,721.74	2,611.95	109.79	24.791		
13,300.00	7,730.00	11,814.81	7,618.00	129.66	69.50	87.60	-1,508.93	3,130.53	2,721.74	2,609.83	111.90	24.322		
13,400.00	7,730.00	11,914.81	7,618.00	129.72	69.95	87.60	-1,608.93	3,130.19	2,721.74	2,607.65	114.09	23.856		
13,500.00	7,730.00	12,014.81	7,618.00	129.78	70.47	87.60	-1,708.92	3,129.85	2,721.74	2,605.39	116.34	23.394		
13,600.00	7,730.00	12,114.81	7,618.00	129.86	71.06	87.60	-1,808.92	3,129.51	2,721.74	2,603.08	118.66	22.937		
13,700.00	7,730.00	12,214.81	7,618.00	129.96	71.73	87.60	-1,908.92	3,129.17	2,721.74	2,600.71	121.03	22.487		
13,800.00	7,730.00	12,314.81	7,618.00	130.07	72.47	87.60	-2,008.92	3,128.83	2,721.74	2,598.28	123.46	22.045		
13,900.00	7,730.00	12,414.81	7,618.00	130.19	73.27	87.60	-2,108.92	3,128.50	2,721.74	2,595.80	125.94	21.611		
14,000.00	7,730.00	12,514.81	7,618.00	130.33	74.14	87.60	-2,208.92	3,128.16	2,721.75	2,593.27	128.47	21.185		
14,100.00	7,730.00	12,614.81	7,618.00	130.49	75.07	87.60	-2,308.92	3,127.82	2,721.75	2,590.70	131.05	20.769		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	12,714.81	7,618.00	130.67	76.06	87.60	-2,408.92	3,127.48	2,721.75	2,588.08	133.67	20.362		
14,300.00	7,730.00	12,814.81	7,618.00	130.86	77.11	87.60	-2,508.92	3,127.14	2,721.75	2,585.42	136.33	19.965		
14,400.00	7,730.00	12,914.81	7,618.00	131.07	78.20	87.60	-2,608.92	3,126.80	2,721.75	2,582.72	139.03	19.577		
14,500.00	7,730.00	13,014.81	7,618.00	131.30	79.34	87.60	-2,708.92	3,126.46	2,721.75	2,579.99	141.76	19.199		
14,600.00	7,730.00	13,114.81	7,618.00	131.55	80.51	87.60	-2,808.92	3,126.12	2,721.75	2,577.22	144.53	18.831		
14,700.00	7,730.00	13,214.81	7,618.00	131.82	81.72	87.60	-2,908.92	3,125.78	2,721.76	2,574.42	147.33	18.473		
14,800.00	7,730.00	13,314.81	7,618.00	132.11	82.97	87.60	-3,008.92	3,125.44	2,721.76	2,571.59	150.17	18.125		
14,900.00	7,730.00	13,414.81	7,618.00	132.42	84.24	87.60	-3,108.92	3,125.10	2,721.76	2,568.73	153.03	17.786		
15,000.00	7,730.00	13,514.81	7,618.00	132.75	85.54	87.60	-3,208.92	3,124.76	2,721.76	2,565.84	155.92	17.456		
15,100.00	7,730.00	13,614.81	7,618.00	133.10	86.87	87.60	-3,308.92	3,124.42	2,721.76	2,562.93	158.83	17.136		
15,200.00	7,730.00	13,714.81	7,618.00	133.48	88.22	87.60	-3,408.92	3,124.08	2,721.76	2,559.99	161.77	16.825		
15,300.00	7,730.00	13,814.81	7,618.00	133.88	89.59	87.60	-3,508.91	3,123.74	2,721.76	2,557.03	164.73	16.522		
15,400.00	7,730.00	13,914.81	7,618.00	134.31	90.98	87.60	-3,608.91	3,123.40	2,721.77	2,554.05	167.72	16.228		
15,500.00	7,730.00	14,014.81	7,618.00	134.76	92.38	87.60	-3,708.91	3,123.06	2,721.77	2,551.04	170.72	15.943		
15,600.00	7,730.00	14,114.81	7,618.00	135.23	93.80	87.60	-3,808.91	3,122.72	2,721.77	2,548.02	173.75	15.665		
15,700.00	7,730.00	14,214.81	7,618.00	135.73	95.24	87.60	-3,908.91	3,122.38	2,721.77	2,544.98	176.79	15.395		
15,800.00	7,730.00	14,314.81	7,618.00	136.26	96.69	87.60	-4,008.91	3,122.05	2,721.77	2,541.92	179.85	15.133		
15,900.00	7,730.00	14,414.81	7,618.00	136.81	98.15	87.60	-4,108.91	3,121.71	2,721.77	2,538.84	182.93	14.879		
16,000.00	7,730.00	14,514.81	7,618.00	137.39	99.62	87.60	-4,208.91	3,121.37	2,721.77	2,535.75	186.03	14.631		
16,100.00	7,730.00	14,614.81	7,618.00	138.00	101.11	87.60	-4,308.91	3,121.03	2,721.77	2,532.64	189.13	14.391		
16,200.00	7,730.00	14,714.81	7,618.00	138.63	102.61	87.60	-4,408.91	3,120.69	2,721.78	2,529.52	192.26	14.157		
16,300.00	7,730.00	14,814.81	7,618.00	139.30	104.11	87.60	-4,508.91	3,120.35	2,721.78	2,526.38	195.40	13.929		
16,400.00	7,730.00	14,914.81	7,618.00	139.99	105.63	87.60	-4,608.91	3,120.01	2,721.78	2,523.23	198.55	13.708		
16,500.00	7,730.00	15,014.81	7,618.00	140.70	107.15	87.60	-4,708.91	3,119.67	2,721.78	2,520.07	201.71	13.493		
16,600.00	7,730.00	15,114.81	7,618.00	141.45	108.68	87.60	-4,808.91	3,119.33	2,721.78	2,516.89	204.89	13.284		
16,700.00	7,730.00	15,214.81	7,618.00	142.22	110.22	87.60	-4,908.91	3,118.99	2,721.78	2,513.71	208.08	13.081		
16,800.00	7,730.00	15,314.81	7,618.00	143.03	111.77	87.60	-5,008.91	3,118.65	2,721.78	2,510.51	211.27	12.883		
16,900.00	7,730.00	15,414.81	7,618.00	143.86	113.32	87.60	-5,108.91	3,118.31	2,721.79	2,507.30	214.48	12.690		
17,000.00	7,730.00	15,514.81	7,618.00	144.71	114.88	87.60	-5,208.90	3,117.97	2,721.79	2,504.09	217.70	12.502		
17,100.00	7,730.00	15,614.81	7,618.00	145.60	116.44	87.60	-5,308.90	3,117.63	2,721.79	2,500.86	220.93	12.320		
17,200.00	7,730.00	15,714.81	7,618.00	146.51	118.02	87.60	-5,408.90	3,117.29	2,721.79	2,497.62	224.17	12.142		
17,300.00	7,730.00	15,814.81	7,618.00	147.44	119.59	87.60	-5,508.90	3,116.95	2,721.79	2,494.38	227.41	11.969		
17,400.00	7,730.00	15,914.81	7,618.00	148.40	121.18	87.60	-5,608.90	3,116.61	2,721.79	2,491.13	230.67	11.800		
17,500.00	7,730.00	16,014.81	7,618.00	149.39	122.76	87.60	-5,708.90	3,116.27	2,721.79	2,487.87	233.93	11.635		
17,600.00	7,730.00	16,114.81	7,618.00	150.40	124.36	87.60	-5,808.90	3,115.94	2,721.80	2,484.60	237.20	11.475		
17,700.00	7,730.00	16,214.81	7,618.00	151.44	125.96	87.60	-5,908.90	3,115.60	2,721.80	2,481.32	240.48	11.318		
17,800.00	7,730.00	16,314.81	7,618.00	152.50	127.56	87.60	-6,008.90	3,115.26	2,721.80	2,478.04	243.76	11.166		
17,900.00	7,730.00	16,414.81	7,618.00	153.58	129.16	87.60	-6,108.90	3,114.92	2,721.80	2,474.75	247.05	11.017		
18,000.00	7,730.00	16,514.81	7,618.00	154.68	130.77	87.60	-6,208.90	3,114.58	2,721.80	2,471.45	250.35	10.872		
18,100.00	7,730.00	16,614.81	7,618.00	155.80	132.39	87.60	-6,308.90	3,114.24	2,721.80	2,468.15	253.65	10.730		
18,200.00	7,730.00	16,714.81	7,618.00	156.95	134.01	87.60	-6,408.90	3,113.90	2,721.80	2,464.84	256.96	10.592		
18,300.00	7,730.00	16,814.81	7,618.00	158.11	135.63	87.60	-6,508.90	3,113.56	2,721.80	2,461.52	260.28	10.457		
18,400.00	7,730.00	16,914.81	7,618.00	159.30	137.26	87.60	-6,608.90	3,113.22	2,721.81	2,458.20	263.60	10.325		
18,500.00	7,730.00	17,014.81	7,618.00	160.50	138.88	87.60	-6,708.90	3,112.88	2,721.81	2,454.88	266.93	10.197		
18,600.00	7,730.00	17,114.81	7,618.00	161.72	140.52	87.60	-6,808.90	3,112.54	2,721.81	2,451.55	270.26	10.071		
18,700.00	7,730.00	17,214.81	7,618.00	162.96	142.15	87.60	-6,908.90	3,112.20	2,721.81	2,448.21	273.60	9.948		
18,800.00	7,730.00	17,314.81	7,618.00	164.21	143.79	87.60	-7,008.89	3,111.86	2,721.81	2,444.87	276.94	9.828		
18,900.00	7,730.00	17,414.81	7,618.00	165.48	145.43	87.60	-7,108.89	3,111.52	2,721.81	2,441.52	280.29	9.711		
19,000.00	7,730.00	17,514.81	7,618.00	166.76	147.08	87.60	-7,208.89	3,111.18	2,721.81	2,438.17	283.64	9.596		
19,100.00	7,730.00	17,614.81	7,618.00	168.06	148.72	87.60	-7,308.89	3,110.84	2,721.82	2,434.82	286.99	9.484		
19,200.00	7,730.00	17,714.81	7,618.00	169.38	150.37	87.60	-7,408.89	3,110.50	2,721.82	2,431.46	290.35	9.374		
19,300.00	7,730.00	17,814.81	7,618.00	170.70	152.02	87.60	-7,508.89	3,110.16	2,721.82	2,428.10	293.72	9.267		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	17,914.81	7,618.00	172.04	153.68	87.60	-7,608.89	3,109.82	2,721.82	2,424.73	297.09	9.162	
19,500.00	7,730.00	18,014.81	7,618.00	173.40	155.34	87.60	-7,708.89	3,109.49	2,721.82	2,421.36	300.46	9.059	
19,600.00	7,730.00	18,114.81	7,618.00	174.76	157.00	87.60	-7,808.89	3,109.15	2,721.82	2,417.99	303.83	8.958	
19,700.00	7,730.00	18,214.81	7,618.00	176.14	158.66	87.60	-7,908.89	3,108.81	2,721.82	2,414.61	307.21	8.860	
19,800.00	7,730.00	18,314.81	7,618.00	177.52	160.32	87.60	-8,008.89	3,108.47	2,721.83	2,411.23	310.59	8.763	
19,900.00	7,730.00	18,414.81	7,618.00	178.92	161.99	87.60	-8,108.89	3,108.13	2,721.83	2,407.85	313.98	8.669	
20,000.00	7,730.00	18,514.81	7,618.00	180.33	163.65	87.60	-8,208.89	3,107.79	2,721.83	2,404.46	317.37	8.576	
20,100.00	7,730.00	18,614.81	7,618.00	181.75	165.32	87.60	-8,308.89	3,107.45	2,721.83	2,401.07	320.76	8.486	
20,184.95	7,730.00	18,700.24	7,618.00	182.96	166.75	87.60	-8,393.84	3,107.16	2,721.83	2,398.18	323.65	8.410 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-89.40	0.73	-70.00	70.00					
100.00	100.00	101.00	101.00	0.13	0.14	-89.40	0.73	-70.00	70.00	69.73	0.27	256.955	CC, ES	
200.00	199.98	200.98	200.98	0.49	0.50	-160.33	0.73	-70.00	71.65	70.66	0.99	72.501		
300.00	299.84	300.84	300.84	0.86	0.85	-161.61	0.73	-70.00	76.59	74.88	1.71	44.756		
400.00	399.45	400.45	400.45	1.23	1.21	-163.42	0.73	-70.00	84.91	82.47	2.44	34.844		
500.00	498.70	500.30	499.70	1.63	1.57	-165.42	0.73	-70.00	96.66	93.49	3.17	30.528		
600.00	597.47	601.53	598.47	2.05	1.93	-167.37	0.73	-70.00	111.87	107.97	3.90	28.660		
700.00	695.62	703.38	696.62	2.51	2.30	-169.13	0.73	-70.00	130.57	125.92	4.65	28.103		
800.00	793.06	794.06	794.06	3.00	2.62	-170.65	0.73	-70.00	152.73	147.38	5.35	28.537		
900.00	889.64	896.29	896.27	3.53	2.99	-171.82	1.55	-68.61	176.89	170.80	6.10	29.018		
1,000.00	985.27	999.75	999.59	4.12	3.35	-172.52	4.25	-64.00	201.16	194.31	6.85	29.379		
1,100.00	1,079.82	1,104.14	1,103.57	4.75	3.73	-172.87	8.89	-56.09	225.45	217.84	7.61	29.631		
1,200.00	1,173.17	1,209.47	1,208.08	5.44	4.12	-172.98	15.52	-44.81	249.73	241.35	8.38	29.792		
1,300.00	1,265.21	1,315.76	1,312.98	6.18	4.53	-172.90	24.17	-30.07	273.95	264.78	9.17	29.871		
1,400.00	1,355.84	1,423.00	1,418.10	6.99	4.97	-172.69	34.89	-11.81	298.09	288.12	9.97	29.889		
1,500.00	1,444.94	1,531.22	1,523.30	7.87	5.45	-172.35	47.71	10.04	322.11	311.32	10.80	29.839		
1,600.00	1,532.39	1,640.41	1,628.41	8.80	5.98	-171.93	62.69	35.55	346.00	334.36	11.64	29.729		
1,700.00	1,618.11	1,750.58	1,733.24	9.81	6.56	-171.42	79.84	64.76	369.73	357.22	12.51	29.561		
1,800.00	1,701.97	1,861.74	1,837.60	10.89	7.20	-170.85	99.20	97.74	393.27	379.86	13.41	29.334		
1,900.00	1,783.88	1,973.89	1,941.31	12.04	7.91	-170.22	120.79	134.53	416.61	402.26	14.34	29.048		
2,000.00	1,863.74	2,087.02	2,044.16	13.26	8.70	-169.54	144.64	175.15	439.72	424.40	15.32	28.704		
2,100.00	1,941.45	2,201.14	2,145.94	14.55	9.57	-168.81	170.76	219.65	462.58	446.23	16.35	28.299		
2,200.00	2,016.92	2,316.24	2,246.44	15.92	10.54	-168.04	199.16	268.03	485.18	467.74	17.43	27.829		
2,292.11	2,084.36	2,423.11	2,337.66	17.25	11.52	-167.29	227.34	316.04	505.74	487.24	18.50	27.343		
2,300.00	2,090.06	2,432.31	2,345.41	17.36	11.61	-167.23	229.84	320.31	507.48	488.88	18.59	27.295		
2,400.00	2,162.18	2,542.08	2,436.82	18.84	12.69	-166.49	260.61	372.71	527.83	508.00	19.82	26.627		
2,500.00	2,234.31	2,639.94	2,517.86	20.33	13.70	-165.85	288.37	420.02	547.54	526.43	21.11	25.943		
2,600.00	2,306.43	2,737.80	2,598.90	21.83	14.72	-165.25	316.14	467.32	567.31	544.89	22.42	25.301		
2,700.00	2,378.56	2,835.66	2,679.94	23.33	15.75	-164.69	343.91	514.63	587.14	563.37	23.77	24.700		
2,800.00	2,450.68	2,933.51	2,760.98	24.84	16.80	-164.17	371.68	561.93	607.01	581.87	25.15	24.138		
2,900.00	2,522.81	3,031.37	2,842.02	26.36	17.86	-163.68	399.45	609.24	626.94	600.39	26.55	23.614		
3,000.00	2,594.93	3,129.23	2,923.06	27.88	18.92	-163.23	427.22	656.54	646.90	618.93	27.97	23.125		
3,100.00	2,667.06	3,227.09	3,004.10	29.40	19.99	-162.79	454.98	703.85	666.90	637.48	29.42	22.669		
3,200.00	2,739.18	3,324.95	3,085.15	30.92	21.07	-162.39	482.75	751.15	686.94	656.06	30.88	22.243		
3,300.00	2,811.31	3,422.81	3,166.19	32.45	22.15	-162.01	510.52	798.46	707.01	674.64	32.37	21.844		
3,400.00	2,883.43	3,520.67	3,247.23	33.98	23.23	-161.64	538.29	845.76	727.10	693.24	33.86	21.472		
3,500.00	2,955.56	3,618.53	3,328.27	35.51	24.32	-161.30	566.06	893.06	747.23	711.85	35.37	21.123		
3,600.00	3,027.68	3,716.39	3,409.31	37.04	25.42	-160.98	593.83	940.37	767.37	730.47	36.90	20.796		
3,700.00	3,099.81	3,814.25	3,490.35	38.57	26.51	-160.67	621.59	987.67	787.54	749.10	38.44	20.489		
3,800.00	3,171.93	3,912.11	3,571.39	40.11	27.61	-160.38	649.36	1,034.98	807.73	767.75	39.98	20.201		
3,900.00	3,244.06	4,009.97	3,652.43	41.64	28.71	-160.10	677.13	1,082.28	827.94	786.40	41.54	19.930		
4,000.00	3,316.18	4,107.83	3,733.47	43.18	29.81	-159.83	704.90	1,129.59	848.17	805.06	43.11	19.674		
4,100.00	3,388.31	4,205.69	3,814.51	44.71	30.91	-159.58	732.67	1,176.89	868.41	823.72	44.69	19.433		
4,200.00	3,460.43	4,303.55	3,895.56	46.25	32.02	-159.34	760.43	1,224.20	888.67	842.40	46.27	19.205		
4,300.00	3,532.56	4,401.40	3,976.60	47.79	33.12	-159.11	788.20	1,271.50	908.94	861.08	47.86	18.990		
4,400.00	3,604.68	4,500.74	4,057.64	49.33	34.25	-158.89	815.97	1,318.81	929.23	879.76	49.47	18.782		
4,500.00	3,676.81	4,602.88	4,138.68	50.87	35.40	-158.68	843.74	1,366.11	949.53	898.42	51.11	18.578		
4,600.00	3,748.93	4,694.98	4,219.72	52.41	36.45	-158.48	871.51	1,413.42	969.84	917.16	52.68	18.410		
4,700.00	3,821.06	4,807.16	4,300.76	53.95	37.72	-158.28	899.28	1,460.72	990.16	935.76	54.40	18.201		
4,800.00	3,893.18	4,890.70	4,381.80	55.49	38.67	-158.10	927.04	1,508.02	1,010.50	954.57	55.92	18.070		
4,900.00	3,965.31	4,988.56	4,462.84	57.03	39.78	-157.92	954.81	1,555.33	1,030.84	973.29	57.55	17.912		
5,000.00	4,037.43	5,086.42	4,543.88	58.58	40.89	-157.75	982.58	1,602.63	1,051.19	992.01	59.18	17.762		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,184.28	4,624.92	60.12	42.01	-157.58	1,010.35	1,649.94	1,071.55	1,010.73	60.82	17.619		
5,200.00	4,181.68	5,282.14	4,705.97	61.66	43.12	-157.42	1,038.12	1,697.24	1,091.92	1,029.46	62.46	17.482		
5,300.00	4,253.81	5,380.00	4,787.01	63.20	44.23	-157.27	1,065.89	1,744.55	1,112.30	1,048.19	64.10	17.352		
5,400.00	4,325.93	5,477.86	4,868.05	64.75	45.35	-157.12	1,093.65	1,791.85	1,132.68	1,066.93	65.75	17.227		
5,500.00	4,398.06	5,575.72	4,949.09	66.29	46.46	-156.98	1,121.42	1,839.16	1,153.07	1,085.67	67.40	17.107		
5,600.00	4,470.18	5,673.58	5,030.13	67.84	47.58	-156.84	1,149.19	1,886.46	1,173.47	1,104.41	69.06	16.992		
5,700.00	4,542.31	5,771.44	5,111.17	69.38	48.70	-156.71	1,176.96	1,933.77	1,193.87	1,123.16	70.72	16.882		
5,800.00	4,614.43	5,869.29	5,192.21	70.92	49.81	-156.58	1,204.73	1,981.07	1,214.28	1,141.91	72.38	16.777		
5,900.00	4,686.56	5,967.15	5,273.25	72.47	50.93	-156.46	1,232.49	2,028.38	1,234.70	1,160.66	74.04	16.676		
6,000.00	4,758.68	6,065.01	5,354.29	74.01	52.05	-156.34	1,260.26	2,075.68	1,255.12	1,179.41	75.71	16.578		
6,100.00	4,830.81	6,162.87	5,435.34	75.56	53.16	-156.22	1,288.03	2,122.98	1,275.55	1,198.17	77.38	16.485		
6,200.00	4,902.93	6,260.73	5,516.38	77.10	54.28	-156.11	1,315.80	2,170.29	1,295.98	1,216.93	79.05	16.395		
6,300.00	4,975.06	6,358.59	5,597.42	78.65	55.40	-156.00	1,343.57	2,217.59	1,316.41	1,235.69	80.72	16.308		
6,400.00	5,047.18	6,456.45	5,678.46	80.19	56.52	-155.89	1,371.34	2,264.90	1,336.85	1,254.46	82.40	16.225		
6,500.00	5,119.31	6,554.31	5,759.50	81.74	57.64	-155.79	1,399.10	2,312.20	1,357.30	1,273.22	84.07	16.144		
6,600.00	5,191.43	6,652.17	5,840.54	83.28	58.76	-155.69	1,426.87	2,359.51	1,377.75	1,291.99	85.75	16.066		
6,700.00	5,263.56	6,750.03	5,921.58	84.83	59.88	-155.59	1,454.64	2,406.81	1,398.20	1,310.76	87.43	15.991		
6,800.00	5,335.68	6,847.89	6,002.62	86.37	60.99	-155.50	1,482.41	2,454.12	1,418.65	1,329.54	89.12	15.919		
6,900.00	5,407.81	6,945.75	6,083.66	87.92	62.11	-155.41	1,510.18	2,501.42	1,439.11	1,348.31	90.80	15.849		
7,000.00	5,479.93	7,043.61	6,164.70	89.47	63.23	-155.32	1,537.95	2,548.73	1,459.58	1,367.09	92.49	15.781		
7,100.00	5,552.06	7,141.47	6,245.75	91.01	64.35	-155.23	1,565.71	2,596.03	1,480.04	1,385.87	94.18	15.716		
7,200.00	5,624.18	7,239.33	6,326.79	92.56	65.47	-155.15	1,593.48	2,643.33	1,500.51	1,404.65	95.87	15.652		
7,300.00	5,696.31	7,337.18	6,407.83	94.10	66.59	-155.07	1,621.25	2,690.64	1,520.98	1,423.43	97.56	15.591		
7,400.00	5,768.43	7,435.04	6,488.87	95.65	67.71	-154.99	1,649.02	2,737.94	1,541.46	1,442.21	99.25	15.531		
7,500.00	5,840.56	7,532.90	6,569.91	97.20	68.83	-154.91	1,676.79	2,785.25	1,561.94	1,461.00	100.94	15.474		
7,600.00	5,912.68	7,630.76	6,650.95	98.74	69.96	-154.83	1,704.56	2,832.55	1,582.42	1,479.78	102.64	15.418		
7,700.00	5,984.81	7,728.62	6,731.99	100.29	71.08	-154.76	1,732.32	2,879.86	1,602.90	1,498.57	104.33	15.363		
7,800.00	6,056.93	7,826.48	6,813.03	101.84	72.20	-154.69	1,760.09	2,927.16	1,623.39	1,517.36	106.03	15.311		
7,900.00	6,129.06	7,924.34	6,894.07	103.38	73.32	-154.62	1,787.86	2,974.47	1,643.87	1,536.15	107.73	15.260		
8,000.00	6,201.18	8,022.20	6,975.11	104.93	74.44	-154.55	1,815.63	3,021.77	1,664.36	1,554.94	109.43	15.210		
8,100.00	6,273.31	8,120.06	7,056.16	106.48	75.56	-154.49	1,843.40	3,069.08	1,684.86	1,573.73	111.13	15.162		
8,200.00	6,345.43	8,255.03	7,169.36	108.02	77.06	-154.63	1,874.87	3,135.13	1,704.78	1,591.96	112.82	15.110		
8,300.00	6,417.56	8,411.43	7,304.08	109.57	78.49	-156.04	1,874.04	3,213.61	1,721.51	1,609.48	112.02	15.367		
8,400.00	6,489.68	8,540.22	7,411.60	111.12	79.32	-158.14	1,841.71	3,276.14	1,736.33	1,626.92	109.41	15.870		
8,500.00	6,561.81	8,638.71	7,488.11	112.66	79.72	-160.26	1,798.70	3,320.56	1,751.49	1,644.91	106.58	16.434		
8,600.00	6,633.93	8,712.42	7,540.60	114.21	79.90	-162.08	1,756.94	3,351.00	1,768.77	1,664.60	104.17	16.980		
8,700.00	6,706.06	8,767.95	7,576.85	115.76	79.96	-163.57	1,720.51	3,371.99	1,789.29	1,687.07	102.22	17.504		
8,800.00	6,778.18	8,810.56	7,602.50	117.30	79.98	-164.77	1,689.92	3,386.83	1,813.68	1,713.05	100.62	18.025		
8,900.00	6,850.31	8,843.93	7,621.19	118.85	79.97	-165.74	1,664.47	3,397.63	1,842.21	1,742.99	99.22	18.567		
9,000.00	6,922.43	8,870.62	7,635.19	120.40	79.95	-166.54	1,643.24	3,405.72	1,874.99	1,777.07	97.92	19.148		
9,100.00	6,994.56	8,892.35	7,645.95	121.95	79.93	-167.19	1,625.41	3,411.93	1,911.98	1,815.31	96.67	19.779		
9,200.00	7,066.68	8,910.35	7,654.41	123.49	79.91	-167.74	1,610.29	3,416.81	1,953.04	1,857.63	95.41	20.469		
9,300.00	7,138.81	8,925.47	7,661.21	125.04	79.88	-168.20	1,597.36	3,420.72	1,998.02	1,903.87	94.15	21.222		
9,392.50	7,205.52	8,937.44	7,666.37	126.47	79.86	-168.57	1,586.98	3,423.69	2,042.92	1,949.96	92.96	21.976		
9,400.00	7,210.94	8,938.36	7,666.76	126.59	79.86	-169.80	1,586.18	3,423.92	2,046.70	1,953.83	92.86	22.040		
9,450.00	7,247.42	8,950.00	7,671.59	127.35	79.84	-178.33	1,575.96	3,426.70	2,072.19	1,980.07	92.11	22.496		
9,500.00	7,284.35	8,950.00	7,671.59	128.10	79.84	173.24	1,575.96	3,426.70	2,098.05	2,006.25	91.79	22.856		
9,550.00	7,321.43	8,962.75	7,676.67	128.83	79.81	164.38	1,564.64	3,429.62	2,124.04	2,032.85	91.19	23.292		
9,600.00	7,358.38	8,973.00	7,680.60	129.52	79.79	155.73	1,555.44	3,431.88	2,149.95	2,059.20	90.75	23.691		
9,650.00	7,394.93	8,984.11	7,684.70	130.16	79.77	147.38	1,545.39	3,434.23	2,175.53	2,085.16	90.37	24.074		
9,700.00	7,430.79	9,000.00	7,690.26	130.76	79.73	139.39	1,530.85	3,437.42	2,200.56	2,110.62	89.93	24.469		
9,750.00	7,465.70	9,000.00	7,690.26	131.30	79.73	132.28	1,530.85	3,437.42	2,224.85	2,134.77	90.07	24.700		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	9,021.60	7,697.26	131.78	79.67	125.41	1,510.82	3,441.43	2,248.10	2,158.46	89.65	25.078		
9,850.00	7,531.58	9,035.21	7,701.34	132.21	79.63	119.35	1,498.04	3,443.76	2,270.25	2,180.69	89.56	25.350		
9,900.00	7,562.06	9,050.00	7,705.47	132.57	79.59	113.94	1,484.04	3,446.12	2,291.09	2,201.56	89.53	25.590		
9,950.00	7,590.58	9,050.00	7,705.47	132.87	79.59	109.33	1,484.04	3,446.12	2,310.57	2,220.44	90.13	25.636		
10,000.00	7,616.93	9,078.52	7,712.54	133.11	79.50	105.04	1,456.71	3,450.15	2,328.20	2,238.37	89.83	25.918		
10,050.00	7,640.90	9,100.00	7,717.09	133.29	79.43	101.42	1,435.88	3,452.73	2,344.24	2,254.37	89.87	26.084		
10,100.00	7,662.32	9,100.00	7,717.09	133.42	79.43	98.49	1,435.88	3,452.73	2,358.43	2,267.57	90.86	25.957		
10,150.00	7,681.01	9,124.50	7,721.45	133.50	79.35	95.91	1,411.90	3,455.19	2,370.60	2,279.59	91.00	26.049		
10,200.00	7,696.85	9,150.00	7,725.04	133.52	79.26	93.82	1,386.73	3,457.20	2,380.85	2,289.65	91.20	26.107		
10,250.00	7,709.70	9,150.00	7,725.04	133.51	79.26	92.28	1,386.73	3,457.20	2,388.91	2,296.31	92.60	25.798		
10,300.00	7,719.47	9,172.03	7,727.37	133.46	79.17	91.10	1,364.87	3,458.48	2,394.83	2,301.66	93.17	25.705		
10,350.00	7,726.09	9,200.00	7,729.27	133.37	79.06	90.33	1,336.98	3,459.49	2,398.68	2,305.14	93.54	25.643		
10,400.00	7,729.50	9,200.00	7,729.27	133.26	79.06	89.99	1,336.98	3,459.49	2,400.15	2,304.80	95.34	25.174		
10,427.79	7,730.00	9,213.04	7,729.75	133.18	79.01	89.97	1,323.95	3,459.73	2,400.04	2,304.27	95.76	25.062		
10,500.00	7,730.00	9,247.06	7,730.00	132.98	78.87	89.98	1,289.94	3,459.76	2,399.59	2,302.70	96.89	24.767		
10,600.00	7,730.00	9,347.06	7,730.00	132.72	78.46	89.98	1,189.94	3,459.42	2,399.59	2,303.74	95.84	25.036		
10,700.00	7,730.00	9,447.06	7,730.00	132.47	78.08	89.98	1,089.94	3,459.08	2,399.59	2,304.67	94.92	25.280		
10,800.00	7,730.00	9,547.06	7,730.00	132.22	77.72	89.98	989.94	3,458.74	2,399.59	2,305.47	94.12	25.495		
10,900.00	7,730.00	9,647.06	7,730.00	131.99	77.37	89.98	889.94	3,458.40	2,399.59	2,306.14	93.45	25.679		
11,000.00	7,730.00	9,747.06	7,730.00	131.77	77.04	89.98	789.94	3,458.07	2,399.59	2,306.68	92.90	25.829		
11,100.00	7,730.00	9,847.06	7,730.00	131.56	76.73	89.98	689.94	3,457.73	2,399.59	2,307.09	92.49	25.943		
11,200.00	7,730.00	9,947.06	7,730.00	131.36	76.44	89.98	589.94	3,457.39	2,399.59	2,307.37	92.22	26.020		
11,300.00	7,730.00	10,047.06	7,730.00	131.17	76.17	89.98	489.94	3,457.05	2,399.59	2,307.51	92.08	26.059		
11,400.00	7,730.00	10,147.06	7,730.00	130.99	75.92	89.98	389.94	3,456.72	2,399.59	2,307.51	92.08	26.060		
11,500.00	7,730.00	10,247.06	7,730.00	130.82	75.68	89.98	289.94	3,456.38	2,399.59	2,307.37	92.21	26.022		
11,600.00	7,730.00	10,347.06	7,730.00	130.66	75.47	89.98	189.94	3,456.04	2,399.59	2,307.10	92.48	25.946		
11,700.00	7,730.00	10,447.06	7,730.00	130.51	75.27	89.98	89.94	3,455.70	2,399.59	2,306.70	92.89	25.833		
11,800.00	7,730.00	10,547.06	7,730.00	130.37	75.09	89.98	-10.06	3,455.36	2,399.59	2,306.16	93.43	25.685		
11,900.00	7,730.00	10,647.06	7,730.00	130.24	74.94	89.98	-110.06	3,455.03	2,399.59	2,305.49	94.09	25.502		
12,000.00	7,730.00	10,747.06	7,730.00	130.13	74.80	89.98	-210.06	3,454.69	2,399.59	2,304.70	94.89	25.289		
12,100.00	7,730.00	10,847.06	7,730.00	130.02	74.69	89.98	-310.05	3,454.35	2,399.59	2,303.78	95.81	25.046		
12,200.00	7,730.00	10,947.06	7,730.00	129.93	74.60	89.98	-410.05	3,454.01	2,399.59	2,302.74	96.85	24.777		
12,300.00	7,730.00	11,047.06	7,730.00	129.85	74.53	89.98	-510.05	3,453.67	2,399.59	2,301.58	98.00	24.484		
12,400.00	7,730.00	11,147.06	7,730.00	129.77	74.49	89.98	-610.05	3,453.34	2,399.59	2,300.31	99.27	24.171		
12,500.00	7,730.00	11,247.06	7,730.00	129.71	74.47	89.98	-710.05	3,453.00	2,399.59	2,298.93	100.65	23.841		
12,600.00	7,730.00	11,347.06	7,730.00	129.66	74.48	89.98	-810.05	3,452.66	2,399.59	2,297.45	102.13	23.495		
12,700.00	7,730.00	11,447.06	7,730.00	129.63	74.53	89.98	-910.05	3,452.32	2,399.59	2,295.87	103.71	23.137		
12,800.00	7,730.00	11,547.06	7,730.00	129.60	74.60	89.98	-1,010.05	3,451.98	2,399.58	2,294.20	105.39	22.769		
12,900.00	7,730.00	11,647.06	7,730.00	129.59	74.71	89.98	-1,110.05	3,451.65	2,399.58	2,292.43	107.15	22.394		
13,000.00	7,730.00	11,747.06	7,730.00	129.59	74.86	89.98	-1,210.05	3,451.31	2,399.58	2,290.58	109.01	22.013		
13,100.00	7,730.00	11,847.06	7,730.00	129.60	75.05	89.98	-1,310.05	3,450.97	2,399.58	2,288.65	110.94	21.630		
13,200.00	7,730.00	11,947.06	7,730.00	129.63	75.28	89.98	-1,410.05	3,450.63	2,399.58	2,286.64	112.95	21.245		
13,300.00	7,730.00	12,047.06	7,730.00	129.66	75.56	89.98	-1,510.05	3,450.29	2,399.58	2,284.55	115.03	20.860		
13,400.00	7,730.00	12,147.06	7,730.00	129.72	75.89	89.98	-1,610.05	3,449.96	2,399.58	2,282.40	117.18	20.477		
13,500.00	7,730.00	12,247.06	7,730.00	129.78	76.28	89.98	-1,710.05	3,449.62	2,399.58	2,280.18	119.40	20.097		
13,600.00	7,730.00	12,347.06	7,730.00	129.86	76.72	89.98	-1,810.05	3,449.28	2,399.58	2,277.90	121.68	19.720		
13,700.00	7,730.00	12,447.06	7,730.00	129.96	77.21	89.98	-1,910.05	3,448.94	2,399.58	2,275.56	124.02	19.348		
13,800.00	7,730.00	12,547.06	7,730.00	130.07	77.77	89.98	-2,010.05	3,448.60	2,399.58	2,273.17	126.42	18.982		
13,900.00	7,730.00	12,647.06	7,730.00	130.19	78.39	89.98	-2,110.04	3,448.27	2,399.58	2,270.72	128.86	18.621		
14,000.00	7,730.00	12,747.06	7,730.00	130.33	79.07	89.98	-2,210.04	3,447.93	2,399.58	2,268.22	131.36	18.267		
14,100.00	7,730.00	12,847.06	7,730.00	130.49	79.81	89.98	-2,310.04	3,447.59	2,399.58	2,265.68	133.90	17.921		
14,200.00	7,730.00	12,947.06	7,730.00	130.67	80.60	89.98	-2,410.04	3,447.25	2,399.58	2,263.10	136.49	17.581		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	13,047.06	7,730.00	130.86	81.46	89.98	-2,510.04	3,446.91	2,399.58	2,260.47	139.11	17.249		
14,400.00	7,730.00	13,147.06	7,730.00	131.07	82.37	89.98	-2,610.04	3,446.58	2,399.58	2,257.80	141.78	16.924		
14,500.00	7,730.00	13,247.06	7,730.00	131.30	83.33	89.98	-2,710.04	3,446.24	2,399.58	2,255.10	144.49	16.608		
14,600.00	7,730.00	13,347.06	7,730.00	131.55	84.34	89.98	-2,810.04	3,445.90	2,399.58	2,252.36	147.23	16.299		
14,700.00	7,730.00	13,447.06	7,730.00	131.82	85.40	89.98	-2,910.04	3,445.56	2,399.58	2,249.58	150.00	15.997		
14,800.00	7,730.00	13,547.06	7,730.00	132.11	86.50	89.98	-3,010.04	3,445.23	2,399.58	2,246.78	152.80	15.704		
14,900.00	7,730.00	13,647.06	7,730.00	132.42	87.63	89.98	-3,110.04	3,444.89	2,399.58	2,243.95	155.63	15.418		
15,000.00	7,730.00	13,747.06	7,730.00	132.75	88.81	89.98	-3,210.04	3,444.55	2,399.58	2,241.09	158.50	15.140		
15,100.00	7,730.00	13,847.06	7,730.00	133.10	90.01	89.98	-3,310.04	3,444.21	2,399.58	2,238.20	161.38	14.869		
15,200.00	7,730.00	13,947.06	7,730.00	133.48	91.25	89.98	-3,410.04	3,443.87	2,399.58	2,235.28	164.30	14.605		
15,300.00	7,730.00	14,047.06	7,730.00	133.88	92.51	89.98	-3,510.04	3,443.54	2,399.58	2,232.35	167.23	14.349		
15,400.00	7,730.00	14,147.06	7,730.00	134.31	93.81	89.98	-3,610.04	3,443.20	2,399.58	2,229.39	170.19	14.099		
15,500.00	7,730.00	14,247.06	7,730.00	134.76	95.12	89.98	-3,710.04	3,442.86	2,399.58	2,226.41	173.17	13.856		
15,600.00	7,730.00	14,347.06	7,730.00	135.23	96.46	89.98	-3,810.04	3,442.52	2,399.58	2,223.40	176.18	13.620		
15,700.00	7,730.00	14,447.06	7,730.00	135.73	97.81	89.98	-3,910.03	3,442.18	2,399.58	2,220.38	179.20	13.391		
15,800.00	7,730.00	14,547.06	7,730.00	136.26	99.19	89.98	-4,010.03	3,441.85	2,399.58	2,217.34	182.24	13.167		
15,900.00	7,730.00	14,647.06	7,730.00	136.81	100.58	89.98	-4,110.03	3,441.51	2,399.58	2,214.29	185.29	12.950		
16,000.00	7,730.00	14,747.06	7,730.00	137.39	101.99	89.98	-4,210.03	3,441.17	2,399.58	2,211.21	188.37	12.739		
16,100.00	7,730.00	14,847.06	7,730.00	138.00	103.41	89.98	-4,310.03	3,440.83	2,399.58	2,208.12	191.46	12.533		
16,200.00	7,730.00	14,947.06	7,730.00	138.63	104.85	89.98	-4,410.03	3,440.49	2,399.58	2,205.02	194.56	12.333		
16,300.00	7,730.00	15,047.06	7,730.00	139.30	106.30	89.98	-4,510.03	3,440.16	2,399.58	2,201.90	197.68	12.139		
16,400.00	7,730.00	15,147.06	7,730.00	139.99	107.76	89.98	-4,610.03	3,439.82	2,399.58	2,198.77	200.81	11.949		
16,500.00	7,730.00	15,247.06	7,730.00	140.70	109.24	89.98	-4,710.03	3,439.48	2,399.58	2,195.62	203.96	11.765		
16,600.00	7,730.00	15,347.06	7,730.00	141.45	110.72	89.98	-4,810.03	3,439.14	2,399.58	2,192.46	207.12	11.586		
16,700.00	7,730.00	15,447.06	7,730.00	142.22	112.21	89.98	-4,910.03	3,438.80	2,399.58	2,189.29	210.29	11.411		
16,800.00	7,730.00	15,547.06	7,730.00	143.03	113.72	89.98	-5,010.03	3,438.47	2,399.58	2,186.11	213.47	11.241		
16,900.00	7,730.00	15,647.06	7,730.00	143.86	115.23	89.98	-5,110.03	3,438.13	2,399.58	2,182.92	216.66	11.075		
17,000.00	7,730.00	15,747.06	7,730.00	144.71	116.75	89.98	-5,210.03	3,437.79	2,399.58	2,179.72	219.86	10.914		
17,100.00	7,730.00	15,847.06	7,730.00	145.60	118.28	89.98	-5,310.03	3,437.45	2,399.58	2,176.50	223.08	10.757		
17,200.00	7,730.00	15,947.06	7,730.00	146.51	119.82	89.98	-5,410.03	3,437.11	2,399.58	2,173.28	226.30	10.604		
17,300.00	7,730.00	16,047.06	7,730.00	147.44	121.36	89.98	-5,510.03	3,436.78	2,399.58	2,170.05	229.53	10.454		
17,400.00	7,730.00	16,147.06	7,730.00	148.40	122.91	89.98	-5,610.02	3,436.44	2,399.58	2,166.81	232.77	10.309		
17,500.00	7,730.00	16,247.06	7,730.00	149.39	124.47	89.98	-5,710.02	3,436.10	2,399.58	2,163.56	236.02	10.167		
17,600.00	7,730.00	16,347.06	7,730.00	150.40	126.03	89.98	-5,810.02	3,435.76	2,399.58	2,160.30	239.28	10.029		
17,700.00	7,730.00	16,447.06	7,730.00	151.44	127.60	89.98	-5,910.02	3,435.42	2,399.58	2,157.04	242.54	9.894		
17,800.00	7,730.00	16,547.06	7,730.00	152.50	129.17	89.98	-6,010.02	3,435.09	2,399.58	2,153.76	245.81	9.762		
17,900.00	7,730.00	16,647.06	7,730.00	153.58	130.75	89.98	-6,110.02	3,434.75	2,399.58	2,150.48	249.09	9.633		
18,000.00	7,730.00	16,747.06	7,730.00	154.68	132.34	89.98	-6,210.02	3,434.41	2,399.58	2,147.20	252.38	9.508		
18,100.00	7,730.00	16,847.06	7,730.00	155.80	133.93	89.98	-6,310.02	3,434.07	2,399.58	2,143.91	255.67	9.385		
18,200.00	7,730.00	16,947.06	7,730.00	156.95	135.52	89.98	-6,410.02	3,433.74	2,399.58	2,140.61	258.97	9.266		
18,300.00	7,730.00	17,047.06	7,730.00	158.11	137.12	89.98	-6,510.02	3,433.40	2,399.58	2,137.30	262.28	9.149		
18,400.00	7,730.00	17,147.06	7,730.00	159.30	138.72	89.98	-6,610.02	3,433.06	2,399.58	2,133.99	265.59	9.035		
18,500.00	7,730.00	17,247.06	7,730.00	160.50	140.33	89.98	-6,710.02	3,432.72	2,399.58	2,130.67	268.90	8.924		
18,600.00	7,730.00	17,347.06	7,730.00	161.72	141.94	89.98	-6,810.02	3,432.38	2,399.58	2,127.35	272.23	8.815		
18,700.00	7,730.00	17,447.06	7,730.00	162.96	143.55	89.98	-6,910.02	3,432.05	2,399.58	2,124.02	275.55	8.708		
18,800.00	7,730.00	17,547.06	7,730.00	164.21	145.17	89.98	-7,010.02	3,431.71	2,399.58	2,120.69	278.89	8.604		
18,900.00	7,730.00	17,647.06	7,730.00	165.48	146.79	89.98	-7,110.02	3,431.37	2,399.58	2,117.35	282.22	8.502		
19,000.00	7,730.00	17,747.06	7,730.00	166.76	148.42	89.98	-7,210.02	3,431.03	2,399.57	2,114.01	285.57	8.403		
19,100.00	7,730.00	17,847.06	7,730.00	168.06	150.05	89.98	-7,310.02	3,430.69	2,399.57	2,110.66	288.91	8.306		
19,200.00	7,730.00	17,947.06	7,730.00	169.38	151.68	89.98	-7,410.01	3,430.36	2,399.57	2,107.31	292.26	8.210		
19,300.00	7,730.00	18,047.06	7,730.00	170.70	153.31	89.98	-7,510.01	3,430.02	2,399.57	2,103.96	295.62	8.117		
19,400.00	7,730.00	18,147.06	7,730.00	172.04	154.95	89.98	-7,610.01	3,429.68	2,399.57	2,100.60	298.98	8.026		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,730.00	18,247.06	7,730.00	173.40	156.59	89.98	-7,710.01	3,429.34	2,399.57	2,097.23	302.34	7.937	
19,600.00	7,730.00	18,347.06	7,730.00	174.76	158.23	89.98	-7,810.01	3,429.00	2,399.57	2,093.86	305.71	7.849	
19,700.00	7,730.00	18,447.06	7,730.00	176.14	159.88	89.98	-7,910.01	3,428.67	2,399.57	2,090.49	309.08	7.764	
19,800.00	7,730.00	18,547.06	7,730.00	177.52	161.53	89.98	-8,010.01	3,428.33	2,399.57	2,087.12	312.46	7.680	
19,900.00	7,730.00	18,647.06	7,730.00	178.92	163.18	89.98	-8,110.01	3,427.99	2,399.57	2,083.74	315.83	7.598	
20,000.00	7,730.00	18,747.06	7,730.00	180.33	164.83	89.98	-8,210.01	3,427.65	2,399.57	2,080.36	319.22	7.517	
20,100.00	7,730.00	18,847.06	7,730.00	181.75	166.49	89.98	-8,310.01	3,427.31	2,399.57	2,076.97	322.60	7.438	
20,184.95	7,730.00	18,932.01	7,730.00	182.96	167.89	89.98	-8,394.96	3,427.03	2,399.57	2,074.09	325.48	7.372 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-89.65	0.36	-59.92	59.92					
100.00	100.00	101.00	101.00	0.13	0.14	-89.65	0.36	-59.92	59.92	59.65	0.27	219.945	CC, ES	
200.00	199.98	200.98	200.98	0.49	0.50	-160.65	0.36	-59.92	61.57	60.58	0.99	62.300		
300.00	299.84	300.84	300.84	0.86	0.85	-162.11	0.36	-59.92	66.53	64.81	1.71	38.872		
400.00	399.45	400.45	400.45	1.23	1.21	-164.11	0.36	-59.92	74.87	72.43	2.44	30.723		
500.00	498.70	500.30	499.70	1.63	1.57	-166.26	0.36	-59.92	86.66	83.49	3.17	27.371		
600.00	597.47	601.53	598.47	2.05	1.93	-168.29	0.36	-59.92	101.93	98.03	3.90	26.114		
700.00	695.62	696.62	696.62	2.51	2.27	-170.06	0.36	-59.92	120.68	116.06	4.62	26.114		
800.00	793.06	798.73	798.71	3.00	2.64	-171.41	1.17	-58.42	141.35	136.00	5.36	26.382		
900.00	889.64	901.76	901.59	3.53	3.00	-172.22	3.72	-53.66	162.10	156.00	6.10	26.574		
1,000.00	985.27	1,005.58	1,005.00	4.12	3.38	-172.66	8.06	-45.57	182.86	176.01	6.85	26.686		
1,100.00	1,079.82	1,110.20	1,108.80	4.75	3.76	-172.84	14.22	-34.09	203.60	195.98	7.61	26.736		
1,200.00	1,173.17	1,215.63	1,212.85	5.44	4.18	-172.84	22.24	-19.14	224.26	215.87	8.39	26.723		
1,300.00	1,265.21	1,321.87	1,316.99	6.18	4.62	-172.68	32.15	-0.68	244.83	235.65	9.18	26.662		
1,400.00	1,355.84	1,428.92	1,421.08	6.99	5.10	-172.41	43.97	21.36	265.29	255.30	9.99	26.561		
1,500.00	1,444.94	1,536.80	1,524.96	7.87	5.63	-172.05	57.73	47.01	285.60	274.79	10.81	26.409		
1,600.00	1,532.39	1,645.51	1,628.44	8.80	6.21	-171.61	73.46	76.33	305.75	294.09	11.66	26.214		
1,700.00	1,618.11	1,755.04	1,731.35	9.81	6.85	-171.11	91.18	109.35	325.72	313.18	12.54	25.976		
1,800.00	1,701.97	1,865.40	1,833.52	10.89	7.56	-170.55	110.89	146.09	345.48	332.04	13.45	25.693		
1,900.00	1,783.88	1,976.58	1,934.75	12.04	8.34	-169.94	132.62	186.59	365.03	350.64	14.39	25.366		
2,000.00	1,863.74	2,088.58	2,034.84	13.26	9.21	-169.29	156.37	230.86	384.33	368.96	15.38	24.995		
2,100.00	1,941.45	2,201.39	2,133.60	14.55	10.16	-168.59	182.14	278.90	403.38	386.96	16.41	24.578		
2,200.00	2,016.92	2,315.01	2,230.81	15.92	11.22	-167.86	209.94	330.71	422.15	404.64	17.51	24.112		
2,292.11	2,084.36	2,420.36	2,318.81	17.25	12.27	-167.16	237.32	381.75	439.17	420.60	18.57	23.644		
2,300.00	2,090.06	2,429.43	2,326.28	17.36	12.37	-167.11	239.75	386.27	440.61	421.94	18.67	23.599		
2,400.00	2,162.18	2,540.14	2,416.27	18.84	13.56	-166.37	270.24	443.10	456.98	437.07	19.91	22.947		
2,500.00	2,234.31	2,638.80	2,495.82	20.33	14.66	-165.71	297.82	494.51	472.44	451.20	21.24	22.244		
2,600.00	2,306.43	2,737.46	2,575.38	21.83	15.78	-165.09	325.40	545.92	487.96	465.36	22.60	21.592		
2,700.00	2,378.56	2,836.11	2,654.94	23.33	16.91	-164.51	352.99	597.34	503.52	479.53	23.99	20.987		
2,800.00	2,450.68	2,934.77	2,734.49	24.84	18.06	-163.97	380.57	648.75	519.14	493.72	25.42	20.426		
2,900.00	2,522.81	3,033.43	2,814.05	26.36	19.21	-163.46	408.15	700.16	534.80	507.93	26.87	19.905		
3,000.00	2,594.93	3,132.08	2,893.61	27.88	20.37	-162.98	435.74	751.57	550.50	522.15	28.34	19.422		
3,100.00	2,667.06	3,230.74	2,973.16	29.40	21.54	-162.52	463.32	802.98	566.23	536.39	29.84	18.974		
3,200.00	2,739.18	3,329.40	3,052.72	30.92	22.71	-162.09	490.90	854.39	582.00	550.63	31.36	18.557		
3,300.00	2,811.31	3,428.05	3,132.27	32.45	23.88	-161.68	518.48	905.80	597.79	564.89	32.90	18.169		
3,400.00	2,883.43	3,526.71	3,211.83	33.98	25.06	-161.29	546.07	957.22	613.62	579.16	34.46	17.807		
3,500.00	2,955.56	3,625.37	3,291.39	35.51	26.25	-160.92	573.65	1,008.63	629.47	593.44	36.03	17.470		
3,600.00	3,027.68	3,724.02	3,370.94	37.04	27.43	-160.57	601.23	1,060.04	645.35	607.73	37.62	17.155		
3,700.00	3,099.81	3,822.68	3,450.50	38.57	28.62	-160.24	628.81	1,111.45	661.24	622.02	39.22	16.859		
3,800.00	3,171.93	3,921.34	3,530.05	40.11	29.81	-159.92	656.40	1,162.86	677.16	636.33	40.84	16.583		
3,900.00	3,244.06	4,019.99	3,609.61	41.64	31.01	-159.62	683.98	1,214.27	693.10	650.64	42.46	16.323		
4,000.00	3,316.18	4,118.65	3,689.17	43.18	32.20	-159.33	711.56	1,265.69	709.06	664.96	44.10	16.079		
4,100.00	3,388.31	4,217.31	3,768.72	44.71	33.40	-159.05	739.15	1,317.10	725.03	679.29	45.75	15.849		
4,200.00	3,460.43	4,315.96	3,848.28	46.25	34.59	-158.79	766.73	1,368.51	741.02	693.62	47.40	15.633		
4,300.00	3,532.56	4,414.62	3,927.84	47.79	35.79	-158.53	794.31	1,419.92	757.03	707.96	49.07	15.429		
4,400.00	3,604.68	4,513.28	4,007.39	49.33	36.99	-158.29	821.89	1,471.33	773.04	722.30	50.74	15.235		
4,500.00	3,676.81	4,611.93	4,086.95	50.87	38.20	-158.06	849.48	1,522.74	789.08	736.65	52.42	15.053		
4,600.00	3,748.93	4,710.59	4,166.50	52.41	39.40	-157.83	877.06	1,574.15	805.12	751.01	54.11	14.880		
4,700.00	3,821.06	4,809.25	4,246.06	53.95	40.60	-157.62	904.64	1,625.57	821.17	765.37	55.80	14.716		
4,800.00	3,893.18	4,907.90	4,325.62	55.49	41.80	-157.41	932.22	1,676.98	837.24	779.73	57.50	14.560		
4,900.00	3,965.31	5,006.56	4,405.17	57.03	43.01	-157.21	959.81	1,728.39	853.32	794.10	59.21	14.411		
5,000.00	4,037.43	5,105.22	4,484.73	58.58	44.21	-157.02	987.39	1,779.80	869.40	808.48	60.92	14.270		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,203.87	4,564.29	60.12	45.42	-156.83	1,014.97	1,831.21	885.50	822.85	62.64	14.136		
5,200.00	4,181.68	5,302.53	4,643.84	61.66	46.63	-156.66	1,042.55	1,882.62	901.60	837.24	64.36	14.008		
5,300.00	4,253.81	5,401.19	4,723.40	63.20	47.83	-156.48	1,070.14	1,934.04	917.71	851.62	66.09	13.886		
5,400.00	4,325.93	5,499.84	4,802.95	64.75	49.04	-156.32	1,097.72	1,985.45	933.83	866.01	67.82	13.769		
5,500.00	4,398.06	5,601.50	4,882.51	66.29	50.28	-156.16	1,125.30	2,036.86	949.96	880.38	69.58	13.653		
5,600.00	4,470.18	5,702.84	4,962.07	67.84	51.52	-156.00	1,152.89	2,088.27	966.09	894.75	71.34	13.542		
5,700.00	4,542.31	5,804.19	5,041.62	69.38	52.77	-155.85	1,180.47	2,139.68	982.23	909.13	73.10	13.436		
5,800.00	4,614.43	5,905.53	5,121.18	70.92	54.01	-155.71	1,208.05	2,191.09	998.38	923.51	74.87	13.334		
5,900.00	4,686.56	5,993.13	5,200.73	72.47	55.08	-155.57	1,235.63	2,242.50	1,014.53	938.00	76.54	13.256		
6,000.00	4,758.68	6,091.78	5,280.29	74.01	56.29	-155.43	1,263.22	2,293.92	1,030.69	952.40	78.29	13.165		
6,100.00	4,830.81	6,209.56	5,359.85	75.56	57.73	-155.30	1,290.80	2,345.33	1,046.85	966.66	80.20	13.054		
6,200.00	4,902.93	6,289.10	5,439.40	77.10	58.71	-155.17	1,318.38	2,396.74	1,063.02	981.22	81.80	12.995		
6,300.00	4,975.06	6,387.75	5,518.96	78.65	59.92	-155.05	1,345.96	2,448.15	1,079.20	995.63	83.57	12.914		
6,400.00	5,047.18	6,486.41	5,598.52	80.19	61.13	-154.93	1,373.55	2,499.56	1,095.38	1,010.05	85.33	12.837		
6,500.00	5,119.31	6,585.07	5,678.07	81.74	62.34	-154.81	1,401.13	2,550.97	1,111.56	1,024.47	87.10	12.762		
6,600.00	5,191.43	6,683.72	5,757.63	83.28	63.55	-154.69	1,428.71	2,602.39	1,127.75	1,038.88	88.87	12.690		
6,700.00	5,263.56	6,782.38	5,837.18	84.83	64.76	-154.58	1,456.30	2,653.80	1,143.94	1,053.31	90.64	12.621		
6,800.00	5,335.68	6,881.04	5,916.74	86.37	65.98	-154.48	1,483.88	2,705.21	1,160.14	1,067.73	92.41	12.554		
6,900.00	5,407.81	6,979.69	5,996.30	87.92	67.19	-154.37	1,511.46	2,756.62	1,176.34	1,082.15	94.19	12.489		
7,000.00	5,479.93	7,078.35	6,075.85	89.47	68.40	-154.27	1,539.04	2,808.03	1,192.54	1,096.58	95.96	12.427		
7,100.00	5,552.06	7,177.01	6,155.41	91.01	69.61	-154.17	1,566.63	2,859.44	1,208.75	1,111.01	97.74	12.367		
7,200.00	5,624.18	7,275.66	6,234.96	92.56	70.82	-154.08	1,594.21	2,910.85	1,224.96	1,125.44	99.52	12.308		
7,300.00	5,696.31	7,374.32	6,314.52	94.10	72.03	-153.98	1,621.79	2,962.27	1,241.18	1,139.87	101.31	12.252		
7,400.00	5,768.43	7,472.98	6,394.08	95.65	73.25	-153.89	1,649.37	3,013.68	1,257.39	1,154.30	103.09	12.197		
7,500.00	5,840.56	7,571.63	6,473.63	97.20	74.46	-153.80	1,676.96	3,065.09	1,273.61	1,168.74	104.88	12.144		
7,600.00	5,912.68	7,670.29	6,553.19	98.74	75.67	-153.72	1,704.54	3,116.50	1,289.84	1,183.17	106.67	12.092		
7,700.00	5,984.81	7,768.95	6,632.75	100.29	76.88	-153.63	1,732.12	3,167.91	1,306.06	1,197.61	108.45	12.043		
7,800.00	6,056.93	7,867.60	6,712.30	101.84	78.10	-153.55	1,759.70	3,219.32	1,322.29	1,212.05	110.24	11.994		
7,900.00	6,129.06	7,966.26	6,791.86	103.38	79.31	-153.47	1,787.29	3,270.74	1,338.52	1,226.49	112.04	11.947		
8,000.00	6,201.18	8,064.92	6,871.41	104.93	80.52	-153.39	1,814.87	3,322.15	1,354.76	1,240.93	113.83	11.902		
8,100.00	6,273.31	8,163.57	6,950.97	106.48	81.74	-153.31	1,842.45	3,373.56	1,371.01	1,255.37	115.62	11.857		
8,200.00	6,345.43	8,277.71	7,033.28	108.02	83.13	-153.28	1,873.20	3,433.21	1,387.11	1,269.60	117.52	11.804		
8,300.00	6,417.56	8,441.43	7,119.97	109.57	84.92	-154.52	1,885.54	3,521.42	1,399.93	1,282.82	117.11	11.954		
8,400.00	6,489.68	8,580.70	7,294.69	111.12	86.07	-156.96	1,859.47	3,595.34	1,409.54	1,295.78	113.76	12.390		
8,500.00	6,561.81	8,688.50	7,377.91	112.66	86.68	-159.62	1,817.13	3,648.88	1,418.76	1,308.93	109.83	12.918		
8,600.00	6,633.93	8,769.09	7,434.99	114.21	86.98	-161.99	1,773.76	3,685.55	1,430.09	1,323.62	106.46	13.433		
8,700.00	6,706.06	8,829.41	7,474.07	115.76	87.12	-163.94	1,735.31	3,710.63	1,445.16	1,341.36	103.80	13.923		
8,800.00	6,778.18	8,875.30	7,501.41	117.30	87.18	-165.51	1,702.89	3,728.16	1,464.92	1,363.28	101.64	14.412		
8,900.00	6,850.31	8,910.98	7,521.11	118.85	87.21	-166.77	1,675.97	3,740.77	1,489.82	1,390.04	99.78	14.931		
9,000.00	6,922.43	8,939.29	7,535.72	120.40	87.21	-167.79	1,653.59	3,750.12	1,520.01	1,421.95	98.06	15.501		
9,100.00	6,994.56	8,962.22	7,546.86	121.95	87.20	-168.63	1,634.86	3,757.24	1,555.41	1,459.04	96.37	16.140		
9,200.00	7,066.68	8,981.10	7,555.55	123.49	87.19	-169.33	1,619.05	3,762.80	1,595.86	1,501.17	94.68	16.855		
9,300.00	7,138.81	9,000.00	7,563.81	125.04	87.17	-170.04	1,602.89	3,768.08	1,641.08	1,548.21	92.87	17.672		
9,392.50	7,205.52	9,000.00	7,563.81	126.47	87.17	-170.04	1,602.89	3,768.08	1,686.93	1,595.28	91.65	18.407		
9,400.00	7,210.94	9,000.00	7,563.81	126.59	87.17	-171.25	1,602.89	3,768.08	1,690.81	1,599.26	91.55	18.469		
9,450.00	7,247.42	9,017.43	7,571.03	127.35	87.15	-179.82	1,587.71	3,772.68	1,716.89	1,626.49	90.40	18.992		
9,500.00	7,284.35	9,025.85	7,574.38	128.10	87.14	-171.00	1,580.29	3,774.81	1,743.44	1,653.80	89.64	19.450		
9,550.00	7,321.43	9,035.36	7,578.05	128.83	87.12	-162.10	1,571.83	3,777.15	1,770.14	1,681.20	88.94	19.902		
9,600.00	7,358.38	9,050.00	7,583.47	129.52	87.10	-153.20	1,558.67	3,780.60	1,796.75	1,708.54	88.20	20.370		
9,650.00	7,394.93	9,050.00	7,583.47	130.16	87.10	-145.04	1,558.67	3,780.60	1,823.01	1,735.02	88.00	20.717		
9,700.00	7,430.79	9,069.22	7,590.15	130.76	87.06	-136.85	1,541.16	3,784.85	1,848.64	1,761.31	87.33	21.168		
9,750.00	7,465.70	9,081.93	7,594.29	131.30	87.04	-129.44	1,529.44	3,787.49	1,873.49	1,786.53	86.96	21.543		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	9,100.00	7,599.81	131.78	87.00	122.57	1,512.59	3,790.99	1,897.36	1,810.82	86.54	21.924		
9,850.00	7,531.58	9,100.00	7,599.81	132.21	87.00	116.71	1,512.59	3,790.99	1,920.07	1,833.22	86.85	22.108		
9,900.00	7,562.06	9,123.24	7,606.24	132.57	86.94	111.14	1,490.64	3,795.07	1,941.31	1,854.82	86.49	22.446		
9,950.00	7,590.58	9,150.00	7,612.72	132.87	86.88	106.22	1,465.00	3,799.16	1,961.20	1,875.10	86.10	22.778		
10,000.00	7,616.93	9,150.00	7,612.72	133.11	86.88	102.24	1,465.00	3,799.16	1,979.22	1,892.34	86.88	22.780		
10,050.00	7,640.90	9,168.03	7,616.51	133.29	86.82	98.64	1,447.54	3,801.55	1,995.56	1,908.44	87.11	22.907		
10,100.00	7,662.32	9,183.50	7,619.40	133.42	86.77	95.62	1,432.44	3,803.36	2,010.00	1,922.40	87.60	22.945		
10,150.00	7,681.01	9,200.00	7,622.09	133.50	86.72	93.09	1,416.26	3,805.04	2,022.46	1,934.26	88.20	22.932		
10,200.00	7,696.85	9,200.00	7,622.09	133.52	86.72	91.12	1,416.26	3,805.04	2,033.02	1,943.23	89.79	22.642		
10,250.00	7,709.70	9,231.01	7,626.10	133.51	86.62	89.47	1,385.61	3,807.52	2,041.10	1,951.13	89.96	22.688		
10,300.00	7,719.47	9,250.00	7,627.87	133.46	86.55	88.30	1,366.73	3,808.60	2,047.17	1,956.28	90.89	22.525		
10,350.00	7,726.09	9,250.00	7,627.87	133.37	86.55	87.56	1,366.73	3,808.60	2,051.13	1,958.08	93.05	22.043		
10,400.00	7,729.50	9,279.41	7,629.56	133.26	86.44	87.20	1,337.40	3,809.59	2,052.59	1,958.94	93.65	21.917		
10,427.79	7,730.00	9,303.98	7,630.00	133.18	86.35	87.18	1,312.83	3,809.79	2,052.68	1,959.16	93.52	21.949		
10,500.00	7,730.00	9,328.09	7,630.00	132.98	86.26	87.18	1,288.72	3,809.71	2,052.12	1,956.47	95.65	21.455		
10,600.00	7,730.00	9,428.09	7,630.00	132.72	85.88	87.18	1,188.72	3,809.38	2,052.11	1,957.58	94.54	21.707		
10,700.00	7,730.00	9,528.09	7,630.00	132.47	85.52	87.18	1,088.72	3,809.04	2,052.11	1,958.57	93.55	21.937		
10,800.00	7,730.00	9,628.09	7,630.00	132.22	85.18	87.18	988.72	3,808.70	2,052.11	1,959.43	92.68	22.142		
10,900.00	7,730.00	9,728.09	7,630.00	131.99	84.86	87.18	888.72	3,808.37	2,052.11	1,960.17	91.94	22.320		
11,000.00	7,730.00	9,828.09	7,630.00	131.77	84.55	87.18	788.72	3,808.03	2,052.11	1,960.77	91.33	22.468		
11,100.00	7,730.00	9,928.09	7,630.00	131.56	84.26	87.18	688.72	3,807.70	2,052.11	1,961.24	90.86	22.585		
11,200.00	7,730.00	10,028.09	7,630.00	131.36	83.99	87.18	588.72	3,807.36	2,052.10	1,961.58	90.52	22.669		
11,300.00	7,730.00	10,128.09	7,630.00	131.17	83.73	87.18	488.72	3,807.02	2,052.10	1,961.78	90.32	22.719		
11,400.00	7,730.00	10,228.09	7,630.00	130.99	83.49	87.18	388.72	3,806.69	2,052.10	1,961.84	90.26	22.734		
11,500.00	7,730.00	10,328.09	7,630.00	130.82	83.27	87.18	288.73	3,806.35	2,052.10	1,961.76	90.34	22.715		
11,600.00	7,730.00	10,428.09	7,630.00	130.66	83.06	87.18	188.73	3,806.01	2,052.10	1,961.54	90.56	22.661		
11,700.00	7,730.00	10,528.09	7,630.00	130.51	82.87	87.18	88.73	3,805.68	2,052.10	1,961.18	90.91	22.573		
11,800.00	7,730.00	10,628.09	7,630.00	130.37	82.70	87.18	-11.27	3,805.34	2,052.09	1,960.69	91.40	22.452		
11,900.00	7,730.00	10,728.09	7,630.00	130.24	82.55	87.18	-111.27	3,805.01	2,052.09	1,960.07	92.02	22.300		
12,000.00	7,730.00	10,828.09	7,630.00	130.13	82.41	87.18	-211.27	3,804.67	2,052.09	1,959.31	92.77	22.119		
12,100.00	7,730.00	10,928.09	7,630.00	130.02	82.29	87.18	-311.27	3,804.33	2,052.09	1,958.43	93.66	21.911		
12,200.00	7,730.00	11,028.09	7,630.00	129.93	82.20	87.18	-411.27	3,804.00	2,052.09	1,957.43	94.66	21.679		
12,300.00	7,730.00	11,128.09	7,630.00	129.85	82.12	87.18	-511.27	3,803.66	2,052.08	1,956.30	95.78	21.424		
12,400.00	7,730.00	11,228.09	7,630.00	129.77	82.07	87.18	-611.27	3,803.32	2,052.08	1,955.06	97.02	21.151		
12,500.00	7,730.00	11,328.09	7,630.00	129.71	82.03	87.18	-711.27	3,802.99	2,052.08	1,953.71	98.37	20.860		
12,600.00	7,730.00	11,428.09	7,630.00	129.66	82.02	87.18	-811.27	3,802.65	2,052.08	1,952.25	99.83	20.555		
12,700.00	7,730.00	11,528.09	7,630.00	129.63	82.04	87.18	-911.27	3,802.31	2,052.08	1,950.69	101.39	20.239		
12,800.00	7,730.00	11,628.09	7,630.00	129.60	82.08	87.18	-1,011.27	3,801.98	2,052.08	1,949.03	103.05	19.914		
12,900.00	7,730.00	11,728.09	7,630.00	129.59	82.14	87.18	-1,111.27	3,801.64	2,052.07	1,947.28	104.80	19.582		
13,000.00	7,730.00	11,828.09	7,630.00	129.59	82.24	87.18	-1,211.27	3,801.31	2,052.07	1,945.44	106.63	19.244		
13,100.00	7,730.00	11,928.09	7,630.00	129.60	82.37	87.18	-1,311.27	3,800.97	2,052.07	1,943.52	108.55	18.904		
13,200.00	7,730.00	12,028.09	7,630.00	129.63	82.53	87.18	-1,411.27	3,800.63	2,052.07	1,941.51	110.56	18.562		
13,300.00	7,730.00	12,128.09	7,630.00	129.66	82.72	87.18	-1,511.26	3,800.30	2,052.07	1,939.44	112.63	18.219		
13,400.00	7,730.00	12,228.09	7,630.00	129.72	82.95	87.18	-1,611.26	3,799.96	2,052.06	1,937.29	114.78	17.879		
13,500.00	7,730.00	12,328.09	7,630.00	129.78	83.22	87.18	-1,711.26	3,799.62	2,052.06	1,935.07	116.99	17.541		
13,600.00	7,730.00	12,428.09	7,630.00	129.86	83.54	87.18	-1,811.26	3,799.29	2,052.06	1,932.79	119.27	17.206		
13,700.00	7,730.00	12,528.09	7,630.00	129.96	83.89	87.18	-1,911.26	3,798.95	2,052.06	1,930.46	121.60	16.875		
13,800.00	7,730.00	12,628.09	7,630.00	130.07	84.29	87.18	-2,011.26	3,798.62	2,052.06	1,928.06	124.00	16.549		
13,900.00	7,730.00	12,728.09	7,630.00	130.19	84.74	87.18	-2,111.26	3,798.28	2,052.06	1,925.61	126.44	16.229		
14,000.00	7,730.00	12,828.09	7,630.00	130.33	85.24	87.18	-2,211.26	3,797.94	2,052.05	1,923.12	128.94	15.915		
14,100.00	7,730.00	12,928.09	7,630.00	130.49	85.79	87.18	-2,311.26	3,797.61	2,052.05	1,920.57	131.48	15.607		
14,200.00	7,730.00	13,028.09	7,630.00	130.67	86.40	87.18	-2,411.26	3,797.27	2,052.05	1,917.98	134.07	15.306		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	13,128.09	7,630.00	130.86	87.05	87.18	-2,511.26	3,796.93	2,052.05	1,915.35	136.70	15.012		
14,400.00	7,730.00	13,228.09	7,630.00	131.07	87.76	87.18	-2,611.26	3,796.60	2,052.05	1,912.68	139.37	14.724		
14,500.00	7,730.00	13,328.09	7,630.00	131.30	88.52	87.18	-2,711.26	3,796.26	2,052.04	1,909.97	142.08	14.443		
14,600.00	7,730.00	13,428.09	7,630.00	131.55	89.33	87.18	-2,811.26	3,795.93	2,052.04	1,907.22	144.82	14.170		
14,700.00	7,730.00	13,528.09	7,630.00	131.82	90.19	87.18	-2,911.26	3,795.59	2,052.04	1,904.45	147.59	13.903		
14,800.00	7,730.00	13,628.09	7,630.00	132.11	91.10	87.18	-3,011.26	3,795.25	2,052.04	1,901.64	150.40	13.644		
14,900.00	7,730.00	13,728.09	7,630.00	132.42	92.05	87.18	-3,111.26	3,794.92	2,052.04	1,898.80	153.24	13.391		
15,000.00	7,730.00	13,828.09	7,630.00	132.75	93.05	87.18	-3,211.26	3,794.58	2,052.04	1,895.93	156.10	13.145		
15,100.00	7,730.00	13,928.09	7,630.00	133.10	94.09	87.18	-3,311.25	3,794.24	2,052.03	1,893.04	159.00	12.906		
15,200.00	7,730.00	14,028.09	7,630.00	133.48	95.17	87.18	-3,411.25	3,793.91	2,052.03	1,890.12	161.91	12.674		
15,300.00	7,730.00	14,128.09	7,630.00	133.88	96.28	87.18	-3,511.25	3,793.57	2,052.03	1,887.17	164.86	12.447		
15,400.00	7,730.00	14,228.09	7,630.00	134.31	97.43	87.18	-3,611.25	3,793.23	2,052.03	1,884.21	167.82	12.228		
15,500.00	7,730.00	14,328.09	7,630.00	134.76	98.62	87.18	-3,711.25	3,792.90	2,052.03	1,881.22	170.81	12.014		
15,600.00	7,730.00	14,428.09	7,630.00	135.23	99.83	87.18	-3,811.25	3,792.56	2,052.02	1,878.21	173.81	11.806		
15,700.00	7,730.00	14,528.09	7,630.00	135.73	101.07	87.18	-3,911.25	3,792.23	2,052.02	1,875.19	176.84	11.604		
15,800.00	7,730.00	14,628.09	7,630.00	136.26	102.33	87.18	-4,011.25	3,791.89	2,052.02	1,872.14	179.88	11.408		
15,900.00	7,730.00	14,728.09	7,630.00	136.81	103.62	87.18	-4,111.25	3,791.55	2,052.02	1,869.08	182.94	11.217		
16,000.00	7,730.00	14,828.09	7,630.00	137.39	104.93	87.18	-4,211.25	3,791.22	2,052.02	1,866.00	186.02	11.031		
16,100.00	7,730.00	14,928.09	7,630.00	138.00	106.27	87.18	-4,311.25	3,790.88	2,052.02	1,862.90	189.11	10.851		
16,200.00	7,730.00	15,028.09	7,630.00	138.63	107.62	87.18	-4,411.25	3,790.54	2,052.01	1,859.79	192.22	10.675		
16,300.00	7,730.00	15,128.09	7,630.00	139.30	108.99	87.18	-4,511.25	3,790.21	2,052.01	1,856.67	195.35	10.505		
16,400.00	7,730.00	15,228.09	7,630.00	139.99	110.37	87.18	-4,611.25	3,789.87	2,052.01	1,853.53	198.48	10.338		
16,500.00	7,730.00	15,328.09	7,630.00	140.70	111.78	87.18	-4,711.25	3,789.54	2,052.01	1,850.38	201.63	10.177		
16,600.00	7,730.00	15,428.09	7,630.00	141.45	113.19	87.18	-4,811.25	3,789.20	2,052.01	1,847.21	204.79	10.020		
16,700.00	7,730.00	15,528.09	7,630.00	142.22	114.62	87.18	-4,911.25	3,788.86	2,052.00	1,844.04	207.97	9.867		
16,800.00	7,730.00	15,628.09	7,630.00	143.03	116.07	87.18	-5,011.25	3,788.53	2,052.00	1,840.85	211.15	9.718		
16,900.00	7,730.00	15,728.09	7,630.00	143.86	117.52	87.18	-5,111.24	3,788.19	2,052.00	1,837.65	214.35	9.573		
17,000.00	7,730.00	15,828.09	7,630.00	144.71	118.99	87.18	-5,211.24	3,787.85	2,052.00	1,834.44	217.56	9.432		
17,100.00	7,730.00	15,928.09	7,630.00	145.60	120.46	87.18	-5,311.24	3,787.52	2,052.00	1,831.22	220.77	9.295		
17,200.00	7,730.00	16,028.09	7,630.00	146.51	121.95	87.18	-5,411.24	3,787.18	2,052.00	1,828.00	224.00	9.161		
17,300.00	7,730.00	16,128.09	7,630.00	147.44	123.45	87.18	-5,511.24	3,786.85	2,051.99	1,824.76	227.23	9.030		
17,400.00	7,730.00	16,228.09	7,630.00	148.40	124.95	87.18	-5,611.24	3,786.51	2,051.99	1,821.51	230.48	8.903		
17,500.00	7,730.00	16,328.09	7,630.00	149.39	126.47	87.18	-5,711.24	3,786.17	2,051.99	1,818.26	233.73	8.779		
17,600.00	7,730.00	16,428.09	7,630.00	150.40	127.99	87.18	-5,811.24	3,785.84	2,051.99	1,815.00	236.99	8.659		
17,700.00	7,730.00	16,528.09	7,630.00	151.44	129.52	87.18	-5,911.24	3,785.50	2,051.99	1,811.73	240.26	8.541		
17,800.00	7,730.00	16,628.09	7,630.00	152.50	131.06	87.18	-6,011.24	3,785.16	2,051.98	1,808.45	243.53	8.426		
17,900.00	7,730.00	16,728.09	7,630.00	153.58	132.60	87.18	-6,111.24	3,784.83	2,051.98	1,805.17	246.81	8.314		
18,000.00	7,730.00	16,828.09	7,630.00	154.68	134.15	87.18	-6,211.24	3,784.49	2,051.98	1,801.88	250.10	8.205		
18,100.00	7,730.00	16,928.09	7,630.00	155.80	135.71	87.18	-6,311.24	3,784.15	2,051.98	1,798.58	253.40	8.098		
18,200.00	7,730.00	17,028.09	7,630.00	156.95	137.27	87.18	-6,411.24	3,783.82	2,051.98	1,795.28	256.70	7.994		
18,300.00	7,730.00	17,128.09	7,630.00	158.11	138.84	87.18	-6,511.24	3,783.48	2,051.98	1,791.97	260.01	7.892		
18,400.00	7,730.00	17,228.09	7,630.00	159.30	140.41	87.18	-6,611.24	3,783.15	2,051.97	1,788.65	263.32	7.793		
18,500.00	7,730.00	17,328.09	7,630.00	160.50	141.99	87.18	-6,711.24	3,782.81	2,051.97	1,785.33	266.64	7.696		
18,600.00	7,730.00	17,428.09	7,630.00	161.72	143.57	87.18	-6,811.23	3,782.47	2,051.97	1,782.01	269.96	7.601		
18,700.00	7,730.00	17,528.09	7,630.00	162.96	145.16	87.18	-6,911.23	3,782.14	2,051.97	1,778.68	273.29	7.508		
18,800.00	7,730.00	17,628.09	7,630.00	164.21	146.75	87.18	-7,011.23	3,781.80	2,051.97	1,775.34	276.63	7.418		
18,900.00	7,730.00	17,728.09	7,630.00	165.48	148.35	87.18	-7,111.23	3,781.46	2,051.97	1,772.00	279.97	7.329		
19,000.00	7,730.00	17,828.09	7,630.00	166.76	149.95	87.18	-7,211.23	3,781.13	2,051.96	1,768.65	283.31	7.243		
19,100.00	7,730.00	17,928.09	7,630.00	168.06	151.55	87.18	-7,311.23	3,780.79	2,051.96	1,765.30	286.66	7.158		
19,200.00	7,730.00	18,028.09	7,630.00	169.38	153.16	87.18	-7,411.23	3,780.46	2,051.96	1,761.95	290.01	7.075		
19,300.00	7,730.00	18,128.09	7,630.00	170.70	154.78	87.18	-7,511.23	3,780.12	2,051.96	1,758.59	293.37	6.994		
19,400.00	7,730.00	18,228.09	7,630.00	172.04	156.39	87.18	-7,611.23	3,779.78	2,051.96	1,755.23	296.73	6.915		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	7,730.00	18,328.09	7,630.00	173.40	158.01	87.18	-7,711.23	3,779.45	2,051.95	1,751.86	300.09	6.838	
19,600.00	7,730.00	18,428.09	7,630.00	174.76	159.63	87.18	-7,811.23	3,779.11	2,051.95	1,748.49	303.46	6.762	
19,700.00	7,730.00	18,528.09	7,630.00	176.14	161.26	87.18	-7,911.23	3,778.77	2,051.95	1,745.12	306.83	6.687	
19,800.00	7,730.00	18,628.09	7,630.00	177.52	162.89	87.18	-8,011.23	3,778.44	2,051.95	1,741.74	310.21	6.615	
19,900.00	7,730.00	18,728.09	7,630.00	178.92	164.52	87.18	-8,111.23	3,778.10	2,051.95	1,738.36	313.59	6.543	
20,000.00	7,730.00	18,828.09	7,630.00	180.33	166.16	87.18	-8,211.23	3,777.77	2,051.95	1,734.97	316.97	6.474	
20,100.00	7,730.00	18,928.09	7,630.00	181.75	167.79	87.18	-8,311.23	3,777.43	2,051.94	1,731.59	320.36	6.405	
20,184.95	7,730.00	19,013.04	7,630.00	182.96	169.19	87.18	-8,396.18	3,777.14	2,051.94	1,728.71	323.24	6.348 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-89.58	0.36	-50.12	50.12					
100.00	100.00	101.00	101.00	0.13	0.14	-89.58	0.36	-50.12	50.12	49.85	0.27	183.975	CC, ES	
200.00	199.98	200.98	200.98	0.49	0.50	-160.69	0.36	-50.12	51.77	50.78	0.99	52.383		
300.00	299.84	300.84	300.84	0.86	0.85	-162.40	0.36	-50.12	56.73	55.02	1.71	33.148		
400.00	399.45	400.45	400.45	1.23	1.21	-164.68	0.36	-50.12	65.09	62.66	2.44	26.711		
500.00	498.70	500.30	499.70	1.63	1.57	-167.02	0.36	-50.12	76.92	73.75	3.17	24.294		
600.00	597.47	598.47	598.47	2.05	1.92	-169.15	0.36	-50.12	92.23	88.34	3.89	23.699		
700.00	695.62	700.33	700.33	2.51	2.28	-170.75	1.14	-48.54	109.41	104.79	4.62	23.673		
800.00	793.06	802.89	802.72	3.00	2.65	-171.73	3.53	-43.68	126.65	121.29	5.36	23.646		
900.00	889.64	906.10	905.52	3.53	3.02	-172.30	7.57	-35.46	143.90	137.80	6.10	23.592		
1,000.00	985.27	1,009.97	1,008.58	4.12	3.41	-172.58	13.28	-23.84	161.11	154.25	6.85	23.510		
1,100.00	1,079.82	1,114.50	1,111.74	4.75	3.82	-172.66	20.69	-8.77	178.25	170.63	7.62	23.396		
1,200.00	1,173.17	1,219.70	1,214.88	5.44	4.27	-172.59	29.82	9.80	195.31	186.91	8.40	23.252		
1,300.00	1,265.21	1,325.57	1,317.84	6.18	4.75	-172.40	40.69	31.90	212.24	203.06	9.19	23.097		
1,400.00	1,355.84	1,432.10	1,420.45	6.99	5.28	-172.12	53.31	57.57	229.05	219.05	10.00	22.904		
1,500.00	1,444.94	1,539.31	1,522.57	7.87	5.86	-171.76	67.70	86.84	245.70	234.87	10.83	22.683		
1,600.00	1,532.39	1,647.19	1,624.02	8.80	6.50	-171.33	83.87	119.73	262.18	250.50	11.69	22.435		
1,700.00	1,618.11	1,755.73	1,724.64	9.81	7.21	-170.85	101.83	156.27	278.48	265.91	12.57	22.157		
1,800.00	1,701.97	1,864.94	1,824.24	10.89	7.99	-170.33	121.58	196.45	294.57	281.08	13.48	21.850		
1,900.00	1,783.88	1,974.81	1,922.64	12.04	8.84	-169.76	143.13	240.28	310.43	296.00	14.43	21.512		
2,000.00	1,863.74	2,085.33	2,019.67	13.26	9.79	-169.16	166.48	287.76	326.06	310.64	15.42	21.143		
2,100.00	1,941.45	2,196.50	2,115.14	14.55	10.82	-168.52	191.60	338.87	341.44	324.98	16.46	20.743		
2,200.00	2,016.92	2,308.31	2,208.85	15.92	11.94	-167.85	218.50	393.58	356.55	339.00	17.55	20.312		
2,292.11	2,084.36	2,411.84	2,293.45	17.25	13.06	-167.20	244.83	447.14	370.22	351.60	18.62	19.885		
2,300.00	2,090.06	2,420.74	2,300.61	17.36	13.16	-167.15	247.16	451.87	371.37	352.66	18.71	19.846		
2,400.00	2,162.18	2,520.74	2,380.91	18.84	14.30	-166.57	273.45	505.36	385.53	365.55	19.98	19.297		
2,500.00	2,234.31	2,619.66	2,460.34	20.33	15.45	-166.04	299.47	558.27	399.72	378.43	21.28	18.781		
2,600.00	2,306.43	2,718.59	2,539.77	21.83	16.61	-165.55	325.48	611.19	413.93	391.32	22.62	18.302		
2,700.00	2,378.56	2,817.51	2,619.20	23.33	17.78	-165.09	351.50	664.11	428.18	404.20	23.98	17.858		
2,800.00	2,450.68	2,916.43	2,698.63	24.84	18.96	-164.66	377.51	717.02	442.45	417.09	25.36	17.446		
2,900.00	2,522.81	3,015.36	2,778.06	26.36	20.14	-164.25	403.53	769.94	456.74	429.97	26.77	17.064		
3,000.00	2,594.93	3,114.28	2,857.48	27.88	21.33	-163.87	429.54	822.86	471.05	442.86	28.19	16.709		
3,100.00	2,667.06	3,213.20	2,936.91	29.40	22.53	-163.52	455.56	875.78	485.38	455.75	29.63	16.379		
3,200.00	2,739.18	3,312.13	3,016.34	30.92	23.73	-163.18	481.57	928.69	499.73	468.64	31.09	16.072		
3,300.00	2,811.31	3,411.05	3,095.77	32.45	24.94	-162.86	507.59	981.61	514.10	481.53	32.57	15.786		
3,400.00	2,883.43	3,509.97	3,175.20	33.98	26.15	-162.56	533.60	1,034.53	528.48	494.43	34.05	15.519		
3,500.00	2,955.56	3,608.90	3,254.63	35.51	27.36	-162.28	559.62	1,087.44	542.88	507.32	35.55	15.270		
3,600.00	3,027.68	3,707.82	3,334.05	37.04	28.58	-162.01	585.63	1,140.36	557.28	520.22	37.06	15.036		
3,700.00	3,099.81	3,806.74	3,413.48	38.57	29.79	-161.75	611.65	1,193.28	571.70	533.12	38.58	14.818		
3,800.00	3,171.93	3,905.67	3,492.91	40.11	31.01	-161.51	637.66	1,246.19	586.13	546.02	40.11	14.612		
3,900.00	3,244.06	4,004.59	3,572.34	41.64	32.23	-161.27	663.68	1,299.11	600.57	558.92	41.65	14.419		
4,000.00	3,316.18	4,103.52	3,651.77	43.18	33.45	-161.05	689.69	1,352.03	615.02	571.82	43.20	14.237		
4,100.00	3,388.31	4,202.44	3,731.20	44.71	34.67	-160.84	715.71	1,404.95	629.47	584.72	44.75	14.065		
4,200.00	3,460.43	4,301.36	3,810.62	46.25	35.90	-160.64	741.72	1,457.86	643.94	597.62	46.31	13.903		
4,300.00	3,532.56	4,400.29	3,890.05	47.79	37.12	-160.45	767.74	1,510.78	658.41	610.53	47.88	13.750		
4,400.00	3,604.68	4,499.21	3,969.48	49.33	38.35	-160.26	793.76	1,563.70	672.89	623.43	49.46	13.605		
4,500.00	3,676.81	4,601.87	4,048.91	50.87	39.62	-160.09	819.77	1,616.61	687.37	636.31	51.06	13.461		
4,600.00	3,748.93	4,697.06	4,128.34	52.41	40.80	-159.92	845.79	1,669.53	701.87	649.24	52.62	13.338		
4,700.00	3,821.06	4,795.98	4,207.77	53.95	42.03	-159.75	871.80	1,722.45	716.36	662.15	54.21	13.214		
4,800.00	3,893.18	4,905.10	4,287.19	55.49	43.39	-159.60	897.82	1,775.36	730.87	674.99	55.88	13.079		
4,900.00	3,965.31	5,006.17	4,366.62	57.03	44.64	-159.45	923.83	1,828.28	745.37	687.88	57.49	12.964		
5,000.00	4,037.43	5,092.75	4,446.05	58.58	45.72	-159.30	949.85	1,881.20	759.89	700.88	59.01	12.877		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,191.67	4,525.48	60.12	46.95	-159.16	975.86	1,934.12	774.40	713.79	60.62	12.776		
5,200.00	4,181.68	5,290.60	4,604.91	61.66	48.18	-159.03	1,001.88	1,987.03	788.93	726.70	62.23	12.678		
5,300.00	4,253.81	5,389.52	4,684.34	63.20	49.41	-158.90	1,027.89	2,039.95	803.45	739.61	63.84	12.585		
5,400.00	4,325.93	5,488.44	4,763.76	64.75	50.64	-158.78	1,053.91	2,092.87	817.98	752.52	65.46	12.496		
5,500.00	4,398.06	5,587.37	4,843.19	66.29	51.88	-158.66	1,079.92	2,145.78	832.51	765.44	67.08	12.411		
5,600.00	4,470.18	5,686.29	4,922.62	67.84	53.11	-158.54	1,105.94	2,198.70	847.05	778.35	68.70	12.330		
5,700.00	4,542.31	5,785.21	5,002.05	69.38	54.34	-158.43	1,131.95	2,251.62	861.59	791.26	70.33	12.251		
5,800.00	4,614.43	5,884.14	5,081.48	70.92	55.58	-158.32	1,157.97	2,304.53	876.13	804.18	71.95	12.176		
5,900.00	4,686.56	5,983.06	5,160.91	72.47	56.81	-158.22	1,183.98	2,357.45	890.68	817.09	73.59	12.104		
6,000.00	4,758.68	6,081.99	5,240.33	74.01	58.04	-158.12	1,210.00	2,410.37	905.23	830.01	75.22	12.035		
6,100.00	4,830.81	6,180.91	5,319.76	75.56	59.28	-158.02	1,236.01	2,463.29	919.78	842.93	76.85	11.968		
6,200.00	4,902.93	6,279.83	5,399.19	77.10	60.51	-157.92	1,262.03	2,516.20	934.33	855.84	78.49	11.904		
6,300.00	4,975.06	6,378.76	5,478.62	78.65	61.75	-157.83	1,288.05	2,569.12	948.89	868.76	80.13	11.842		
6,400.00	5,047.18	6,477.68	5,558.05	80.19	62.98	-157.74	1,314.06	2,622.04	963.45	881.68	81.77	11.782		
6,500.00	5,119.31	6,576.60	5,637.48	81.74	64.22	-157.65	1,340.08	2,674.95	978.01	894.59	83.42	11.725		
6,600.00	5,191.43	6,675.53	5,716.90	83.28	65.45	-157.57	1,366.09	2,727.87	992.57	907.51	85.06	11.669		
6,700.00	5,263.56	6,774.45	5,796.33	84.83	66.69	-157.49	1,392.11	2,780.79	1,007.14	920.43	86.71	11.615		
6,800.00	5,335.68	6,873.37	5,875.76	86.37	67.92	-157.41	1,418.12	2,833.70	1,021.71	933.35	88.36	11.564		
6,900.00	5,407.81	6,972.30	5,955.19	87.92	69.16	-157.33	1,444.14	2,886.62	1,036.28	946.27	90.00	11.514		
7,000.00	5,479.93	7,071.22	6,034.62	89.47	70.39	-157.26	1,470.15	2,939.54	1,050.85	959.19	91.66	11.465		
7,100.00	5,552.06	7,170.14	6,114.05	91.01	71.63	-157.18	1,496.17	2,992.46	1,065.42	972.11	93.31	11.418		
7,200.00	5,624.18	7,269.07	6,193.47	92.56	72.87	-157.11	1,522.18	3,045.37	1,079.99	985.03	94.96	11.373		
7,300.00	5,696.31	7,367.99	6,272.90	94.10	74.10	-157.04	1,548.20	3,098.29	1,094.57	997.95	96.62	11.329		
7,400.00	5,768.43	7,466.91	6,352.33	95.65	75.34	-156.98	1,574.21	3,151.21	1,109.15	1,010.87	98.27	11.286		
7,500.00	5,840.56	7,565.84	6,431.76	97.20	76.58	-156.91	1,600.23	3,204.12	1,123.72	1,023.79	99.93	11.245		
7,600.00	5,912.68	7,664.76	6,511.19	98.74	77.81	-156.85	1,626.24	3,257.04	1,138.31	1,036.72	101.59	11.205		
7,700.00	5,984.81	7,763.68	6,590.61	100.29	79.05	-156.78	1,652.26	3,309.96	1,152.89	1,049.64	103.25	11.166		
7,800.00	6,056.93	7,862.61	6,670.04	101.84	80.29	-156.72	1,678.27	3,362.87	1,167.47	1,062.56	104.91	11.128		
7,900.00	6,129.06	7,961.53	6,749.47	103.38	81.52	-156.66	1,704.29	3,415.79	1,182.05	1,075.48	106.57	11.092		
8,000.00	6,201.18	8,060.46	6,828.90	104.93	82.76	-156.61	1,730.30	3,468.71	1,196.64	1,088.40	108.23	11.056		
8,100.00	6,273.31	8,159.38	6,908.33	106.48	84.00	-156.55	1,756.32	3,521.63	1,211.23	1,101.33	109.90	11.021		
8,200.00	6,345.43	8,258.30	6,987.76	108.02	85.23	-156.49	1,782.34	3,574.54	1,225.81	1,114.25	111.56	10.988		
8,300.00	6,417.56	8,357.23	7,067.18	109.57	86.47	-156.44	1,808.35	3,627.46	1,240.40	1,127.17	113.23	10.955		
8,400.00	6,489.68	8,456.15	7,146.61	111.12	87.71	-156.39	1,834.37	3,680.38	1,254.99	1,140.10	114.89	10.923		
8,500.00	6,561.81	8,555.07	7,226.04	112.66	88.95	-156.34	1,860.38	3,733.29	1,269.58	1,153.02	116.56	10.892		
8,600.00	6,633.93	8,672.35	7,320.94	114.21	90.39	-156.45	1,887.44	3,796.50	1,283.83	1,165.76	118.07	10.874		
8,700.00	6,706.06	8,802.95	7,429.38	115.76	91.84	-157.70	1,892.08	3,868.64	1,295.81	1,178.61	117.20	11.056		
8,800.00	6,778.18	8,916.88	7,522.62	117.30	92.85	-159.78	1,871.97	3,930.59	1,306.51	1,192.14	114.36	11.424		
8,900.00	6,850.31	9,010.10	7,595.27	118.85	93.49	-162.09	1,839.29	3,978.81	1,317.91	1,206.92	110.99	11.874		
9,000.00	6,922.43	9,084.11	7,649.24	120.40	93.86	-164.28	1,803.54	4,014.58	1,331.87	1,223.99	107.88	12.346		
9,100.00	6,994.56	9,142.49	7,688.83	121.95	94.08	-166.18	1,769.64	4,040.80	1,349.74	1,244.50	105.23	12.826		
9,200.00	7,066.68	9,188.81	7,718.09	123.49	94.20	-167.80	1,739.41	4,060.16	1,372.34	1,269.37	102.96	13.328		
9,300.00	7,138.81	9,226.01	7,740.05	125.04	94.27	-169.15	1,713.14	4,074.68	1,400.11	1,299.17	100.94	13.871		
9,392.50	7,205.52	9,250.00	7,753.45	126.47	94.30	-170.04	1,695.31	4,083.53	1,430.51	1,331.20	99.32	14.403		
9,400.00	7,210.94	9,250.00	7,753.45	126.59	94.30	-171.08	1,695.31	4,083.53	1,433.19	1,333.94	99.25	14.440		
9,450.00	7,247.42	9,270.90	7,764.60	127.35	94.32	-179.03	1,679.25	4,090.89	1,451.39	1,353.24	98.15	14.787		
9,500.00	7,284.35	9,286.36	7,772.54	128.10	94.33	172.97	1,667.05	4,096.13	1,470.30	1,372.94	97.36	15.101		
9,550.00	7,321.43	9,300.00	7,779.31	128.83	94.34	164.94	1,656.09	4,100.59	1,489.67	1,392.94	96.73	15.400		
9,600.00	7,358.38	9,319.46	7,788.59	129.52	94.33	156.83	1,640.12	4,106.71	1,509.22	1,413.20	96.02	15.717		
9,650.00	7,394.93	9,336.89	7,796.51	130.16	94.33	149.04	1,625.50	4,111.93	1,528.76	1,433.29	95.47	16.013		
9,700.00	7,430.79	9,350.00	7,802.23	130.76	94.33	141.77	1,614.32	4,115.70	1,548.07	1,452.93	95.14	16.271		
9,750.00	7,465.70	9,373.14	7,811.79	131.30	94.31	134.76	1,594.21	4,121.99	1,566.91	1,472.30	94.61	16.562		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	9,400.00	7,822.03	131.78	94.28	128.28	1,570.31	4,128.72	1,585.17	1,491.12	94.06	16.853		
9,850.00	7,531.58	9,400.00	7,822.03	132.21	94.28	122.91	1,570.31	4,128.72	1,602.62	1,508.14	94.49	16.961		
9,900.00	7,562.06	9,430.12	7,832.39	132.57	94.23	117.61	1,542.86	4,135.52	1,619.00	1,524.96	94.03	17.217		
9,950.00	7,590.58	9,450.00	7,838.57	132.87	94.20	113.08	1,524.40	4,139.56	1,634.34	1,540.29	94.05	17.376		
10,000.00	7,616.93	9,469.36	7,844.07	133.11	94.16	109.13	1,506.20	4,143.16	1,648.44	1,554.20	94.24	17.492		
10,050.00	7,640.90	9,500.00	7,851.72	133.29	94.10	105.61	1,476.95	4,148.15	1,661.28	1,567.19	94.08	17.658		
10,100.00	7,662.32	9,500.00	7,851.72	133.42	94.10	102.89	1,476.95	4,148.15	1,672.55	1,577.08	95.47	17.520		
10,150.00	7,681.01	9,529.46	7,857.83	133.50	94.02	100.39	1,448.41	4,152.12	1,682.24	1,586.60	95.64	17.589		
10,200.00	7,696.85	9,550.00	7,861.37	133.52	93.96	98.41	1,428.31	4,154.41	1,690.37	1,593.96	96.41	17.533		
10,250.00	7,709.70	9,570.08	7,864.25	133.51	93.90	96.88	1,408.53	4,156.25	1,696.83	1,599.45	97.38	17.425		
10,300.00	7,719.47	9,600.00	7,867.46	133.46	93.81	95.72	1,378.85	4,158.29	1,701.63	1,603.71	97.92	17.378		
10,350.00	7,726.09	9,600.00	7,867.46	133.37	93.81	95.03	1,378.85	4,158.29	1,704.62	1,604.16	100.47	16.967		
10,400.00	7,729.50	9,631.39	7,869.44	133.26	93.70	94.69	1,347.55	4,159.50	1,705.73	1,604.55	101.18	16.859		
10,427.79	7,730.00	9,650.00	7,869.94	133.18	93.64	94.67	1,328.95	4,159.77	1,705.66	1,604.13	101.53	16.800		
10,500.00	7,730.00	9,691.38	7,870.00	132.98	93.49	94.68	1,287.56	4,159.67	1,705.35	1,602.39	102.95	16.564		
10,503.38	7,730.00	9,694.76	7,870.00	132.97	93.48	94.68	1,284.19	4,159.66	1,705.35	1,602.42	102.92	16.569		
10,600.00	7,730.00	9,791.38	7,870.00	132.72	93.14	94.68	1,187.56	4,159.33	1,705.35	1,603.30	102.04	16.712		
10,700.00	7,730.00	9,908.62	7,870.00	132.47	92.75	94.68	1,087.56	4,158.99	1,705.35	1,604.16	101.18	16.854		
10,800.00	7,730.00	10,008.62	7,870.00	132.22	92.43	94.68	987.57	4,158.66	1,705.34	1,604.83	100.51	16.966		
10,900.00	7,730.00	10,108.62	7,870.00	131.99	92.13	94.68	887.57	4,158.32	1,705.34	1,605.38	99.97	17.059		
11,000.00	7,730.00	10,208.62	7,870.00	131.77	91.85	94.68	787.57	4,157.98	1,705.34	1,605.80	99.54	17.132		
11,100.00	7,730.00	10,308.62	7,870.00	131.56	91.58	94.68	687.57	4,157.64	1,705.34	1,606.10	99.24	17.184		
11,200.00	7,730.00	10,408.62	7,870.00	131.36	91.32	94.68	587.57	4,157.31	1,705.34	1,606.28	99.06	17.215		
11,300.00	7,730.00	10,508.62	7,870.00	131.17	91.08	94.68	487.57	4,156.97	1,705.34	1,606.33	99.01	17.223		
11,400.00	7,730.00	10,591.38	7,870.00	130.99	90.90	94.68	387.57	4,156.63	1,705.34	1,606.27	99.07	17.213		
11,500.00	7,730.00	10,708.62	7,870.00	130.82	90.66	94.68	287.57	4,156.29	1,705.34	1,606.05	99.29	17.176		
11,600.00	7,730.00	10,808.62	7,870.00	130.66	90.47	94.68	187.57	4,155.96	1,705.34	1,605.73	99.61	17.119		
11,700.00	7,730.00	10,908.62	7,870.00	130.51	90.29	94.68	87.57	4,155.62	1,705.34	1,605.28	100.06	17.043		
11,800.00	7,730.00	11,008.62	7,870.00	130.37	90.13	94.68	-12.43	4,155.28	1,705.34	1,604.70	100.63	16.946		
11,900.00	7,730.00	11,108.62	7,870.00	130.24	89.99	94.68	-112.43	4,154.94	1,705.34	1,604.01	101.33	16.830		
12,000.00	7,730.00	11,208.62	7,870.00	130.13	89.87	94.68	-212.43	4,154.61	1,705.34	1,603.20	102.13	16.697		
12,100.00	7,730.00	11,308.62	7,870.00	130.02	89.76	94.68	-312.43	4,154.27	1,705.34	1,602.28	103.06	16.548		
12,200.00	7,730.00	11,408.62	7,870.00	129.93	89.67	94.68	-412.43	4,153.93	1,705.34	1,601.25	104.09	16.383		
12,300.00	7,730.00	11,508.62	7,870.00	129.85	89.60	94.68	-512.43	4,153.59	1,705.34	1,600.10	105.23	16.206		
12,400.00	7,730.00	11,608.62	7,870.00	129.77	89.55	94.68	-612.43	4,153.26	1,705.34	1,598.86	106.48	16.016		
12,500.00	7,730.00	11,708.62	7,870.00	129.71	89.51	94.68	-712.43	4,152.92	1,705.33	1,597.51	107.83	15.816		
12,600.00	7,730.00	11,808.62	7,870.00	129.66	89.50	94.68	-812.42	4,152.58	1,705.33	1,596.06	109.27	15.606		
12,700.00	7,730.00	11,891.38	7,870.00	129.63	89.50	94.68	-912.42	4,152.24	1,705.33	1,594.67	110.67	15.410		
12,800.00	7,730.00	12,008.62	7,870.00	129.60	89.54	94.68	-1,012.42	4,151.91	1,705.33	1,592.90	112.44	15.167		
12,900.00	7,730.00	12,108.62	7,870.00	129.59	89.59	94.68	-1,112.42	4,151.57	1,705.33	1,591.18	114.15	14.939		
13,000.00	7,730.00	12,208.62	7,870.00	129.59	89.67	94.68	-1,212.42	4,151.23	1,705.33	1,589.39	115.95	14.708		
13,100.00	7,730.00	12,308.62	7,870.00	129.60	89.78	94.68	-1,312.42	4,150.89	1,705.33	1,587.51	117.82	14.474		
13,200.00	7,730.00	12,408.62	7,870.00	129.63	89.91	94.68	-1,412.42	4,150.56	1,705.33	1,585.56	119.77	14.239		
13,300.00	7,730.00	12,508.62	7,870.00	129.66	90.07	94.68	-1,512.42	4,150.22	1,705.33	1,583.55	121.78	14.003		
13,400.00	7,730.00	12,608.62	7,870.00	129.72	90.26	94.68	-1,612.42	4,149.88	1,705.33	1,581.46	123.87	13.767		
13,500.00	7,730.00	12,691.38	7,870.00	129.78	90.44	94.68	-1,712.42	4,149.54	1,705.33	1,579.51	125.82	13.553		
13,600.00	7,730.00	12,808.62	7,870.00	129.86	90.73	94.68	-1,812.42	4,149.21	1,705.33	1,577.10	128.23	13.299		
13,700.00	7,730.00	12,908.62	7,870.00	129.96	91.02	94.68	-1,912.42	4,148.87	1,705.33	1,574.83	130.50	13.068		
13,800.00	7,730.00	13,008.62	7,870.00	130.07	91.34	94.68	-2,012.42	4,148.53	1,705.33	1,572.51	132.82	12.839		
13,900.00	7,730.00	13,108.62	7,870.00	130.19	91.71	94.68	-2,112.42	4,148.19	1,705.33	1,570.13	135.20	12.614		
14,000.00	7,730.00	13,208.62	7,870.00	130.33	92.11	94.68	-2,212.42	4,147.86	1,705.33	1,567.71	137.62	12.392		
14,100.00	7,730.00	13,308.62	7,870.00	130.49	92.56	94.68	-2,312.42	4,147.52	1,705.33	1,565.23	140.09	12.173		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,391.38	7,870.00	130.67	92.96	94.68	-2,412.42	4,147.18	1,705.33	1,562.94	142.38	11.977		
14,300.00	7,730.00	13,508.62	7,870.00	130.86	93.58	94.68	-2,512.41	4,146.84	1,705.32	1,560.16	145.16	11.748		
14,400.00	7,730.00	13,608.62	7,870.00	131.07	94.15	94.68	-2,612.41	4,146.51	1,705.32	1,557.56	147.76	11.541		
14,500.00	7,730.00	13,708.62	7,870.00	131.30	94.77	94.68	-2,712.41	4,146.17	1,705.32	1,554.93	150.39	11.339		
14,600.00	7,730.00	13,808.62	7,870.00	131.55	95.44	94.68	-2,812.41	4,145.83	1,705.32	1,552.26	153.06	11.141		
14,700.00	7,730.00	13,908.62	7,870.00	131.82	96.15	94.68	-2,912.41	4,145.49	1,705.32	1,549.55	155.77	10.948		
14,800.00	7,730.00	14,008.62	7,870.00	132.11	96.91	94.68	-3,012.41	4,145.16	1,705.32	1,546.82	158.50	10.759		
14,900.00	7,730.00	14,108.62	7,870.00	132.42	97.71	94.68	-3,112.41	4,144.82	1,705.32	1,544.05	161.27	10.574		
15,000.00	7,730.00	14,208.62	7,870.00	132.75	98.56	94.68	-3,212.41	4,144.48	1,705.32	1,541.25	164.07	10.394		
15,100.00	7,730.00	14,308.62	7,870.00	133.10	99.45	94.68	-3,312.41	4,144.14	1,705.32	1,538.43	166.89	10.218		
15,200.00	7,730.00	14,408.62	7,870.00	133.48	100.38	94.68	-3,412.41	4,143.81	1,705.32	1,535.58	169.74	10.047		
15,300.00	7,730.00	14,508.62	7,870.00	133.88	101.35	94.68	-3,512.41	4,143.47	1,705.32	1,532.70	172.61	9.879		
15,400.00	7,730.00	14,608.62	7,870.00	134.31	102.36	94.68	-3,612.41	4,143.13	1,705.32	1,529.81	175.51	9.716		
15,500.00	7,730.00	14,708.62	7,870.00	134.76	103.40	94.68	-3,712.41	4,142.79	1,705.32	1,526.88	178.43	9.557		
15,600.00	7,730.00	14,808.62	7,870.00	135.23	104.48	94.68	-3,812.41	4,142.46	1,705.32	1,523.94	181.38	9.402		
15,700.00	7,730.00	14,908.62	7,870.00	135.73	105.59	94.68	-3,912.41	4,142.12	1,705.32	1,520.98	184.34	9.251		
15,800.00	7,730.00	14,991.38	7,870.00	136.26	106.53	94.68	-4,012.41	4,141.78	1,705.32	1,518.26	187.06	9.117		
15,900.00	7,730.00	15,108.62	7,870.00	136.81	107.90	94.68	-4,112.41	4,141.44	1,705.32	1,514.99	190.32	8.960		
16,000.00	7,730.00	15,208.62	7,870.00	137.39	109.10	94.68	-4,212.41	4,141.10	1,705.31	1,511.98	193.34	8.820		
16,100.00	7,730.00	15,308.62	7,870.00	138.00	110.33	94.68	-4,312.40	4,140.77	1,705.31	1,508.94	196.37	8.684		
16,200.00	7,730.00	15,408.62	7,870.00	138.63	111.58	94.68	-4,412.40	4,140.43	1,705.31	1,505.89	199.43	8.551		
16,300.00	7,730.00	15,508.62	7,870.00	139.30	112.85	94.68	-4,512.40	4,140.09	1,705.31	1,502.82	202.49	8.422		
16,400.00	7,730.00	15,608.62	7,870.00	139.99	114.14	94.68	-4,612.40	4,139.75	1,705.31	1,499.74	205.57	8.295		
16,500.00	7,730.00	15,708.62	7,870.00	140.70	115.46	94.68	-4,712.40	4,139.42	1,705.31	1,496.64	208.67	8.172		
16,600.00	7,730.00	15,808.62	7,870.00	141.45	116.79	94.68	-4,812.40	4,139.08	1,705.31	1,493.53	211.78	8.052		
16,700.00	7,730.00	15,908.62	7,870.00	142.22	118.14	94.68	-4,912.40	4,138.74	1,705.31	1,490.41	214.90	7.935		
16,800.00	7,730.00	16,008.62	7,870.00	143.03	119.51	94.68	-5,012.40	4,138.40	1,705.31	1,487.28	218.03	7.821		
16,900.00	7,730.00	16,108.62	7,870.00	143.86	120.89	94.68	-5,112.40	4,138.07	1,705.31	1,484.13	221.18	7.710		
17,000.00	7,730.00	16,208.62	7,870.00	144.71	122.29	94.68	-5,212.40	4,137.73	1,705.31	1,480.97	224.34	7.602		
17,100.00	7,730.00	16,308.62	7,870.00	145.60	123.70	94.68	-5,312.40	4,137.39	1,705.31	1,477.81	227.50	7.496		
17,200.00	7,730.00	16,408.62	7,870.00	146.51	125.12	94.68	-5,412.40	4,137.05	1,705.31	1,474.63	230.68	7.392		
17,300.00	7,730.00	16,508.62	7,870.00	147.44	126.56	94.68	-5,512.40	4,136.72	1,705.31	1,471.44	233.87	7.292		
17,400.00	7,730.00	16,608.62	7,870.00	148.40	128.01	94.68	-5,612.40	4,136.38	1,705.31	1,468.24	237.07	7.193		
17,500.00	7,730.00	16,708.62	7,870.00	149.39	129.46	94.68	-5,712.40	4,136.04	1,705.31	1,465.03	240.27	7.097		
17,600.00	7,730.00	16,808.62	7,870.00	150.40	130.93	94.68	-5,812.40	4,135.70	1,705.31	1,461.82	243.49	7.004		
17,700.00	7,730.00	16,908.62	7,870.00	151.44	132.41	94.68	-5,912.40	4,135.37	1,705.30	1,458.59	246.71	6.912		
17,800.00	7,730.00	17,008.62	7,870.00	152.50	133.90	94.68	-6,012.40	4,135.03	1,705.30	1,455.36	249.95	6.823		
17,900.00	7,730.00	17,108.62	7,870.00	153.58	135.40	94.68	-6,112.39	4,134.69	1,705.30	1,452.12	253.19	6.735		
18,000.00	7,730.00	17,208.62	7,870.00	154.68	136.90	94.68	-6,212.39	4,134.35	1,705.30	1,448.87	256.43	6.650		
18,100.00	7,730.00	17,308.62	7,870.00	155.80	138.41	94.68	-6,312.39	4,134.02	1,705.30	1,445.62	259.69	6.567		
18,200.00	7,730.00	17,408.62	7,870.00	156.95	139.93	94.68	-6,412.39	4,133.68	1,705.30	1,442.35	262.95	6.485		
18,300.00	7,730.00	17,508.62	7,870.00	158.11	141.46	94.68	-6,512.39	4,133.34	1,705.30	1,439.08	266.22	6.406		
18,400.00	7,730.00	17,608.62	7,870.00	159.30	143.00	94.68	-6,612.39	4,133.00	1,705.30	1,435.81	269.49	6.328		
18,500.00	7,730.00	17,708.62	7,870.00	160.50	144.54	94.68	-6,712.39	4,132.67	1,705.30	1,432.53	272.77	6.252		
18,600.00	7,730.00	17,808.62	7,870.00	161.72	146.08	94.68	-6,812.39	4,132.33	1,705.30	1,429.24	276.06	6.177		
18,700.00	7,730.00	17,891.38	7,870.00	162.96	147.37	94.68	-6,912.39	4,131.99	1,705.30	1,426.23	279.07	6.111		
18,800.00	7,730.00	18,008.62	7,870.00	164.21	149.20	94.68	-7,012.39	4,131.65	1,705.30	1,422.65	282.65	6.033		
18,900.00	7,730.00	18,108.62	7,870.00	165.48	150.76	94.68	-7,112.39	4,131.32	1,705.30	1,419.34	285.96	5.964		
19,000.00	7,730.00	18,208.62	7,870.00	166.76	152.33	94.68	-7,212.39	4,130.98	1,705.30	1,416.03	289.26	5.895		
19,100.00	7,730.00	18,308.62	7,870.00	168.06	153.91	94.68	-7,312.39	4,130.64	1,705.30	1,412.72	292.58	5.828		
19,200.00	7,730.00	18,408.62	7,870.00	169.38	155.48	94.68	-7,412.39	4,130.30	1,705.30	1,409.40	295.90	5.763		
19,300.00	7,730.00	18,508.62	7,870.00	170.70	157.07	94.68	-7,512.39	4,129.97	1,705.30	1,406.07	299.22	5.699		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,608.62	7,870.00	172.04	158.66	94.68	-7,612.39	4,129.63	1,705.30	1,402.75	302.55	5.636	
19,500.00	7,730.00	18,708.62	7,870.00	173.40	160.25	94.68	-7,712.39	4,129.29	1,705.29	1,399.41	305.88	5.575	
19,600.00	7,730.00	18,808.62	7,870.00	174.76	161.85	94.68	-7,812.38	4,128.95	1,705.29	1,396.07	309.22	5.515	
19,700.00	7,730.00	18,908.62	7,870.00	176.14	163.45	94.68	-7,912.38	4,128.62	1,705.29	1,392.73	312.56	5.456	
19,800.00	7,730.00	18,991.38	7,870.00	177.52	164.77	94.68	-8,012.38	4,128.28	1,705.29	1,389.68	315.62	5.403	
19,900.00	7,730.00	19,108.62	7,870.00	178.92	166.66	94.68	-8,112.38	4,127.94	1,705.29	1,386.04	319.26	5.341	
20,000.00	7,730.00	19,191.38	7,870.00	180.33	167.99	94.68	-8,212.38	4,127.60	1,705.29	1,382.97	322.32	5.291	
20,100.00	7,730.00	19,291.38	7,870.00	181.75	169.61	94.68	-8,312.38	4,127.27	1,705.29	1,379.62	325.67	5.236	
20,184.95	7,730.00	19,376.34	7,870.00	182.96	170.98	94.68	-8,397.33	4,126.98	1,705.29	1,376.76	328.53	5.191 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.48	0.36	-40.04	40.04					
100.00	100.00	100.00	100.00	0.13	0.13	-89.48	0.36	-40.04	40.04	39.77	0.27	148.936	CC, ES	
200.00	199.98	200.02	199.98	0.49	0.49	-160.74	0.36	-40.04	41.69	40.70	0.98	42.330		
300.00	299.84	300.16	299.84	0.86	0.85	-162.83	0.36	-40.04	46.66	44.95	1.71	27.301		
400.00	399.45	400.55	399.45	1.23	1.21	-165.47	0.36	-40.04	55.05	52.61	2.44	22.585		
500.00	498.70	498.70	498.70	1.63	1.56	-168.04	0.36	-40.04	66.92	63.76	3.16	21.174		
600.00	597.47	600.21	600.19	2.05	1.92	-169.98	1.10	-38.45	80.64	76.76	3.88	20.761		
700.00	695.62	702.26	702.09	2.51	2.29	-171.16	3.34	-33.55	94.43	89.82	4.61	20.475		
800.00	793.06	804.82	804.25	3.00	2.66	-171.86	7.12	-25.31	108.23	102.88	5.35	20.237		
900.00	889.64	907.91	906.53	3.53	3.05	-172.24	12.46	-13.69	121.99	115.90	6.09	20.022		
1,000.00	985.27	1,011.51	1,008.79	4.12	3.46	-172.40	19.36	1.35	135.70	128.86	6.85	19.812		
1,100.00	1,079.82	1,115.63	1,110.90	4.75	3.91	-172.39	27.85	19.85	149.34	141.72	7.62	19.603		
1,200.00	1,173.17	1,220.28	1,212.71	5.44	4.39	-172.25	37.93	41.82	162.88	154.48	8.40	19.396		
1,300.00	1,265.21	1,325.44	1,314.07	6.18	4.92	-172.02	49.62	67.30	176.30	167.11	9.20	19.171		
1,400.00	1,355.84	1,431.13	1,414.82	6.99	5.50	-171.72	62.92	96.29	189.60	179.59	10.01	18.936		
1,500.00	1,444.94	1,537.34	1,514.82	7.87	6.14	-171.34	77.84	128.80	202.76	191.90	10.85	18.686		
1,600.00	1,532.39	1,644.06	1,613.89	8.80	6.84	-170.91	94.38	164.84	215.75	204.04	11.71	18.421		
1,700.00	1,618.11	1,751.29	1,711.88	9.81	7.61	-170.44	112.53	204.41	228.58	215.98	12.60	18.137		
1,800.00	1,701.97	1,859.04	1,808.63	10.89	8.46	-169.92	132.30	247.49	241.23	227.70	13.53	17.835		
1,900.00	1,783.88	1,967.28	1,903.96	12.04	9.39	-169.37	153.68	294.07	253.68	239.20	14.49	17.513		
2,000.00	1,863.74	2,076.02	1,997.71	13.26	10.40	-168.79	176.65	344.13	265.93	250.44	15.49	17.171		
2,100.00	1,941.45	2,185.24	2,089.71	14.55	11.50	-168.17	201.20	397.63	277.95	261.42	16.54	16.809		
2,200.00	2,016.92	2,294.94	2,179.79	15.92	12.69	-167.53	227.31	454.53	289.75	272.11	17.64	16.427		
2,292.11	2,084.36	2,396.40	2,260.90	17.25	13.86	-166.92	252.72	509.91	300.40	281.69	18.71	16.056		
2,300.00	2,090.06	2,405.11	2,267.77	17.36	13.97	-166.87	254.96	514.79	301.29	282.49	18.80	16.022		
2,400.00	2,162.18	2,507.19	2,347.58	18.84	15.22	-166.25	281.50	572.63	311.70	291.60	20.10	15.511		
2,500.00	2,234.31	2,606.61	2,425.24	20.33	16.45	-165.68	307.38	629.04	322.03	300.59	21.44	15.017		
2,600.00	2,306.43	2,706.02	2,502.90	21.83	17.70	-165.15	333.27	685.45	332.40	309.57	22.83	14.562		
2,700.00	2,378.56	2,805.44	2,580.56	23.33	18.96	-164.65	359.15	741.86	342.79	318.55	24.24	14.143		
2,800.00	2,450.68	2,904.85	2,658.23	24.84	20.23	-164.18	385.04	798.27	353.20	327.53	25.67	13.757		
2,900.00	2,522.81	3,004.27	2,735.89	26.36	21.51	-163.74	410.92	854.69	363.64	336.50	27.14	13.400		
3,000.00	2,594.93	3,103.69	2,813.55	27.88	22.79	-163.32	436.81	911.10	374.10	345.48	28.62	13.071		
3,100.00	2,667.06	3,203.10	2,891.21	29.40	24.07	-162.92	462.70	967.51	384.57	354.45	30.12	12.766		
3,200.00	2,739.18	3,302.52	2,968.87	30.92	25.36	-162.54	488.58	1,023.92	395.07	363.42	31.65	12.484		
3,300.00	2,811.31	3,401.93	3,046.53	32.45	26.66	-162.19	514.47	1,080.33	405.58	372.39	33.19	12.221		
3,400.00	2,883.43	3,501.35	3,124.19	33.98	27.95	-161.85	540.35	1,136.74	416.10	381.36	34.74	11.977		
3,500.00	2,955.56	3,600.76	3,201.85	35.51	29.25	-161.53	566.24	1,193.15	426.64	390.33	36.31	11.750		
3,600.00	3,027.68	3,700.18	3,279.51	37.04	30.55	-161.22	592.12	1,249.57	437.19	399.30	37.89	11.538		
3,700.00	3,099.81	3,800.41	3,357.17	38.57	31.87	-160.93	618.01	1,305.98	447.75	408.26	39.49	11.337		
3,800.00	3,171.93	3,900.99	3,434.83	40.11	33.19	-160.66	643.89	1,362.39	458.32	417.22	41.11	11.149		
3,900.00	3,244.06	4,001.58	3,512.49	41.64	34.51	-160.39	669.78	1,418.80	468.91	426.17	42.73	10.973		
4,000.00	3,316.18	4,102.16	3,590.15	43.18	35.83	-160.14	695.66	1,475.21	479.50	435.13	44.37	10.807		
4,100.00	3,388.31	4,202.74	3,667.81	44.71	37.16	-159.89	721.55	1,531.62	490.10	444.09	46.01	10.652		
4,200.00	3,460.43	4,303.33	3,745.47	46.25	38.49	-159.66	747.43	1,588.03	500.71	453.05	47.66	10.505		
4,300.00	3,532.56	4,403.91	3,823.13	47.79	39.81	-159.44	773.32	1,644.45	511.33	462.00	49.32	10.367		
4,400.00	3,604.68	4,504.50	3,900.79	49.33	41.14	-159.22	799.21	1,700.86	521.95	470.96	50.99	10.236		
4,500.00	3,676.81	4,605.08	3,978.45	50.87	42.47	-159.02	825.09	1,757.27	532.58	479.92	52.67	10.112		
4,600.00	3,748.93	4,705.67	4,056.11	52.41	43.80	-158.82	850.98	1,813.68	543.22	488.87	54.35	9.995		
4,700.00	3,821.06	4,806.25	4,133.77	53.95	45.13	-158.63	876.86	1,870.09	553.87	497.83	56.04	9.884		
4,800.00	3,893.18	4,906.84	4,211.43	55.49	46.46	-158.45	902.75	1,926.50	564.52	506.79	57.73	9.778		
4,900.00	3,965.31	5,007.42	4,289.09	57.03	47.79	-158.28	928.63	1,982.91	575.17	515.74	59.43	9.678		
5,000.00	4,037.43	5,108.01	4,366.75	58.58	49.12	-158.11	954.52	2,039.33	585.83	524.70	61.13	9.583		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,191.41	4,444.41	60.12	50.23	-157.94	980.40	2,095.74	596.50	533.79	62.71	9.512		
5,200.00	4,181.68	5,290.83	4,522.07	61.66	51.54	-157.79	1,006.29	2,152.15	607.17	542.75	64.42	9.426		
5,300.00	4,253.81	5,409.76	4,599.73	63.20	53.12	-157.63	1,032.17	2,208.56	617.85	551.57	66.27	9.323		
5,400.00	4,325.93	5,489.66	4,677.40	64.75	54.18	-157.49	1,058.06	2,264.97	628.52	560.69	67.84	9.265		
5,500.00	4,398.06	5,589.07	4,755.06	66.29	55.50	-157.34	1,083.94	2,321.38	639.21	569.65	69.55	9.190		
5,600.00	4,470.18	5,688.49	4,832.72	67.84	56.82	-157.21	1,109.83	2,377.79	649.89	578.62	71.27	9.118		
5,700.00	4,542.31	5,787.90	4,910.38	69.38	58.14	-157.07	1,135.72	2,434.21	660.58	587.59	73.00	9.049		
5,800.00	4,614.43	5,887.32	4,988.04	70.92	59.45	-156.95	1,161.60	2,490.62	671.28	596.55	74.72	8.983		
5,900.00	4,686.56	5,966.73	5,065.70	72.47	60.77	-156.82	1,187.49	2,547.03	681.97	605.52	76.45	8.920		
6,000.00	4,758.68	6,086.15	5,143.36	74.01	62.09	-156.70	1,213.37	2,603.44	692.67	614.49	78.19	8.859		
6,100.00	4,830.81	6,185.57	5,221.02	75.56	63.41	-156.58	1,239.26	2,659.85	703.38	623.46	79.92	8.801		
6,200.00	4,902.93	6,284.98	5,298.68	77.10	64.73	-156.47	1,265.14	2,716.26	714.08	632.42	81.66	8.745		
6,300.00	4,975.06	6,384.40	5,376.34	78.65	66.05	-156.36	1,291.03	2,772.67	724.79	641.39	83.40	8.691		
6,400.00	5,047.18	6,483.81	5,454.00	80.19	67.38	-156.25	1,316.91	2,829.09	735.50	650.36	85.14	8.638		
6,500.00	5,119.31	6,583.23	5,531.66	81.74	68.70	-156.15	1,342.80	2,885.50	746.21	659.33	86.89	8.588		
6,600.00	5,191.43	6,682.64	5,609.32	83.28	70.02	-156.05	1,368.68	2,941.91	756.93	668.29	88.64	8.540		
6,700.00	5,263.56	6,782.06	5,686.98	84.83	71.34	-155.95	1,394.57	2,998.32	767.65	677.26	90.39	8.493		
6,800.00	5,335.68	6,881.47	5,764.64	86.37	72.66	-155.85	1,420.45	3,054.73	778.37	686.23	92.14	8.448		
6,900.00	5,407.81	6,980.89	5,842.30	87.92	73.98	-155.76	1,446.34	3,111.14	789.09	695.20	93.89	8.404		
7,000.00	5,479.93	7,080.31	5,919.96	89.47	75.30	-155.67	1,472.22	3,167.56	799.81	704.17	95.65	8.362		
7,100.00	5,552.06	7,179.72	5,997.62	91.01	76.62	-155.58	1,498.11	3,223.97	810.54	713.14	97.40	8.321		
7,200.00	5,624.18	7,279.14	6,075.28	92.56	77.95	-155.50	1,524.00	3,280.38	821.27	722.11	99.16	8.282		
7,300.00	5,696.31	7,378.55	6,152.94	94.10	79.27	-155.41	1,549.88	3,336.79	832.00	731.07	100.92	8.244		
7,400.00	5,768.43	7,477.97	6,230.60	95.65	80.59	-155.33	1,575.77	3,393.20	842.73	740.04	102.69	8.207		
7,500.00	5,840.56	7,577.38	6,308.26	97.20	81.91	-155.25	1,601.65	3,449.61	853.46	749.01	104.45	8.171		
7,600.00	5,912.68	7,676.80	6,385.92	98.74	83.23	-155.18	1,627.54	3,506.02	864.20	757.98	106.21	8.136		
7,700.00	5,984.81	7,776.21	6,463.58	100.29	84.56	-155.10	1,653.42	3,562.44	874.93	766.95	107.98	8.103		
7,800.00	6,056.93	7,875.63	6,541.24	101.84	85.88	-155.03	1,679.31	3,618.85	885.67	775.92	109.75	8.070		
7,900.00	6,129.06	7,975.04	6,618.90	103.38	87.20	-154.95	1,705.19	3,675.26	896.41	784.89	111.52	8.038		
8,000.00	6,201.18	8,074.46	6,696.57	104.93	88.52	-154.88	1,731.08	3,731.67	907.15	793.86	113.29	8.007		
8,100.00	6,273.31	8,173.88	6,774.23	106.48	89.85	-154.82	1,756.96	3,788.08	917.89	802.83	115.06	7.977		
8,200.00	6,345.43	8,273.29	6,851.89	108.02	91.17	-154.75	1,782.85	3,844.49	928.63	811.80	116.83	7.948		
8,300.00	6,417.56	8,372.71	6,929.55	109.57	92.49	-154.68	1,808.73	3,900.90	939.38	820.77	118.61	7.920		
8,400.00	6,489.68	8,472.12	7,007.21	111.12	93.82	-154.62	1,834.62	3,957.32	950.12	829.74	120.38	7.893		
8,500.00	6,561.81	8,571.54	7,084.87	112.66	95.14	-154.56	1,860.51	4,013.73	960.87	838.71	122.16	7.866		
8,600.00	6,633.93	8,679.87	7,169.67	114.21	96.58	-154.54	1,887.85	4,075.32	971.51	847.59	123.92	7.840		
8,700.00	6,706.06	8,814.24	7,277.73	115.76	98.24	-155.80	1,899.95	4,153.74	979.56	856.54	123.01	7.963		
8,800.00	6,778.18	8,933.80	7,373.53	117.30	99.48	-158.36	1,884.33	4,223.16	985.26	866.24	119.02	8.278		
8,900.00	6,850.31	9,032.60	7,449.37	118.85	100.30	-161.42	1,853.12	4,278.06	991.22	877.17	114.05	8.691		
9,000.00	6,922.43	9,111.23	7,505.94	120.40	100.79	-164.40	1,817.08	4,318.97	1,000.08	890.60	109.48	9.135		
9,100.00	6,994.56	9,173.11	7,547.34	121.95	101.08	-167.02	1,782.19	4,348.88	1,013.83	908.13	105.70	9.591		
9,200.00	7,066.68	9,222.03	7,577.77	123.49	101.26	-169.25	1,750.84	4,370.84	1,033.73	931.15	102.58	10.077		
9,300.00	7,138.81	9,261.13	7,600.48	125.04	101.37	-171.10	1,723.55	4,387.21	1,060.39	960.53	99.86	10.619		
9,392.50	7,205.52	9,290.67	7,616.60	126.47	101.43	-172.54	1,701.70	4,398.83	1,091.19	993.68	97.50	11.191		
9,400.00	7,210.94	9,292.86	7,617.76	126.59	101.43	-173.70	1,700.04	4,399.67	1,093.94	996.62	97.32	11.241		
9,450.00	7,247.42	9,308.02	7,625.64	127.35	101.45	-178.33	1,688.40	4,405.34	1,112.85	1,016.71	96.14	11.576		
9,500.00	7,284.35	9,324.03	7,633.69	128.10	101.47	-170.06	1,675.83	4,411.14	1,132.60	1,037.55	95.05	11.916		
9,550.00	7,321.43	9,340.77	7,641.80	128.83	101.49	-161.68	1,662.41	4,416.97	1,152.89	1,058.85	94.05	12.259		
9,600.00	7,358.38	9,350.00	7,646.13	129.52	101.50	-153.70	1,654.87	4,420.09	1,173.50	1,080.22	93.28	12.581		
9,650.00	7,394.93	9,375.99	7,657.81	130.16	101.51	-145.38	1,633.22	4,428.48	1,194.00	1,101.75	92.25	12.943		
9,700.00	7,430.79	9,400.00	7,667.87	130.76	101.51	-137.61	1,612.66	4,435.72	1,214.35	1,122.99	91.35	13.293		
9,750.00	7,465.70	9,413.04	7,673.05	131.30	101.50	-130.72	1,601.28	4,439.43	1,234.17	1,143.40	90.77	13.597		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	9,432.10	7,680.23	131.78	101.49	124.26	1,584.40	4,444.58	1,253.35	1,163.18	90.18	13.899		
9,850.00	7,531.58	9,450.00	7,686.55	132.21	101.48	118.45	1,568.28	4,449.11	1,271.67	1,181.93	89.75	14.169		
9,900.00	7,562.06	9,471.06	7,693.47	132.57	101.46	113.21	1,549.02	4,454.07	1,288.97	1,199.58	89.39	14.420		
9,950.00	7,590.58	9,500.00	7,702.04	132.87	101.42	108.46	1,522.06	4,460.19	1,305.15	1,216.25	88.90	14.681		
10,000.00	7,616.93	9,500.00	7,702.04	133.11	101.42	104.75	1,522.06	4,460.19	1,319.99	1,230.23	89.76	14.705		
10,050.00	7,640.90	9,531.07	7,709.99	133.29	101.36	101.14	1,492.57	4,465.86	1,333.26	1,243.73	89.54	14.891		
10,100.00	7,662.32	9,550.00	7,714.20	133.42	101.33	98.22	1,474.36	4,468.85	1,345.10	1,255.01	90.10	14.930		
10,150.00	7,681.01	9,571.81	7,718.44	133.50	101.27	95.76	1,453.19	4,471.85	1,355.32	1,264.57	90.75	14.934		
10,200.00	7,696.85	9,600.00	7,722.96	133.52	101.20	93.72	1,425.54	4,475.03	1,363.90	1,272.68	91.22	14.951		
10,250.00	7,709.70	9,612.91	7,724.66	133.51	101.17	92.22	1,412.80	4,476.22	1,370.62	1,277.65	92.97	14.742		
10,300.00	7,719.47	9,633.56	7,726.89	133.46	101.11	91.09	1,392.33	4,477.77	1,375.58	1,281.13	94.46	14.563		
10,350.00	7,726.09	9,650.00	7,728.24	133.37	101.06	90.36	1,375.97	4,478.69	1,378.73	1,282.19	96.54	14.282		
10,400.00	7,729.50	9,674.94	7,729.56	133.26	100.98	90.02	1,351.09	4,479.57	1,379.99	1,281.86	98.13	14.063		
10,427.79	7,730.00	9,686.45	7,729.87	133.18	100.94	89.99	1,339.58	4,479.75	1,379.90	1,280.59	99.30	13.896		
10,453.21	7,730.00	9,707.20	7,730.00	133.11	100.87	90.00	1,333.29	4,479.83	1,379.67	1,278.94	100.73	13.697		
10,500.00	7,730.00	9,739.53	7,730.00	132.98	100.76	90.00	1,286.50	4,479.67	1,379.67	1,279.38	100.29	13.757		
10,600.00	7,730.00	9,839.53	7,730.00	132.72	100.43	90.00	1,186.50	4,479.33	1,379.67	1,280.41	99.26	13.900		
10,700.00	7,730.00	9,939.53	7,730.00	132.47	100.11	90.00	1,086.50	4,478.99	1,379.67	1,281.33	98.34	14.030		
10,800.00	7,730.00	10,039.53	7,730.00	132.22	99.81	90.00	986.50	4,478.65	1,379.67	1,282.13	97.54	14.144		
10,900.00	7,730.00	10,139.53	7,730.00	131.99	99.52	90.00	886.50	4,478.31	1,379.67	1,282.81	96.87	14.243		
11,000.00	7,730.00	10,239.53	7,730.00	131.77	99.25	90.00	786.51	4,477.97	1,379.67	1,283.36	96.32	14.324		
11,100.00	7,730.00	10,339.53	7,730.00	131.56	98.99	90.00	686.51	4,477.64	1,379.68	1,283.78	95.89	14.387		
11,200.00	7,730.00	10,439.53	7,730.00	131.36	98.75	90.00	586.51	4,477.30	1,379.68	1,284.07	95.60	14.431		
11,300.00	7,730.00	10,539.53	7,730.00	131.17	98.52	90.00	486.51	4,476.96	1,379.68	1,284.24	95.44	14.456		
11,400.00	7,730.00	10,639.53	7,730.00	130.99	98.30	90.00	386.51	4,476.62	1,379.68	1,284.27	95.41	14.461		
11,500.00	7,730.00	10,739.53	7,730.00	130.82	98.10	90.00	286.51	4,476.28	1,379.68	1,284.17	95.51	14.446		
11,600.00	7,730.00	10,839.53	7,730.00	130.66	97.91	90.00	186.51	4,475.94	1,379.68	1,283.94	95.74	14.411		
11,700.00	7,730.00	10,939.53	7,730.00	130.51	97.74	90.00	86.51	4,475.60	1,379.68	1,283.58	96.10	14.357		
11,800.00	7,730.00	11,039.53	7,730.00	130.37	97.58	90.00	-13.49	4,475.26	1,379.68	1,283.10	96.59	14.285		
11,900.00	7,730.00	11,139.53	7,730.00	130.24	97.44	90.00	-113.49	4,474.92	1,379.68	1,282.48	97.20	14.194		
12,000.00	7,730.00	11,239.53	7,730.00	130.13	97.31	90.00	-213.49	4,474.59	1,379.68	1,281.74	97.94	14.087		
12,100.00	7,730.00	11,339.53	7,730.00	130.02	97.20	90.00	-313.49	4,474.25	1,379.68	1,280.89	98.80	13.965		
12,200.00	7,730.00	11,439.53	7,730.00	129.93	97.10	90.00	-413.49	4,473.91	1,379.68	1,279.91	99.78	13.828		
12,300.00	7,730.00	11,539.53	7,730.00	129.85	97.02	90.00	-513.49	4,473.57	1,379.68	1,278.82	100.87	13.678		
12,400.00	7,730.00	11,639.53	7,730.00	129.77	96.96	90.00	-613.49	4,473.23	1,379.69	1,277.62	102.07	13.517		
12,500.00	7,730.00	11,739.53	7,730.00	129.71	96.91	90.00	-713.49	4,472.89	1,379.69	1,276.31	103.38	13.346		
12,600.00	7,730.00	11,839.53	7,730.00	129.66	96.88	90.00	-813.49	4,472.55	1,379.69	1,274.89	104.79	13.166		
12,700.00	7,730.00	11,939.53	7,730.00	129.63	96.87	90.00	-913.49	4,472.21	1,379.69	1,273.38	106.30	12.979		
12,800.00	7,730.00	12,039.53	7,730.00	129.60	96.88	90.00	-1,013.48	4,471.87	1,379.69	1,271.78	107.91	12.785		
12,900.00	7,730.00	12,139.53	7,730.00	129.59	96.91	90.00	-1,113.48	4,471.54	1,379.69	1,270.08	109.61	12.588		
13,000.00	7,730.00	12,239.53	7,730.00	129.59	96.96	90.00	-1,213.48	4,471.20	1,379.69	1,268.30	111.39	12.386		
13,100.00	7,730.00	12,339.53	7,730.00	129.60	97.02	90.00	-1,313.48	4,470.86	1,379.69	1,266.44	113.26	12.182		
13,200.00	7,730.00	12,439.53	7,730.00	129.63	97.12	90.00	-1,413.48	4,470.52	1,379.69	1,264.49	115.20	11.977		
13,300.00	7,730.00	12,539.53	7,730.00	129.66	97.23	90.00	-1,513.48	4,470.18	1,379.69	1,262.48	117.22	11.770		
13,400.00	7,730.00	12,639.53	7,730.00	129.72	97.37	90.00	-1,613.48	4,469.84	1,379.69	1,260.39	119.30	11.564		
13,500.00	7,730.00	12,739.53	7,730.00	129.78	97.53	90.00	-1,713.48	4,469.50	1,379.69	1,258.23	121.46	11.359		
13,600.00	7,730.00	12,839.53	7,730.00	129.86	97.72	90.00	-1,813.48	4,469.16	1,379.70	1,256.02	123.68	11.156		
13,700.00	7,730.00	12,939.53	7,730.00	129.96	97.94	90.00	-1,913.48	4,468.82	1,379.70	1,253.74	125.96	10.954		
13,800.00	7,730.00	13,039.53	7,730.00	130.07	98.19	90.00	-2,013.48	4,468.49	1,379.70	1,251.40	128.29	10.754		
13,900.00	7,730.00	13,139.53	7,730.00	130.19	98.46	90.00	-2,113.48	4,468.15	1,379.70	1,249.02	130.68	10.558		
14,000.00	7,730.00	13,239.53	7,730.00	130.33	98.77	90.00	-2,213.48	4,467.81	1,379.70	1,246.58	133.12	10.364		
14,100.00	7,730.00	13,339.53	7,730.00	130.49	99.12	90.00	-2,313.48	4,467.47	1,379.70	1,244.09	135.61	10.174		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,439.53	7,730.00	130.67	99.49	90.00	-2,413.48	4,467.13	1,379.70	1,241.56	138.14	9.987		
14,300.00	7,730.00	13,539.53	7,730.00	130.86	99.91	90.00	-2,513.48	4,466.79	1,379.70	1,238.98	140.72	9.805		
14,400.00	7,730.00	13,639.53	7,730.00	131.07	100.35	90.00	-2,613.48	4,466.45	1,379.70	1,236.36	143.34	9.625		
14,500.00	7,730.00	13,739.53	7,730.00	131.30	100.84	90.00	-2,713.47	4,466.11	1,379.70	1,233.71	145.99	9.450		
14,600.00	7,730.00	13,839.53	7,730.00	131.55	101.37	90.00	-2,813.47	4,465.77	1,379.70	1,231.02	148.69	9.279		
14,700.00	7,730.00	13,939.53	7,730.00	131.82	101.94	90.00	-2,913.47	4,465.44	1,379.70	1,228.29	151.41	9.112		
14,800.00	7,730.00	14,039.53	7,730.00	132.11	102.54	90.00	-3,013.47	4,465.10	1,379.70	1,225.53	154.17	8.949		
14,900.00	7,730.00	14,139.53	7,730.00	132.42	103.19	90.00	-3,113.47	4,464.76	1,379.71	1,222.74	156.97	8.790		
15,000.00	7,730.00	14,239.53	7,730.00	132.75	103.88	90.00	-3,213.47	4,464.42	1,379.71	1,219.92	159.79	8.635		
15,100.00	7,730.00	14,339.53	7,730.00	133.10	104.61	90.00	-3,313.47	4,464.08	1,379.71	1,217.07	162.64	8.483		
15,200.00	7,730.00	14,439.53	7,730.00	133.48	105.38	90.00	-3,413.47	4,463.74	1,379.71	1,214.20	165.51	8.336		
15,300.00	7,730.00	14,539.53	7,730.00	133.88	106.19	90.00	-3,513.47	4,463.40	1,379.71	1,211.30	168.41	8.193		
15,400.00	7,730.00	14,639.53	7,730.00	134.31	107.04	90.00	-3,613.47	4,463.06	1,379.71	1,208.38	171.33	8.053		
15,500.00	7,730.00	14,739.53	7,730.00	134.76	107.93	90.00	-3,713.47	4,462.72	1,379.71	1,205.43	174.28	7.917		
15,600.00	7,730.00	14,839.53	7,730.00	135.23	108.85	90.00	-3,813.47	4,462.39	1,379.71	1,202.46	177.25	7.784		
15,700.00	7,730.00	14,939.53	7,730.00	135.73	109.82	90.00	-3,913.47	4,462.05	1,379.71	1,199.48	180.24	7.655		
15,800.00	7,730.00	15,039.53	7,730.00	136.26	110.81	90.00	-4,013.47	4,461.71	1,379.71	1,196.47	183.24	7.529		
15,900.00	7,730.00	15,139.53	7,730.00	136.81	111.85	90.00	-4,113.47	4,461.37	1,379.71	1,193.44	186.27	7.407		
16,000.00	7,730.00	15,239.53	7,730.00	137.39	112.91	90.00	-4,213.47	4,461.03	1,379.71	1,190.40	189.31	7.288		
16,100.00	7,730.00	15,339.53	7,730.00	138.00	114.01	90.00	-4,313.47	4,460.69	1,379.71	1,187.34	192.37	7.172		
16,200.00	7,730.00	15,439.53	7,730.00	138.63	115.13	90.00	-4,413.47	4,460.35	1,379.72	1,184.26	195.45	7.059		
16,300.00	7,730.00	15,539.53	7,730.00	139.30	116.28	90.00	-4,513.46	4,460.01	1,379.72	1,181.17	198.54	6.949		
16,400.00	7,730.00	15,639.53	7,730.00	139.99	117.46	90.00	-4,613.46	4,459.67	1,379.72	1,178.07	201.65	6.842		
16,500.00	7,730.00	15,739.53	7,730.00	140.70	118.67	90.00	-4,713.46	4,459.34	1,379.72	1,174.95	204.77	6.738		
16,600.00	7,730.00	15,839.53	7,730.00	141.45	119.89	90.00	-4,813.46	4,459.00	1,379.72	1,171.82	207.90	6.636		
16,700.00	7,730.00	15,939.53	7,730.00	142.22	121.15	90.00	-4,913.46	4,458.66	1,379.72	1,168.67	211.05	6.537		
16,800.00	7,730.00	16,039.53	7,730.00	143.03	122.42	90.00	-5,013.46	4,458.32	1,379.72	1,165.51	214.21	6.441		
16,900.00	7,730.00	16,139.53	7,730.00	143.86	123.71	90.00	-5,113.46	4,457.98	1,379.72	1,162.34	217.38	6.347		
17,000.00	7,730.00	16,239.53	7,730.00	144.71	125.02	90.00	-5,213.46	4,457.64	1,379.72	1,159.16	220.56	6.256		
17,100.00	7,730.00	16,339.53	7,730.00	145.60	126.35	90.00	-5,313.46	4,457.30	1,379.72	1,155.97	223.75	6.166		
17,200.00	7,730.00	16,439.53	7,730.00	146.51	127.70	90.00	-5,413.46	4,456.96	1,379.72	1,152.77	226.95	6.079		
17,300.00	7,730.00	16,539.53	7,730.00	147.44	129.06	90.00	-5,513.46	4,456.62	1,379.72	1,149.56	230.16	5.995		
17,400.00	7,730.00	16,639.53	7,730.00	148.40	130.44	90.00	-5,613.46	4,456.29	1,379.73	1,146.34	233.38	5.912		
17,500.00	7,730.00	16,739.53	7,730.00	149.39	131.83	90.00	-5,713.46	4,455.95	1,379.73	1,143.11	236.61	5.831		
17,600.00	7,730.00	16,839.53	7,730.00	150.40	133.23	90.00	-5,813.46	4,455.61	1,379.73	1,139.88	239.85	5.752		
17,700.00	7,730.00	16,939.53	7,730.00	151.44	134.65	90.00	-5,913.46	4,455.27	1,379.73	1,136.63	243.10	5.676		
17,800.00	7,730.00	17,039.53	7,730.00	152.50	136.08	90.00	-6,013.46	4,454.93	1,379.73	1,133.38	246.35	5.601		
17,900.00	7,730.00	17,139.53	7,730.00	153.58	137.52	90.00	-6,113.46	4,454.59	1,379.73	1,130.12	249.61	5.527		
18,000.00	7,730.00	17,239.53	7,730.00	154.68	138.97	90.00	-6,213.45	4,454.25	1,379.73	1,126.85	252.88	5.456		
18,100.00	7,730.00	17,339.53	7,730.00	155.80	140.43	90.00	-6,313.45	4,453.91	1,379.73	1,123.57	256.16	5.386		
18,200.00	7,730.00	17,439.53	7,730.00	156.95	141.90	90.00	-6,413.45	4,453.57	1,379.73	1,120.29	259.44	5.318		
18,300.00	7,730.00	17,539.53	7,730.00	158.11	143.38	90.00	-6,513.45	4,453.24	1,379.73	1,117.00	262.73	5.251		
18,400.00	7,730.00	17,639.53	7,730.00	159.30	144.87	90.00	-6,613.45	4,452.90	1,379.73	1,113.70	266.03	5.186		
18,500.00	7,730.00	17,739.53	7,730.00	160.50	146.37	90.00	-6,713.45	4,452.56	1,379.73	1,110.40	269.33	5.123		
18,600.00	7,730.00	17,839.53	7,730.00	161.72	147.88	90.00	-6,813.45	4,452.22	1,379.73	1,107.10	272.64	5.061		
18,700.00	7,730.00	17,939.53	7,730.00	162.96	149.39	90.00	-6,913.45	4,451.88	1,379.74	1,103.78	275.95	5.000		
18,800.00	7,730.00	18,039.53	7,730.00	164.21	150.91	90.00	-7,013.45	4,451.54	1,379.74	1,100.47	279.27	4.941		
18,900.00	7,730.00	18,139.53	7,730.00	165.48	152.44	90.00	-7,113.45	4,451.20	1,379.74	1,097.14	282.59	4.882		
19,000.00	7,730.00	18,239.53	7,730.00	166.76	153.97	90.00	-7,213.45	4,450.86	1,379.74	1,093.81	285.92	4.826		
19,100.00	7,730.00	18,339.53	7,730.00	168.06	155.51	90.00	-7,313.45	4,450.52	1,379.74	1,090.48	289.26	4.770		
19,200.00	7,730.00	18,439.53	7,730.00	169.38	157.06	90.00	-7,413.45	4,450.18	1,379.74	1,087.14	292.60	4.716		
19,300.00	7,730.00	18,539.53	7,730.00	170.70	158.61	90.00	-7,513.45	4,449.85	1,379.74	1,083.80	295.94	4.662		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)					
19,400.00	7,730.00	18,639.53	7,730.00	172.04	160.17	90.00	-7,613.45	4,449.51	1,379.74	1,080.45	299.29	4.610	
19,500.00	7,730.00	18,739.53	7,730.00	173.40	161.73	90.00	-7,713.45	4,449.17	1,379.74	1,077.10	302.64	4.559	
19,600.00	7,730.00	18,839.53	7,730.00	174.76	163.30	90.00	-7,813.45	4,448.83	1,379.74	1,073.75	306.00	4.509	
19,700.00	7,730.00	18,939.53	7,730.00	176.14	164.87	90.00	-7,913.45	4,448.49	1,379.74	1,070.39	309.36	4.460	
19,800.00	7,730.00	19,039.53	7,730.00	177.52	166.45	90.00	-8,013.44	4,448.15	1,379.74	1,067.03	312.72	4.412	
19,900.00	7,730.00	19,139.53	7,730.00	178.92	168.03	90.00	-8,113.44	4,447.81	1,379.74	1,063.66	316.09	4.365	
20,000.00	7,730.00	19,239.53	7,730.00	180.33	169.62	90.00	-8,213.44	4,447.47	1,379.75	1,060.29	319.46	4.319	
20,100.00	7,730.00	19,339.53	7,730.00	181.75	171.21	90.00	-8,313.44	4,447.13	1,379.75	1,056.91	322.83	4.274	
20,184.95	7,730.00	19,424.48	7,730.00	182.96	172.56	90.00	-8,398.40	4,446.85	1,379.75	1,054.05	325.70	4.236 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.30	0.36	-29.96	29.96					
100.00	100.00	100.00	100.00	0.13	0.13	-89.30	0.36	-29.96	29.96	29.69	0.27	111.445	CC, ES	
200.00	199.98	200.02	199.98	0.49	0.49	-160.84	0.36	-29.96	31.61	30.62	0.98	32.094		
300.00	299.84	300.16	299.84	0.86	0.85	-163.50	0.36	-29.96	36.59	34.88	1.71	21.409		
400.00	399.45	399.45	399.45	1.23	1.21	-166.61	0.36	-29.96	45.02	42.58	2.43	18.498		
500.00	498.70	500.60	500.58	1.63	1.57	-169.01	1.06	-28.34	55.27	52.11	3.15	17.529		
600.00	597.47	602.13	601.97	2.05	1.93	-170.44	3.18	-23.41	65.58	61.70	3.88	16.922		
700.00	695.62	704.05	703.48	2.51	2.30	-171.30	6.73	-15.15	75.90	71.30	4.61	16.482		
800.00	793.06	806.34	804.98	3.00	2.69	-171.80	11.73	-3.53	86.21	80.87	5.34	16.135		
900.00	889.64	909.02	906.35	3.53	3.11	-172.03	18.19	11.47	96.47	90.38	6.09	15.837		
1,000.00	985.27	1,012.08	1,007.43	4.12	3.55	-172.09	26.10	29.88	106.68	99.83	6.85	15.572		
1,100.00	1,079.82	1,115.52	1,108.10	4.75	4.04	-172.01	35.49	51.70	116.81	109.19	7.62	15.323		
1,200.00	1,173.17	1,219.34	1,208.21	5.44	4.56	-171.83	46.35	76.94	126.85	118.45	8.41	15.089		
1,300.00	1,265.21	1,323.53	1,307.62	6.18	5.14	-171.57	58.68	105.61	136.80	127.59	9.21	14.852		
1,400.00	1,355.84	1,428.10	1,406.18	6.99	5.78	-171.24	72.48	137.70	146.64	136.61	10.03	14.614		
1,500.00	1,444.94	1,533.05	1,503.74	7.87	6.48	-170.85	87.76	173.20	156.36	145.48	10.88	14.372		
1,600.00	1,532.39	1,638.36	1,600.15	8.80	7.25	-170.42	104.49	212.11	165.95	154.20	11.75	14.123		
1,700.00	1,618.11	1,744.04	1,695.27	9.81	8.09	-169.94	122.68	254.39	175.40	162.75	12.65	13.865		
1,800.00	1,701.97	1,850.07	1,788.94	10.89	9.00	-169.43	142.31	300.03	184.71	171.12	13.58	13.597		
1,900.00	1,783.88	1,956.46	1,881.01	12.04	9.99	-168.89	163.37	348.99	193.86	179.30	14.56	13.319		
2,000.00	1,863.74	2,063.20	1,971.33	13.26	11.07	-168.32	185.84	401.23	202.84	187.27	15.57	13.029		
2,100.00	1,941.45	2,170.27	2,059.74	14.55	12.23	-167.73	209.71	456.70	211.65	195.02	16.63	12.727		
2,200.00	2,016.92	2,277.68	2,146.10	15.92	13.47	-167.11	234.94	515.36	220.28	202.54	17.74	12.414		
2,292.11	2,084.36	2,376.90	2,223.69	17.25	14.70	-166.52	259.37	572.15	228.06	209.24	18.83	12.114		
2,300.00	2,090.06	2,385.41	2,230.25	17.36	14.80	-166.47	261.51	577.14	228.71	209.79	18.92	12.088		
2,400.00	2,162.18	2,487.88	2,308.40	18.84	16.14	-165.81	287.70	638.02	235.81	215.57	20.24	11.652		
2,500.00	2,234.31	2,587.61	2,384.32	20.33	17.45	-165.20	313.26	697.43	242.73	221.10	21.63	11.220		
2,600.00	2,306.43	2,687.34	2,460.24	21.83	18.78	-164.62	338.81	756.83	249.68	226.62	23.07	10.825		
2,700.00	2,378.56	2,787.06	2,536.16	23.33	20.12	-164.07	364.36	816.24	256.66	232.13	24.53	10.463		
2,800.00	2,450.68	2,886.79	2,612.08	24.84	21.47	-163.55	389.92	875.64	263.66	237.63	26.03	10.131		
2,900.00	2,522.81	2,986.52	2,687.99	26.36	22.83	-163.06	415.47	935.05	270.68	243.13	27.55	9.826		
3,000.00	2,594.93	3,086.24	2,763.91	27.88	24.19	-162.59	441.02	994.45	277.71	248.62	29.10	9.545		
3,100.00	2,667.06	3,185.97	2,839.83	29.40	25.55	-162.14	466.58	1,053.85	284.77	254.10	30.67	9.286		
3,200.00	2,739.18	3,285.70	2,915.75	30.92	26.92	-161.72	492.13	1,113.26	291.84	259.58	32.26	9.046		
3,300.00	2,811.31	3,385.43	2,991.67	32.45	28.29	-161.32	517.68	1,172.66	298.93	265.05	33.87	8.825		
3,400.00	2,883.43	3,485.15	3,067.59	33.98	29.66	-160.93	543.24	1,232.07	306.03	270.52	35.50	8.619		
3,500.00	2,955.56	3,584.88	3,143.50	35.51	31.04	-160.57	568.79	1,291.47	313.14	275.99	37.15	8.428		
3,600.00	3,027.68	3,684.61	3,219.42	37.04	32.42	-160.22	594.34	1,350.88	320.27	281.45	38.82	8.250		
3,700.00	3,099.81	3,784.33	3,295.34	38.57	33.80	-159.88	619.90	1,410.28	327.40	286.91	40.50	8.085		
3,800.00	3,171.93	3,884.06	3,371.26	40.11	35.18	-159.56	645.45	1,469.69	334.55	292.36	42.19	7.930		
3,900.00	3,244.06	3,983.79	3,447.18	41.64	36.56	-159.25	671.00	1,529.09	341.71	297.81	43.90	7.784		
4,000.00	3,316.18	4,083.52	3,523.10	43.18	37.95	-158.96	696.56	1,588.50	348.88	303.26	45.61	7.648		
4,100.00	3,388.31	4,183.24	3,599.02	44.71	39.33	-158.67	722.11	1,647.90	356.05	308.71	47.34	7.521		
4,200.00	3,460.43	4,282.97	3,674.93	46.25	40.72	-158.40	747.66	1,707.31	363.24	314.15	49.08	7.400		
4,300.00	3,532.56	4,382.70	3,750.85	47.79	42.11	-158.14	773.22	1,766.71	370.43	319.60	50.83	7.287		
4,400.00	3,604.68	4,482.42	3,826.77	49.33	43.50	-157.89	798.77	1,826.11	377.63	325.04	52.59	7.180		
4,500.00	3,676.81	4,582.15	3,902.69	50.87	44.89	-157.65	824.32	1,885.52	384.84	330.48	54.36	7.079		
4,600.00	3,748.93	4,681.88	3,978.61	52.41	46.28	-157.41	849.88	1,944.92	392.05	335.91	56.14	6.984		
4,700.00	3,821.06	4,781.60	4,054.53	53.95	47.67	-157.19	875.43	2,004.33	399.27	341.35	57.92	6.894		
4,800.00	3,893.18	4,881.33	4,130.44	55.49	49.06	-156.97	900.98	2,063.73	406.49	346.78	59.71	6.808		
4,900.00	3,965.31	4,981.06	4,206.36	57.03	50.45	-156.76	926.54	2,123.14	413.73	352.22	61.51	6.726		
5,000.00	4,037.43	5,080.79	4,282.28	58.58	51.84	-156.56	952.09	2,182.54	420.96	357.65	63.31	6.649		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,180.51	4,358.20	60.12	53.23	-156.37	977.64	2,241.95	428.20	363.08	65.12	6.575		
5,200.00	4,181.68	5,280.24	4,434.12	61.66	54.63	-156.18	1,003.20	2,301.35	435.45	368.51	66.94	6.505		
5,300.00	4,253.81	5,379.97	4,510.04	63.20	56.02	-156.00	1,028.75	2,360.76	442.70	373.94	68.76	6.438		
5,400.00	4,325.93	5,479.69	4,585.95	64.75	57.41	-155.82	1,054.30	2,420.16	449.95	379.37	70.59	6.375		
5,500.00	4,398.06	5,579.42	4,661.87	66.29	58.81	-155.65	1,079.86	2,479.57	457.21	384.80	72.42	6.314		
5,600.00	4,470.18	5,679.15	4,737.79	67.84	60.20	-155.48	1,105.41	2,538.97	464.48	390.22	74.25	6.255		
5,700.00	4,542.31	5,778.88	4,813.71	69.38	61.60	-155.32	1,130.96	2,598.37	471.74	395.65	76.09	6.200		
5,800.00	4,614.43	5,878.60	4,889.63	70.92	62.99	-155.17	1,156.52	2,657.78	479.01	401.07	77.94	6.146		
5,900.00	4,686.56	5,978.33	4,965.55	72.47	64.39	-155.01	1,182.07	2,717.18	486.29	406.50	79.79	6.095		
6,000.00	4,758.68	6,078.06	5,041.46	74.01	65.78	-154.87	1,207.63	2,776.59	493.56	411.92	81.64	6.046		
6,100.00	4,830.81	6,177.78	5,117.38	75.56	67.18	-154.73	1,233.18	2,835.99	500.84	417.35	83.50	5.998		
6,200.00	4,902.93	6,277.51	5,193.30	77.10	68.57	-154.59	1,258.73	2,895.40	508.13	422.77	85.36	5.953		
6,300.00	4,975.06	6,377.24	5,269.22	78.65	69.97	-154.45	1,284.29	2,954.80	515.41	428.19	87.22	5.909		
6,400.00	5,047.18	6,476.96	5,345.14	80.19	71.37	-154.32	1,309.84	3,014.21	522.70	433.61	89.09	5.867		
6,500.00	5,119.31	6,576.69	5,421.06	81.74	72.76	-154.20	1,335.39	3,073.61	529.99	439.04	90.96	5.827		
6,600.00	5,191.43	6,676.42	5,496.97	83.28	74.16	-154.07	1,360.95	3,133.02	537.29	444.46	92.83	5.788		
6,700.00	5,263.56	6,776.15	5,572.89	84.83	75.56	-153.95	1,386.50	3,192.42	544.58	449.88	94.70	5.750		
6,800.00	5,335.68	6,875.87	5,648.81	86.37	76.95	-153.84	1,412.05	3,251.82	551.88	455.30	96.58	5.714		
6,900.00	5,407.81	6,975.60	5,724.73	87.92	78.35	-153.72	1,437.61	3,311.23	559.18	460.72	98.46	5.679		
7,000.00	5,479.93	7,075.33	5,800.65	89.47	79.75	-153.61	1,463.16	3,370.63	566.48	466.14	100.35	5.645		
7,100.00	5,552.06	7,175.05	5,876.57	91.01	81.14	-153.50	1,488.71	3,430.04	573.79	471.56	102.23	5.613		
7,200.00	5,624.18	7,274.78	5,952.49	92.56	82.54	-153.40	1,514.27	3,489.44	581.10	476.98	104.12	5.581		
7,300.00	5,696.31	7,374.51	6,028.40	94.10	83.94	-153.29	1,539.82	3,548.85	588.40	482.40	106.01	5.551		
7,400.00	5,768.43	7,474.24	6,104.32	95.65	85.34	-153.19	1,565.37	3,608.25	595.72	487.82	107.90	5.521		
7,500.00	5,840.56	7,573.96	6,180.24	97.20	86.74	-153.10	1,590.93	3,667.66	603.03	493.23	109.79	5.492		
7,600.00	5,912.68	7,673.69	6,256.16	98.74	88.13	-153.00	1,616.48	3,727.06	610.34	498.65	111.69	5.465		
7,700.00	5,984.81	7,773.42	6,332.08	100.29	89.53	-152.91	1,642.03	3,786.47	617.66	504.07	113.59	5.438		
7,800.00	6,056.93	7,873.14	6,408.00	101.84	90.93	-152.82	1,667.59	3,845.87	624.98	509.49	115.49	5.412		
7,900.00	6,129.06	7,972.87	6,483.91	103.38	92.33	-152.73	1,693.14	3,905.28	632.29	514.91	117.39	5.386		
8,000.00	6,201.18	8,072.60	6,559.83	104.93	93.73	-152.64	1,718.69	3,964.68	639.61	520.32	119.29	5.362		
8,100.00	6,273.31	8,172.32	6,635.75	106.48	95.12	-152.55	1,744.25	4,024.08	646.94	525.74	121.19	5.338		
8,200.00	6,345.43	8,272.05	6,711.67	108.02	96.52	-152.47	1,769.80	4,083.49	654.26	531.16	123.10	5.315		
8,300.00	6,417.56	8,371.78	6,787.59	109.57	97.92	-152.39	1,795.35	4,142.89	661.58	536.58	125.01	5.292		
8,400.00	6,489.68	8,471.51	6,863.51	111.12	99.32	-152.31	1,820.91	4,202.30	668.91	541.99	126.92	5.270		
8,500.00	6,561.81	8,571.23	6,939.42	112.66	100.72	-152.23	1,846.46	4,261.70	676.24	547.41	128.83	5.249		
8,600.00	6,633.93	8,670.96	7,015.34	114.21	102.12	-152.16	1,872.01	4,321.11	683.57	552.83	130.74	5.229		
8,700.00	6,706.06	8,784.03	7,101.84	115.76	103.69	-152.26	1,898.70	4,388.78	690.52	558.18	132.34	5.218		
8,800.00	6,778.18	8,913.56	7,203.53	117.30	105.37	-154.28	1,905.87	4,468.26	693.79	564.33	129.46	5.359		
8,900.00	6,850.31	9,027.80	7,292.31	118.85	106.63	-157.92	1,888.02	4,537.57	694.61	571.83	122.79	5.657		
9,000.00	6,922.43	9,122.11	7,362.37	120.40	107.47	-162.16	1,856.68	4,592.21	696.59	581.29	115.30	6.042		
9,100.00	6,994.56	9,197.47	7,414.86	121.95	108.00	-166.25	1,821.42	4,633.10	703.24	594.41	108.83	6.462		
9,200.00	7,066.68	9,257.13	7,453.56	123.49	108.32	-169.85	1,787.50	4,663.22	717.18	613.38	103.80	6.909		
9,300.00	7,138.81	9,304.58	7,482.24	125.04	108.53	-172.89	1,756.99	4,685.53	739.89	640.03	99.86	7.409		
9,392.50	7,205.52	9,340.14	7,502.37	126.47	108.65	-175.25	1,732.22	4,701.17	769.12	672.37	96.75	7.950		
9,400.00	7,210.94	9,342.76	7,503.81	126.59	108.65	-176.47	1,730.33	4,702.29	771.83	675.32	96.51	7.997		
9,450.00	7,247.42	9,360.65	7,513.43	127.35	108.70	175.16	1,717.22	4,709.76	790.66	695.66	95.00	8.322		
9,500.00	7,284.35	9,379.18	7,523.04	128.10	108.74	166.50	1,703.25	4,717.23	810.60	717.01	93.59	8.661		
9,550.00	7,321.43	9,400.00	7,533.41	128.83	108.79	157.66	1,687.10	4,725.28	831.28	739.04	92.24	9.012		
9,600.00	7,358.38	9,417.77	7,541.90	129.52	108.81	149.14	1,672.94	4,731.86	852.34	761.47	90.88	9.379		
9,650.00	7,394.93	9,437.68	7,550.99	130.16	108.84	140.85	1,656.69	4,738.90	873.48	783.94	89.54	9.755		
9,700.00	7,430.79	9,450.00	7,556.39	130.76	108.86	133.32	1,646.44	4,743.09	894.48	806.31	88.16	10.146		
9,750.00	7,465.70	9,478.45	7,568.18	131.30	108.87	125.76	1,622.22	4,752.22	914.87	827.91	86.96	10.521		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	9,500.00	7,576.48	131.78	108.88	119.13	1,603.40	4,758.65	934.64	848.86	85.78	10.896		
9,850.00	7,531.58	9,520.20	7,583.75	132.21	108.87	113.20	1,585.40	4,764.26	953.51	868.79	84.73	11.254		
9,900.00	7,562.06	9,550.00	7,593.55	132.57	108.86	107.72	1,558.30	4,771.83	971.40	887.64	83.75	11.598		
9,950.00	7,590.58	9,562.69	7,597.39	132.87	108.84	103.27	1,546.57	4,774.79	987.90	904.67	83.22	11.870		
10,000.00	7,616.93	9,584.15	7,603.40	133.11	108.82	99.23	1,526.50	4,779.42	1,003.11	920.24	82.87	12.104		
10,050.00	7,640.90	9,600.00	7,607.46	133.29	108.80	95.83	1,511.50	4,782.54	1,016.88	933.76	83.13	12.233		
10,100.00	7,662.32	9,627.40	7,613.71	133.42	108.75	92.81	1,485.26	4,787.33	1,029.00	945.81	83.19	12.369		
10,150.00	7,681.01	9,650.00	7,618.11	133.50	108.71	90.36	1,463.35	4,790.70	1,039.49	955.62	83.87	12.394		
10,200.00	7,696.85	9,670.97	7,621.58	133.52	108.66	88.39	1,442.84	4,793.34	1,048.23	963.15	85.09	12.320		
10,250.00	7,709.70	9,700.00	7,625.41	133.51	108.59	86.80	1,414.21	4,796.23	1,055.24	969.26	85.98	12.273		
10,300.00	7,719.47	9,714.76	7,626.91	133.46	108.55	85.71	1,399.58	4,797.36	1,060.30	971.67	88.63	11.963		
10,350.00	7,726.09	9,736.70	7,628.60	133.37	108.49	84.98	1,377.74	4,798.61	1,063.54	972.55	90.99	11.689		
10,400.00	7,729.50	9,758.65	7,629.63	133.26	108.42	84.63	1,355.83	4,799.34	1,064.89	971.19	93.70	11.364		
10,427.79	7,730.00	9,770.85	7,629.92	133.18	108.39	84.61	1,343.63	4,799.52	1,064.82	969.47	95.35	11.167		
10,464.60	7,730.00	9,793.68	7,630.00	133.08	108.31	84.61	1,320.81	4,799.51	1,064.66	967.92	96.74	11.006		
10,500.00	7,730.00	9,829.08	7,630.00	132.98	108.20	84.61	1,285.40	4,799.39	1,064.66	968.36	96.30	11.056		
10,600.00	7,730.00	9,929.08	7,630.00	132.72	107.88	84.61	1,185.40	4,799.05	1,064.66	969.52	95.14	11.191		
10,700.00	7,730.00	10,029.08	7,630.00	132.47	107.59	84.61	1,085.40	4,798.71	1,064.65	970.56	94.09	11.315		
10,800.00	7,730.00	10,129.08	7,630.00	132.22	107.30	84.61	985.40	4,798.38	1,064.65	971.48	93.17	11.427		
10,900.00	7,730.00	10,229.08	7,630.00	131.99	107.03	84.61	885.40	4,798.04	1,064.65	972.28	92.37	11.525		
11,000.00	7,730.00	10,329.08	7,630.00	131.77	106.77	84.61	785.41	4,797.70	1,064.65	972.95	91.71	11.609		
11,100.00	7,730.00	10,429.08	7,630.00	131.56	106.52	84.61	685.41	4,797.36	1,064.65	973.48	91.17	11.678		
11,200.00	7,730.00	10,529.08	7,630.00	131.36	106.29	84.61	585.41	4,797.03	1,064.65	973.89	90.76	11.730		
11,300.00	7,730.00	10,629.08	7,630.00	131.17	106.07	84.61	485.41	4,796.69	1,064.65	974.15	90.50	11.765		
11,400.00	7,730.00	10,729.08	7,630.00	130.99	105.86	84.61	385.41	4,796.35	1,064.65	974.28	90.37	11.782		
11,500.00	7,730.00	10,829.08	7,630.00	130.82	105.67	84.61	285.41	4,796.01	1,064.65	974.28	90.37	11.781		
11,600.00	7,730.00	10,929.08	7,630.00	130.66	105.49	84.61	185.41	4,795.68	1,064.65	974.13	90.51	11.762		
11,700.00	7,730.00	11,029.08	7,630.00	130.51	105.32	84.61	85.41	4,795.34	1,064.65	973.85	90.79	11.726		
11,800.00	7,730.00	11,129.08	7,630.00	130.37	105.16	84.61	-14.59	4,795.00	1,064.65	973.44	91.21	11.672		
11,900.00	7,730.00	11,229.08	7,630.00	130.24	105.02	84.61	-114.59	4,794.66	1,064.65	972.89	91.76	11.603		
12,000.00	7,730.00	11,329.08	7,630.00	130.13	104.90	84.61	-214.59	4,794.33	1,064.65	972.21	92.44	11.517		
12,100.00	7,730.00	11,429.08	7,630.00	130.02	104.79	84.61	-314.59	4,793.99	1,064.64	971.40	93.25	11.418		
12,200.00	7,730.00	11,529.08	7,630.00	129.93	104.69	84.61	-414.59	4,793.65	1,064.64	970.46	94.18	11.304		
12,300.00	7,730.00	11,629.08	7,630.00	129.85	104.60	84.61	-514.59	4,793.32	1,064.64	969.41	95.23	11.179		
12,400.00	7,730.00	11,729.08	7,630.00	129.77	104.54	84.61	-614.59	4,792.98	1,064.64	968.24	96.40	11.043		
12,500.00	7,730.00	11,829.08	7,630.00	129.71	104.48	84.61	-714.59	4,792.64	1,064.64	966.95	97.69	10.898		
12,600.00	7,730.00	11,929.08	7,630.00	129.66	104.44	84.61	-814.59	4,792.30	1,064.64	965.56	99.08	10.745		
12,700.00	7,730.00	12,029.08	7,630.00	129.63	104.42	84.61	-914.58	4,791.97	1,064.64	964.06	100.58	10.585		
12,800.00	7,730.00	12,129.08	7,630.00	129.60	104.42	84.61	-1,014.58	4,791.63	1,064.64	962.46	102.18	10.420		
12,900.00	7,730.00	12,229.08	7,630.00	129.59	104.43	84.61	-1,114.58	4,791.29	1,064.64	960.77	103.87	10.250		
13,000.00	7,730.00	12,329.08	7,630.00	129.59	104.46	84.61	-1,214.58	4,790.95	1,064.64	958.99	105.65	10.077		
13,100.00	7,730.00	12,429.08	7,630.00	129.60	104.50	84.61	-1,314.58	4,790.62	1,064.64	957.12	107.52	9.902		
13,200.00	7,730.00	12,529.08	7,630.00	129.63	104.57	84.61	-1,414.58	4,790.28	1,064.64	955.17	109.46	9.726		
13,300.00	7,730.00	12,629.08	7,630.00	129.66	104.65	84.61	-1,514.58	4,789.94	1,064.64	953.15	111.49	9.549		
13,400.00	7,730.00	12,729.08	7,630.00	129.72	104.76	84.61	-1,614.58	4,789.60	1,064.64	951.05	113.59	9.373		
13,500.00	7,730.00	12,829.08	7,630.00	129.78	104.89	84.61	-1,714.58	4,789.27	1,064.63	948.88	115.76	9.197		
13,600.00	7,730.00	12,929.08	7,630.00	129.86	105.03	84.61	-1,814.58	4,788.93	1,064.63	946.64	117.99	9.023		
13,700.00	7,730.00	13,029.08	7,630.00	129.96	105.21	84.61	-1,914.58	4,788.59	1,064.63	944.35	120.29	8.851		
13,800.00	7,730.00	13,129.08	7,630.00	130.07	105.40	84.61	-2,014.58	4,788.25	1,064.63	941.99	122.64	8.681		
13,900.00	7,730.00	13,229.08	7,630.00	130.19	105.62	84.61	-2,114.58	4,787.92	1,064.63	939.58	125.05	8.514		
14,000.00	7,730.00	13,329.08	7,630.00	130.33	105.87	84.61	-2,214.58	4,787.58	1,064.63	937.12	127.51	8.350		
14,100.00	7,730.00	13,429.08	7,630.00	130.49	106.14	84.61	-2,314.58	4,787.24	1,064.63	934.61	130.02	8.188		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,529.08	7,630.00	130.67	106.45	84.61	-2,414.58	4,786.90	1,064.63	932.06	132.57	8.031		
14,300.00	7,730.00	13,629.08	7,630.00	130.86	106.78	84.61	-2,514.58	4,786.57	1,064.63	929.46	135.17	7.876		
14,400.00	7,730.00	13,729.08	7,630.00	131.07	107.14	84.61	-2,614.58	4,786.23	1,064.63	926.82	137.81	7.725		
14,500.00	7,730.00	13,829.08	7,630.00	131.30	107.53	84.61	-2,714.57	4,785.89	1,064.63	924.14	140.49	7.578		
14,600.00	7,730.00	13,929.08	7,630.00	131.55	107.96	84.61	-2,814.57	4,785.56	1,064.63	921.43	143.20	7.435		
14,700.00	7,730.00	14,029.08	7,630.00	131.82	108.42	84.61	-2,914.57	4,785.22	1,064.63	918.68	145.95	7.295		
14,800.00	7,730.00	14,129.08	7,630.00	132.11	108.91	84.61	-3,014.57	4,784.88	1,064.63	915.90	148.73	7.158		
14,900.00	7,730.00	14,229.08	7,630.00	132.42	109.44	84.61	-3,114.57	4,784.54	1,064.62	913.08	151.54	7.025		
15,000.00	7,730.00	14,329.08	7,630.00	132.75	110.01	84.61	-3,214.57	4,784.21	1,064.62	910.24	154.38	6.896		
15,100.00	7,730.00	14,429.08	7,630.00	133.10	110.61	84.61	-3,314.57	4,783.87	1,064.62	907.37	157.25	6.770		
15,200.00	7,730.00	14,529.08	7,630.00	133.48	111.25	84.61	-3,414.57	4,783.53	1,064.62	904.48	160.15	6.648		
15,300.00	7,730.00	14,629.08	7,630.00	133.88	111.92	84.61	-3,514.57	4,783.19	1,064.62	901.56	163.07	6.529		
15,400.00	7,730.00	14,729.08	7,630.00	134.31	112.64	84.61	-3,614.57	4,782.86	1,064.62	898.61	166.01	6.413		
15,500.00	7,730.00	14,829.08	7,630.00	134.76	113.38	84.61	-3,714.57	4,782.52	1,064.62	895.65	168.97	6.300		
15,600.00	7,730.00	14,929.08	7,630.00	135.23	114.17	84.61	-3,814.57	4,782.18	1,064.62	892.66	171.96	6.191		
15,700.00	7,730.00	15,029.08	7,630.00	135.73	114.99	84.61	-3,914.57	4,781.84	1,064.62	889.65	174.97	6.085		
15,800.00	7,730.00	15,129.08	7,630.00	136.26	115.85	84.61	-4,014.57	4,781.51	1,064.62	886.63	177.99	5.981		
15,900.00	7,730.00	15,229.08	7,630.00	136.81	116.75	84.61	-4,114.57	4,781.17	1,064.62	883.58	181.03	5.881		
16,000.00	7,730.00	15,329.08	7,630.00	137.39	117.67	84.61	-4,214.57	4,780.83	1,064.62	880.52	184.09	5.783		
16,100.00	7,730.00	15,429.08	7,630.00	138.00	118.64	84.61	-4,314.57	4,780.49	1,064.62	877.45	187.17	5.688		
16,200.00	7,730.00	15,529.08	7,630.00	138.63	119.63	84.61	-4,414.56	4,780.16	1,064.62	874.35	190.26	5.596		
16,300.00	7,730.00	15,629.08	7,630.00	139.30	120.66	84.61	-4,514.56	4,779.82	1,064.61	871.25	193.37	5.506		
16,400.00	7,730.00	15,729.08	7,630.00	139.99	121.71	84.61	-4,614.56	4,779.48	1,064.61	868.13	196.49	5.418		
16,500.00	7,730.00	15,829.08	7,630.00	140.70	122.79	84.61	-4,714.56	4,779.15	1,064.61	864.99	199.62	5.333		
16,600.00	7,730.00	15,929.08	7,630.00	141.45	123.91	84.61	-4,814.56	4,778.81	1,064.61	861.84	202.77	5.250		
16,700.00	7,730.00	16,029.08	7,630.00	142.22	125.05	84.61	-4,914.56	4,778.47	1,064.61	858.69	205.93	5.170		
16,800.00	7,730.00	16,129.08	7,630.00	143.03	126.21	84.61	-5,014.56	4,778.13	1,064.61	855.51	209.10	5.091		
16,900.00	7,730.00	16,229.08	7,630.00	143.86	127.40	84.61	-5,114.56	4,777.80	1,064.61	852.33	212.28	5.015		
17,000.00	7,730.00	16,329.08	7,630.00	144.71	128.61	84.61	-5,214.56	4,777.46	1,064.61	849.14	215.47	4.941		
17,100.00	7,730.00	16,429.08	7,630.00	145.60	129.84	84.61	-5,314.56	4,777.12	1,064.61	845.94	218.67	4.869		
17,200.00	7,730.00	16,529.08	7,630.00	146.51	131.10	84.61	-5,414.56	4,776.78	1,064.61	842.72	221.88	4.798		
17,300.00	7,730.00	16,629.08	7,630.00	147.44	132.37	84.61	-5,514.56	4,776.45	1,064.61	839.50	225.10	4.729		
17,400.00	7,730.00	16,729.08	7,630.00	148.40	133.66	84.61	-5,614.56	4,776.11	1,064.61	836.27	228.33	4.663		
17,500.00	7,730.00	16,829.08	7,630.00	149.39	134.97	84.61	-5,714.56	4,775.77	1,064.61	833.03	231.57	4.597		
17,600.00	7,730.00	16,929.08	7,630.00	150.40	136.30	84.61	-5,814.56	4,775.43	1,064.60	829.79	234.82	4.534		
17,700.00	7,730.00	17,029.08	7,630.00	151.44	137.64	84.61	-5,914.56	4,775.10	1,064.60	826.53	238.07	4.472		
17,800.00	7,730.00	17,129.08	7,630.00	152.50	139.00	84.61	-6,014.56	4,774.76	1,064.60	823.27	241.33	4.411		
17,900.00	7,730.00	17,229.08	7,630.00	153.58	140.38	84.61	-6,114.56	4,774.42	1,064.60	820.00	244.60	4.352		
18,000.00	7,730.00	17,329.08	7,630.00	154.68	141.76	84.61	-6,214.55	4,774.08	1,064.60	816.72	247.88	4.295		
18,100.00	7,730.00	17,429.08	7,630.00	155.80	143.16	84.61	-6,314.55	4,773.75	1,064.60	813.44	251.16	4.239		
18,200.00	7,730.00	17,529.08	7,630.00	156.95	144.57	84.61	-6,414.55	4,773.41	1,064.60	810.15	254.45	4.184		
18,300.00	7,730.00	17,629.08	7,630.00	158.11	146.00	84.61	-6,514.55	4,773.07	1,064.60	806.85	257.75	4.130		
18,400.00	7,730.00	17,729.08	7,630.00	159.30	147.43	84.61	-6,614.55	4,772.74	1,064.60	803.55	261.05	4.078		
18,500.00	7,730.00	17,829.08	7,630.00	160.50	148.88	84.61	-6,714.55	4,772.40	1,064.60	800.24	264.35	4.027		
18,600.00	7,730.00	17,929.08	7,630.00	161.72	150.33	84.61	-6,814.55	4,772.06	1,064.60	796.93	267.67	3.977		
18,700.00	7,730.00	18,029.08	7,630.00	162.96	151.80	84.61	-6,914.55	4,771.72	1,064.60	793.61	270.98	3.929		
18,800.00	7,730.00	18,129.08	7,630.00	164.21	153.27	84.61	-7,014.55	4,771.39	1,064.60	790.29	274.31	3.881		
18,900.00	7,730.00	18,229.08	7,630.00	165.48	154.75	84.61	-7,114.55	4,771.05	1,064.60	786.96	277.63	3.835		
19,000.00	7,730.00	18,329.08	7,630.00	166.76	156.24	84.61	-7,214.55	4,770.71	1,064.59	783.63	280.97	3.789		
19,100.00	7,730.00	18,429.08	7,630.00	168.06	157.74	84.61	-7,314.55	4,770.37	1,064.59	780.29	284.30	3.745		
19,200.00	7,730.00	18,529.08	7,630.00	169.38	159.25	84.61	-7,414.55	4,770.04	1,064.59	776.95	287.64	3.701		
19,300.00	7,730.00	18,629.08	7,630.00	170.70	160.76	84.61	-7,514.55	4,769.70	1,064.59	773.60	290.99	3.659		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,729.08	7,630.00	172.04	162.28	84.61	-7,614.55	4,769.36	1,064.59	770.25	294.34	3.617	
19,500.00	7,730.00	18,829.08	7,630.00	173.40	163.81	84.61	-7,714.55	4,769.02	1,064.59	766.90	297.69	3.576	
19,600.00	7,730.00	18,929.08	7,630.00	174.76	165.34	84.61	-7,814.55	4,768.69	1,064.59	763.54	301.05	3.536	
19,700.00	7,730.00	19,029.08	7,630.00	176.14	166.88	84.61	-7,914.55	4,768.35	1,064.59	760.18	304.41	3.497	
19,800.00	7,730.00	19,129.08	7,630.00	177.52	168.43	84.61	-8,014.54	4,768.01	1,064.59	756.81	307.78	3.459	
19,900.00	7,730.00	19,229.08	7,630.00	178.92	169.98	84.61	-8,114.54	4,767.67	1,064.59	753.44	311.14	3.422	
20,000.00	7,730.00	19,329.08	7,630.00	180.33	171.53	84.61	-8,214.54	4,767.34	1,064.59	750.07	314.52	3.385	
20,100.00	7,730.00	19,429.08	7,630.00	181.75	173.10	84.61	-8,314.54	4,767.00	1,064.59	746.70	317.89	3.349	
20,184.95	7,730.00	19,514.03	7,630.00	182.96	174.43	84.61	-8,399.50	4,766.71	1,064.59	743.83	320.76	3.319 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-88.95	0.36	-19.88	19.88					
100.00	100.00	100.00	100.00	0.13	0.13	-88.95	0.36	-19.88	19.88	19.61	0.27	73.957	CC, ES	
200.00	199.98	200.02	199.98	0.49	0.49	-161.03	0.36	-19.88	21.53	20.54	0.98	21.859		
300.00	299.84	299.84	299.84	0.86	0.85	-164.68	0.36	-19.88	26.53	24.82	1.71	15.532		
400.00	399.45	400.61	400.58	1.23	1.21	-167.73	1.02	-18.24	33.32	30.89	2.42	13.743		
500.00	498.70	501.62	501.46	1.63	1.57	-169.53	3.00	-13.30	40.17	37.02	3.14	12.780		
600.00	597.47	602.89	602.33	2.05	1.94	-170.63	6.32	-5.03	47.03	43.16	3.87	12.158		
700.00	695.62	704.41	703.07	2.51	2.33	-171.29	10.97	6.57	53.88	49.28	4.60	11.712		
800.00	793.06	806.17	803.54	3.00	2.75	-171.65	16.97	21.52	60.71	55.37	5.34	11.365		
900.00	889.64	908.19	903.63	3.53	3.20	-171.82	24.31	39.81	67.49	61.40	6.09	11.079		
1,000.00	985.27	1,010.45	1,003.19	4.12	3.68	-171.83	32.99	61.46	74.22	67.37	6.86	10.824		
1,100.00	1,079.82	1,112.95	1,102.09	4.75	4.21	-171.73	43.02	86.46	80.90	73.27	7.63	10.603		
1,200.00	1,173.17	1,215.71	1,200.19	5.44	4.80	-171.54	54.38	114.80	87.50	79.08	8.42	10.391		
1,300.00	1,265.21	1,318.70	1,297.36	6.18	5.43	-171.29	67.08	146.46	94.03	84.80	9.23	10.188		
1,400.00	1,355.84	1,421.93	1,393.47	6.99	6.13	-170.97	81.10	181.43	100.48	90.42	10.06	9.990		
1,500.00	1,444.94	1,525.40	1,488.37	7.87	6.89	-170.61	96.44	219.68	106.83	95.93	10.91	9.794		
1,600.00	1,532.39	1,629.10	1,581.93	8.80	7.72	-170.21	113.09	261.18	113.10	101.31	11.78	9.597		
1,700.00	1,618.11	1,733.03	1,674.01	9.81	8.62	-169.78	131.03	305.90	119.26	106.57	12.69	9.398		
1,800.00	1,701.97	1,837.18	1,764.47	10.89	9.59	-169.31	150.24	353.79	125.31	111.69	13.63	9.196		
1,900.00	1,783.88	1,941.55	1,853.19	12.04	10.64	-168.81	170.70	404.82	131.25	116.65	14.60	8.990		
2,000.00	1,863.74	2,046.14	1,940.02	13.26	11.77	-168.29	192.40	458.93	137.07	121.46	15.61	8.780		
2,100.00	1,941.45	2,150.95	2,024.83	14.55	12.99	-167.75	215.32	516.06	142.77	126.10	16.67	8.564		
2,200.00	2,016.92	2,255.95	2,107.49	15.92	14.28	-167.18	239.42	576.15	148.34	130.56	17.78	8.343		
2,292.11	2,084.36	2,351.55	2,180.70	17.25	15.52	-166.66	262.30	633.20	153.45	134.57	18.88	8.129		
2,300.00	2,090.06	2,359.43	2,186.69	17.36	15.63	-166.63	264.21	637.95	153.94	134.96	18.98	8.111		
2,400.00	2,162.18	2,459.23	2,262.51	18.84	16.96	-166.19	288.36	698.18	160.17	139.87	20.30	7.891		
2,500.00	2,234.31	2,559.02	2,338.34	20.33	18.31	-165.79	312.51	758.40	166.40	144.76	21.64	7.688		
2,600.00	2,306.43	2,658.82	2,414.16	21.83	19.66	-165.42	336.67	818.63	172.64	149.63	23.01	7.502		
2,700.00	2,378.56	2,758.62	2,489.99	23.33	21.02	-165.07	360.82	878.85	178.89	154.49	24.40	7.331		
2,800.00	2,450.68	2,858.42	2,565.81	24.84	22.39	-164.75	384.98	939.08	185.14	159.33	25.81	7.174		
2,900.00	2,522.81	2,958.22	2,641.64	26.36	23.77	-164.45	409.13	999.30	191.40	164.17	27.23	7.028		
3,000.00	2,594.93	3,058.02	2,717.46	27.88	25.15	-164.17	433.29	1,059.53	197.67	168.99	28.67	6.894		
3,100.00	2,667.06	3,157.82	2,793.29	29.40	26.53	-163.90	457.44	1,119.75	203.93	173.81	30.13	6.769		
3,200.00	2,739.18	3,257.62	2,869.11	30.92	27.91	-163.65	481.60	1,179.97	210.21	178.62	31.59	6.654		
3,300.00	2,811.31	3,357.42	2,944.93	32.45	29.30	-163.42	505.75	1,240.20	216.48	183.42	33.07	6.547		
3,400.00	2,883.43	3,457.22	3,020.76	33.98	30.69	-163.19	529.91	1,300.42	222.76	188.21	34.55	6.447		
3,500.00	2,955.56	3,557.02	3,096.58	35.51	32.09	-162.98	554.06	1,360.65	229.05	193.00	36.05	6.354		
3,600.00	3,027.68	3,656.81	3,172.41	37.04	33.48	-162.79	578.22	1,420.87	235.33	197.78	37.55	6.267		
3,700.00	3,099.81	3,756.61	3,248.23	38.57	34.88	-162.60	602.37	1,481.10	241.62	202.56	39.06	6.185		
3,800.00	3,171.93	3,856.41	3,324.06	40.11	36.27	-162.42	626.53	1,541.32	247.91	207.33	40.58	6.109		
3,900.00	3,244.06	3,956.21	3,399.88	41.64	37.67	-162.25	650.68	1,601.55	254.21	212.10	42.11	6.037		
4,000.00	3,316.18	4,056.01	3,475.71	43.18	39.07	-162.09	674.84	1,661.77	260.50	216.86	43.64	5.969		
4,100.00	3,388.31	4,155.81	3,551.53	44.71	40.47	-161.93	698.99	1,722.00	266.80	221.62	45.18	5.906		
4,200.00	3,460.43	4,255.61	3,627.36	46.25	41.87	-161.79	723.14	1,782.22	273.10	226.38	46.72	5.846		
4,300.00	3,532.56	4,355.41	3,703.18	47.79	43.28	-161.65	747.30	1,842.45	279.40	231.14	48.26	5.789		
4,400.00	3,604.68	4,455.21	3,779.01	49.33	44.68	-161.51	771.45	1,902.67	285.70	235.89	49.81	5.735		
4,500.00	3,676.81	4,555.01	3,854.83	50.87	46.08	-161.38	795.61	1,962.90	292.01	240.64	51.37	5.684		
4,600.00	3,748.93	4,654.80	3,930.66	52.41	47.49	-161.26	819.76	2,023.12	298.31	245.38	52.93	5.636		
4,700.00	3,821.06	4,754.60	4,006.48	53.95	48.89	-161.14	843.92	2,083.35	304.62	250.13	54.49	5.590		
4,800.00	3,893.18	4,854.40	4,082.30	55.49	50.30	-161.03	868.07	2,143.57	310.93	254.87	56.06	5.547		
4,900.00	3,965.31	4,954.20	4,158.13	57.03	51.70	-160.92	892.23	2,203.80	317.24	259.61	57.63	5.505		
5,000.00	4,037.43	5,054.00	4,233.95	58.58	53.11	-160.82	916.38	2,264.02	323.55	264.35	59.20	5.466		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,153.80	4,309.78	60.12	54.51	-160.72	940.54	2,324.24	329.86	269.09	60.77	5.428		
5,200.00	4,181.68	5,253.60	4,385.60	61.66	55.92	-160.62	964.69	2,384.47	336.17	273.82	62.35	5.392		
5,300.00	4,253.81	5,353.40	4,461.43	63.20	57.33	-160.53	988.85	2,444.69	342.48	278.56	63.93	5.357		
5,400.00	4,325.93	5,453.20	4,537.25	64.75	58.73	-160.44	1,013.00	2,504.92	348.80	283.29	65.51	5.324		
5,500.00	4,398.06	5,553.00	4,613.08	66.29	60.14	-160.35	1,037.16	2,565.14	355.11	288.02	67.10	5.293		
5,600.00	4,470.18	5,652.79	4,688.90	67.84	61.55	-160.27	1,061.31	2,625.37	361.43	292.75	68.68	5.262		
5,700.00	4,542.31	5,752.59	4,764.73	69.38	62.96	-160.19	1,085.47	2,685.59	367.75	297.48	70.27	5.233		
5,800.00	4,614.43	5,852.39	4,840.55	70.92	64.37	-160.11	1,109.62	2,745.82	374.06	302.20	71.86	5.205		
5,900.00	4,686.56	5,952.19	4,916.38	72.47	65.78	-160.04	1,133.77	2,806.04	380.38	306.93	73.45	5.179		
6,000.00	4,758.68	6,051.99	4,992.20	74.01	67.18	-159.96	1,157.93	2,866.27	386.70	311.65	75.05	5.153		
6,100.00	4,830.81	6,151.79	5,068.02	75.56	68.59	-159.89	1,182.08	2,926.49	393.02	316.38	76.64	5.128		
6,200.00	4,902.93	6,251.59	5,143.85	77.10	70.00	-159.83	1,206.24	2,986.72	399.34	321.10	78.24	5.104		
6,300.00	4,975.06	6,351.39	5,219.67	78.65	71.41	-159.76	1,230.39	3,046.94	405.66	325.82	79.84	5.081		
6,400.00	5,047.18	6,451.19	5,295.50	80.19	72.82	-159.70	1,254.55	3,107.17	411.98	330.54	81.44	5.059		
6,500.00	5,119.31	6,550.99	5,371.32	81.74	74.23	-159.63	1,278.70	3,167.39	418.30	335.26	83.04	5.037		
6,600.00	5,191.43	6,650.78	5,447.15	83.28	75.64	-159.57	1,302.86	3,227.62	424.62	339.98	84.64	5.017		
6,700.00	5,263.56	6,750.58	5,522.97	84.83	77.05	-159.51	1,327.01	3,287.84	430.94	344.70	86.24	4.997		
6,800.00	5,335.68	6,850.38	5,598.80	86.37	78.46	-159.46	1,351.17	3,348.06	437.27	349.42	87.85	4.978		
6,900.00	5,407.81	6,950.18	5,674.62	87.92	79.87	-159.40	1,375.32	3,408.29	443.59	354.14	89.45	4.959		
7,000.00	5,479.93	7,049.98	5,750.45	89.47	81.28	-159.35	1,399.48	3,468.51	449.91	358.85	91.06	4.941		
7,100.00	5,552.06	7,149.78	5,826.27	91.01	82.69	-159.30	1,423.63	3,528.74	456.24	363.57	92.67	4.923		
7,200.00	5,624.18	7,249.58	5,902.10	92.56	84.10	-159.25	1,447.79	3,588.96	462.56	368.28	94.28	4.906		
7,300.00	5,696.31	7,349.38	5,977.92	94.10	85.51	-159.20	1,471.94	3,649.19	468.88	373.00	95.89	4.890		
7,400.00	5,768.43	7,449.18	6,053.74	95.65	86.92	-159.15	1,496.09	3,709.41	475.21	377.71	97.50	4.874		
7,500.00	5,840.56	7,548.98	6,129.57	97.20	88.33	-159.10	1,520.25	3,769.64	481.53	382.43	99.11	4.859		
7,600.00	5,912.68	7,648.77	6,205.39	98.74	89.74	-159.06	1,544.40	3,829.86	487.86	387.14	100.72	4.844		
7,700.00	5,984.81	7,748.57	6,281.22	100.29	91.16	-159.01	1,568.56	3,890.09	494.19	391.85	102.33	4.829		
7,800.00	6,056.93	7,848.37	6,357.04	101.84	92.57	-158.97	1,592.71	3,950.31	500.51	396.57	103.95	4.815		
7,900.00	6,129.06	7,948.17	6,432.87	103.38	93.98	-158.93	1,616.87	4,010.54	506.84	401.28	105.56	4.801		
8,000.00	6,201.18	8,047.97	6,508.69	104.93	95.39	-158.89	1,641.02	4,070.76	513.16	405.99	107.17	4.788		
8,100.00	6,273.31	8,147.77	6,584.52	106.48	96.80	-158.85	1,665.18	4,130.99	519.49	410.70	108.79	4.775		
8,200.00	6,345.43	8,247.57	6,660.34	108.02	98.21	-158.81	1,689.33	4,191.21	525.82	415.41	110.41	4.763		
8,300.00	6,417.56	8,347.37	6,736.17	109.57	99.62	-158.77	1,713.49	4,251.44	532.15	420.12	112.02	4.750		
8,400.00	6,489.68	8,447.17	6,811.99	111.12	101.03	-158.73	1,737.64	4,311.66	538.47	424.83	113.64	4.738		
8,500.00	6,561.81	8,546.97	6,887.82	112.66	102.45	-158.69	1,761.80	4,371.89	544.80	429.54	115.26	4.727		
8,600.00	6,633.93	8,646.76	6,963.64	114.21	103.86	-158.66	1,785.95	4,432.11	551.13	434.25	116.88	4.715		
8,700.00	6,706.06	8,746.56	7,039.47	115.76	105.27	-158.62	1,810.11	4,492.33	557.46	438.96	118.50	4.704		
8,800.00	6,778.18	8,846.36	7,115.29	117.30	106.68	-158.59	1,834.26	4,552.56	563.79	443.67	120.12	4.694		
8,900.00	6,850.31	8,946.16	7,191.11	118.85	108.09	-158.56	1,858.42	4,612.78	570.11	448.38	121.74	4.683		
9,000.00	6,922.43	9,045.96	7,266.94	120.40	109.50	-158.52	1,882.57	4,673.01	576.44	453.09	123.36	4.673		
9,100.00	6,994.56	9,150.66	7,346.80	121.95	110.98	-158.47	1,906.11	4,736.43	582.60	457.99	124.61	4.675		
9,200.00	7,066.68	9,259.15	7,431.46	123.49	112.42	-160.47	1,913.64	4,803.61	587.36	465.18	122.18	4.807		
9,300.00	7,138.81	9,357.82	7,508.21	125.04	113.60	-163.74	1,902.70	4,864.45	592.05	475.28	116.78	5.070		
9,392.50	7,205.52	9,437.17	7,568.16	126.47	114.40	-167.41	1,881.81	4,911.94	598.74	487.58	111.17	5.386		
9,400.00	7,210.94	9,443.10	7,572.55	126.59	114.46	-168.54	1,879.82	4,915.41	599.46	488.71	110.74	5.413		
9,450.00	7,247.42	9,481.94	7,600.82	127.35	114.80	-176.27	1,865.42	4,937.78	604.88	496.57	108.30	5.585		
9,500.00	7,284.35	9,519.69	7,627.51	128.10	115.09	175.83	1,849.11	4,958.90	611.31	504.85	106.46	5.742		
9,550.00	7,321.43	9,556.51	7,652.69	128.83	115.36	167.92	1,831.07	4,978.81	618.58	513.49	105.09	5.886		
9,600.00	7,358.38	9,592.54	7,676.40	129.52	115.58	160.15	1,811.46	4,997.55	626.51	522.46	104.06	6.021		
9,650.00	7,394.93	9,627.89	7,698.67	130.16	115.77	152.67	1,790.42	5,015.15	634.91	531.67	103.24	6.150		
9,700.00	7,430.79	9,662.64	7,719.55	130.76	115.93	145.60	1,768.06	5,031.63	643.61	541.04	102.56	6.275		
9,750.00	7,465.70	9,696.88	7,739.04	131.30	116.07	139.04	1,744.49	5,047.01	652.43	550.47	101.96	6.399		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	9,730.67	7,757.17	131.78	116.17	133.03	1,719.82	5,061.31	661.22	559.80	101.42	6.520		
9,850.00	7,531.58	9,764.08	7,773.94	132.21	116.26	127.61	1,694.13	5,074.53	669.83	568.91	100.93	6.637		
9,900.00	7,562.06	9,800.00	7,790.63	132.57	116.33	122.71	1,665.18	5,087.67	678.15	577.71	100.44	6.752		
9,950.00	7,590.58	9,829.94	7,803.44	132.87	116.36	118.50	1,640.06	5,097.75	686.02	585.80	100.21	6.846		
10,000.00	7,616.93	9,862.49	7,816.18	133.11	116.38	114.77	1,611.84	5,107.75	693.36	593.29	100.07	6.929		
10,050.00	7,640.90	9,894.82	7,827.57	133.29	116.38	111.55	1,582.94	5,116.69	700.07	599.93	100.14	6.991		
10,100.00	7,662.32	9,926.97	7,837.62	133.42	116.36	108.81	1,553.43	5,124.56	706.06	605.60	100.46	7.028		
10,150.00	7,681.01	9,958.98	7,846.31	133.50	116.34	106.52	1,523.39	5,131.36	711.27	610.19	101.08	7.037		
10,200.00	7,696.85	9,990.87	7,853.66	133.52	116.29	104.66	1,492.90	5,137.08	715.63	613.60	102.03	7.014		
10,250.00	7,709.70	10,022.66	7,859.65	133.51	116.23	103.21	1,462.02	5,141.73	719.09	615.77	103.33	6.959		
10,300.00	7,719.47	10,050.00	7,863.72	133.46	116.18	102.17	1,435.18	5,144.87	721.65	616.11	105.55	6.837		
10,350.00	7,726.09	10,086.07	7,867.55	133.37	116.09	101.47	1,399.43	5,147.79	723.21	616.24	106.97	6.761		
10,400.00	7,729.50	10,117.73	7,869.46	133.26	116.00	101.16	1,367.86	5,149.19	723.82	614.55	109.27	6.624		
10,427.79	7,730.00	10,135.33	7,869.92	133.18	115.95	101.15	1,350.28	5,149.51	723.74	613.06	110.67	6.539		
10,459.28	7,730.00	10,160.68	7,870.00	133.09	115.88	101.15	1,324.93	5,149.48	723.66	612.24	111.43	6.494		
10,500.00	7,730.00	10,201.40	7,870.00	132.98	115.75	101.15	1,284.21	5,149.34	723.66	612.55	111.11	6.513		
10,600.00	7,730.00	10,301.40	7,870.00	132.72	115.46	101.15	1,184.21	5,149.01	723.66	613.25	110.41	6.554		
10,700.00	7,730.00	10,401.40	7,870.00	132.47	115.18	101.15	1,084.21	5,148.67	723.66	613.84	109.82	6.589		
10,800.00	7,730.00	10,501.40	7,870.00	132.22	114.91	101.15	984.21	5,148.34	723.66	614.32	109.34	6.619		
10,900.00	7,730.00	10,601.40	7,870.00	131.99	114.65	101.15	884.21	5,148.00	723.65	614.69	108.96	6.641		
11,000.00	7,730.00	10,701.40	7,870.00	131.77	114.40	101.15	784.21	5,147.67	723.65	614.95	108.70	6.657		
11,100.00	7,730.00	10,801.40	7,870.00	131.56	114.17	101.16	684.21	5,147.33	723.65	615.10	108.54	6.667		
11,200.00	7,730.00	10,901.40	7,870.00	131.36	113.95	101.16	584.21	5,146.99	723.65	615.14	108.50	6.669		
11,300.00	7,730.00	11,001.40	7,870.00	131.17	113.74	101.16	484.21	5,146.66	723.64	615.07	108.57	6.665		
11,400.00	7,730.00	11,101.40	7,870.00	130.99	113.55	101.16	384.22	5,146.32	723.64	614.89	108.76	6.654		
11,500.00	7,730.00	11,201.40	7,870.00	130.82	113.36	101.16	284.22	5,145.99	723.64	614.59	109.05	6.636		
11,600.00	7,730.00	11,301.40	7,870.00	130.66	113.19	101.16	184.22	5,145.65	723.64	614.19	109.45	6.612		
11,700.00	7,730.00	11,401.40	7,870.00	130.51	113.03	101.16	84.22	5,145.32	723.63	613.67	109.96	6.581		
11,800.00	7,730.00	11,501.40	7,870.00	130.37	112.89	101.16	-15.78	5,144.98	723.63	613.05	110.58	6.544		
11,900.00	7,730.00	11,601.40	7,870.00	130.24	112.76	101.16	-115.78	5,144.64	723.63	612.32	111.31	6.501		
12,000.00	7,730.00	11,701.40	7,870.00	130.13	112.64	101.16	-215.78	5,144.31	723.63	611.49	112.13	6.453		
12,100.00	7,730.00	11,801.40	7,870.00	130.02	112.53	101.16	-315.78	5,143.97	723.63	610.56	113.06	6.400		
12,200.00	7,730.00	11,901.40	7,870.00	129.93	112.44	101.16	-415.78	5,143.64	723.62	609.53	114.09	6.342		
12,300.00	7,730.00	12,001.40	7,870.00	129.85	112.35	101.16	-515.78	5,143.30	723.62	608.40	115.22	6.281		
12,400.00	7,730.00	12,101.40	7,870.00	129.77	112.29	101.16	-615.78	5,142.97	723.62	607.18	116.43	6.215		
12,500.00	7,730.00	12,201.40	7,870.00	129.71	112.24	101.16	-715.78	5,142.63	723.62	605.87	117.74	6.146		
12,600.00	7,730.00	12,301.40	7,870.00	129.66	112.20	101.16	-815.78	5,142.29	723.61	604.48	119.14	6.074		
12,700.00	7,730.00	12,401.40	7,870.00	129.63	112.17	101.16	-915.78	5,141.96	723.61	602.99	120.62	5.999		
12,800.00	7,730.00	12,501.40	7,870.00	129.60	112.16	101.16	-1,015.78	5,141.62	723.61	601.43	122.18	5.923		
12,900.00	7,730.00	12,601.40	7,870.00	129.59	112.17	101.16	-1,115.78	5,141.29	723.61	599.79	123.82	5.844		
13,000.00	7,730.00	12,701.40	7,870.00	129.59	112.19	101.16	-1,215.78	5,140.95	723.60	598.07	125.53	5.764		
13,100.00	7,730.00	12,801.40	7,870.00	129.60	112.23	101.16	-1,315.78	5,140.62	723.60	596.28	127.32	5.683		
13,200.00	7,730.00	12,901.40	7,870.00	129.63	112.29	101.16	-1,415.77	5,140.28	723.60	594.43	129.17	5.602		
13,300.00	7,730.00	13,001.40	7,870.00	129.66	112.36	101.16	-1,515.77	5,139.94	723.60	592.50	131.10	5.520		
13,400.00	7,730.00	13,101.40	7,870.00	129.72	112.45	101.16	-1,615.77	5,139.61	723.59	590.51	133.08	5.437		
13,500.00	7,730.00	13,201.40	7,870.00	129.78	112.56	101.16	-1,715.77	5,139.27	723.59	588.46	135.13	5.355		
13,600.00	7,730.00	13,301.40	7,870.00	129.86	112.68	101.16	-1,815.77	5,138.94	723.59	586.36	137.23	5.273		
13,700.00	7,730.00	13,401.40	7,870.00	129.96	112.83	101.16	-1,915.77	5,138.60	723.59	584.20	139.39	5.191		
13,800.00	7,730.00	13,501.40	7,870.00	130.07	113.00	101.16	-2,015.77	5,138.27	723.59	581.98	141.60	5.110		
13,900.00	7,730.00	13,601.40	7,870.00	130.19	113.19	101.16	-2,115.77	5,137.93	723.58	579.72	143.86	5.030		
14,000.00	7,730.00	13,701.40	7,870.00	130.33	113.40	101.16	-2,215.77	5,137.59	723.58	577.41	146.17	4.950		
14,100.00	7,730.00	13,801.40	7,870.00	130.49	113.64	101.16	-2,315.77	5,137.26	723.58	575.05	148.53	4.872		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,901.40	7,870.00	130.67	113.90	101.16	-2,415.77	5,136.92	723.58	572.65	150.93	4.794		
14,300.00	7,730.00	14,001.40	7,870.00	130.86	114.18	101.16	-2,515.77	5,136.59	723.57	570.21	153.37	4.718		
14,400.00	7,730.00	14,101.40	7,870.00	131.07	114.49	101.16	-2,615.77	5,136.25	723.57	567.72	155.85	4.643		
14,500.00	7,730.00	14,201.40	7,870.00	131.30	114.83	101.16	-2,715.77	5,135.92	723.57	565.20	158.37	4.569		
14,600.00	7,730.00	14,301.40	7,870.00	131.55	115.19	101.16	-2,815.77	5,135.58	723.57	562.65	160.92	4.496		
14,700.00	7,730.00	14,401.40	7,870.00	131.82	115.58	101.16	-2,915.77	5,135.24	723.56	560.06	163.51	4.425		
14,800.00	7,730.00	14,501.40	7,870.00	132.11	116.00	101.16	-3,015.77	5,134.91	723.56	557.43	166.13	4.355		
14,900.00	7,730.00	14,601.40	7,870.00	132.42	116.45	101.16	-3,115.77	5,134.57	723.56	554.78	168.78	4.287		
15,000.00	7,730.00	14,701.40	7,870.00	132.75	116.93	101.16	-3,215.76	5,134.24	723.56	552.10	171.46	4.220		
15,100.00	7,730.00	14,801.40	7,870.00	133.10	117.44	101.16	-3,315.76	5,133.90	723.56	549.39	174.17	4.154		
15,200.00	7,730.00	14,901.40	7,870.00	133.48	117.99	101.16	-3,415.76	5,133.57	723.55	546.65	176.91	4.090		
15,300.00	7,730.00	15,001.40	7,870.00	133.88	118.56	101.16	-3,515.76	5,133.23	723.55	543.88	179.67	4.027		
15,400.00	7,730.00	15,101.40	7,870.00	134.31	119.17	101.16	-3,615.76	5,132.89	723.55	541.09	182.46	3.966		
15,500.00	7,730.00	15,201.40	7,870.00	134.76	119.82	101.16	-3,715.76	5,132.56	723.55	538.28	185.27	3.905		
15,600.00	7,730.00	15,301.40	7,870.00	135.23	120.49	101.16	-3,815.76	5,132.22	723.54	535.44	188.10	3.847		
15,700.00	7,730.00	15,401.40	7,870.00	135.73	121.20	101.16	-3,915.76	5,131.89	723.54	532.59	190.95	3.789		
15,800.00	7,730.00	15,501.40	7,870.00	136.26	121.95	101.16	-4,015.76	5,131.55	723.54	529.71	193.83	3.733		
15,900.00	7,730.00	15,601.40	7,870.00	136.81	122.72	101.16	-4,115.76	5,131.21	723.54	526.81	196.72	3.678		
16,000.00	7,730.00	15,701.40	7,870.00	137.39	123.53	101.16	-4,215.76	5,130.88	723.53	523.90	199.64	3.624		
16,100.00	7,730.00	15,801.40	7,870.00	138.00	124.37	101.16	-4,315.76	5,130.54	723.53	520.97	202.57	3.572		
16,200.00	7,730.00	15,901.40	7,870.00	138.63	125.25	101.16	-4,415.76	5,130.21	723.53	518.01	205.51	3.521		
16,300.00	7,730.00	16,001.40	7,870.00	139.30	126.15	101.16	-4,515.76	5,129.87	723.53	515.05	208.48	3.470		
16,400.00	7,730.00	16,101.40	7,870.00	139.99	127.09	101.16	-4,615.76	5,129.54	723.52	512.06	211.46	3.422		
16,500.00	7,730.00	16,201.40	7,870.00	140.70	128.05	101.16	-4,715.76	5,129.20	723.52	509.07	214.46	3.374		
16,600.00	7,730.00	16,301.40	7,870.00	141.45	129.05	101.16	-4,815.76	5,128.86	723.52	506.05	217.47	3.327		
16,700.00	7,730.00	16,401.40	7,870.00	142.22	130.07	101.16	-4,915.75	5,128.53	723.52	503.03	220.49	3.281		
16,800.00	7,730.00	16,501.40	7,870.00	143.03	131.13	101.16	-5,015.75	5,128.19	723.52	499.99	223.53	3.237		
16,900.00	7,730.00	16,601.40	7,870.00	143.86	132.20	101.16	-5,115.75	5,127.86	723.51	496.94	226.58	3.193		
17,000.00	7,730.00	16,701.40	7,870.00	144.71	133.31	101.16	-5,215.75	5,127.52	723.51	493.87	229.64	3.151		
17,100.00	7,730.00	16,801.40	7,870.00	145.60	134.44	101.16	-5,315.75	5,127.19	723.51	490.80	232.71	3.109		
17,200.00	7,730.00	16,901.40	7,870.00	146.51	135.59	101.16	-5,415.75	5,126.85	723.51	487.71	235.80	3.068		
17,300.00	7,730.00	17,001.40	7,870.00	147.44	136.76	101.16	-5,515.75	5,126.51	723.50	484.61	238.89	3.029		
17,400.00	7,730.00	17,101.40	7,870.00	148.40	137.96	101.16	-5,615.75	5,126.18	723.50	481.50	242.00	2.990		
17,500.00	7,730.00	17,201.40	7,870.00	149.39	139.18	101.16	-5,715.75	5,125.84	723.50	478.38	245.12	2.952		
17,600.00	7,730.00	17,301.40	7,870.00	150.40	140.41	101.16	-5,815.75	5,125.51	723.50	475.25	248.24	2.914		
17,700.00	7,730.00	17,401.40	7,870.00	151.44	141.67	101.16	-5,915.75	5,125.17	723.49	472.11	251.38	2.878		
17,800.00	7,730.00	17,501.40	7,870.00	152.50	142.94	101.16	-6,015.75	5,124.84	723.49	468.97	254.52	2.843		
17,900.00	7,730.00	17,601.40	7,870.00	153.58	144.23	101.16	-6,115.75	5,124.50	723.49	465.81	257.68	2.808		
18,000.00	7,730.00	17,701.40	7,870.00	154.68	145.54	101.16	-6,215.75	5,124.16	723.49	462.65	260.84	2.774		
18,100.00	7,730.00	17,801.40	7,870.00	155.80	146.86	101.16	-6,315.75	5,123.83	723.49	459.48	264.01	2.740		
18,200.00	7,730.00	17,901.40	7,870.00	156.95	148.20	101.16	-6,415.75	5,123.49	723.48	456.30	267.19	2.708		
18,300.00	7,730.00	18,001.40	7,870.00	158.11	149.55	101.16	-6,515.75	5,123.16	723.48	453.11	270.37	2.676		
18,400.00	7,730.00	18,101.40	7,870.00	159.30	150.92	101.16	-6,615.75	5,122.82	723.48	449.91	273.56	2.645		
18,500.00	7,730.00	18,201.40	7,870.00	160.50	152.30	101.16	-6,715.74	5,122.49	723.48	446.71	276.76	2.614		
18,600.00	7,730.00	18,301.40	7,870.00	161.72	153.69	101.16	-6,815.74	5,122.15	723.47	443.50	279.97	2.584		
18,700.00	7,730.00	18,401.40	7,870.00	162.96	155.09	101.16	-6,915.74	5,121.81	723.47	440.29	283.18	2.555		
18,800.00	7,730.00	18,501.40	7,870.00	164.21	156.51	101.16	-7,015.74	5,121.48	723.47	437.07	286.40	2.526		
18,900.00	7,730.00	18,601.40	7,870.00	165.48	157.93	101.16	-7,115.74	5,121.14	723.47	433.84	289.63	2.498		
19,000.00	7,730.00	18,701.40	7,870.00	166.76	159.37	101.16	-7,215.74	5,120.81	723.46	430.61	292.86	2.470		
19,100.00	7,730.00	18,801.40	7,870.00	168.06	160.81	101.16	-7,315.74	5,120.47	723.46	427.37	296.09	2.443		
19,200.00	7,730.00	18,901.40	7,870.00	169.38	162.27	101.16	-7,415.74	5,120.14	723.46	424.12	299.34	2.417		
19,300.00	7,730.00	19,001.40	7,870.00	170.70	163.73	101.16	-7,515.74	5,119.80	723.46	420.88	302.58	2.391		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	19,101.40	7,870.00	172.04	165.20	101.16	-7,615.74	5,119.46	723.45	417.62	305.83	2.366	
19,500.00	7,730.00	19,201.40	7,870.00	173.40	166.68	101.16	-7,715.74	5,119.13	723.45	414.36	309.09	2.341	
19,600.00	7,730.00	19,301.40	7,870.00	174.76	168.17	101.16	-7,815.74	5,118.79	723.45	411.10	312.35	2.316	
19,700.00	7,730.00	19,401.40	7,870.00	176.14	169.67	101.16	-7,915.74	5,118.46	723.45	407.83	315.62	2.292	
19,800.00	7,730.00	19,501.40	7,870.00	177.52	171.17	101.16	-8,015.74	5,118.12	723.45	404.55	318.89	2.269	
19,900.00	7,730.00	19,601.40	7,870.00	178.92	172.68	101.16	-8,115.74	5,117.79	723.44	401.28	322.17	2.246	
20,000.00	7,730.00	19,701.40	7,870.00	180.33	174.20	101.16	-8,215.74	5,117.45	723.44	397.99	325.45	2.223	
20,100.00	7,730.00	19,801.40	7,870.00	181.75	175.72	101.16	-8,315.74	5,117.11	723.44	394.71	328.73	2.201	
20,184.95	7,730.00	19,886.35	7,870.00	182.96	177.02	101.16	-8,400.69	5,116.83	723.44	391.91	331.53	2.182 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-87.93	0.36	-10.08	10.09					
100.00	100.00	100.00	100.00	0.13	0.13	-87.93	0.36	-10.08	10.09	9.82	0.27	37.517	CC, ES	
200.00	199.98	199.98	199.98	0.49	0.49	-161.52	0.36	-10.08	11.73	10.74	0.98	11.910		
300.00	299.84	300.37	300.35	0.86	0.85	-165.59	0.99	-8.44	15.08	13.38	1.70	8.872		
400.00	399.45	400.88	400.71	1.23	1.21	-167.95	2.85	-3.49	18.48	16.07	2.42	7.647		
500.00	498.70	501.51	500.95	1.63	1.59	-169.39	5.96	4.75	21.90	18.76	3.14	6.976		
600.00	597.47	602.27	600.95	2.05	1.98	-170.27	10.32	16.30	25.32	21.45	3.87	6.546		
700.00	695.62	703.14	700.56	2.51	2.40	-170.80	15.93	31.15	28.72	24.12	4.60	6.239		
800.00	793.06	804.14	799.67	3.00	2.85	-171.08	22.78	49.30	32.11	26.76	5.35	6.004		
900.00	889.64	905.26	898.16	3.53	3.34	-171.19	30.87	70.73	35.47	29.36	6.10	5.813		
1,000.00	985.27	1,006.50	995.89	4.12	3.87	-171.17	40.20	95.43	38.80	31.93	6.87	5.648		
1,100.00	1,079.82	1,107.85	1,092.73	4.75	4.45	-171.05	50.75	123.37	42.09	34.44	7.65	5.503		
1,200.00	1,173.17	1,209.32	1,188.57	5.44	5.09	-170.85	62.52	154.55	45.35	36.91	8.45	5.369		
1,300.00	1,265.21	1,310.91	1,283.28	6.18	5.77	-170.59	75.50	188.92	48.57	39.31	9.26	5.244		
1,400.00	1,355.84	1,412.61	1,376.72	6.99	6.53	-170.28	89.67	226.45	51.75	41.65	10.10	5.124		
1,500.00	1,444.94	1,514.42	1,468.79	7.87	7.35	-169.92	105.02	267.11	54.87	43.91	10.96	5.007		
1,600.00	1,532.39	1,616.34	1,559.34	8.80	8.24	-169.53	121.53	310.85	57.95	46.10	11.85	4.892		
1,700.00	1,618.11	1,718.37	1,648.27	9.81	9.19	-169.11	139.19	357.63	60.97	48.21	12.76	4.778		
1,800.00	1,701.97	1,820.50	1,735.45	10.89	10.22	-168.66	157.98	407.39	63.94	50.23	13.71	4.664		
1,900.00	1,783.88	1,922.73	1,820.77	12.04	11.33	-168.18	177.87	460.09	66.85	52.16	14.69	4.550		
2,000.00	1,863.74	2,025.07	1,904.10	13.26	12.51	-167.68	198.85	515.65	69.70	53.98	15.72	4.434		
2,100.00	1,941.45	2,127.50	1,985.33	14.55	13.77	-167.16	220.89	574.02	72.48	55.69	16.79	4.317		
2,200.00	2,016.92	2,230.03	2,064.35	15.92	15.10	-166.61	243.96	635.12	75.20	57.29	17.91	4.199		
2,292.11	2,084.36	2,324.54	2,135.08	17.25	16.40	-166.10	266.10	693.76	77.64	58.65	18.99	4.089		
2,300.00	2,090.06	2,332.64	2,141.05	17.36	16.51	-166.05	268.03	698.89	77.84	58.75	19.08	4.078		
2,400.00	2,162.18	2,433.28	2,214.54	18.84	17.95	-165.33	292.31	763.21	79.45	58.99	20.47	3.882		
2,500.00	2,234.31	2,533.26	2,287.49	20.33	19.40	-164.62	316.47	827.18	80.98	59.05	21.93	3.692		
2,600.00	2,306.43	2,633.25	2,360.43	21.83	20.86	-163.93	340.62	891.15	82.52	59.08	23.45	3.520		
2,700.00	2,378.56	2,733.23	2,433.38	23.33	22.33	-163.28	364.77	955.12	84.08	59.07	25.00	3.363		
2,800.00	2,450.68	2,833.21	2,506.32	24.84	23.80	-162.64	388.92	1,019.09	85.64	59.04	26.60	3.220		
2,900.00	2,522.81	2,933.20	2,579.27	26.36	25.28	-162.03	413.07	1,083.07	87.21	58.98	28.23	3.090		
3,000.00	2,594.93	3,033.18	2,652.21	27.88	26.76	-161.44	437.23	1,147.04	88.79	58.90	29.89	2.970		
3,100.00	2,667.06	3,133.16	2,725.16	29.40	28.25	-160.87	461.38	1,211.01	90.39	58.79	31.59	2.861		
3,200.00	2,739.18	3,233.15	2,798.10	30.92	29.73	-160.32	485.53	1,274.98	91.99	58.66	33.32	2.760		
3,300.00	2,811.31	3,333.13	2,871.05	32.45	31.23	-159.79	509.68	1,338.95	93.59	58.51	35.08	2.668		
3,400.00	2,883.43	3,433.11	2,943.99	33.98	32.72	-159.27	533.84	1,402.93	95.21	58.34	36.87	2.582		
3,500.00	2,955.56	3,533.10	3,016.94	35.51	34.22	-158.78	557.99	1,466.90	96.83	58.14	38.69	2.503		
3,600.00	3,027.68	3,633.08	3,089.88	37.04	35.72	-158.30	582.14	1,530.87	98.46	57.93	40.53	2.429		
3,700.00	3,099.81	3,733.06	3,162.83	38.57	37.22	-157.83	606.29	1,594.84	100.10	57.71	42.40	2.361		
3,800.00	3,171.93	3,833.05	3,235.77	40.11	38.72	-157.38	630.44	1,658.81	101.74	57.46	44.28	2.298		
3,900.00	3,244.06	3,933.03	3,308.72	41.64	40.22	-156.95	654.60	1,722.79	103.39	57.20	46.19	2.238		
4,000.00	3,316.18	4,033.01	3,381.66	43.18	41.72	-156.53	678.75	1,786.76	105.05	56.93	48.12	2.183		
4,100.00	3,388.31	4,133.00	3,454.61	44.71	43.23	-156.12	702.90	1,850.73	106.71	56.64	50.07	2.131		
4,200.00	3,460.43	4,232.98	3,527.55	46.25	44.73	-155.73	727.05	1,914.70	108.38	56.34	52.04	2.083		
4,300.00	3,532.56	4,332.96	3,600.50	47.79	46.24	-155.34	751.21	1,978.67	110.05	56.03	54.02	2.037		
4,400.00	3,604.68	4,432.95	3,673.44	49.33	47.74	-154.97	775.36	2,042.65	111.72	55.70	56.02	1.994		
4,500.00	3,676.81	4,532.93	3,746.38	50.87	49.25	-154.61	799.51	2,106.62	113.40	55.36	58.04	1.954		
4,600.00	3,748.93	4,632.91	3,819.33	52.41	50.76	-154.26	823.66	2,170.59	115.09	55.02	60.07	1.916		
4,700.00	3,821.06	4,732.90	3,892.27	53.95	52.27	-153.92	847.81	2,234.56	116.78	54.66	62.12	1.880		
4,800.00	3,893.18	4,832.88	3,965.22	55.49	53.78	-153.59	871.97	2,298.53	118.47	54.29	64.18	1.846		
4,900.00	3,965.31	4,932.86	4,038.16	57.03	55.28	-153.27	896.12	2,362.50	120.17	53.92	66.25	1.814		
5,000.00	4,037.43	5,032.85	4,111.11	58.58	56.79	-152.95	920.27	2,426.48	121.87	53.54	68.33	1.783		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	5,132.83	4,184.05	60.12	58.30	-152.65	944.42	2,490.45	123.57	53.14	70.43	1.755		
5,200.00	4,181.68	5,232.81	4,257.00	61.66	59.82	-152.36	968.58	2,554.42	125.28	52.74	72.54	1.727		
5,300.00	4,253.81	5,332.80	4,329.94	63.20	61.33	-152.07	992.73	2,618.39	126.99	52.34	74.65	1.701		
5,400.00	4,325.93	5,432.78	4,402.89	64.75	62.84	-151.79	1,016.88	2,682.36	128.70	51.92	76.78	1.676		
5,500.00	4,398.06	5,532.76	4,475.83	66.29	64.35	-151.52	1,041.03	2,746.34	130.42	51.50	78.92	1.653		
5,600.00	4,470.18	5,632.75	4,548.78	67.84	65.86	-151.25	1,065.18	2,810.31	132.14	51.07	81.07	1.630		
5,700.00	4,542.31	5,732.73	4,621.72	69.38	67.37	-150.99	1,089.34	2,874.28	133.86	50.64	83.22	1.609		
5,800.00	4,614.43	5,832.71	4,694.67	70.92	68.88	-150.74	1,113.49	2,938.25	135.59	50.20	85.39	1.588		
5,900.00	4,686.56	5,932.70	4,767.61	72.47	70.40	-150.49	1,137.64	3,002.22	137.32	49.76	87.56	1.568		
6,000.00	4,758.68	6,032.68	4,840.56	74.01	71.91	-150.26	1,161.79	3,066.20	139.05	49.31	89.74	1.549		
6,100.00	4,830.81	6,132.66	4,913.50	75.56	73.42	-150.02	1,185.94	3,130.17	140.78	48.85	91.93	1.531		
6,200.00	4,902.93	6,232.65	4,986.45	77.10	74.93	-149.79	1,210.10	3,194.14	142.51	48.39	94.12	1.514		
6,300.00	4,975.06	6,332.63	5,059.39	78.65	76.45	-149.57	1,234.25	3,258.11	144.25	47.93	96.32	1.498 Level 3		
6,400.00	5,047.18	6,432.61	5,132.34	80.19	77.96	-149.35	1,258.40	3,322.08	145.99	47.46	98.53	1.482 Level 3		
6,500.00	5,119.31	6,532.60	5,205.28	81.74	79.47	-149.14	1,282.55	3,386.06	147.73	46.99	100.74	1.466 Level 3		
6,600.00	5,191.43	6,632.58	5,278.23	83.28	80.99	-148.93	1,306.71	3,450.03	149.47	46.51	102.96	1.452 Level 3		
6,700.00	5,263.56	6,732.56	5,351.17	84.83	82.50	-148.73	1,330.86	3,514.00	151.22	46.03	105.19	1.438 Level 3		
6,800.00	5,335.68	6,832.55	5,424.11	86.37	84.01	-148.53	1,355.01	3,577.97	152.97	45.55	107.42	1.424 Level 3		
6,900.00	5,407.81	6,932.53	5,497.06	87.92	85.53	-148.34	1,379.16	3,641.94	154.71	45.06	109.65	1.411 Level 3		
7,000.00	5,479.93	7,032.51	5,570.00	89.47	87.04	-148.15	1,403.31	3,705.92	156.46	44.57	111.90	1.398 Level 3		
7,100.00	5,552.06	7,132.50	5,642.95	91.01	88.56	-147.97	1,427.47	3,769.89	158.22	44.07	114.14	1.386 Level 3		
7,200.00	5,624.18	7,232.48	5,715.89	92.56	90.07	-147.79	1,451.62	3,833.86	159.97	43.58	116.39	1.374 Level 3		
7,300.00	5,696.31	7,332.46	5,788.84	94.10	91.58	-147.61	1,475.77	3,897.83	161.72	43.08	118.65	1.363 Level 3		
7,400.00	5,768.43	7,432.45	5,861.78	95.65	93.10	-147.44	1,499.92	3,961.80	163.48	42.57	120.91	1.352 Level 3		
7,500.00	5,840.56	7,532.43	5,934.73	97.20	94.61	-147.27	1,524.08	4,025.77	165.24	42.07	123.17	1.342 Level 3		
7,600.00	5,912.68	7,632.41	6,007.67	98.74	96.13	-147.10	1,548.23	4,089.75	167.00	41.56	125.44	1.331 Level 3		
7,700.00	5,984.81	7,732.40	6,080.62	100.29	97.64	-146.94	1,572.38	4,153.72	168.76	41.05	127.71	1.321 Level 3		
7,800.00	6,056.93	7,832.38	6,153.56	101.84	99.16	-146.78	1,596.53	4,217.69	170.52	40.53	129.99	1.312 Level 3		
7,900.00	6,129.06	7,932.36	6,226.51	103.38	100.67	-146.63	1,620.68	4,281.66	172.29	40.02	132.27	1.303 Level 3		
8,000.00	6,201.18	8,032.35	6,299.45	104.93	102.19	-146.47	1,644.84	4,345.63	174.05	39.50	134.55	1.294 Level 3		
8,100.00	6,273.31	8,132.33	6,372.40	106.48	103.70	-146.32	1,668.99	4,409.61	175.82	38.98	136.84	1.285 Level 3		
8,200.00	6,345.43	8,232.31	6,445.34	108.02	105.22	-146.18	1,693.14	4,473.58	177.58	38.46	139.12	1.276 Level 3		
8,300.00	6,417.56	8,332.30	6,518.29	109.57	106.73	-146.03	1,717.29	4,537.55	179.35	37.93	141.42	1.268 Level 3		
8,400.00	6,489.68	8,432.28	6,591.23	111.12	108.25	-145.89	1,741.45	4,601.52	181.12	37.41	143.71	1.260 Level 3		
8,500.00	6,561.81	8,532.26	6,664.18	112.66	109.76	-145.75	1,765.60	4,665.49	182.89	36.88	146.01	1.253 Level 3		
8,600.00	6,633.93	8,632.25	6,737.12	114.21	111.28	-145.62	1,789.75	4,729.47	184.66	36.35	148.31	1.245 Level 2		
8,700.00	6,706.06	8,732.23	6,810.07	115.76	112.79	-145.49	1,813.90	4,793.44	186.44	35.82	150.62	1.238 Level 2		
8,800.00	6,778.18	8,832.21	6,883.01	117.30	114.31	-145.36	1,838.05	4,857.41	188.21	35.29	152.92	1.231 Level 2		
8,900.00	6,850.31	8,932.20	6,955.95	118.85	115.82	-145.23	1,862.21	4,921.38	189.98	34.75	155.23	1.224 Level 2		
9,000.00	6,922.43	9,032.18	7,028.90	120.40	117.34	-145.10	1,886.36	4,985.35	191.76	34.21	157.54	1.217 Level 2		
9,100.00	6,994.56	9,135.75	7,104.60	121.95	118.90	-145.21	1,910.57	5,051.74	193.28	34.01	159.27	1.214 Level 2, SF		
9,200.00	7,066.68	9,246.38	7,187.31	123.49	120.52	-149.76	1,920.89	5,124.22	190.38	41.02	149.36	1.275 Level 3		
9,300.00	7,138.81	9,347.66	7,263.10	125.04	121.86	-159.54	1,911.66	5,190.57	185.67	58.42	127.25	1.459 Level 3		
9,332.85	7,162.50	9,378.09	7,285.51	125.55	122.22	-163.55	1,905.43	5,210.18	185.17	65.95	119.22	1.553		
9,392.50	7,205.52	9,429.36	7,322.62	126.47	122.79	-171.27	1,891.38	5,242.63	187.38	80.14	107.24	1.747		
9,400.00	7,210.94	9,435.47	7,326.97	126.59	122.86	-173.07	1,889.42	5,246.44	188.02	81.86	106.16	1.771		
9,450.00	7,247.42	9,475.43	7,355.04	127.35	123.26	174.94	1,875.05	5,270.98	194.18	92.01	102.17	1.901		
9,500.00	7,284.35	9,514.22	7,381.51	128.10	123.61	163.19	1,858.65	5,294.10	203.19	101.09	102.10	1.990		
9,550.00	7,321.43	9,552.01	7,406.43	128.83	123.93	151.91	1,840.43	5,315.87	214.36	110.86	103.50	2.071		
9,600.00	7,358.38	9,588.92	7,429.85	129.52	124.19	141.29	1,820.56	5,336.32	227.03	122.39	104.64	2.170		
9,650.00	7,394.93	9,625.08	7,451.83	130.16	124.42	131.47	1,799.19	5,355.49	240.63	135.96	104.67	2.299		
9,700.00	7,430.79	9,660.59	7,472.38	130.76	124.62	122.54	1,776.45	5,373.42	254.70	151.34	103.35	2.464		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	9,695.53	7,491.54	131.30	124.79	114.52	1,752.48	5,390.11	268.85	168.09	100.76	2.668		
9,800.00	7,499.38	9,729.98	7,509.31	131.78	124.92	107.41	1,727.36	5,405.60	282.77	185.68	97.09	2.913		
9,850.00	7,531.58	9,764.00	7,525.73	132.21	125.03	101.15	1,701.22	5,419.89	296.22	203.61	92.61	3.198		
9,900.00	7,562.06	9,800.00	7,541.79	132.57	125.12	95.62	1,672.20	5,433.86	309.02	220.43	88.58	3.488		
9,950.00	7,590.58	9,830.99	7,554.50	132.87	125.17	90.99	1,646.19	5,444.91	320.97	238.54	82.44	3.894		
10,000.00	7,616.93	9,864.04	7,566.87	133.11	125.21	86.95	1,617.49	5,455.64	331.99	254.61	77.38	4.290		
10,050.00	7,640.90	9,900.00	7,578.90	133.29	125.23	83.46	1,585.24	5,466.07	341.99	268.39	73.59	4.647		
10,100.00	7,662.32	9,929.47	7,587.60	133.42	125.22	80.65	1,558.12	5,473.60	350.80	281.60	69.20	5.070		
10,150.00	7,681.01	9,961.92	7,595.96	133.50	125.21	78.28	1,527.61	5,480.82	358.44	291.57	66.86	5.361		
10,200.00	7,696.85	9,994.23	7,602.98	133.52	125.17	76.36	1,496.66	5,486.86	364.82	298.64	66.17	5.513		
10,250.00	7,709.70	10,026.44	7,608.66	133.51	125.12	74.88	1,465.34	5,491.73	369.90	302.58	67.33	5.494		
10,300.00	7,719.47	10,058.55	7,613.00	133.46	125.06	73.79	1,433.74	5,495.42	373.66	303.34	70.32	5.313		
10,350.00	7,726.09	10,090.62	7,615.99	133.37	124.99	73.09	1,401.92	5,497.94	376.07	301.07	75.00	5.014		
10,400.00	7,729.50	10,122.65	7,617.64	133.26	124.91	72.75	1,369.96	5,499.28	377.10	296.04	81.06	4.652		
10,427.79	7,730.00	10,140.45	7,617.98	133.18	124.86	72.72	1,352.16	5,499.51	377.09	292.17	84.92	4.441		
10,455.17	7,730.00	10,164.74	7,618.00	133.11	124.79	72.72	1,327.87	5,499.45	377.05	291.17	85.89	4.390		
10,500.00	7,730.00	10,209.58	7,618.00	132.98	124.66	72.72	1,283.04	5,499.30	377.05	291.82	85.24	4.424		
10,600.00	7,730.00	10,309.58	7,618.00	132.72	124.38	72.72	1,183.04	5,498.96	377.05	293.18	83.87	4.495		
10,700.00	7,730.00	10,409.58	7,618.00	132.47	124.11	72.72	1,083.04	5,498.63	377.05	294.42	82.63	4.563		
10,800.00	7,730.00	10,509.58	7,618.00	132.22	123.86	72.72	983.04	5,498.29	377.05	295.54	81.51	4.626		
10,900.00	7,730.00	10,609.58	7,618.00	131.99	123.61	72.72	883.04	5,497.95	377.05	296.53	80.52	4.683		
11,000.00	7,730.00	10,709.58	7,618.00	131.77	123.38	72.72	783.04	5,497.61	377.05	297.39	79.66	4.733		
11,100.00	7,730.00	10,809.58	7,618.00	131.56	123.15	72.72	683.04	5,497.28	377.05	298.11	78.94	4.777		
11,200.00	7,730.00	10,909.58	7,618.00	131.36	122.94	72.72	583.04	5,496.94	377.04	298.69	78.36	4.812		
11,300.00	7,730.00	11,009.58	7,618.00	131.17	122.74	72.72	483.04	5,496.60	377.04	299.13	77.91	4.839		
11,400.00	7,730.00	11,109.58	7,618.00	130.99	122.55	72.72	383.04	5,496.27	377.04	299.41	77.63	4.857		
11,500.00	7,730.00	11,209.58	7,618.00	130.82	122.38	72.72	283.05	5,495.93	377.04	299.55	77.49	4.865		
11,600.00	7,730.00	11,309.58	7,618.00	130.66	122.21	72.72	183.05	5,495.59	377.04	299.54	77.50	4.865		
11,700.00	7,730.00	11,409.58	7,618.00	130.51	122.06	72.72	83.05	5,495.26	377.04	299.37	77.66	4.855		
11,800.00	7,730.00	11,509.58	7,618.00	130.37	121.91	72.72	-16.95	5,494.92	377.04	299.07	77.97	4.836		
11,900.00	7,730.00	11,609.58	7,618.00	130.24	121.78	72.72	-116.95	5,494.58	377.04	298.61	78.43	4.807		
12,000.00	7,730.00	11,709.58	7,618.00	130.13	121.66	72.72	-216.95	5,494.24	377.04	298.01	79.03	4.771		
12,100.00	7,730.00	11,809.58	7,618.00	130.02	121.55	72.72	-316.95	5,493.91	377.03	297.26	79.77	4.726		
12,200.00	7,730.00	11,909.58	7,618.00	129.93	121.46	72.72	-416.95	5,493.57	377.03	296.38	80.65	4.675		
12,300.00	7,730.00	12,009.58	7,618.00	129.85	121.37	72.72	-516.95	5,493.23	377.03	295.37	81.66	4.617		
12,400.00	7,730.00	12,109.58	7,618.00	129.77	121.30	72.72	-616.95	5,492.90	377.03	294.23	82.80	4.554		
12,500.00	7,730.00	12,209.58	7,618.00	129.71	121.24	72.72	-716.95	5,492.56	377.03	292.97	84.06	4.485		
12,600.00	7,730.00	12,309.58	7,618.00	129.66	121.19	72.72	-816.95	5,492.22	377.03	291.59	85.44	4.413		
12,700.00	7,730.00	12,409.58	7,618.00	129.63	121.16	72.72	-916.95	5,491.89	377.03	290.10	86.93	4.337		
12,800.00	7,730.00	12,509.58	7,618.00	129.60	121.13	72.72	-1,016.95	5,491.55	377.03	288.50	88.53	4.259		
12,900.00	7,730.00	12,609.58	7,618.00	129.59	121.13	72.72	-1,116.95	5,491.21	377.03	286.80	90.22	4.179		
13,000.00	7,730.00	12,709.58	7,618.00	129.59	121.13	72.72	-1,216.95	5,490.88	377.02	285.01	92.02	4.097		
13,100.00	7,730.00	12,809.58	7,618.00	129.60	121.15	72.72	-1,316.95	5,490.54	377.02	283.13	93.89	4.015		
13,200.00	7,730.00	12,909.58	7,618.00	129.63	121.18	72.72	-1,416.94	5,490.20	377.02	281.16	95.86	3.933		
13,300.00	7,730.00	13,009.58	7,618.00	129.66	121.23	72.72	-1,516.94	5,489.86	377.02	279.11	97.91	3.851		
13,400.00	7,730.00	13,109.58	7,618.00	129.72	121.30	72.72	-1,616.94	5,489.53	377.02	276.99	100.03	3.769		
13,500.00	7,730.00	13,209.58	7,618.00	129.78	121.38	72.72	-1,716.94	5,489.19	377.02	274.81	102.21	3.689		
13,600.00	7,730.00	13,309.58	7,618.00	129.86	121.47	72.72	-1,816.94	5,488.85	377.02	272.55	104.47	3.609		
13,700.00	7,730.00	13,409.58	7,618.00	129.96	121.58	72.72	-1,916.94	5,488.52	377.02	270.23	106.78	3.531		
13,800.00	7,730.00	13,509.58	7,618.00	130.07	121.71	72.72	-2,016.94	5,488.18	377.02	267.86	109.15	3.454		
13,900.00	7,730.00	13,609.58	7,618.00	130.19	121.86	72.72	-2,116.94	5,487.84	377.01	265.44	111.58	3.379		
14,000.00	7,730.00	13,709.58	7,618.00	130.33	122.02	72.72	-2,216.94	5,487.51	377.01	262.96	114.06	3.306		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	13,809.58	7,618.00	130.49	122.21	72.72	-2,316.94	5,487.17	377.01	260.43	116.58	3.234		
14,200.00	7,730.00	13,909.58	7,618.00	130.67	122.41	72.72	-2,416.94	5,486.83	377.01	257.87	119.14	3.164		
14,300.00	7,730.00	14,009.58	7,618.00	130.86	122.64	72.72	-2,516.94	5,486.50	377.01	255.26	121.75	3.097		
14,400.00	7,730.00	14,109.58	7,618.00	131.07	122.88	72.72	-2,616.94	5,486.16	377.01	252.61	124.40	3.031		
14,500.00	7,730.00	14,209.58	7,618.00	131.30	123.15	72.72	-2,716.94	5,485.82	377.01	249.93	127.08	2.967		
14,600.00	7,730.00	14,309.58	7,618.00	131.55	123.44	72.72	-2,816.94	5,485.48	377.01	247.21	129.80	2.905		
14,700.00	7,730.00	14,409.58	7,618.00	131.82	123.75	72.72	-2,916.94	5,485.15	377.01	244.46	132.54	2.844		
14,800.00	7,730.00	14,509.58	7,618.00	132.11	124.09	72.72	-3,016.94	5,484.81	377.00	241.68	135.32	2.786		
14,900.00	7,730.00	14,609.58	7,618.00	132.42	124.45	72.72	-3,116.94	5,484.47	377.00	238.87	138.13	2.729		
15,000.00	7,730.00	14,709.58	7,618.00	132.75	124.84	72.72	-3,216.93	5,484.14	377.00	236.04	140.96	2.674		
15,100.00	7,730.00	14,809.58	7,618.00	133.10	125.25	72.72	-3,316.93	5,483.80	377.00	233.18	143.82	2.621		
15,200.00	7,730.00	14,909.58	7,618.00	133.48	125.69	72.72	-3,416.93	5,483.46	377.00	230.30	146.70	2.570		
15,300.00	7,730.00	15,009.58	7,618.00	133.88	126.16	72.72	-3,516.93	5,483.13	377.00	227.39	149.61	2.520		
15,400.00	7,730.00	15,109.58	7,618.00	134.31	126.65	72.72	-3,616.93	5,482.79	377.00	224.47	152.53	2.472		
15,500.00	7,730.00	15,209.58	7,618.00	134.76	127.18	72.72	-3,716.93	5,482.45	377.00	221.52	155.47	2.425		
15,600.00	7,730.00	15,309.58	7,618.00	135.23	127.73	72.72	-3,816.93	5,482.12	377.00	218.56	158.44	2.379		
15,700.00	7,730.00	15,409.58	7,618.00	135.73	128.31	72.72	-3,916.93	5,481.78	376.99	215.58	161.42	2.336		
15,800.00	7,730.00	15,509.58	7,618.00	136.26	128.93	72.72	-4,016.93	5,481.44	376.99	212.58	164.41	2.293		
15,900.00	7,730.00	15,609.58	7,618.00	136.81	129.57	72.72	-4,116.93	5,481.10	376.99	209.57	167.42	2.252		
16,000.00	7,730.00	15,709.58	7,618.00	137.39	130.24	72.72	-4,216.93	5,480.77	376.99	206.54	170.45	2.212		
16,100.00	7,730.00	15,809.58	7,618.00	138.00	130.95	72.72	-4,316.93	5,480.43	376.99	203.50	173.49	2.173		
16,200.00	7,730.00	15,909.58	7,618.00	138.63	131.68	72.72	-4,416.93	5,480.09	376.99	200.44	176.55	2.135		
16,300.00	7,730.00	16,009.58	7,618.00	139.30	132.45	72.72	-4,516.93	5,479.76	376.99	197.37	179.61	2.099		
16,400.00	7,730.00	16,109.58	7,618.00	139.99	133.24	72.72	-4,616.93	5,479.42	376.99	194.29	182.69	2.064		
16,500.00	7,730.00	16,209.58	7,618.00	140.70	134.07	72.72	-4,716.93	5,479.08	376.99	191.20	185.78	2.029		
16,600.00	7,730.00	16,309.58	7,618.00	141.45	134.92	72.72	-4,816.93	5,478.75	376.98	188.10	188.88	1.996		
16,700.00	7,730.00	16,409.58	7,618.00	142.22	135.81	72.72	-4,916.93	5,478.41	376.98	184.99	192.00	1.963		
16,800.00	7,730.00	16,509.58	7,618.00	143.03	136.72	72.72	-5,016.92	5,478.07	376.98	181.87	195.12	1.932		
16,900.00	7,730.00	16,609.58	7,618.00	143.86	137.66	72.72	-5,116.92	5,477.73	376.98	178.73	198.25	1.902		
17,000.00	7,730.00	16,709.58	7,618.00	144.71	138.63	72.72	-5,216.92	5,477.40	376.98	175.59	201.39	1.872		
17,100.00	7,730.00	16,809.58	7,618.00	145.60	139.63	72.72	-5,316.92	5,477.06	376.98	172.44	204.54	1.843		
17,200.00	7,730.00	16,909.58	7,618.00	146.51	140.65	72.72	-5,416.92	5,476.72	376.98	169.29	207.69	1.815		
17,300.00	7,730.00	17,009.58	7,618.00	147.44	141.70	72.72	-5,516.92	5,476.39	376.98	166.12	210.86	1.788		
17,400.00	7,730.00	17,109.58	7,618.00	148.40	142.77	72.72	-5,616.92	5,476.05	376.98	162.95	214.03	1.761		
17,500.00	7,730.00	17,209.58	7,618.00	149.39	143.87	72.72	-5,716.92	5,475.71	376.97	159.77	217.21	1.736		
17,600.00	7,730.00	17,309.58	7,618.00	150.40	144.99	72.72	-5,816.92	5,475.38	376.97	156.58	220.39	1.710		
17,700.00	7,730.00	17,409.58	7,618.00	151.44	146.13	72.72	-5,916.92	5,475.04	376.97	153.39	223.58	1.686		
17,800.00	7,730.00	17,509.58	7,618.00	152.50	147.30	72.72	-6,016.92	5,474.70	376.97	150.19	226.78	1.662		
17,900.00	7,730.00	17,609.58	7,618.00	153.58	148.48	72.72	-6,116.92	5,474.37	376.97	146.98	229.99	1.639		
18,000.00	7,730.00	17,709.58	7,618.00	154.68	149.69	72.72	-6,216.92	5,474.03	376.97	143.77	233.20	1.617		
18,100.00	7,730.00	17,809.58	7,618.00	155.80	150.91	72.72	-6,316.92	5,473.69	376.97	140.56	236.41	1.595		
18,200.00	7,730.00	17,909.58	7,618.00	156.95	152.15	72.72	-6,416.92	5,473.35	376.97	137.33	239.63	1.573		
18,300.00	7,730.00	18,009.58	7,618.00	158.11	153.41	72.72	-6,516.92	5,473.02	376.97	134.11	242.86	1.552		
18,400.00	7,730.00	18,109.58	7,618.00	159.30	154.69	72.72	-6,616.92	5,472.68	376.96	130.88	246.09	1.532		
18,500.00	7,730.00	18,209.58	7,618.00	160.50	155.98	72.72	-6,716.92	5,472.34	376.96	127.64	249.33	1.512		
18,600.00	7,730.00	18,309.58	7,618.00	161.72	157.29	72.72	-6,816.91	5,472.01	376.96	124.40	252.56	1.493 Level 3		
18,700.00	7,730.00	18,409.58	7,618.00	162.96	158.61	72.72	-6,916.91	5,471.67	376.96	121.15	255.81	1.474 Level 3		
18,800.00	7,730.00	18,509.58	7,618.00	164.21	159.95	72.72	-7,016.91	5,471.33	376.96	117.90	259.06	1.455 Level 3		
18,900.00	7,730.00	18,609.58	7,618.00	165.48	161.30	72.72	-7,116.91	5,471.00	376.96	114.65	262.31	1.437 Level 3		
19,000.00	7,730.00	18,709.58	7,618.00	166.76	162.67	72.72	-7,216.91	5,470.66	376.96	111.39	265.57	1.419 Level 3		
19,100.00	7,730.00	18,809.58	7,618.00	168.06	164.04	72.72	-7,316.91	5,470.32	376.96	108.13	268.83	1.402 Level 3		
19,200.00	7,730.00	18,909.58	7,618.00	169.38	165.43	72.72	-7,416.91	5,469.99	376.96	104.87	272.09	1.385 Level 3		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	19,009.58	7,618.00	170.70	166.83	72.72	-7,516.91	5,469.65	376.95	101.60	275.36	1.369 Level 3	
19,400.00	7,730.00	19,109.58	7,618.00	172.04	168.24	72.72	-7,616.91	5,469.31	376.95	98.33	278.63	1.353 Level 3	
19,500.00	7,730.00	19,209.58	7,618.00	173.40	169.66	72.72	-7,716.91	5,468.97	376.95	95.05	281.90	1.337 Level 3	
19,600.00	7,730.00	19,309.58	7,618.00	174.76	171.09	72.72	-7,816.91	5,468.64	376.95	91.78	285.18	1.322 Level 3	
19,700.00	7,730.00	19,409.58	7,618.00	176.14	172.53	72.72	-7,916.91	5,468.30	376.95	88.49	288.46	1.307 Level 3	
19,800.00	7,730.00	19,509.58	7,618.00	177.52	173.98	72.72	-8,016.91	5,467.96	376.95	85.21	291.74	1.292 Level 3	
19,900.00	7,730.00	19,609.58	7,618.00	178.92	175.44	72.72	-8,116.91	5,467.63	376.95	81.92	295.02	1.278 Level 3	
20,000.00	7,730.00	19,709.58	7,618.00	180.33	176.90	72.72	-8,216.91	5,467.29	376.95	78.64	298.31	1.264 Level 3	
20,100.00	7,730.00	19,809.58	7,618.00	181.75	178.38	72.72	-8,316.91	5,466.95	376.95	75.34	301.60	1.250 Level 2	
20,184.95	7,730.00	19,894.53	7,618.00	182.96	179.64	72.71	-8,401.86	5,466.67	376.94	72.55	304.40	1.238 Level 2	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.52	1.09	-130.20	130.21					
100.00	100.00	102.00	102.00	0.13	0.14	-89.52	1.09	-130.20	130.21	129.93	0.28	471.720	CC, ES	
200.00	199.98	201.98	201.98	0.49	0.50	-160.22	1.09	-130.20	131.85	130.86	0.99	132.940		
300.00	299.84	301.84	301.84	0.86	0.86	-160.93	1.09	-130.20	136.78	135.07	1.71	79.762		
400.00	399.45	401.45	401.45	1.23	1.22	-162.00	1.09	-130.20	145.05	142.61	2.44	59.437		
500.00	498.70	500.70	500.70	1.63	1.57	-163.31	1.09	-130.20	156.69	153.52	3.17	49.462		
600.00	597.47	600.53	599.47	2.05	1.93	-164.73	1.09	-130.20	171.74	167.84	3.90	44.026		
700.00	695.62	702.38	697.62	2.51	2.29	-166.15	1.09	-130.20	190.23	185.59	4.64	40.956		
800.00	793.06	804.94	795.06	3.00	2.66	-167.51	1.09	-130.20	212.17	206.77	5.40	39.326		
900.00	889.64	908.36	891.64	3.53	3.03	-168.75	1.09	-130.20	237.53	231.38	6.15	38.611		
1,000.00	985.27	987.27	987.27	4.12	3.32	-169.87	1.09	-130.20	266.30	259.48	6.82	39.020		
1,100.00	1,079.82	1,081.82	1,081.82	4.75	3.65	-170.86	1.09	-130.20	298.45	290.89	7.56	39.489		
1,200.00	1,173.17	1,175.17	1,175.17	5.44	3.99	-171.73	1.09	-130.20	333.93	325.64	8.29	40.279		
1,300.00	1,265.21	1,267.21	1,267.21	6.18	4.32	-172.48	1.09	-130.20	372.68	363.66	9.02	41.309		
1,400.00	1,355.84	1,357.84	1,357.84	6.99	4.64	-173.14	1.09	-130.20	414.67	404.92	9.75	42.522		
1,500.00	1,444.94	1,453.70	1,453.70	7.87	4.99	-173.71	1.49	-129.89	459.48	448.97	10.51	43.700		
1,600.00	1,532.39	1,556.18	1,556.11	8.80	5.35	-174.00	4.46	-127.59	505.21	493.89	11.32	44.637		
1,700.00	1,618.11	1,659.92	1,659.56	9.81	5.72	-174.01	10.40	-122.98	551.50	539.36	12.14	45.445		
1,800.00	1,701.97	1,764.91	1,763.92	10.89	6.10	-173.79	19.43	-115.97	598.32	585.35	12.97	46.131		
1,900.00	1,783.88	1,871.14	1,869.02	12.04	6.49	-173.38	31.63	-106.51	645.64	631.82	13.82	46.705		
2,000.00	1,863.74	1,978.62	1,974.69	13.26	6.90	-172.82	47.10	-94.50	693.45	678.74	14.70	47.168		
2,100.00	1,941.45	2,087.32	2,080.75	14.55	7.34	-172.13	65.92	-79.90	741.73	726.12	15.61	47.517		
2,200.00	2,016.92	2,197.26	2,187.00	15.92	7.81	-171.32	88.18	-62.63	790.48	773.92	16.55	47.749		
2,292.11	2,084.36	2,299.59	2,284.88	17.25	8.28	-170.48	111.77	-44.33	835.79	818.33	17.47	47.852		
2,300.00	2,090.06	2,308.41	2,293.27	17.36	8.32	-170.42	113.94	-42.65	839.69	822.14	17.55	47.844		
2,400.00	2,162.18	2,421.97	2,400.43	18.84	8.89	-169.59	143.59	-19.64	887.62	869.02	18.60	47.723		
2,500.00	2,234.31	2,538.62	2,508.87	20.33	9.53	-168.64	177.53	6.69	932.97	913.23	19.73	47.281		
2,600.00	2,306.43	2,658.09	2,618.04	21.83	10.24	-167.57	215.87	36.44	975.67	954.72	20.96	46.552		
2,700.00	2,378.56	2,748.84	2,700.15	23.33	10.81	-166.75	246.41	60.13	1,017.08	994.99	22.09	46.041		
2,800.00	2,450.68	2,838.94	2,781.66	24.84	11.41	-166.00	276.74	83.66	1,058.65	1,035.40	23.25	45.534		
2,900.00	2,522.81	2,929.04	2,863.18	26.36	12.02	-165.31	307.06	107.19	1,100.35	1,075.92	24.44	45.027		
3,000.00	2,594.93	3,019.14	2,944.69	27.88	12.64	-164.67	337.38	130.72	1,142.18	1,116.53	25.65	44.526		
3,100.00	2,667.06	3,109.24	3,026.21	29.40	13.27	-164.07	367.71	154.25	1,184.13	1,157.24	26.89	44.034		
3,200.00	2,739.18	3,200.66	3,107.72	30.92	13.92	-163.52	398.03	177.77	1,226.17	1,198.01	28.16	43.544		
3,300.00	2,811.31	3,289.44	3,189.24	32.45	14.57	-162.99	428.36	201.30	1,268.30	1,238.87	29.43	43.092		
3,400.00	2,883.43	3,379.54	3,270.75	33.98	15.23	-162.51	458.68	224.83	1,310.52	1,279.79	30.73	42.644		
3,500.00	2,955.56	3,469.64	3,352.27	35.51	15.90	-162.05	489.01	248.36	1,352.81	1,320.76	32.05	42.214		
3,600.00	3,027.68	3,559.74	3,433.78	37.04	16.57	-161.62	519.33	271.89	1,395.16	1,361.79	33.38	41.802		
3,700.00	3,099.81	3,649.83	3,515.30	38.57	17.25	-161.22	549.66	295.41	1,437.58	1,402.86	34.72	41.407		
3,800.00	3,171.93	3,739.93	3,596.81	40.11	17.93	-160.83	579.98	318.94	1,480.05	1,443.98	36.07	41.029		
3,900.00	3,244.06	3,830.03	3,678.33	41.64	18.61	-160.47	610.30	342.47	1,522.58	1,485.14	37.44	40.667		
4,000.00	3,316.18	3,920.13	3,759.84	43.18	19.30	-160.13	640.63	366.00	1,565.15	1,526.33	38.82	40.322		
4,100.00	3,388.31	4,010.23	3,841.36	44.71	20.00	-159.81	670.95	389.53	1,607.77	1,567.56	40.20	39.992		
4,200.00	3,460.43	4,100.33	3,922.87	46.25	20.69	-159.50	701.28	413.05	1,650.42	1,608.83	41.60	39.677		
4,300.00	3,532.56	4,209.57	4,004.39	47.79	21.54	-159.21	731.60	436.58	1,693.11	1,649.99	43.12	39.262		
4,400.00	3,604.68	4,280.53	4,085.90	49.33	22.09	-158.93	761.93	460.11	1,735.84	1,691.43	44.41	39.088		
4,500.00	3,676.81	4,370.63	4,167.42	50.87	22.80	-158.67	792.25	483.64	1,778.60	1,732.77	45.83	38.812		
4,600.00	3,748.93	4,460.73	4,248.93	52.41	23.50	-158.42	822.58	507.17	1,821.39	1,774.14	47.25	38.549		
4,700.00	3,821.06	4,550.83	4,330.45	53.95	24.21	-158.18	852.90	530.69	1,864.20	1,815.53	48.68	38.297		
4,800.00	3,893.18	4,640.92	4,411.96	55.49	24.92	-157.95	883.22	554.22	1,907.04	1,856.93	50.11	38.056		
4,900.00	3,965.31	4,731.02	4,493.48	57.03	25.63	-157.73	913.55	577.75	1,949.91	1,898.36	51.55	37.826		
5,000.00	4,037.43	4,821.12	4,574.99	58.58	26.34	-157.52	943.87	601.28	1,992.80	1,939.80	52.99	37.605		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,911.22	4,656.51	60.12	27.06	-157.32	974.20	624.81	2,035.71	1,981.26	54.44	37.393		
5,200.00	4,181.68	5,001.32	4,738.02	61.66	27.77	-157.13	1,004.52	648.33	2,078.63	2,022.74	55.89	37.189		
5,300.00	4,253.81	5,108.58	4,819.54	63.20	28.62	-156.94	1,034.85	671.86	2,121.58	2,064.12	57.47	36.919		
5,400.00	4,325.93	5,181.52	4,901.05	64.75	29.20	-156.76	1,065.17	695.39	2,164.55	2,105.74	58.81	36.807		
5,500.00	4,398.06	5,271.62	4,982.57	66.29	29.92	-156.59	1,095.49	718.92	2,207.53	2,147.26	60.27	36.627		
5,600.00	4,470.18	5,361.72	5,064.08	67.84	30.64	-156.43	1,125.82	742.45	2,250.52	2,188.79	61.74	36.453		
5,700.00	4,542.31	5,451.82	5,145.60	69.38	31.36	-156.27	1,156.14	765.97	2,293.53	2,230.33	63.21	36.287		
5,800.00	4,614.43	5,541.92	5,227.11	70.92	32.08	-156.12	1,186.47	789.50	2,336.56	2,271.88	64.68	36.126		
5,900.00	4,686.56	5,632.01	5,308.63	72.47	32.80	-155.97	1,216.79	813.03	2,379.60	2,313.44	66.15	35.972		
6,000.00	4,758.68	5,722.11	5,390.15	74.01	33.52	-155.83	1,247.12	836.56	2,422.65	2,355.02	67.63	35.823		
6,100.00	4,830.81	5,812.21	5,471.66	75.56	34.24	-155.69	1,277.44	860.09	2,465.71	2,396.60	69.11	35.680		
6,200.00	4,902.93	5,902.31	5,553.18	77.10	34.96	-155.56	1,307.77	883.61	2,508.78	2,438.19	70.59	35.541		
6,300.00	4,975.06	5,992.41	5,634.69	78.65	35.68	-155.43	1,338.09	907.14	2,551.86	2,479.79	72.07	35.408		
6,400.00	5,047.18	6,082.51	5,716.21	80.19	36.41	-155.31	1,368.41	930.67	2,594.96	2,521.40	73.56	35.279		
6,500.00	5,119.31	6,172.61	5,797.72	81.74	37.13	-155.19	1,398.74	954.20	2,638.06	2,563.02	75.04	35.154		
6,600.00	5,191.43	6,262.71	5,879.24	83.28	37.86	-155.07	1,429.06	977.73	2,681.17	2,604.64	76.53	35.033		
6,700.00	5,263.56	6,352.81	5,960.75	84.83	38.58	-154.96	1,459.39	1,001.25	2,724.29	2,646.27	78.02	34.917		
6,800.00	5,335.68	6,442.91	6,042.27	86.37	39.31	-154.85	1,489.71	1,024.78	2,767.42	2,687.91	79.51	34.804		
6,900.00	5,407.81	6,533.01	6,123.78	87.92	40.03	-154.75	1,520.04	1,048.31	2,810.56	2,729.55	81.01	34.695		
7,000.00	5,479.93	6,623.10	6,205.30	89.47	40.76	-154.65	1,550.36	1,071.84	2,853.70	2,771.20	82.50	34.589		
7,100.00	5,552.06	6,713.20	6,286.81	91.01	41.48	-154.55	1,580.69	1,095.37	2,896.85	2,812.85	84.00	34.486		
7,200.00	5,624.18	6,803.30	6,368.33	92.56	42.21	-154.45	1,611.01	1,118.89	2,940.01	2,854.51	85.50	34.387		
7,300.00	5,696.31	6,906.60	6,449.84	94.10	43.05	-154.36	1,641.33	1,142.42	2,983.18	2,896.09	87.09	34.254		
7,400.00	5,768.43	6,983.50	6,531.36	95.65	43.67	-154.27	1,671.66	1,165.95	3,026.35	2,937.85	88.50	34.197		
7,500.00	5,840.56	7,073.60	6,612.87	97.20	44.39	-154.18	1,701.98	1,189.48	3,069.53	2,979.53	90.00	34.106		
7,600.00	5,912.68	7,163.70	6,694.39	98.74	45.12	-154.09	1,732.31	1,213.01	3,112.71	3,021.21	91.50	34.018		
7,700.00	5,984.81	7,253.80	6,775.90	100.29	45.85	-154.01	1,762.63	1,236.53	3,155.90	3,062.89	93.01	33.933		
7,800.00	6,056.93	7,343.90	6,857.42	101.84	46.58	-153.93	1,792.96	1,260.06	3,199.09	3,104.58	94.51	33.849		
7,900.00	6,129.06	7,475.28	6,978.29	103.38	47.56	-153.96	1,830.18	1,294.92	3,241.97	3,145.61	96.35	33.646		
8,000.00	6,201.18	7,631.32	7,127.62	104.93	48.31	-154.69	1,837.55	1,337.86	3,283.12	3,185.95	97.16	33.789		
8,100.00	6,273.31	7,761.95	7,250.36	106.48	48.55	-155.85	1,811.31	1,373.03	3,323.08	3,226.33	96.76	34.344		
8,200.00	6,345.43	7,862.96	7,339.52	108.02	48.52	-157.04	1,771.57	1,398.53	3,362.93	3,267.04	95.89	35.070		
8,300.00	6,417.56	7,939.00	7,401.45	109.57	48.40	-158.08	1,731.25	1,416.19	3,403.53	3,308.54	94.99	35.829		
8,400.00	6,489.68	7,996.43	7,444.52	111.12	48.25	-158.94	1,695.33	1,428.45	3,445.45	3,351.25	94.20	36.574		
8,500.00	6,561.81	8,040.52	7,475.13	112.66	48.10	-159.63	1,664.82	1,437.14	3,489.01	3,395.47	93.54	37.300		
8,600.00	6,633.93	8,075.06	7,497.47	114.21	47.97	-160.19	1,639.27	1,443.48	3,534.37	3,441.39	92.98	38.014		
8,700.00	6,706.06	8,100.00	7,512.67	115.76	47.87	-160.60	1,619.97	1,447.78	3,581.61	3,489.06	92.54	38.702		
8,800.00	6,778.18	8,125.12	7,527.14	117.30	47.76	-161.02	1,599.86	1,451.87	3,630.74	3,538.69	92.05	39.442		
8,900.00	6,850.31	8,150.00	7,540.64	118.85	47.65	-161.45	1,579.30	1,455.68	3,681.77	3,590.25	91.52	40.228		
9,000.00	6,922.43	8,159.30	7,545.46	120.40	47.60	-161.61	1,571.46	1,457.04	3,734.63	3,643.36	91.27	40.917		
9,100.00	6,994.56	8,172.57	7,552.12	121.95	47.54	-161.84	1,560.15	1,458.91	3,789.30	3,698.39	90.90	41.684		
9,200.00	7,066.68	8,183.97	7,557.65	123.49	47.48	-162.04	1,550.29	1,460.47	3,845.71	3,755.17	90.54	42.473		
9,300.00	7,138.81	8,200.00	7,565.09	125.04	47.40	-162.32	1,536.25	1,462.56	3,903.82	3,813.76	90.06	43.346		
9,392.50	7,205.52	8,200.00	7,565.09	126.47	47.40	-162.32	1,536.25	1,462.56	3,958.99	3,869.10	89.90	44.039		
9,400.00	7,210.94	8,200.00	7,565.09	126.59	47.40	-163.65	1,536.25	1,462.56	3,963.53	3,873.65	89.88	44.096		
9,450.00	7,247.42	8,200.00	7,565.09	127.35	47.40	-172.73	1,536.25	1,462.56	3,994.06	3,904.25	89.81	44.474		
9,500.00	7,284.35	8,213.85	7,571.22	128.10	47.33	177.69	1,523.95	1,464.28	4,024.83	3,935.36	89.47	44.984		
9,550.00	7,321.43	8,221.27	7,574.38	128.83	47.29	168.16	1,517.30	1,465.17	4,055.66	3,966.37	89.29	45.419		
9,600.00	7,358.38	8,229.72	7,577.88	129.52	47.25	158.79	1,509.67	1,466.15	4,086.27	3,997.15	89.12	45.852		
9,650.00	7,394.93	8,250.00	7,585.85	130.16	47.14	149.62	1,491.16	1,468.37	4,116.46	4,027.74	88.72	46.399		
9,700.00	7,430.79	8,250.00	7,585.85	130.76	47.14	141.22	1,491.16	1,468.37	4,145.86	4,057.09	88.77	46.706		
9,750.00	7,465.70	8,250.00	7,585.85	131.30	47.14	133.44	1,491.16	1,468.37	4,174.41	4,085.57	88.84	46.988		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,271.81	7,593.70	131.78	47.02	126.14	1,470.93	1,470.56	4,201.74	4,113.26	88.48	47.488		
9,850.00	7,531.58	8,284.01	7,597.77	132.21	46.95	119.67	1,459.49	1,471.69	4,227.76	4,139.40	88.35	47.851		
9,900.00	7,562.06	8,300.00	7,602.75	132.57	46.86	113.90	1,444.35	1,473.07	4,252.24	4,164.07	88.17	48.227		
9,950.00	7,590.58	8,300.00	7,602.75	132.87	46.86	108.92	1,444.35	1,473.07	4,275.03	4,186.65	88.37	48.375		
10,000.00	7,616.93	8,323.52	7,609.33	133.11	46.73	104.48	1,421.85	1,474.88	4,295.87	4,207.77	88.09	48.764		
10,050.00	7,640.90	8,350.00	7,615.67	133.29	46.58	100.66	1,396.20	1,476.62	4,314.78	4,226.99	87.78	49.153		
10,100.00	7,662.32	8,350.00	7,615.67	133.42	46.58	97.53	1,396.20	1,476.62	4,331.41	4,243.30	88.11	49.160		
10,150.00	7,681.01	8,366.28	7,619.00	133.50	46.48	94.88	1,380.28	1,477.52	4,345.83	4,257.72	88.11	49.323		
10,200.00	7,696.85	8,381.04	7,621.64	133.52	46.39	92.73	1,365.79	1,478.23	4,357.88	4,269.69	88.19	49.413		
10,250.00	7,709.70	8,400.00	7,624.51	133.51	46.28	91.05	1,347.06	1,478.99	4,367.49	4,279.27	88.22	49.506		
10,300.00	7,719.47	8,400.00	7,624.51	133.46	46.28	89.84	1,347.06	1,478.99	4,374.61	4,285.86	88.75	49.291		
10,350.00	7,726.09	8,426.16	7,627.48	133.37	46.12	89.05	1,321.08	1,479.76	4,379.09	4,290.39	88.71	49.366		
10,400.00	7,729.50	8,450.00	7,629.19	133.26	45.98	88.68	1,297.31	1,480.17	4,381.06	4,292.30	88.76	49.359		
10,427.79	7,730.00	8,450.00	7,629.19	133.18	45.98	88.66	1,297.31	1,480.17	4,380.98	4,291.84	89.13	49.151		
10,500.00	7,730.00	8,481.00	7,630.00	132.98	45.79	88.67	1,266.32	1,480.30	4,380.25	4,290.88	89.37	49.015		
10,532.22	7,730.00	8,482.89	7,630.00	132.90	45.78	88.67	1,264.43	1,480.29	4,380.14	4,290.37	89.78	48.789		
10,600.00	7,730.00	8,550.67	7,630.00	132.72	45.39	88.67	1,196.66	1,480.06	4,380.14	4,291.07	89.07	49.177		
10,700.00	7,730.00	8,650.67	7,630.00	132.47	44.83	88.67	1,096.66	1,479.72	4,380.14	4,292.01	88.13	49.700		
10,800.00	7,730.00	8,750.67	7,630.00	132.22	44.30	88.67	996.66	1,479.39	4,380.14	4,292.82	87.33	50.156		
10,900.00	7,730.00	8,850.67	7,630.00	131.99	43.81	88.67	896.66	1,479.05	4,380.15	4,293.48	86.67	50.539		
11,000.00	7,730.00	8,950.67	7,630.00	131.77	43.34	88.67	796.66	1,478.71	4,380.15	4,294.00	86.15	50.843		
11,100.00	7,730.00	9,050.67	7,630.00	131.56	42.91	88.67	696.66	1,478.37	4,380.15	4,294.37	85.78	51.064		
11,200.00	7,730.00	9,150.67	7,630.00	131.36	42.50	88.67	596.66	1,478.03	4,380.15	4,294.59	85.55	51.198		
11,300.00	7,730.00	9,250.67	7,630.00	131.17	42.12	88.67	496.66	1,477.69	4,380.15	4,294.67	85.48	51.243		
11,400.00	7,730.00	9,350.67	7,630.00	130.99	41.76	88.67	396.66	1,477.35	4,380.15	4,294.60	85.55	51.198		
11,500.00	7,730.00	9,450.67	7,630.00	130.82	41.42	88.67	296.66	1,477.01	4,380.15	4,294.37	85.77	51.066		
11,600.00	7,730.00	9,550.67	7,630.00	130.66	41.11	88.67	196.66	1,476.68	4,380.15	4,294.01	86.14	50.847		
11,700.00	7,730.00	9,650.67	7,630.00	130.51	40.81	88.67	96.66	1,476.34	4,380.15	4,293.49	86.66	50.545		
11,800.00	7,730.00	9,750.67	7,630.00	130.37	40.54	88.67	-3.34	1,476.00	4,380.15	4,292.84	87.31	50.166		
11,900.00	7,730.00	9,850.67	7,630.00	130.24	40.28	88.67	-103.34	1,475.66	4,380.15	4,292.04	88.11	49.713		
12,000.00	7,730.00	9,950.67	7,630.00	130.13	40.05	88.67	-203.34	1,475.32	4,380.15	4,291.11	89.04	49.195		
12,100.00	7,730.00	10,050.67	7,630.00	130.02	39.83	88.67	-303.34	1,474.98	4,380.15	4,290.06	90.09	48.618		
12,200.00	7,730.00	10,150.67	7,630.00	129.93	40.45	88.67	-403.34	1,474.64	4,380.15	4,288.87	91.28	47.987		
12,300.00	7,730.00	10,250.67	7,630.00	129.85	41.44	88.67	-503.33	1,474.31	4,380.15	4,287.57	92.58	47.312		
12,400.00	7,730.00	10,350.67	7,630.00	129.77	42.46	88.67	-603.33	1,473.97	4,380.15	4,286.16	94.00	46.599		
12,500.00	7,730.00	10,450.67	7,630.00	129.71	43.52	88.67	-703.33	1,473.63	4,380.15	4,284.63	95.52	45.854		
12,600.00	7,730.00	10,550.67	7,630.00	129.66	44.62	88.67	-803.33	1,473.29	4,380.15	4,283.00	97.15	45.085		
12,700.00	7,730.00	10,650.67	7,630.00	129.63	45.75	88.67	-903.33	1,472.95	4,380.15	4,281.27	98.88	44.297		
12,800.00	7,730.00	10,750.67	7,630.00	129.60	46.91	88.67	-1,003.33	1,472.61	4,380.16	4,279.45	100.70	43.496		
12,900.00	7,730.00	10,850.67	7,630.00	129.59	48.11	88.67	-1,103.33	1,472.27	4,380.16	4,277.54	102.61	42.686		
13,000.00	7,730.00	10,950.67	7,630.00	129.59	49.33	88.67	-1,203.33	1,471.94	4,380.16	4,275.55	104.61	41.872		
13,100.00	7,730.00	11,050.67	7,630.00	129.60	50.57	88.67	-1,303.33	1,471.60	4,380.16	4,273.48	106.68	41.059		
13,200.00	7,730.00	11,150.67	7,630.00	129.63	51.85	88.67	-1,403.33	1,471.26	4,380.16	4,271.33	108.83	40.249		
13,300.00	7,730.00	11,250.67	7,630.00	129.66	53.14	88.67	-1,503.33	1,470.92	4,380.16	4,269.11	111.04	39.446		
13,400.00	7,730.00	11,350.67	7,630.00	129.72	54.46	88.67	-1,603.33	1,470.58	4,380.16	4,266.83	113.33	38.651		
13,500.00	7,730.00	11,450.67	7,630.00	129.78	55.80	88.67	-1,703.33	1,470.24	4,380.16	4,264.49	115.67	37.868		
13,600.00	7,730.00	11,550.67	7,630.00	129.86	57.16	88.67	-1,803.33	1,469.90	4,380.16	4,262.09	118.07	37.097		
13,700.00	7,730.00	11,650.67	7,630.00	129.96	58.54	88.67	-1,903.33	1,469.57	4,380.16	4,259.63	120.53	36.341		
13,800.00	7,730.00	11,750.67	7,630.00	130.07	59.93	88.67	-2,003.33	1,469.23	4,380.16	4,257.12	123.04	35.600		
13,900.00	7,730.00	11,850.67	7,630.00	130.19	61.34	88.67	-2,103.33	1,468.89	4,380.16	4,254.57	125.60	34.875		
14,000.00	7,730.00	11,950.67	7,630.00	130.33	62.77	88.67	-2,203.33	1,468.55	4,380.16	4,251.96	128.20	34.167		
14,100.00	7,730.00	12,050.67	7,630.00	130.49	64.21	88.67	-2,303.32	1,468.21	4,380.16	4,249.32	130.84	33.476		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	12,150.67	7,630.00	130.67	65.67	88.67	-2,403.32	1,467.87	4,380.16	4,246.63	133.53	32.803		
14,300.00	7,730.00	12,250.67	7,630.00	130.86	67.14	88.67	-2,503.32	1,467.53	4,380.16	4,243.91	136.26	32.147		
14,400.00	7,730.00	12,350.67	7,630.00	131.07	68.62	88.67	-2,603.32	1,467.19	4,380.16	4,241.15	139.02	31.508		
14,500.00	7,730.00	12,450.67	7,630.00	131.30	70.11	88.67	-2,703.32	1,466.86	4,380.16	4,238.35	141.81	30.887		
14,600.00	7,730.00	12,550.67	7,630.00	131.55	71.62	88.67	-2,803.32	1,466.52	4,380.16	4,235.53	144.64	30.284		
14,700.00	7,730.00	12,650.67	7,630.00	131.82	73.13	88.67	-2,903.32	1,466.18	4,380.16	4,232.67	147.49	29.697		
14,800.00	7,730.00	12,750.67	7,630.00	132.11	74.65	88.67	-3,003.32	1,465.84	4,380.17	4,229.79	150.38	29.128		
14,900.00	7,730.00	12,850.67	7,630.00	132.42	76.19	88.67	-3,103.32	1,465.50	4,380.17	4,226.88	153.29	28.574		
15,000.00	7,730.00	12,950.67	7,630.00	132.75	77.73	88.67	-3,203.32	1,465.16	4,380.17	4,223.94	156.23	28.037		
15,100.00	7,730.00	13,050.67	7,630.00	133.10	79.28	88.67	-3,303.32	1,464.82	4,380.17	4,220.98	159.19	27.516		
15,200.00	7,730.00	13,150.67	7,630.00	133.48	80.84	88.67	-3,403.32	1,464.49	4,380.17	4,218.00	162.17	27.010		
15,300.00	7,730.00	13,250.67	7,630.00	133.88	82.41	88.67	-3,503.32	1,464.15	4,380.17	4,214.99	165.18	26.518		
15,400.00	7,730.00	13,350.67	7,630.00	134.31	83.98	88.67	-3,603.32	1,463.81	4,380.17	4,211.97	168.20	26.041		
15,500.00	7,730.00	13,450.67	7,630.00	134.76	85.56	88.67	-3,703.32	1,463.47	4,380.17	4,208.92	171.25	25.578		
15,600.00	7,730.00	13,550.67	7,630.00	135.23	87.15	88.67	-3,803.32	1,463.13	4,380.17	4,205.86	174.31	25.129		
15,700.00	7,730.00	13,650.67	7,630.00	135.73	88.74	88.67	-3,903.32	1,462.79	4,380.17	4,202.78	177.39	24.692		
15,800.00	7,730.00	13,750.67	7,630.00	136.26	90.34	88.67	-4,003.32	1,462.45	4,380.17	4,199.68	180.49	24.269		
15,900.00	7,730.00	13,850.67	7,630.00	136.81	91.95	88.67	-4,103.31	1,462.12	4,380.17	4,196.57	183.60	23.857		
16,000.00	7,730.00	13,950.67	7,630.00	137.39	93.56	88.67	-4,203.31	1,461.78	4,380.17	4,193.45	186.73	23.458		
16,100.00	7,730.00	14,050.67	7,630.00	138.00	95.17	88.67	-4,303.31	1,461.44	4,380.17	4,190.30	189.87	23.070		
16,200.00	7,730.00	14,150.67	7,630.00	138.63	96.79	88.67	-4,403.31	1,461.10	4,380.17	4,187.15	193.02	22.693		
16,300.00	7,730.00	14,250.67	7,630.00	139.30	98.42	88.67	-4,503.31	1,460.76	4,380.17	4,183.98	196.19	22.326		
16,400.00	7,730.00	14,350.67	7,630.00	139.99	100.05	88.67	-4,603.31	1,460.42	4,380.17	4,180.80	199.37	21.970		
16,500.00	7,730.00	14,450.67	7,630.00	140.70	101.68	88.67	-4,703.31	1,460.08	4,380.17	4,177.61	202.56	21.624		
16,600.00	7,730.00	14,550.67	7,630.00	141.45	103.32	88.67	-4,803.31	1,459.75	4,380.17	4,174.41	205.76	21.287		
16,700.00	7,730.00	14,650.67	7,630.00	142.22	104.96	88.67	-4,903.31	1,459.41	4,380.18	4,171.20	208.98	20.960		
16,800.00	7,730.00	14,750.67	7,630.00	143.03	106.61	88.67	-5,003.31	1,459.07	4,380.18	4,167.98	212.20	20.642		
16,900.00	7,730.00	14,850.67	7,630.00	143.86	108.26	88.67	-5,103.31	1,458.73	4,380.18	4,164.74	215.43	20.332		
17,000.00	7,730.00	14,950.67	7,630.00	144.71	109.91	88.67	-5,203.31	1,458.39	4,380.18	4,161.50	218.68	20.030		
17,100.00	7,730.00	15,050.67	7,630.00	145.60	111.56	88.67	-5,303.31	1,458.05	4,380.18	4,158.25	221.93	19.737		
17,200.00	7,730.00	15,150.67	7,630.00	146.51	113.22	88.67	-5,403.31	1,457.71	4,380.18	4,154.99	225.19	19.451		
17,300.00	7,730.00	15,250.67	7,630.00	147.44	114.88	88.67	-5,503.31	1,457.37	4,380.18	4,151.72	228.45	19.173		
17,400.00	7,730.00	15,350.67	7,630.00	148.40	116.55	88.67	-5,603.31	1,457.04	4,380.18	4,148.45	231.73	18.902		
17,500.00	7,730.00	15,450.67	7,630.00	149.39	118.22	88.67	-5,703.31	1,456.70	4,380.18	4,145.17	235.01	18.638		
17,600.00	7,730.00	15,550.67	7,630.00	150.40	119.89	88.67	-5,803.30	1,456.36	4,380.18	4,141.88	238.30	18.381		
17,700.00	7,730.00	15,650.67	7,630.00	151.44	121.56	88.67	-5,903.30	1,456.02	4,380.18	4,138.58	241.60	18.130		
17,800.00	7,730.00	15,750.67	7,630.00	152.50	123.23	88.67	-6,003.30	1,455.68	4,380.18	4,135.28	244.90	17.885		
17,900.00	7,730.00	15,850.67	7,630.00	153.58	124.91	88.67	-6,103.30	1,455.34	4,380.18	4,131.97	248.21	17.647		
18,000.00	7,730.00	15,950.67	7,630.00	154.68	126.59	88.67	-6,203.30	1,455.00	4,380.18	4,128.65	251.53	17.414		
18,100.00	7,730.00	16,050.67	7,630.00	155.80	128.27	88.67	-6,303.30	1,454.67	4,380.18	4,125.33	254.85	17.187		
18,200.00	7,730.00	16,150.67	7,630.00	156.95	129.96	88.67	-6,403.30	1,454.33	4,380.18	4,122.01	258.18	16.966		
18,300.00	7,730.00	16,250.67	7,630.00	158.11	131.64	88.67	-6,503.30	1,453.99	4,380.18	4,118.67	261.51	16.750		
18,400.00	7,730.00	16,350.67	7,630.00	159.30	133.33	88.67	-6,603.30	1,453.65	4,380.18	4,115.34	264.85	16.538		
18,500.00	7,730.00	16,450.67	7,630.00	160.50	135.02	88.67	-6,703.30	1,453.31	4,380.18	4,111.99	268.19	16.332		
18,600.00	7,730.00	16,550.67	7,630.00	161.72	136.71	88.67	-6,803.30	1,452.97	4,380.18	4,108.65	271.54	16.131		
18,700.00	7,730.00	16,650.67	7,630.00	162.96	138.41	88.67	-6,903.30	1,452.63	4,380.19	4,105.29	274.89	15.934		
18,800.00	7,730.00	16,750.67	7,630.00	164.21	140.10	88.67	-7,003.30	1,452.30	4,380.19	4,101.94	278.25	15.742		
18,900.00	7,730.00	16,850.67	7,630.00	165.48	141.80	88.67	-7,103.30	1,451.96	4,380.19	4,098.58	281.61	15.554		
19,000.00	7,730.00	16,950.67	7,630.00	166.76	143.50	88.67	-7,203.30	1,451.62	4,380.19	4,095.21	284.97	15.370		
19,100.00	7,730.00	17,050.67	7,630.00	168.06	145.20	88.67	-7,303.30	1,451.28	4,380.19	4,091.84	288.34	15.191		
19,200.00	7,730.00	17,150.67	7,630.00	169.38	146.90	88.67	-7,403.30	1,450.94	4,380.19	4,088.47	291.72	15.015		
19,300.00	7,730.00	17,250.67	7,630.00	170.70	148.60	88.67	-7,503.30	1,450.60	4,380.19	4,085.09	295.09	14.843		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	17,350.67	7,630.00	172.04	150.31	88.67	-7,603.29	1,450.26	4,380.19	4,081.71	298.47	14.675	
19,500.00	7,730.00	17,450.67	7,630.00	173.40	152.01	88.67	-7,703.29	1,449.93	4,380.19	4,078.33	301.86	14.511	
19,600.00	7,730.00	17,550.67	7,630.00	174.76	153.72	88.67	-7,803.29	1,449.59	4,380.19	4,074.94	305.25	14.350	
19,700.00	7,730.00	17,650.67	7,630.00	176.14	155.43	88.67	-7,903.29	1,449.25	4,380.19	4,071.55	308.64	14.192	
19,800.00	7,730.00	17,750.67	7,630.00	177.52	157.14	88.67	-8,003.29	1,448.91	4,380.19	4,068.16	312.03	14.038	
19,900.00	7,730.00	17,850.67	7,630.00	178.92	158.85	88.67	-8,103.29	1,448.57	4,380.19	4,064.76	315.43	13.887	
20,000.00	7,730.00	17,950.67	7,630.00	180.33	160.56	88.67	-8,203.29	1,448.23	4,380.19	4,061.36	318.83	13.738	
20,100.00	7,730.00	18,050.67	7,630.00	181.75	162.28	88.67	-8,303.29	1,447.89	4,380.19	4,057.96	322.23	13.593	
20,184.95	7,730.00	18,135.62	7,630.00	182.96	163.73	88.67	-8,388.24	1,447.61	4,380.19	4,055.07	325.12	13.472 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,236.00	7,569.74	0.00	158.98	47.84	1,788.54	1,975.36	8,167.66					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	47.84	1,788.54	1,975.36	8,073.20	7,994.24	78.96	102.239		
200.00	199.98	16,236.00	7,569.74	0.49	158.98	-25.03	1,788.54	1,975.36	7,978.36	7,899.24	79.12	100.838		
300.00	299.84	16,236.00	7,569.74	0.86	158.98	-27.97	1,788.54	1,975.36	7,882.67	7,803.39	79.28	99.429		
400.00	399.45	16,236.00	7,569.74	1.23	158.98	-31.60	1,788.54	1,975.36	7,786.22	7,706.79	79.42	98.033		
500.00	498.70	16,236.00	7,569.74	1.63	158.98	-36.13	1,788.54	1,975.36	7,689.11	7,609.55	79.55	96.653		
600.00	597.47	16,236.00	7,569.74	2.05	158.98	-41.88	1,788.54	1,975.36	7,591.42	7,511.76	79.66	95.294		
700.00	695.62	16,236.00	7,569.74	2.51	158.98	-49.20	1,788.54	1,975.36	7,493.27	7,413.52	79.75	93.956		
800.00	793.06	16,236.00	7,569.74	3.00	158.98	-58.48	1,788.54	1,975.36	7,394.75	7,314.93	79.82	92.642		
900.00	889.64	16,236.00	7,569.74	3.53	158.98	-69.90	1,788.54	1,975.36	7,295.97	7,216.10	79.86	91.354		
1,000.00	985.27	16,236.00	7,569.74	4.12	158.98	-83.06	1,788.54	1,975.36	7,197.04	7,117.15	79.88	90.094		
1,100.00	1,079.82	16,236.00	7,569.74	4.75	158.98	-96.80	1,788.54	1,975.36	7,098.07	7,018.20	79.88	88.861		
1,200.00	1,173.17	16,236.00	7,569.74	5.44	158.98	-109.63	1,788.54	1,975.36	6,999.20	6,919.35	79.85	87.657		
1,300.00	1,265.21	16,236.00	7,569.74	6.18	158.98	-120.55	1,788.54	1,975.36	6,900.55	6,820.75	79.79	86.481		
1,400.00	1,355.84	16,236.00	7,569.74	6.99	158.98	-129.34	1,788.54	1,975.36	6,802.24	6,722.53	79.71	85.333		
1,500.00	1,444.94	16,236.00	7,569.74	7.87	158.98	-136.25	1,788.54	1,975.36	6,704.42	6,624.81	79.61	84.211		
1,600.00	1,532.39	16,236.00	7,569.74	8.80	158.98	-141.68	1,788.54	1,975.36	6,607.24	6,527.74	79.50	83.114		
1,700.00	1,618.11	16,236.00	7,569.74	9.81	158.98	-145.96	1,788.54	1,975.36	6,510.83	6,431.47	79.36	82.039		
1,800.00	1,701.97	16,236.00	7,569.74	10.89	158.98	-149.40	1,788.54	1,975.36	6,415.36	6,336.14	79.22	80.984		
1,900.00	1,783.88	16,236.00	7,569.74	12.04	158.98	-152.19	1,788.54	1,975.36	6,320.98	6,241.91	79.07	79.944		
2,000.00	1,863.74	16,236.00	7,569.74	13.26	158.98	-154.48	1,788.54	1,975.36	6,227.87	6,148.95	78.92	78.917		
2,100.00	1,941.45	16,236.00	7,569.74	14.55	158.98	-156.39	1,788.54	1,975.36	6,136.19	6,057.42	78.77	77.899		
2,200.00	2,016.92	16,236.00	7,569.74	15.92	158.98	-158.00	1,788.54	1,975.36	6,046.14	5,967.50	78.64	76.886		
2,292.11	2,084.36	16,236.00	7,569.74	17.25	158.98	-159.26	1,788.54	1,975.36	5,964.78	5,886.25	78.53	75.956		
2,300.00	2,090.06	16,236.00	7,569.74	17.36	158.98	-159.26	1,788.54	1,975.36	5,957.88	5,879.36	78.52	75.881		
2,400.00	2,162.18	16,236.00	7,569.74	18.84	158.98	-159.26	1,788.54	1,975.36	5,870.66	5,792.22	78.44	74.839		
2,500.00	2,234.31	16,236.00	7,569.74	20.33	158.98	-159.26	1,788.54	1,975.36	5,783.86	5,705.46	78.40	73.773		
2,600.00	2,306.43	16,236.00	7,569.74	21.83	158.98	-159.26	1,788.54	1,975.36	5,697.49	5,619.10	78.39	72.682		
2,700.00	2,378.56	16,236.00	7,569.74	23.33	158.98	-159.26	1,788.54	1,975.36	5,611.58	5,533.17	78.41	71.570		
2,800.00	2,450.68	16,236.00	7,569.74	24.84	158.98	-159.26	1,788.54	1,975.36	5,526.14	5,447.68	78.45	70.438		
2,900.00	2,522.81	16,236.00	7,569.74	26.36	158.98	-159.26	1,788.54	1,975.36	5,441.19	5,362.66	78.53	69.285		
3,000.00	2,594.93	16,236.00	7,569.74	27.88	158.98	-159.26	1,788.54	1,975.36	5,356.76	5,278.12	78.65	68.112		
3,100.00	2,667.06	16,236.00	7,569.74	29.40	158.98	-159.26	1,788.54	1,975.36	5,272.88	5,194.09	78.80	66.919		
3,200.00	2,739.18	16,236.00	7,569.74	30.92	158.98	-159.26	1,788.54	1,975.36	5,189.57	5,110.59	78.98	65.706		
3,300.00	2,811.31	16,236.00	7,569.74	32.45	158.98	-159.26	1,788.54	1,975.36	5,106.86	5,027.65	79.21	64.473		
3,400.00	2,883.43	16,236.00	7,569.74	33.98	158.98	-159.26	1,788.54	1,975.36	5,024.78	4,945.30	79.48	63.220		
3,500.00	2,955.56	16,236.00	7,569.74	35.51	158.98	-159.26	1,788.54	1,975.36	4,943.36	4,863.56	79.80	61.947		
3,600.00	3,027.68	16,236.00	7,569.74	37.04	158.98	-159.26	1,788.54	1,975.36	4,862.63	4,782.46	80.17	60.652		
3,700.00	3,099.81	16,236.00	7,569.74	38.57	158.98	-159.26	1,788.54	1,975.36	4,782.63	4,702.03	80.60	59.337		
3,800.00	3,171.93	16,236.00	7,569.74	40.11	158.98	-159.26	1,788.54	1,975.36	4,703.40	4,622.30	81.09	58.000		
3,900.00	3,244.06	16,236.00	7,569.74	41.64	158.98	-159.26	1,788.54	1,975.36	4,624.97	4,543.31	81.65	56.643		
4,000.00	3,316.18	16,236.00	7,569.74	43.18	158.98	-159.26	1,788.54	1,975.36	4,547.38	4,465.10	82.28	55.265		
4,100.00	3,388.31	16,236.00	7,569.74	44.71	158.98	-159.26	1,788.54	1,975.36	4,470.69	4,387.69	83.00	53.866		
4,200.00	3,460.43	16,236.00	7,569.74	46.25	158.98	-159.26	1,788.54	1,975.36	4,394.93	4,311.14	83.79	52.449		
4,300.00	3,532.56	16,236.00	7,569.74	47.79	158.98	-159.26	1,788.54	1,975.36	4,320.16	4,235.48	84.69	51.013		
4,400.00	3,604.68	16,236.00	7,569.74	49.33	158.98	-159.26	1,788.54	1,975.36	4,246.43	4,160.75	85.68	49.562		
4,500.00	3,676.81	16,236.00	7,569.74	50.87	158.98	-159.26	1,788.54	1,975.36	4,173.79	4,087.01	86.78	48.096		
4,600.00	3,748.93	16,236.00	7,569.74	52.41	158.98	-159.26	1,788.54	1,975.36	4,102.31	4,014.31	88.00	46.619		
4,700.00	3,821.06	16,236.00	7,569.74	53.95	158.98	-159.26	1,788.54	1,975.36	4,032.04	3,942.70	89.34	45.133		
4,800.00	3,893.18	16,236.00	7,569.74	55.49	158.98	-159.26	1,788.54	1,975.36	3,963.04	3,872.23	90.81	43.643		
4,900.00	3,965.31	16,236.00	7,569.74	57.03	158.98	-159.26	1,788.54	1,975.36	3,895.39	3,802.98	92.41	42.152		
5,000.00	4,037.43	16,236.00	7,569.74	58.58	158.98	-159.26	1,788.54	1,975.36	3,829.16	3,734.99	94.16	40.665		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	16,236.00	7,569.74	60.12	158.98	-159.26	1,788.54	1,975.36	3,764.41	3,668.35	96.07	39.186		
5,200.00	4,181.68	16,236.00	7,569.74	61.66	158.98	-159.26	1,788.54	1,975.36	3,701.24	3,603.12	98.12	37.720		
5,300.00	4,253.81	16,236.00	7,569.74	63.20	158.98	-159.26	1,788.54	1,975.36	3,639.72	3,539.38	100.34	36.274		
5,400.00	4,325.93	16,236.00	7,569.74	64.75	158.98	-159.26	1,788.54	1,975.36	3,579.94	3,477.22	102.72	34.851		
5,500.00	4,398.06	16,236.00	7,569.74	66.29	158.98	-159.26	1,788.54	1,975.36	3,521.98	3,416.71	105.26	33.458		
5,600.00	4,470.18	16,236.00	7,569.74	67.84	158.98	-159.26	1,788.54	1,975.36	3,465.93	3,357.96	107.97	32.100		
5,700.00	4,542.31	16,236.00	7,569.74	69.38	158.98	-159.26	1,788.54	1,975.36	3,411.90	3,301.05	110.85	30.780		
5,800.00	4,614.43	16,236.00	7,569.74	70.92	158.98	-159.26	1,788.54	1,975.36	3,359.98	3,246.09	113.88	29.504		
5,900.00	4,686.56	16,236.00	7,569.74	72.47	158.98	-159.26	1,788.54	1,975.36	3,310.26	3,193.19	117.07	28.275		
6,000.00	4,758.68	16,236.00	7,569.74	74.01	158.98	-159.26	1,788.54	1,975.36	3,262.85	3,142.44	120.41	27.097		
6,100.00	4,830.81	16,236.00	7,569.74	75.56	158.98	-159.26	1,788.54	1,975.36	3,217.85	3,093.96	123.89	25.973		
6,200.00	4,902.93	16,236.00	7,569.74	77.10	158.98	-159.26	1,788.54	1,975.36	3,175.37	3,047.86	127.50	24.904		
6,300.00	4,975.06	16,236.00	7,569.74	78.65	158.98	-159.26	1,788.54	1,975.36	3,135.49	3,004.26	131.23	23.893		
6,400.00	5,047.18	16,236.00	7,569.74	80.19	158.98	-159.26	1,788.54	1,975.36	3,098.34	2,963.28	135.06	22.941		
6,500.00	5,119.31	16,236.00	7,569.74	81.74	158.98	-159.26	1,788.54	1,975.36	3,064.00	2,925.02	138.97	22.047		
6,600.00	5,191.43	16,236.00	7,569.74	83.28	158.98	-159.26	1,788.54	1,975.36	3,032.57	2,889.61	142.96	21.213		
6,700.00	5,263.56	16,236.00	7,569.74	84.83	158.98	-159.26	1,788.54	1,975.36	3,004.14	2,857.15	146.99	20.438		
6,800.00	5,335.68	16,236.00	7,569.74	86.37	158.98	-159.26	1,788.54	1,975.36	2,978.79	2,827.75	151.04	19.722		
6,900.00	5,407.81	16,236.00	7,569.74	87.92	158.98	-159.26	1,788.54	1,975.36	2,956.62	2,801.51	155.10	19.062		
7,000.00	5,479.93	16,236.00	7,569.74	89.47	158.98	-159.26	1,788.54	1,975.36	2,937.68	2,778.53	159.15	18.459		
7,100.00	5,552.06	16,236.00	7,569.74	91.01	158.98	-159.26	1,788.54	1,975.36	2,922.04	2,758.89	163.15	17.910		
7,200.00	5,624.18	16,236.00	7,569.74	92.56	158.98	-159.26	1,788.54	1,975.36	2,909.76	2,742.67	167.09	17.414		
7,300.00	5,696.31	16,236.00	7,569.74	94.10	158.98	-159.26	1,788.54	1,975.36	2,900.88	2,729.93	170.95	16.969		
7,400.00	5,768.43	16,236.00	7,569.74	95.65	158.98	-159.26	1,788.54	1,975.36	2,895.42	2,720.72	174.70	16.573		
7,500.00	5,840.56	16,236.00	7,569.74	97.20	158.98	-159.26	1,788.54	1,975.36	2,893.41	2,715.08	178.33	16.225		
7,508.12	5,846.41	16,236.00	7,569.74	97.32	158.98	-159.26	1,788.54	1,975.36	2,893.40	2,714.78	178.62	16.199 CC		
7,600.00	5,912.68	16,236.00	7,569.74	98.74	158.98	-159.26	1,788.54	1,975.36	2,894.86	2,713.05	181.81	15.922 ES		
7,700.00	5,984.81	16,236.00	7,569.74	100.29	158.98	-159.26	1,788.54	1,975.36	2,899.76	2,714.62	185.14	15.663		
7,800.00	6,056.93	16,236.00	7,569.74	101.84	158.98	-159.26	1,788.54	1,975.36	2,908.09	2,719.80	188.29	15.445		
7,900.00	6,129.06	16,236.00	7,569.74	103.38	158.98	-159.26	1,788.54	1,975.36	2,919.82	2,728.56	191.26	15.266		
8,000.00	6,201.18	16,236.00	7,569.74	104.93	158.98	-159.26	1,788.54	1,975.36	2,934.91	2,740.88	194.04	15.126		
8,100.00	6,273.31	16,236.00	7,569.74	106.48	158.98	-159.26	1,788.54	1,975.36	2,953.32	2,756.70	196.61	15.021		
8,200.00	6,345.43	16,236.00	7,569.74	108.02	158.98	-159.26	1,788.54	1,975.36	2,974.97	2,775.98	198.99	14.950		
8,300.00	6,417.56	16,236.00	7,569.74	109.57	158.98	-159.26	1,788.54	1,975.36	2,999.81	2,798.64	201.17	14.912		
8,400.00	6,489.68	16,236.00	7,569.74	111.12	158.98	-159.26	1,788.54	1,975.36	3,027.74	2,824.60	203.14	14.905 SF		
8,500.00	6,561.81	16,236.00	7,569.74	112.66	158.98	-159.26	1,788.54	1,975.36	3,058.69	2,853.78	204.92	14.927		
8,600.00	6,633.93	16,236.00	7,569.74	114.21	158.98	-159.26	1,788.54	1,975.36	3,092.57	2,886.07	206.50	14.976		
8,700.00	6,706.06	16,224.72	7,569.80	115.76	158.78	-159.05	1,799.82	1,975.56	3,129.25	2,921.31	207.94	15.049		
8,800.00	6,778.18	16,200.00	7,569.93	117.30	158.35	-158.58	1,824.53	1,976.00	3,168.50	2,959.23	209.28	15.140		
8,900.00	6,850.31	16,174.65	7,570.06	118.85	157.91	-158.09	1,849.88	1,976.45	3,210.20	2,999.74	210.46	15.253		
9,000.00	6,922.43	16,147.38	7,570.16	120.40	157.44	-157.58	1,877.14	1,976.95	3,254.24	3,042.74	211.50	15.386		
9,100.00	6,994.56	16,120.45	7,570.19	121.95	156.97	-157.06	1,904.07	1,977.44	3,300.52	3,088.12	212.40	15.539		
9,200.00	7,066.68	16,094.09	7,570.16	123.49	156.51	-156.57	1,930.43	1,977.93	3,348.95	3,135.78	213.16	15.711		
9,300.00	7,138.81	16,069.09	7,570.08	125.04	156.08	-156.09	1,955.42	1,978.39	3,399.45	3,185.65	213.80	15.900		
9,392.50	7,205.52	16,046.31	7,569.95	126.47	155.68	-155.66	1,978.20	1,978.80	3,447.93	3,233.65	214.28	16.091		
9,400.00	7,210.94	16,044.52	7,569.93	126.59	155.65	-156.86	1,979.98	1,978.84	3,451.94	3,237.63	214.31	16.107		
9,450.00	7,247.42	16,035.18	7,569.87	127.35	155.49	-165.14	1,989.32	1,979.01	3,479.27	3,264.73	214.53	16.218		
9,500.00	7,284.35	16,030.30	7,569.83	128.10	155.41	-173.90	1,994.20	1,979.09	3,507.47	3,292.73	214.74	16.333		
9,550.00	7,321.43	16,029.87	7,569.82	128.83	155.40	177.05	1,994.63	1,979.10	3,536.35	3,321.42	214.93	16.453		
9,600.00	7,358.38	16,033.83	7,569.85	129.52	155.47	167.90	1,990.67	1,979.03	3,565.65	3,350.55	215.10	16.577		
9,650.00	7,394.93	16,042.12	7,569.92	130.16	155.61	158.84	1,982.39	1,978.88	3,595.15	3,379.90	215.25	16.702		
9,700.00	7,430.79	16,054.61	7,570.00	130.76	155.83	150.07	1,969.90	1,978.65	3,624.58	3,409.20	215.38	16.829		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	16,071.17	7,570.09	131.30	156.12	141.73	1,953.34	1,978.35	3,653.68	3,438.18	215.50	16.955		
9,800.00	7,499.38	16,091.65	7,570.16	131.78	156.47	133.94	1,932.87	1,977.97	3,682.19	3,466.58	215.61	17.078		
9,850.00	7,531.58	16,116.85	7,570.19	132.21	156.91	126.77	1,907.67	1,977.50	3,709.83	3,494.12	215.71	17.198		
9,900.00	7,562.06	16,146.24	7,570.16	132.57	157.42	120.27	1,878.29	1,976.97	3,736.34	3,520.52	215.82	17.312		
9,950.00	7,590.58	16,179.15	7,570.04	132.87	157.99	114.45	1,845.38	1,976.37	3,761.46	3,545.52	215.94	17.419		
10,000.00	7,616.93	16,213.91	7,569.86	133.11	158.60	109.34	1,810.62	1,975.75	3,784.95	3,568.86	216.09	17.515		
10,050.00	7,640.90	16,236.00	7,569.74	133.29	158.98	105.02	1,788.54	1,975.36	3,806.61	3,590.28	216.33	17.596		
10,100.00	7,662.32	16,236.00	7,569.74	133.42	158.98	101.47	1,788.54	1,975.36	3,826.55	3,609.85	216.70	17.658		
10,150.00	7,681.01	16,236.00	7,569.74	133.50	158.98	98.44	1,788.54	1,975.36	3,844.69	3,627.60	217.09	17.710		
10,200.00	7,696.85	16,236.00	7,569.74	133.52	158.98	95.90	1,788.54	1,975.36	3,860.93	3,643.42	217.51	17.751		
10,250.00	7,709.70	16,236.00	7,569.74	133.51	158.98	93.83	1,788.54	1,975.36	3,875.17	3,657.22	217.96	17.780		
10,300.00	7,719.47	16,236.00	7,569.74	133.46	158.98	92.19	1,788.54	1,975.36	3,887.33	3,668.90	218.43	17.797		
10,350.00	7,726.09	16,236.00	7,569.74	133.37	158.98	90.97	1,788.54	1,975.36	3,897.33	3,678.39	218.94	17.801		
10,400.00	7,729.50	16,236.00	7,569.74	133.26	158.98	90.15	1,788.54	1,975.36	3,905.11	3,685.64	219.47	17.794		
10,427.79	7,730.00	16,236.00	7,569.74	133.18	158.98	89.86	1,788.54	1,975.36	3,908.46	3,688.69	219.77	17.784		
10,500.00	7,730.00	16,236.00	7,569.74	132.98	158.98	89.86	1,788.54	1,975.36	3,916.90	3,696.34	220.56	17.759		
10,600.00	7,730.00	16,236.00	7,569.74	132.72	158.98	89.86	1,788.54	1,975.36	3,930.75	3,709.18	221.57	17.740		
10,700.00	7,730.00	16,236.00	7,569.74	132.47	158.98	89.86	1,788.54	1,975.36	3,947.09	3,724.59	222.51	17.739		
10,800.00	7,730.00	16,236.00	7,569.74	132.22	158.98	89.86	1,788.54	1,975.36	3,965.89	3,742.54	223.35	17.756		
10,900.00	7,730.00	16,236.00	7,569.74	131.99	158.98	89.86	1,788.54	1,975.36	3,987.10	3,763.00	224.10	17.792		
11,000.00	7,730.00	16,236.00	7,569.74	131.77	158.98	89.86	1,788.54	1,975.36	4,010.70	3,785.94	224.76	17.844		
11,100.00	7,730.00	16,236.00	7,569.74	131.56	158.98	89.86	1,788.54	1,975.36	4,036.63	3,811.31	225.32	17.915		
11,200.00	7,730.00	16,236.00	7,569.74	131.36	158.98	89.86	1,788.54	1,975.36	4,064.86	3,839.07	225.80	18.002		
11,300.00	7,730.00	16,236.00	7,569.74	131.17	158.98	89.86	1,788.54	1,975.36	4,095.34	3,869.17	226.18	18.107		
11,400.00	7,730.00	16,236.00	7,569.74	130.99	158.98	89.86	1,788.54	1,975.36	4,128.02	3,901.56	226.46	18.228		
11,500.00	7,730.00	16,236.00	7,569.74	130.82	158.98	89.86	1,788.54	1,975.36	4,162.84	3,936.18	226.66	18.366		
11,600.00	7,730.00	16,236.00	7,569.74	130.66	158.98	89.86	1,788.54	1,975.36	4,199.76	3,972.98	226.78	18.519		
11,700.00	7,730.00	16,236.00	7,569.74	130.51	158.98	89.86	1,788.54	1,975.36	4,238.71	4,011.91	226.81	18.689		
11,800.00	7,730.00	16,236.00	7,569.74	130.37	158.98	89.86	1,788.54	1,975.36	4,279.65	4,052.89	226.76	18.873		
11,900.00	7,730.00	16,236.00	7,569.74	130.24	158.98	89.86	1,788.54	1,975.36	4,322.51	4,095.88	226.63	19.073		
12,000.00	7,730.00	16,236.00	7,569.74	130.13	158.98	89.86	1,788.54	1,975.36	4,367.25	4,140.81	226.44	19.287		
12,100.00	7,730.00	16,236.00	7,569.74	130.02	158.98	89.86	1,788.54	1,975.36	4,413.79	4,187.62	226.17	19.515		
12,200.00	7,730.00	16,236.00	7,569.74	129.93	158.98	89.86	1,788.54	1,975.36	4,462.09	4,236.25	225.84	19.758		
12,300.00	7,730.00	16,236.00	7,569.74	129.85	158.98	89.86	1,788.54	1,975.36	4,512.09	4,286.64	225.45	20.013		
12,400.00	7,730.00	16,236.00	7,569.74	129.77	158.98	89.86	1,788.54	1,975.36	4,563.74	4,338.73	225.01	20.282		
12,500.00	7,730.00	16,236.00	7,569.74	129.71	158.98	89.86	1,788.54	1,975.36	4,616.97	4,392.46	224.51	20.564		
12,600.00	7,730.00	16,236.00	7,569.74	129.66	158.98	89.86	1,788.54	1,975.36	4,671.74	4,447.77	223.97	20.859		
12,700.00	7,730.00	16,236.00	7,569.74	129.63	158.98	89.86	1,788.54	1,975.36	4,727.99	4,504.60	223.38	21.165		
12,800.00	7,730.00	16,236.00	7,569.74	129.60	158.98	89.86	1,788.54	1,975.36	4,785.66	4,562.90	222.76	21.484		
12,900.00	7,730.00	16,236.00	7,569.74	129.59	158.98	89.86	1,788.54	1,975.36	4,844.72	4,622.62	222.10	21.814		
13,000.00	7,730.00	16,236.00	7,569.74	129.59	158.98	89.86	1,788.54	1,975.36	4,905.10	4,683.70	221.40	22.155		
13,100.00	7,730.00	16,236.00	7,569.74	129.60	158.98	89.86	1,788.54	1,975.36	4,966.76	4,746.08	220.68	22.507		
13,200.00	7,730.00	16,236.00	7,569.74	129.63	158.98	89.86	1,788.54	1,975.36	5,029.65	4,809.72	219.93	22.869		
13,300.00	7,730.00	16,236.00	7,569.74	129.66	158.98	89.86	1,788.54	1,975.36	5,093.74	4,874.58	219.16	23.242		
13,400.00	7,730.00	16,236.00	7,569.74	129.72	158.98	89.86	1,788.54	1,975.36	5,158.96	4,940.59	218.37	23.625		
13,500.00	7,730.00	16,236.00	7,569.74	129.78	158.98	89.86	1,788.54	1,975.36	5,225.28	5,007.72	217.56	24.018		
13,600.00	7,730.00	16,236.00	7,569.74	129.86	158.98	89.86	1,788.54	1,975.36	5,292.66	5,075.93	216.74	24.420		
13,700.00	7,730.00	16,236.00	7,569.74	129.96	158.98	89.86	1,788.54	1,975.36	5,361.06	5,145.16	215.90	24.831		
13,800.00	7,730.00	16,236.00	7,569.74	130.07	158.98	89.86	1,788.54	1,975.36	5,430.44	5,215.39	215.05	25.252		
13,900.00	7,730.00	16,236.00	7,569.74	130.19	158.98	89.86	1,788.54	1,975.36	5,500.77	5,286.57	214.20	25.681		
14,000.00	7,730.00	16,236.00	7,569.74	130.33	158.98	89.86	1,788.54	1,975.36	5,572.00	5,358.66	213.34	26.118		
14,100.00	7,730.00	16,236.00	7,569.74	130.49	158.98	89.86	1,788.54	1,975.36	5,644.10	5,431.63	212.48	26.564		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	16,236.00	7,569.74	130.67	158.98	89.86	1,788.54	1,975.36	5,717.04	5,505.44	211.61	27.017		
14,300.00	7,730.00	16,236.00	7,569.74	130.86	158.98	89.86	1,788.54	1,975.36	5,790.79	5,580.06	210.74	27.479		
14,400.00	7,730.00	16,236.00	7,569.74	131.07	158.98	89.86	1,788.54	1,975.36	5,865.32	5,655.45	209.87	27.948		
14,500.00	7,730.00	16,236.00	7,569.74	131.30	158.98	89.86	1,788.54	1,975.36	5,940.60	5,731.60	209.00	28.424		
14,600.00	7,730.00	16,236.00	7,569.74	131.55	158.98	89.86	1,788.54	1,975.36	6,016.60	5,808.46	208.14	28.907		
14,700.00	7,730.00	16,236.00	7,569.74	131.82	158.98	89.86	1,788.54	1,975.36	6,093.29	5,886.02	207.27	29.398		
14,800.00	7,730.00	16,236.00	7,569.74	132.11	158.98	89.86	1,788.54	1,975.36	6,170.65	5,964.23	206.41	29.895		
14,900.00	7,730.00	16,236.00	7,569.74	132.42	158.98	89.86	1,788.54	1,975.36	6,248.65	6,043.09	205.56	30.398		
15,000.00	7,730.00	16,236.00	7,569.74	132.75	158.98	89.86	1,788.54	1,975.36	6,327.27	6,122.56	204.71	30.908		
15,100.00	7,730.00	16,236.00	7,569.74	133.10	158.98	89.86	1,788.54	1,975.36	6,406.48	6,202.61	203.87	31.424		
15,200.00	7,730.00	16,236.00	7,569.74	133.48	158.98	89.86	1,788.54	1,975.36	6,486.27	6,283.24	203.04	31.946		
15,300.00	7,730.00	16,236.00	7,569.74	133.88	158.98	89.86	1,788.54	1,975.36	6,566.62	6,364.41	202.21	32.475		
15,400.00	7,730.00	16,236.00	7,569.74	134.31	158.98	89.86	1,788.54	1,975.36	6,647.49	6,446.11	201.39	33.008		
15,500.00	7,730.00	16,236.00	7,569.74	134.76	158.98	89.86	1,788.54	1,975.36	6,728.88	6,528.31	200.58	33.548		
15,600.00	7,730.00	16,236.00	7,569.74	135.23	158.98	89.86	1,788.54	1,975.36	6,810.77	6,611.00	199.78	34.092		
15,700.00	7,730.00	16,236.00	7,569.74	135.73	158.98	89.86	1,788.54	1,975.36	6,893.14	6,694.15	198.98	34.642		
15,800.00	7,730.00	16,236.00	7,569.74	136.26	158.98	89.86	1,788.54	1,975.36	6,975.96	6,777.76	198.20	35.197		
15,900.00	7,730.00	16,236.00	7,569.74	136.81	158.98	89.86	1,788.54	1,975.36	7,059.23	6,861.81	197.42	35.757		
16,000.00	7,730.00	16,236.00	7,569.74	137.39	158.98	89.86	1,788.54	1,975.36	7,142.93	6,946.27	196.66	36.322		
16,100.00	7,730.00	16,236.00	7,569.74	138.00	158.98	89.86	1,788.54	1,975.36	7,227.05	7,031.14	195.90	36.891		
16,200.00	7,730.00	16,236.00	7,569.74	138.63	158.98	89.86	1,788.54	1,975.36	7,311.56	7,116.40	195.16	37.465		
16,300.00	7,730.00	16,236.00	7,569.74	139.30	158.98	89.86	1,788.54	1,975.36	7,396.46	7,202.04	194.42	38.043		
16,400.00	7,730.00	16,236.00	7,569.74	139.99	158.98	89.86	1,788.54	1,975.36	7,481.73	7,288.04	193.70	38.626		
16,500.00	7,730.00	16,236.00	7,569.74	140.70	158.98	89.86	1,788.54	1,975.36	7,567.37	7,374.39	192.98	39.213		
16,600.00	7,730.00	16,236.00	7,569.74	141.45	158.98	89.86	1,788.54	1,975.36	7,653.35	7,461.07	192.28	39.804		
16,700.00	7,730.00	16,236.00	7,569.74	142.22	158.98	89.86	1,788.54	1,975.36	7,739.67	7,548.09	191.58	40.399		
16,800.00	7,730.00	16,236.00	7,569.74	143.03	158.98	89.86	1,788.54	1,975.36	7,826.31	7,635.42	190.90	40.997		
16,900.00	7,730.00	16,236.00	7,569.74	143.86	158.98	89.86	1,788.54	1,975.36	7,913.27	7,723.05	190.22	41.600		
17,000.00	7,730.00	16,236.00	7,569.74	144.71	158.98	89.86	1,788.54	1,975.36	8,000.54	7,810.98	189.56	42.206		
17,100.00	7,730.00	16,236.00	7,569.74	145.60	158.98	89.86	1,788.54	1,975.36	8,088.10	7,899.19	188.91	42.816		
17,200.00	7,730.00	16,236.00	7,569.74	146.51	158.98	89.86	1,788.54	1,975.36	8,175.94	7,987.68	188.26	43.429		
17,300.00	7,730.00	16,236.00	7,569.74	147.44	158.98	89.86	1,788.54	1,975.36	8,264.07	8,076.44	187.63	44.045		
17,400.00	7,730.00	16,236.00	7,569.74	148.40	158.98	89.86	1,788.54	1,975.36	8,352.45	8,165.45	187.00	44.665		
17,500.00	7,730.00	16,236.00	7,569.74	149.39	158.98	89.86	1,788.54	1,975.36	8,441.10	8,254.71	186.39	45.288		
17,600.00	7,730.00	16,236.00	7,569.74	150.40	158.98	89.86	1,788.54	1,975.36	8,530.00	8,344.22	185.78	45.914		
17,700.00	7,730.00	16,236.00	7,569.74	151.44	158.98	89.86	1,788.54	1,975.36	8,619.14	8,433.96	185.19	46.543		
17,800.00	7,730.00	16,236.00	7,569.74	152.50	158.98	89.86	1,788.54	1,975.36	8,708.52	8,523.92	184.60	47.174		
17,900.00	7,730.00	16,236.00	7,569.74	153.58	158.98	89.86	1,788.54	1,975.36	8,798.13	8,614.10	184.03	47.809		
18,000.00	7,730.00	16,236.00	7,569.74	154.68	158.98	89.86	1,788.54	1,975.36	8,887.96	8,704.50	183.46	48.446		
18,100.00	7,730.00	16,236.00	7,569.74	155.80	158.98	89.86	1,788.54	1,975.36	8,978.00	8,795.10	182.90	49.087		
18,200.00	7,730.00	16,236.00	7,569.74	156.95	158.98	89.86	1,788.54	1,975.36	9,068.25	8,885.90	182.35	49.729		
18,300.00	7,730.00	16,236.00	7,569.74	158.11	158.98	89.86	1,788.54	1,975.36	9,158.71	8,976.90	181.81	50.374		
18,400.00	7,730.00	16,236.00	7,569.74	159.30	158.98	89.86	1,788.54	1,975.36	9,249.36	9,068.08	181.28	51.022		
18,500.00	7,730.00	16,236.00	7,569.74	160.50	158.98	89.86	1,788.54	1,975.36	9,340.20	9,159.44	180.76	51.672		
18,600.00	7,730.00	16,236.00	7,569.74	161.72	158.98	89.86	1,788.54	1,975.36	9,431.23	9,250.98	180.24	52.325		
18,700.00	7,730.00	16,236.00	7,569.74	162.96	158.98	89.86	1,788.54	1,975.36	9,522.44	9,342.70	179.74	52.979		
18,800.00	7,730.00	16,236.00	7,569.74	164.21	158.98	89.86	1,788.54	1,975.36	9,613.82	9,434.58	179.24	53.636		
18,900.00	7,730.00	16,236.00	7,569.74	165.48	158.98	89.86	1,788.54	1,975.36	9,705.37	9,526.62	178.75	54.295		
19,000.00	7,730.00	16,236.00	7,569.74	166.76	158.98	89.86	1,788.54	1,975.36	9,797.09	9,618.82	178.27	54.956		
19,100.00	7,730.00	16,236.00	7,569.74	168.06	158.98	89.86	1,788.54	1,975.36	9,888.97	9,711.17	177.80	55.619		
19,200.00	7,730.00	16,236.00	7,569.74	169.38	158.98	89.86	1,788.54	1,975.36	9,981.00	9,803.67	177.33	56.284		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,659.00	7,678.61	0.00	161.70	37.15	1,782.86	1,350.84	8,142.86					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	37.15	1,782.86	1,350.84	8,046.75	7,968.35	78.40	102.634		
200.00	199.98	16,659.00	7,678.61	0.49	161.70	-37.50	1,782.86	1,350.84	7,950.35	7,871.89	78.46	101.330		
300.00	299.84	16,659.00	7,678.61	0.86	161.70	-42.66	1,782.86	1,350.84	7,853.33	7,774.81	78.52	100.020		
400.00	399.45	16,659.00	7,678.61	1.23	161.70	-49.02	1,782.86	1,350.84	7,755.79	7,677.22	78.56	98.720		
500.00	498.70	16,659.00	7,678.61	1.63	161.70	-56.81	1,782.86	1,350.84	7,657.82	7,579.22	78.60	97.432		
600.00	597.47	16,659.00	7,678.61	2.05	161.70	-66.17	1,782.86	1,350.84	7,559.53	7,480.91	78.62	96.159		
700.00	695.62	16,659.00	7,678.61	2.51	161.70	-76.97	1,782.86	1,350.84	7,461.03	7,382.41	78.62	94.902		
800.00	793.06	16,659.00	7,678.61	3.00	161.70	-88.64	1,782.86	1,350.84	7,362.44	7,283.84	78.61	93.662		
900.00	889.64	16,659.00	7,678.61	3.53	161.70	-100.27	1,782.86	1,350.84	7,263.88	7,185.30	78.58	92.440		
1,000.00	985.27	16,659.00	7,678.61	4.12	161.70	-110.96	1,782.86	1,350.84	7,165.46	7,086.92	78.54	91.237		
1,100.00	1,079.82	16,659.00	7,678.61	4.75	161.70	-120.18	1,782.86	1,350.84	7,067.32	6,988.84	78.48	90.051		
1,200.00	1,173.17	16,659.00	7,678.61	5.44	161.70	-127.83	1,782.86	1,350.84	6,969.59	6,891.17	78.41	88.882		
1,300.00	1,265.21	16,659.00	7,678.61	6.18	161.70	-134.06	1,782.86	1,350.84	6,872.41	6,794.07	78.34	87.728		
1,400.00	1,355.84	16,659.00	7,678.61	6.99	161.70	-139.11	1,782.86	1,350.84	6,775.92	6,697.66	78.26	86.586		
1,500.00	1,444.94	16,659.00	7,678.61	7.87	161.70	-143.22	1,782.86	1,350.84	6,680.28	6,602.10	78.17	85.454		
1,600.00	1,532.39	16,659.00	7,678.61	8.80	161.70	-146.59	1,782.86	1,350.84	6,585.63	6,507.54	78.10	84.328		
1,700.00	1,618.11	16,659.00	7,678.61	9.81	161.70	-149.38	1,782.86	1,350.84	6,492.15	6,414.12	78.03	83.204		
1,800.00	1,701.97	16,659.00	7,678.61	10.89	161.70	-151.72	1,782.86	1,350.84	6,400.00	6,322.02	77.98	82.077		
1,900.00	1,783.88	16,659.00	7,678.61	12.04	161.70	-153.69	1,782.86	1,350.84	6,309.35	6,231.40	77.95	80.946		
2,000.00	1,863.74	16,659.00	7,678.61	13.26	161.70	-155.37	1,782.86	1,350.84	6,220.38	6,142.43	77.95	79.805		
2,100.00	1,941.45	16,659.00	7,678.61	14.55	161.70	-156.80	1,782.86	1,350.84	6,133.27	6,055.29	77.98	78.650		
2,200.00	2,016.92	16,659.00	7,678.61	15.92	161.70	-158.05	1,782.86	1,350.84	6,048.22	5,970.16	78.06	77.481		
2,292.11	2,084.36	16,659.00	7,678.61	17.25	161.70	-159.05	1,782.86	1,350.84	5,971.86	5,893.68	78.18	76.388		
2,300.00	2,090.06	16,659.00	7,678.61	17.36	161.70	-159.05	1,782.86	1,350.84	5,965.41	5,887.22	78.18	76.299		
2,400.00	2,162.18	16,659.00	7,678.61	18.84	161.70	-159.05	1,782.86	1,350.84	5,883.92	5,805.54	78.38	75.069		
2,500.00	2,234.31	16,659.00	7,678.61	20.33	161.70	-159.05	1,782.86	1,350.84	5,803.02	5,724.40	78.62	73.809		
2,600.00	2,306.43	16,659.00	7,678.61	21.83	161.70	-159.05	1,782.86	1,350.84	5,722.72	5,643.81	78.91	72.522		
2,700.00	2,378.56	16,659.00	7,678.61	23.33	161.70	-159.05	1,782.86	1,350.84	5,643.04	5,563.80	79.25	71.209		
2,800.00	2,450.68	16,659.00	7,678.61	24.84	161.70	-159.05	1,782.86	1,350.84	5,564.03	5,484.40	79.63	69.873		
2,900.00	2,522.81	16,659.00	7,678.61	26.36	161.70	-159.05	1,782.86	1,350.84	5,485.70	5,405.63	80.07	68.513		
3,000.00	2,594.93	16,659.00	7,678.61	27.88	161.70	-159.05	1,782.86	1,350.84	5,408.08	5,327.52	80.56	67.132		
3,100.00	2,667.06	16,659.00	7,678.61	29.40	161.70	-159.05	1,782.86	1,350.84	5,331.21	5,250.10	81.11	65.729		
3,200.00	2,739.18	16,659.00	7,678.61	30.92	161.70	-159.05	1,782.86	1,350.84	5,255.12	5,173.40	81.72	64.307		
3,300.00	2,811.31	16,659.00	7,678.61	32.45	161.70	-159.05	1,782.86	1,350.84	5,179.84	5,097.45	82.39	62.867		
3,400.00	2,883.43	16,659.00	7,678.61	33.98	161.70	-159.05	1,782.86	1,350.84	5,105.41	5,022.27	83.14	61.409		
3,500.00	2,955.56	16,659.00	7,678.61	35.51	161.70	-159.05	1,782.86	1,350.84	5,031.87	4,947.91	83.95	59.936		
3,600.00	3,027.68	16,659.00	7,678.61	37.04	161.70	-159.05	1,782.86	1,350.84	4,959.25	4,874.40	84.85	58.449		
3,700.00	3,099.81	16,659.00	7,678.61	38.57	161.70	-159.05	1,782.86	1,350.84	4,887.60	4,801.78	85.82	56.950		
3,800.00	3,171.93	16,659.00	7,678.61	40.11	161.70	-159.05	1,782.86	1,350.84	4,816.96	4,730.07	86.88	55.442		
3,900.00	3,244.06	16,659.00	7,678.61	41.64	161.70	-159.05	1,782.86	1,350.84	4,747.37	4,659.34	88.03	53.926		
4,000.00	3,316.18	16,659.00	7,678.61	43.18	161.70	-159.05	1,782.86	1,350.84	4,678.89	4,589.61	89.28	52.406		
4,100.00	3,388.31	16,659.00	7,678.61	44.71	161.70	-159.05	1,782.86	1,350.84	4,611.56	4,520.93	90.63	50.885		
4,200.00	3,460.43	16,659.00	7,678.61	46.25	161.70	-159.05	1,782.86	1,350.84	4,545.43	4,453.35	92.08	49.366		
4,300.00	3,532.56	16,659.00	7,678.61	47.79	161.70	-159.05	1,782.86	1,350.84	4,480.56	4,386.93	93.63	47.853		
4,400.00	3,604.68	16,659.00	7,678.61	49.33	161.70	-159.05	1,782.86	1,350.84	4,417.00	4,321.70	95.30	46.349		
4,500.00	3,676.81	16,659.00	7,678.61	50.87	161.70	-159.05	1,782.86	1,350.84	4,354.81	4,257.73	97.08	44.858		
4,600.00	3,748.93	16,659.00	7,678.61	52.41	161.70	-159.05	1,782.86	1,350.84	4,294.04	4,195.06	98.98	43.384		
4,700.00	3,821.06	16,659.00	7,678.61	53.95	161.70	-159.05	1,782.86	1,350.84	4,234.77	4,133.77	100.99	41.931		
4,800.00	3,893.18	16,659.00	7,678.61	55.49	161.70	-159.05	1,782.86	1,350.84	4,177.05	4,073.92	103.13	40.503		
4,900.00	3,965.31	16,659.00	7,678.61	57.03	161.70	-159.05	1,782.86	1,350.84	4,120.95	4,015.56	105.39	39.103		
5,000.00	4,037.43	16,659.00	7,678.61	58.58	161.70	-159.05	1,782.86	1,350.84	4,066.53	3,958.77	107.76	37.736		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	16,659.00	7,678.61	60.12	161.70	-159.05	1,782.86	1,350.84	4,013.87	3,903.61	110.26	36.404		
5,200.00	4,181.68	16,659.00	7,678.61	61.66	161.70	-159.05	1,782.86	1,350.84	3,963.03	3,850.15	112.87	35.110		
5,300.00	4,253.81	16,659.00	7,678.61	63.20	161.70	-159.05	1,782.86	1,350.84	3,914.08	3,798.48	115.60	33.858		
5,400.00	4,325.93	16,659.00	7,678.61	64.75	161.70	-159.05	1,782.86	1,350.84	3,867.11	3,748.67	118.44	32.650		
5,500.00	4,398.06	16,659.00	7,678.61	66.29	161.70	-159.05	1,782.86	1,350.84	3,822.17	3,700.79	121.39	31.488		
5,600.00	4,470.18	16,659.00	7,678.61	67.84	161.70	-159.05	1,782.86	1,350.84	3,779.35	3,654.92	124.43	30.374		
5,700.00	4,542.31	16,659.00	7,678.61	69.38	161.70	-159.05	1,782.86	1,350.84	3,738.71	3,611.14	127.56	29.308		
5,800.00	4,614.43	16,659.00	7,678.61	70.92	161.70	-159.05	1,782.86	1,350.84	3,700.32	3,569.54	130.78	28.293		
5,900.00	4,686.56	16,659.00	7,678.61	72.47	161.70	-159.05	1,782.86	1,350.84	3,664.27	3,530.19	134.08	27.329		
6,000.00	4,758.68	16,659.00	7,678.61	74.01	161.70	-159.05	1,782.86	1,350.84	3,630.61	3,493.17	137.44	26.417		
6,100.00	4,830.81	16,659.00	7,678.61	75.56	161.70	-159.05	1,782.86	1,350.84	3,599.41	3,458.57	140.85	25.555		
6,200.00	4,902.93	16,659.00	7,678.61	77.10	161.70	-159.05	1,782.86	1,350.84	3,570.75	3,426.45	144.30	24.745		
6,300.00	4,975.06	16,659.00	7,678.61	78.65	161.70	-159.05	1,782.86	1,350.84	3,544.67	3,396.89	147.79	23.985		
6,400.00	5,047.18	16,659.00	7,678.61	80.19	161.70	-159.05	1,782.86	1,350.84	3,521.25	3,369.96	151.29	23.275		
6,500.00	5,119.31	16,659.00	7,678.61	81.74	161.70	-159.05	1,782.86	1,350.84	3,500.52	3,345.73	154.79	22.614		
6,600.00	5,191.43	16,659.00	7,678.61	83.28	161.70	-159.05	1,782.86	1,350.84	3,482.54	3,324.26	158.28	22.002		
6,700.00	5,263.56	16,659.00	7,678.61	84.83	161.70	-159.05	1,782.86	1,350.84	3,467.36	3,305.61	161.75	21.436		
6,800.00	5,335.68	16,659.00	7,678.61	86.37	161.70	-159.05	1,782.86	1,350.84	3,455.00	3,289.82	165.18	20.916		
6,900.00	5,407.81	16,659.00	7,678.61	87.92	161.70	-159.05	1,782.86	1,350.84	3,445.51	3,276.95	168.56	20.441		
7,000.00	5,479.93	16,659.00	7,678.61	89.47	161.70	-159.05	1,782.86	1,350.84	3,438.89	3,267.02	171.87	20.009		
7,100.00	5,552.06	16,659.00	7,678.61	91.01	161.70	-159.05	1,782.86	1,350.84	3,435.18	3,260.07	175.11	19.618		
7,177.67	5,608.08	16,659.00	7,678.61	92.21	161.70	-159.05	1,782.86	1,350.84	3,434.30	3,256.74	177.56	19.342	CC	
7,200.00	5,624.18	16,659.00	7,678.61	92.56	161.70	-159.05	1,782.86	1,350.84	3,434.37	3,256.12	178.25	19.267		
7,300.00	5,696.31	16,659.00	7,678.61	94.10	161.70	-159.05	1,782.86	1,350.84	3,436.48	3,255.18	181.30	18.955	ES	
7,400.00	5,768.43	16,659.00	7,678.61	95.65	161.70	-159.05	1,782.86	1,350.84	3,441.49	3,257.25	184.23	18.680		
7,500.00	5,840.56	16,659.00	7,678.61	97.20	161.70	-159.05	1,782.86	1,350.84	3,449.39	3,262.34	187.05	18.441		
7,600.00	5,912.68	16,659.00	7,678.61	98.74	161.70	-159.05	1,782.86	1,350.84	3,460.17	3,270.42	189.75	18.236		
7,700.00	5,984.81	16,659.00	7,678.61	100.29	161.70	-159.05	1,782.86	1,350.84	3,473.79	3,281.49	192.31	18.064		
7,800.00	6,056.93	16,659.00	7,678.61	101.84	161.70	-159.05	1,782.86	1,350.84	3,490.23	3,295.50	194.73	17.923		
7,900.00	6,129.06	16,659.00	7,678.61	103.38	161.70	-159.05	1,782.86	1,350.84	3,509.44	3,312.43	197.01	17.813		
8,000.00	6,201.18	16,659.00	7,678.61	104.93	161.70	-159.05	1,782.86	1,350.84	3,531.38	3,332.22	199.16	17.732		
8,100.00	6,273.31	16,659.00	7,678.61	106.48	161.70	-159.05	1,782.86	1,350.84	3,556.00	3,354.84	201.15	17.678		
8,200.00	6,345.43	16,659.00	7,678.61	108.02	161.70	-159.05	1,782.86	1,350.84	3,583.23	3,380.23	203.01	17.651		
8,300.00	6,417.56	16,659.00	7,678.61	109.57	161.70	-159.05	1,782.86	1,350.84	3,613.04	3,408.32	204.72	17.649	SF	
8,400.00	6,489.68	16,659.00	7,678.61	111.12	161.70	-159.05	1,782.86	1,350.84	3,645.34	3,439.05	206.29	17.671		
8,500.00	6,561.81	16,659.00	7,678.61	112.66	161.70	-159.05	1,782.86	1,350.84	3,680.08	3,472.35	207.73	17.716		
8,600.00	6,633.93	16,659.00	7,678.61	114.21	161.70	-159.05	1,782.86	1,350.84	3,717.18	3,508.15	209.03	17.783		
8,700.00	6,706.06	16,659.00	7,678.61	115.76	161.70	-159.05	1,782.86	1,350.84	3,756.58	3,546.37	210.21	17.871		
8,800.00	6,778.18	16,659.00	7,678.61	117.30	161.70	-159.05	1,782.86	1,350.84	3,798.21	3,586.95	211.26	17.979		
8,900.00	6,850.31	16,659.27	7,678.61	118.85	161.70	-159.05	1,782.60	1,350.84	3,841.98	3,629.80	212.19	18.107		
9,000.00	6,922.43	16,637.43	7,678.36	120.40	161.32	-158.70	1,804.43	1,350.68	3,887.78	3,674.70	213.08	18.246		
9,100.00	6,994.56	16,615.60	7,678.10	121.95	160.94	-158.34	1,826.26	1,350.52	3,935.46	3,721.60	213.87	18.401		
9,200.00	7,066.68	16,594.17	7,677.86	123.49	160.57	-158.00	1,847.69	1,350.36	3,984.97	3,770.41	214.56	18.572		
9,300.00	7,138.81	16,572.51	7,677.67	125.04	160.19	-157.65	1,869.35	1,350.21	4,036.23	3,821.06	215.17	18.759		
9,392.50	7,205.52	16,552.13	7,677.53	126.47	159.84	-157.32	1,889.72	1,350.07	4,085.14	3,869.49	215.65	18.943		
9,400.00	7,210.94	16,550.51	7,677.53	126.59	159.81	-158.53	1,891.34	1,350.06	4,089.18	3,873.49	215.69	18.959		
9,450.00	7,247.42	16,542.12	7,677.49	127.35	159.66	-166.88	1,899.74	1,350.01	4,116.55	3,900.62	215.93	19.064		
9,500.00	7,284.35	16,537.99	7,677.47	128.10	159.59	-175.65	1,903.87	1,349.98	4,144.63	3,928.46	216.17	19.173		
9,550.00	7,321.43	16,538.21	7,677.47	128.83	159.60	175.34	1,903.64	1,349.98	4,173.19	3,956.80	216.39	19.285		
9,600.00	7,358.38	16,542.85	7,677.49	129.52	159.68	166.29	1,899.01	1,350.01	4,202.02	3,985.41	216.61	19.399		
9,650.00	7,394.93	16,551.92	7,677.53	130.16	159.83	157.38	1,889.93	1,350.07	4,230.87	4,014.05	216.81	19.514		
9,700.00	7,430.79	16,565.42	7,677.62	130.76	160.07	148.79	1,876.43	1,350.16	4,259.50	4,042.49	217.01	19.628		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	16,583.30	7,677.76	131.30	160.38	140.66	1,858.55	1,350.28	4,287.66	4,070.46	217.19	19.741		
9,800.00	7,499.38	16,605.48	7,677.98	131.78	160.77	133.11	1,836.38	1,350.44	4,315.09	4,097.71	217.38	19.851		
9,850.00	7,531.58	16,631.12	7,678.28	132.21	161.21	126.20	1,810.74	1,350.63	4,341.54	4,123.98	217.56	19.955		
9,900.00	7,562.06	16,660.25	7,678.63	132.57	161.72	119.96	1,781.62	1,350.85	4,366.77	4,149.01	217.76	20.053		
9,950.00	7,590.58	16,659.00	7,678.61	132.87	161.70	114.72	1,782.86	1,350.84	4,390.66	4,172.59	218.06	20.135		
10,000.00	7,616.93	16,659.00	7,678.61	133.11	161.70	110.09	1,782.86	1,350.84	4,413.15	4,194.77	218.38	20.209		
10,050.00	7,640.90	16,659.00	7,678.61	133.29	161.70	106.04	1,782.86	1,350.84	4,434.08	4,215.37	218.71	20.274		
10,100.00	7,662.32	16,659.00	7,678.61	133.42	161.70	102.54	1,782.86	1,350.84	4,453.32	4,234.27	219.06	20.330		
10,150.00	7,681.01	16,659.00	7,678.61	133.50	161.70	99.57	1,782.86	1,350.84	4,470.75	4,251.33	219.42	20.375		
10,200.00	7,696.85	16,659.00	7,678.61	133.52	161.70	97.08	1,782.86	1,350.84	4,486.26	4,266.45	219.81	20.409		
10,250.00	7,709.70	16,659.00	7,678.61	133.51	161.70	95.05	1,782.86	1,350.84	4,499.74	4,279.52	220.23	20.432		
10,300.00	7,719.47	16,659.00	7,678.61	133.46	161.70	93.46	1,782.86	1,350.84	4,511.12	4,290.45	220.67	20.443		
10,350.00	7,726.09	16,659.00	7,678.61	133.37	161.70	92.29	1,782.86	1,350.84	4,520.32	4,299.19	221.13	20.442		
10,400.00	7,729.50	16,659.00	7,678.61	133.26	161.70	91.52	1,782.86	1,350.84	4,527.29	4,305.67	221.62	20.429		
10,427.79	7,730.00	16,659.00	7,678.61	133.18	161.70	91.27	1,782.86	1,350.84	4,530.18	4,308.29	221.89	20.416		
10,500.00	7,730.00	16,659.00	7,678.61	132.98	161.70	91.27	1,782.86	1,350.84	4,537.34	4,314.72	222.62	20.382		
10,600.00	7,730.00	16,659.00	7,678.61	132.72	161.70	91.27	1,782.86	1,350.84	4,549.14	4,325.56	223.57	20.347		
10,700.00	7,730.00	16,659.00	7,678.61	132.47	161.70	91.27	1,782.86	1,350.84	4,563.09	4,338.62	224.47	20.328		
10,800.00	7,730.00	16,659.00	7,678.61	132.22	161.70	91.27	1,782.86	1,350.84	4,579.19	4,353.88	225.30	20.325		
10,900.00	7,730.00	16,659.00	7,678.61	131.99	161.70	91.27	1,782.86	1,350.84	4,597.40	4,371.33	226.07	20.336		
11,000.00	7,730.00	16,659.00	7,678.61	131.77	161.70	91.27	1,782.86	1,350.84	4,617.71	4,390.94	226.77	20.363		
11,100.00	7,730.00	16,659.00	7,678.61	131.56	161.70	91.27	1,782.86	1,350.84	4,640.09	4,412.68	227.41	20.404		
11,200.00	7,730.00	16,659.00	7,678.61	131.36	161.70	91.27	1,782.86	1,350.84	4,664.50	4,436.52	227.98	20.460		
11,300.00	7,730.00	16,659.00	7,678.61	131.17	161.70	91.27	1,782.86	1,350.84	4,690.92	4,462.44	228.48	20.531		
11,400.00	7,730.00	16,659.00	7,678.61	130.99	161.70	91.27	1,782.86	1,350.84	4,719.31	4,490.40	228.91	20.617		
11,500.00	7,730.00	16,659.00	7,678.61	130.82	161.70	91.27	1,782.86	1,350.84	4,749.64	4,520.36	229.27	20.716		
11,600.00	7,730.00	16,659.00	7,678.61	130.66	161.70	91.27	1,782.86	1,350.84	4,781.86	4,552.29	229.57	20.830		
11,700.00	7,730.00	16,659.00	7,678.61	130.51	161.70	91.27	1,782.86	1,350.84	4,815.95	4,586.15	229.80	20.957		
11,800.00	7,730.00	16,659.00	7,678.61	130.37	161.70	91.27	1,782.86	1,350.84	4,851.86	4,621.89	229.97	21.098		
11,900.00	7,730.00	16,659.00	7,678.61	130.24	161.70	91.27	1,782.86	1,350.84	4,889.55	4,659.48	230.07	21.252		
12,000.00	7,730.00	16,659.00	7,678.61	130.13	161.70	91.27	1,782.86	1,350.84	4,928.98	4,698.86	230.12	21.419		
12,100.00	7,730.00	16,659.00	7,678.61	130.02	161.70	91.27	1,782.86	1,350.84	4,970.11	4,740.01	230.10	21.600		
12,200.00	7,730.00	16,659.00	7,678.61	129.93	161.70	91.27	1,782.86	1,350.84	5,012.90	4,782.87	230.03	21.792		
12,300.00	7,730.00	16,659.00	7,678.61	129.85	161.70	91.27	1,782.86	1,350.84	5,057.30	4,827.40	229.91	21.997		
12,400.00	7,730.00	16,659.00	7,678.61	129.77	161.70	91.27	1,782.86	1,350.84	5,103.28	4,873.55	229.73	22.214		
12,500.00	7,730.00	16,659.00	7,678.61	129.71	161.70	91.27	1,782.86	1,350.84	5,150.79	4,921.28	229.51	22.443		
12,600.00	7,730.00	16,659.00	7,678.61	129.66	161.70	91.27	1,782.86	1,350.84	5,199.79	4,970.55	229.24	22.683		
12,700.00	7,730.00	16,659.00	7,678.61	129.63	161.70	91.27	1,782.86	1,350.84	5,250.23	5,021.31	228.92	22.934		
12,800.00	7,730.00	16,659.00	7,678.61	129.60	161.70	91.27	1,782.86	1,350.84	5,302.09	5,073.51	228.57	23.197		
12,900.00	7,730.00	16,659.00	7,678.61	129.59	161.70	91.27	1,782.86	1,350.84	5,355.30	5,127.12	228.18	23.470		
13,000.00	7,730.00	16,659.00	7,678.61	129.59	161.70	91.27	1,782.86	1,350.84	5,409.85	5,182.10	227.75	23.753		
13,100.00	7,730.00	16,659.00	7,678.61	129.60	161.70	91.27	1,782.86	1,350.84	5,465.67	5,238.38	227.29	24.047		
13,200.00	7,730.00	16,659.00	7,678.61	129.63	161.70	91.27	1,782.86	1,350.84	5,522.75	5,295.95	226.80	24.351		
13,300.00	7,730.00	16,659.00	7,678.61	129.66	161.70	91.27	1,782.86	1,350.84	5,581.03	5,354.75	226.28	24.665		
13,400.00	7,730.00	16,659.00	7,678.61	129.72	161.70	91.27	1,782.86	1,350.84	5,640.48	5,414.75	225.73	24.988		
13,500.00	7,730.00	16,659.00	7,678.61	129.78	161.70	91.27	1,782.86	1,350.84	5,701.07	5,475.91	225.16	25.320		
13,600.00	7,730.00	16,659.00	7,678.61	129.86	161.70	91.27	1,782.86	1,350.84	5,762.76	5,538.19	224.57	25.662		
13,700.00	7,730.00	16,659.00	7,678.61	129.96	161.70	91.27	1,782.86	1,350.84	5,825.51	5,601.55	223.95	26.012		
13,800.00	7,730.00	16,659.00	7,678.61	130.07	161.70	91.27	1,782.86	1,350.84	5,889.29	5,665.96	223.32	26.371		
13,900.00	7,730.00	16,659.00	7,678.61	130.19	161.70	91.27	1,782.86	1,350.84	5,954.06	5,731.38	222.68	26.738		
14,000.00	7,730.00	16,659.00	7,678.61	130.33	161.70	91.27	1,782.86	1,350.84	6,019.80	5,797.78	222.02	27.114		
14,100.00	7,730.00	16,659.00	7,678.61	130.49	161.70	91.27	1,782.86	1,350.84	6,086.47	5,865.13	221.35	27.498		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	16,659.00	7,678.61	130.67	161.70	91.27	1,782.86	1,350.84	6,154.05	5,933.39	220.66	27.889		
14,300.00	7,730.00	16,659.00	7,678.61	130.86	161.70	91.27	1,782.86	1,350.84	6,222.50	6,002.53	219.97	28.288		
14,400.00	7,730.00	16,659.00	7,678.61	131.07	161.70	91.27	1,782.86	1,350.84	6,291.79	6,072.52	219.27	28.694		
14,500.00	7,730.00	16,659.00	7,678.61	131.30	161.70	91.27	1,782.86	1,350.84	6,361.90	6,143.34	218.56	29.108		
14,600.00	7,730.00	16,659.00	7,678.61	131.55	161.70	91.27	1,782.86	1,350.84	6,432.80	6,214.95	217.85	29.529		
14,700.00	7,730.00	16,659.00	7,678.61	131.82	161.70	91.27	1,782.86	1,350.84	6,504.47	6,287.34	217.13	29.956		
14,800.00	7,730.00	16,659.00	7,678.61	132.11	161.70	91.27	1,782.86	1,350.84	6,576.87	6,360.46	216.41	30.391		
14,900.00	7,730.00	16,659.00	7,678.61	132.42	161.70	91.27	1,782.86	1,350.84	6,649.99	6,434.31	215.69	30.832		
15,000.00	7,730.00	16,659.00	7,678.61	132.75	161.70	91.27	1,782.86	1,350.84	6,723.81	6,508.84	214.96	31.279		
15,100.00	7,730.00	16,659.00	7,678.61	133.10	161.70	91.27	1,782.86	1,350.84	6,798.29	6,584.05	214.24	31.733		
15,200.00	7,730.00	16,659.00	7,678.61	133.48	161.70	91.27	1,782.86	1,350.84	6,873.42	6,659.91	213.51	32.192		
15,300.00	7,730.00	16,659.00	7,678.61	133.88	161.70	91.27	1,782.86	1,350.84	6,949.18	6,736.39	212.79	32.658		
15,400.00	7,730.00	16,659.00	7,678.61	134.31	161.70	91.27	1,782.86	1,350.84	7,025.54	6,813.47	212.07	33.129		
15,500.00	7,730.00	16,659.00	7,678.61	134.76	161.70	91.27	1,782.86	1,350.84	7,102.49	6,891.14	211.35	33.606		
15,600.00	7,730.00	16,659.00	7,678.61	135.23	161.70	91.27	1,782.86	1,350.84	7,180.01	6,969.38	210.63	34.088		
15,700.00	7,730.00	16,659.00	7,678.61	135.73	161.70	91.27	1,782.86	1,350.84	7,258.08	7,048.16	209.92	34.576		
15,800.00	7,730.00	16,659.00	7,678.61	136.26	161.70	91.27	1,782.86	1,350.84	7,336.68	7,127.47	209.21	35.069		
15,900.00	7,730.00	16,659.00	7,678.61	136.81	161.70	91.27	1,782.86	1,350.84	7,415.79	7,207.29	208.50	35.567		
16,000.00	7,730.00	16,659.00	7,678.61	137.39	161.70	91.27	1,782.86	1,350.84	7,495.41	7,287.61	207.80	36.070		
16,100.00	7,730.00	16,659.00	7,678.61	138.00	161.70	91.27	1,782.86	1,350.84	7,575.51	7,368.40	207.10	36.578		
16,200.00	7,730.00	16,659.00	7,678.61	138.63	161.70	91.27	1,782.86	1,350.84	7,656.07	7,449.66	206.41	37.091		
16,300.00	7,730.00	16,659.00	7,678.61	139.30	161.70	91.27	1,782.86	1,350.84	7,737.09	7,531.37	205.73	37.608		
16,400.00	7,730.00	16,659.00	7,678.61	139.99	161.70	91.27	1,782.86	1,350.84	7,818.55	7,613.50	205.05	38.130		
16,500.00	7,730.00	16,659.00	7,678.61	140.70	161.70	91.27	1,782.86	1,350.84	7,900.44	7,696.06	204.38	38.656		
16,600.00	7,730.00	16,659.00	7,678.61	141.45	161.70	91.27	1,782.86	1,350.84	7,982.74	7,779.03	203.71	39.187		
16,700.00	7,730.00	16,659.00	7,678.61	142.22	161.70	91.27	1,782.86	1,350.84	8,065.44	7,862.39	203.05	39.721		
16,800.00	7,730.00	16,659.00	7,678.61	143.03	161.70	91.27	1,782.86	1,350.84	8,148.52	7,946.13	202.40	40.260		
16,900.00	7,730.00	16,659.00	7,678.61	143.86	161.70	91.27	1,782.86	1,350.84	8,231.99	8,030.23	201.75	40.803		
17,000.00	7,730.00	16,659.00	7,678.61	144.71	161.70	91.27	1,782.86	1,350.84	8,315.81	8,114.70	201.11	41.349		
17,100.00	7,730.00	16,659.00	7,678.61	145.60	161.70	91.27	1,782.86	1,350.84	8,399.99	8,199.52	200.48	41.900		
17,200.00	7,730.00	16,659.00	7,678.61	146.51	161.70	91.27	1,782.86	1,350.84	8,484.52	8,284.67	199.85	42.454		
17,300.00	7,730.00	16,659.00	7,678.61	147.44	161.70	91.27	1,782.86	1,350.84	8,569.38	8,370.14	199.24	43.011		
17,400.00	7,730.00	16,659.00	7,678.61	148.40	161.70	91.27	1,782.86	1,350.84	8,654.56	8,455.93	198.62	43.572		
17,500.00	7,730.00	16,659.00	7,678.61	149.39	161.70	91.27	1,782.86	1,350.84	8,740.05	8,542.03	198.02	44.137		
17,600.00	7,730.00	16,659.00	7,678.61	150.40	161.70	91.27	1,782.86	1,350.84	8,825.85	8,628.43	197.42	44.705		
17,700.00	7,730.00	16,659.00	7,678.61	151.44	161.70	91.27	1,782.86	1,350.84	8,911.95	8,715.11	196.84	45.276		
17,800.00	7,730.00	16,659.00	7,678.61	152.50	161.70	91.27	1,782.86	1,350.84	8,998.33	8,802.08	196.25	45.850		
17,900.00	7,730.00	16,659.00	7,678.61	153.58	161.70	91.27	1,782.86	1,350.84	9,085.00	8,889.32	195.68	46.428		
18,000.00	7,730.00	16,659.00	7,678.61	154.68	161.70	91.27	1,782.86	1,350.84	9,171.93	8,976.82	195.11	47.008		
18,100.00	7,730.00	16,659.00	7,678.61	155.80	161.70	91.27	1,782.86	1,350.84	9,259.13	9,064.58	194.55	47.592		
18,200.00	7,730.00	16,659.00	7,678.61	156.95	161.70	91.27	1,782.86	1,350.84	9,346.58	9,152.58	194.00	48.178		
18,300.00	7,730.00	16,659.00	7,678.61	158.11	161.70	91.27	1,782.86	1,350.84	9,434.29	9,240.83	193.46	48.767		
18,400.00	7,730.00	16,659.00	7,678.61	159.30	161.70	91.27	1,782.86	1,350.84	9,522.23	9,329.32	192.92	49.359		
18,500.00	7,730.00	16,659.00	7,678.61	160.50	161.70	91.27	1,782.86	1,350.84	9,610.42	9,418.03	192.39	49.953		
18,600.00	7,730.00	16,659.00	7,678.61	161.72	161.70	91.27	1,782.86	1,350.84	9,698.83	9,506.96	191.86	50.550		
18,700.00	7,730.00	16,659.00	7,678.61	162.96	161.70	91.27	1,782.86	1,350.84	9,787.46	9,596.11	191.35	51.150		
18,800.00	7,730.00	16,659.00	7,678.61	164.21	161.70	91.27	1,782.86	1,350.84	9,876.31	9,685.47	190.84	51.752		
18,900.00	7,730.00	16,659.00	7,678.61	165.48	161.70	91.27	1,782.86	1,350.84	9,965.38	9,775.04	190.34	52.356		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,530.00	7,789.95	0.00	159.85	41.13	1,780.53	1,554.83	8,285.32					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	41.13	1,780.53	1,554.83	8,189.53	8,112.66	76.87	106.541		
200.00	199.98	16,530.00	7,789.95	0.49	159.85	-32.93	1,780.53	1,554.83	8,093.41	8,016.46	76.95	105.177		
300.00	299.84	16,530.00	7,789.95	0.86	159.85	-37.37	1,780.53	1,554.83	7,996.61	7,919.57	77.03	103.805		
400.00	399.45	16,530.00	7,789.95	1.23	159.85	-42.90	1,780.53	1,554.83	7,899.21	7,822.11	77.11	102.445		
500.00	498.70	16,530.00	7,789.95	1.63	159.85	-49.82	1,780.53	1,554.83	7,801.33	7,724.17	77.17	101.099		
600.00	597.47	16,530.00	7,789.95	2.05	159.85	-58.42	1,780.53	1,554.83	7,703.06	7,625.85	77.21	99.770		
700.00	695.62	16,530.00	7,789.95	2.51	159.85	-68.83	1,780.53	1,554.83	7,604.50	7,527.27	77.23	98.460		
800.00	793.06	16,530.00	7,789.95	3.00	159.85	-80.78	1,780.53	1,554.83	7,505.78	7,428.53	77.24	97.170		
900.00	889.64	16,530.00	7,789.95	3.53	159.85	-93.42	1,780.53	1,554.83	7,407.00	7,329.76	77.24	95.902		
1,000.00	985.27	16,530.00	7,789.95	4.12	159.85	-105.58	1,780.53	1,554.83	7,308.29	7,231.08	77.21	94.655		
1,100.00	1,079.82	16,530.00	7,789.95	4.75	159.85	-116.31	1,780.53	1,554.83	7,209.77	7,132.60	77.17	93.431		
1,200.00	1,173.17	16,530.00	7,789.95	5.44	159.85	-125.24	1,780.53	1,554.83	7,111.57	7,034.46	77.11	92.228		
1,300.00	1,265.21	16,530.00	7,789.95	6.18	159.85	-132.44	1,780.53	1,554.83	7,013.82	6,936.79	77.04	91.045		
1,400.00	1,355.84	16,530.00	7,789.95	6.99	159.85	-138.20	1,780.53	1,554.83	6,916.68	6,839.73	76.95	89.880		
1,500.00	1,444.94	16,530.00	7,789.95	7.87	159.85	-142.82	1,780.53	1,554.83	6,820.28	6,743.42	76.87	88.729		
1,600.00	1,532.39	16,530.00	7,789.95	8.80	159.85	-146.54	1,780.53	1,554.83	6,724.78	6,648.01	76.77	87.591		
1,700.00	1,618.11	16,530.00	7,789.95	9.81	159.85	-149.58	1,780.53	1,554.83	6,630.34	6,553.65	76.69	86.461		
1,800.00	1,701.97	16,530.00	7,789.95	10.89	159.85	-152.10	1,780.53	1,554.83	6,537.11	6,460.50	76.61	85.334		
1,900.00	1,783.88	16,530.00	7,789.95	12.04	159.85	-154.20	1,780.53	1,554.83	6,445.27	6,368.73	76.54	84.208		
2,000.00	1,863.74	16,530.00	7,789.95	13.26	159.85	-155.97	1,780.53	1,554.83	6,354.99	6,278.49	76.49	83.078		
2,100.00	1,941.45	16,530.00	7,789.95	14.55	159.85	-157.47	1,780.53	1,554.83	6,266.45	6,189.97	76.48	81.939		
2,200.00	2,016.92	16,530.00	7,789.95	15.92	159.85	-158.76	1,780.53	1,554.83	6,179.84	6,103.34	76.49	80.789		
2,292.11	2,084.36	16,530.00	7,789.95	17.25	159.85	-159.80	1,780.53	1,554.83	6,101.93	6,025.39	76.55	79.717		
2,300.00	2,090.06	16,530.00	7,789.95	17.36	159.85	-159.80	1,780.53	1,554.83	6,095.34	6,018.79	76.55	79.630		
2,400.00	2,162.18	16,530.00	7,789.95	18.84	159.85	-159.80	1,780.53	1,554.83	6,012.07	5,935.41	76.66	78.423		
2,500.00	2,234.31	16,530.00	7,789.95	20.33	159.85	-159.80	1,780.53	1,554.83	5,929.33	5,852.51	76.82	77.185		
2,600.00	2,306.43	16,530.00	7,789.95	21.83	159.85	-159.80	1,780.53	1,554.83	5,847.12	5,770.10	77.02	75.919		
2,700.00	2,378.56	16,530.00	7,789.95	23.33	159.85	-159.80	1,780.53	1,554.83	5,765.47	5,688.21	77.26	74.626		
2,800.00	2,450.68	16,530.00	7,789.95	24.84	159.85	-159.80	1,780.53	1,554.83	5,684.41	5,606.87	77.54	73.309		
2,900.00	2,522.81	16,530.00	7,789.95	26.36	159.85	-159.80	1,780.53	1,554.83	5,603.97	5,526.10	77.87	71.968		
3,000.00	2,594.93	16,530.00	7,789.95	27.88	159.85	-159.80	1,780.53	1,554.83	5,524.16	5,445.91	78.24	70.603		
3,100.00	2,667.06	16,530.00	7,789.95	29.40	159.85	-159.80	1,780.53	1,554.83	5,445.01	5,366.35	78.67	69.217		
3,200.00	2,739.18	16,530.00	7,789.95	30.92	159.85	-159.80	1,780.53	1,554.83	5,366.57	5,287.43	79.14	67.808		
3,300.00	2,811.31	16,530.00	7,789.95	32.45	159.85	-159.80	1,780.53	1,554.83	5,288.85	5,209.18	79.68	66.379		
3,400.00	2,883.43	16,530.00	7,789.95	33.98	159.85	-159.80	1,780.53	1,554.83	5,211.89	5,131.62	80.27	64.930		
3,500.00	2,955.56	16,530.00	7,789.95	35.51	159.85	-159.80	1,780.53	1,554.83	5,135.73	5,054.80	80.93	63.462		
3,600.00	3,027.68	16,530.00	7,789.95	37.04	159.85	-159.80	1,780.53	1,554.83	5,060.39	4,978.74	81.65	61.976		
3,700.00	3,099.81	16,530.00	7,789.95	38.57	159.85	-159.80	1,780.53	1,554.83	4,985.93	4,903.48	82.45	60.474		
3,800.00	3,171.93	16,530.00	7,789.95	40.11	159.85	-159.80	1,780.53	1,554.83	4,912.37	4,829.05	83.32	58.957		
3,900.00	3,244.06	16,530.00	7,789.95	41.64	159.85	-159.80	1,780.53	1,554.83	4,839.76	4,755.48	84.28	57.427		
4,000.00	3,316.18	16,530.00	7,789.95	43.18	159.85	-159.80	1,780.53	1,554.83	4,768.14	4,682.82	85.32	55.886		
4,100.00	3,388.31	16,530.00	7,789.95	44.71	159.85	-159.80	1,780.53	1,554.83	4,697.55	4,611.10	86.45	54.337		
4,200.00	3,460.43	16,530.00	7,789.95	46.25	159.85	-159.80	1,780.53	1,554.83	4,628.05	4,540.37	87.68	52.783		
4,300.00	3,532.56	16,530.00	7,789.95	47.79	159.85	-159.80	1,780.53	1,554.83	4,559.69	4,470.68	89.01	51.227		
4,400.00	3,604.68	16,530.00	7,789.95	49.33	159.85	-159.80	1,780.53	1,554.83	4,492.51	4,402.07	90.44	49.672		
4,500.00	3,676.81	16,530.00	7,789.95	50.87	159.85	-159.80	1,780.53	1,554.83	4,426.57	4,334.58	91.99	48.122		
4,600.00	3,748.93	16,530.00	7,789.95	52.41	159.85	-159.80	1,780.53	1,554.83	4,361.93	4,268.28	93.64	46.580		
4,700.00	3,821.06	16,530.00	7,789.95	53.95	159.85	-159.80	1,780.53	1,554.83	4,298.64	4,203.22	95.42	45.052		
4,800.00	3,893.18	16,530.00	7,789.95	55.49	159.85	-159.80	1,780.53	1,554.83	4,236.76	4,139.46	97.31	43.540		
4,900.00	3,965.31	16,530.00	7,789.95	57.03	159.85	-159.80	1,780.53	1,554.83	4,176.37	4,077.05	99.32	42.049		
5,000.00	4,037.43	16,530.00	7,789.95	58.58	159.85	-159.80	1,780.53	1,554.83	4,117.52	4,016.06	101.46	40.583		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	16,530.00	7,789.95	60.12	159.85	-159.80	1,780.53	1,554.83	4,060.27	3,956.55	103.72	39.146		
5,200.00	4,181.68	16,530.00	7,789.95	61.66	159.85	-159.80	1,780.53	1,554.83	4,004.71	3,898.60	106.11	37.741		
5,300.00	4,253.81	16,530.00	7,789.95	63.20	159.85	-159.80	1,780.53	1,554.83	3,950.90	3,842.28	108.62	36.374		
5,400.00	4,325.93	16,530.00	7,789.95	64.75	159.85	-159.80	1,780.53	1,554.83	3,898.91	3,787.65	111.25	35.046		
5,500.00	4,398.06	16,530.00	7,789.95	66.29	159.85	-159.80	1,780.53	1,554.83	3,848.81	3,734.81	114.00	33.760		
5,600.00	4,470.18	16,530.00	7,789.95	67.84	159.85	-159.80	1,780.53	1,554.83	3,800.69	3,683.82	116.87	32.520		
5,700.00	4,542.31	16,530.00	7,789.95	69.38	159.85	-159.80	1,780.53	1,554.83	3,754.61	3,634.76	119.85	31.328		
5,800.00	4,614.43	16,530.00	7,789.95	70.92	159.85	-159.80	1,780.53	1,554.83	3,710.66	3,587.73	122.93	30.186		
5,900.00	4,686.56	16,530.00	7,789.95	72.47	159.85	-159.80	1,780.53	1,554.83	3,668.91	3,542.80	126.11	29.094		
6,000.00	4,758.68	16,530.00	7,789.95	74.01	159.85	-159.80	1,780.53	1,554.83	3,629.43	3,500.06	129.37	28.054		
6,100.00	4,830.81	16,530.00	7,789.95	75.56	159.85	-159.80	1,780.53	1,554.83	3,592.30	3,459.59	132.72	27.068		
6,200.00	4,902.93	16,530.00	7,789.95	77.10	159.85	-159.80	1,780.53	1,554.83	3,557.60	3,421.47	136.13	26.134		
6,300.00	4,975.06	16,530.00	7,789.95	78.65	159.85	-159.80	1,780.53	1,554.83	3,525.39	3,385.80	139.60	25.254		
6,400.00	5,047.18	16,530.00	7,789.95	80.19	159.85	-159.80	1,780.53	1,554.83	3,495.75	3,352.64	143.11	24.427		
6,500.00	5,119.31	16,530.00	7,789.95	81.74	159.85	-159.80	1,780.53	1,554.83	3,468.74	3,322.08	146.66	23.652		
6,600.00	5,191.43	16,530.00	7,789.95	83.28	159.85	-159.80	1,780.53	1,554.83	3,444.42	3,294.20	150.22	22.929		
6,700.00	5,263.56	16,530.00	7,789.95	84.83	159.85	-159.80	1,780.53	1,554.83	3,422.85	3,269.07	153.78	22.257		
6,800.00	5,335.68	16,530.00	7,789.95	86.37	159.85	-159.80	1,780.53	1,554.83	3,404.09	3,246.75	157.34	21.635		
6,900.00	5,407.81	16,530.00	7,789.95	87.92	159.85	-159.80	1,780.53	1,554.83	3,388.17	3,227.30	160.87	21.062		
7,000.00	5,479.93	16,530.00	7,789.95	89.47	159.85	-159.80	1,780.53	1,554.83	3,375.14	3,210.78	164.36	20.536		
7,100.00	5,552.06	16,530.00	7,789.95	91.01	159.85	-159.80	1,780.53	1,554.83	3,365.03	3,197.24	167.79	20.055		
7,200.00	5,624.18	16,530.00	7,789.95	92.56	159.85	-159.80	1,780.53	1,554.83	3,357.88	3,186.72	171.15	19.619		
7,300.00	5,696.31	16,530.00	7,789.95	94.10	159.85	-159.80	1,780.53	1,554.83	3,353.69	3,179.25	174.43	19.226		
7,390.59	5,761.65	16,530.00	7,789.95	95.50	159.85	-159.80	1,780.53	1,554.83	3,352.46	3,175.14	177.33	18.906 CC		
7,400.00	5,768.43	16,530.00	7,789.95	95.65	159.85	-159.80	1,780.53	1,554.83	3,352.48	3,174.85	177.62	18.874		
7,500.00	5,840.56	16,530.00	7,789.95	97.20	159.85	-159.80	1,780.53	1,554.83	3,354.25	3,173.54	180.70	18.562 ES		
7,600.00	5,912.68	16,530.00	7,789.95	98.74	159.85	-159.80	1,780.53	1,554.83	3,359.00	3,175.33	183.67	18.288		
7,700.00	5,984.81	16,530.00	7,789.95	100.29	159.85	-159.80	1,780.53	1,554.83	3,366.71	3,180.20	186.51	18.051		
7,800.00	6,056.93	16,530.00	7,789.95	101.84	159.85	-159.80	1,780.53	1,554.83	3,377.37	3,188.15	189.21	17.849		
7,900.00	6,129.06	16,530.00	7,789.95	103.38	159.85	-159.80	1,780.53	1,554.83	3,390.94	3,199.16	191.78	17.681		
8,000.00	6,201.18	16,530.00	7,789.95	104.93	159.85	-159.80	1,780.53	1,554.83	3,407.40	3,213.20	194.20	17.546		
8,100.00	6,273.31	16,530.00	7,789.95	106.48	159.85	-159.80	1,780.53	1,554.83	3,426.70	3,230.22	196.48	17.441		
8,200.00	6,345.43	16,530.00	7,789.95	108.02	159.85	-159.80	1,780.53	1,554.83	3,448.79	3,250.19	198.60	17.365		
8,300.00	6,417.56	16,530.00	7,789.95	109.57	159.85	-159.80	1,780.53	1,554.83	3,473.62	3,273.04	200.58	17.318		
8,400.00	6,489.68	16,530.00	7,789.95	111.12	159.85	-159.80	1,780.53	1,554.83	3,501.13	3,298.73	202.40	17.298 SF		
8,500.00	6,561.81	16,530.00	7,789.95	112.66	159.85	-159.80	1,780.53	1,554.83	3,531.26	3,327.19	204.07	17.304		
8,600.00	6,633.93	16,530.00	7,789.95	114.21	159.85	-159.80	1,780.53	1,554.83	3,563.94	3,358.34	205.60	17.334		
8,700.00	6,706.06	16,530.00	7,789.95	115.76	159.85	-159.80	1,780.53	1,554.83	3,599.10	3,392.12	206.99	17.388		
8,800.00	6,778.18	16,530.00	7,789.95	117.30	159.85	-159.80	1,780.53	1,554.83	3,636.68	3,428.44	208.23	17.464		
8,900.00	6,850.31	16,530.00	7,789.95	118.85	159.85	-159.80	1,780.53	1,554.83	3,676.59	3,467.24	209.35	17.562		
9,000.00	6,922.43	16,530.00	7,789.95	120.40	159.85	-159.80	1,780.53	1,554.83	3,718.76	3,508.43	210.33	17.680		
9,100.00	6,994.56	16,530.00	7,789.95	121.95	159.85	-159.80	1,780.53	1,554.83	3,763.12	3,551.92	211.20	17.818		
9,200.00	7,066.68	16,530.00	7,789.95	123.49	159.85	-159.80	1,780.53	1,554.83	3,809.59	3,597.64	211.95	17.974		
9,300.00	7,138.81	16,530.00	7,789.95	125.04	159.85	-159.80	1,780.53	1,554.83	3,858.09	3,645.50	212.59	18.148		
9,392.50	7,205.52	16,530.00	7,789.95	126.47	159.85	-159.80	1,780.53	1,554.83	3,904.69	3,691.60	213.09	18.324		
9,400.00	7,210.94	16,530.00	7,789.95	126.59	159.85	-161.01	1,780.53	1,554.83	3,908.55	3,695.42	213.13	18.339		
9,450.00	7,247.42	16,530.00	7,789.95	127.35	159.85	-169.30	1,780.53	1,554.83	3,934.68	3,721.29	213.39	18.439		
9,500.00	7,284.35	16,530.00	7,789.95	128.10	159.85	-177.91	1,780.53	1,554.83	3,961.41	3,747.74	213.66	18.541		
9,550.00	7,321.43	16,530.00	7,789.95	128.83	159.85	173.35	1,780.53	1,554.83	3,988.52	3,774.57	213.95	18.642		
9,600.00	7,358.38	16,530.00	7,789.95	129.52	159.85	164.65	1,780.53	1,554.83	4,015.80	3,801.56	214.24	18.744		
9,650.00	7,394.93	16,530.00	7,789.95	130.16	159.85	156.17	1,780.53	1,554.83	4,043.05	3,828.51	214.55	18.844		
9,700.00	7,430.79	16,530.00	7,789.95	130.76	159.85	148.08	1,780.53	1,554.83	4,070.06	3,855.20	214.86	18.943		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	16,530.00	7,789.95	131.30	159.85	140.49	1,780.53	1,554.83	4,096.63	3,881.46	215.18	19.038		
9,800.00	7,499.38	16,530.00	7,789.95	131.78	159.85	133.47	1,780.53	1,554.83	4,122.57	3,907.07	215.50	19.130		
9,850.00	7,531.58	16,530.00	7,789.95	132.21	159.85	127.06	1,780.53	1,554.83	4,147.70	3,931.86	215.83	19.217		
9,900.00	7,562.06	16,530.00	7,789.95	132.57	159.85	121.28	1,780.53	1,554.83	4,171.83	3,955.66	216.18	19.298		
9,950.00	7,590.58	16,530.00	7,789.95	132.87	159.85	116.12	1,780.53	1,554.83	4,194.81	3,978.28	216.53	19.373		
10,000.00	7,616.93	16,530.00	7,789.95	133.11	159.85	111.56	1,780.53	1,554.83	4,216.48	3,999.59	216.89	19.440		
10,050.00	7,640.90	16,530.00	7,789.95	133.29	159.85	107.56	1,780.53	1,554.83	4,236.70	4,019.43	217.27	19.500		
10,100.00	7,662.32	16,530.00	7,789.95	133.42	159.85	104.10	1,780.53	1,554.83	4,255.33	4,037.67	217.67	19.550		
10,150.00	7,681.01	16,530.00	7,789.95	133.50	159.85	101.14	1,780.53	1,554.83	4,272.26	4,054.18	218.08	19.590		
10,200.00	7,696.85	16,530.00	7,789.95	133.52	159.85	98.66	1,780.53	1,554.83	4,287.37	4,068.86	218.51	19.621		
10,250.00	7,709.70	16,530.00	7,789.95	133.51	159.85	96.64	1,780.53	1,554.83	4,300.58	4,081.61	218.97	19.640		
10,300.00	7,719.47	16,530.00	7,789.95	133.46	159.85	95.04	1,780.53	1,554.83	4,311.79	4,092.35	219.44	19.649		
10,350.00	7,726.09	16,530.00	7,789.95	133.37	159.85	93.85	1,780.53	1,554.83	4,320.95	4,101.01	219.94	19.646		
10,400.00	7,729.50	16,530.00	7,789.95	133.26	159.85	93.07	1,780.53	1,554.83	4,327.98	4,107.53	220.45	19.632		
10,427.79	7,730.00	16,530.00	7,789.95	133.18	159.85	92.80	1,780.53	1,554.83	4,330.96	4,110.21	220.75	19.619		
10,500.00	7,730.00	16,530.00	7,789.95	132.98	159.85	92.80	1,780.53	1,554.83	4,338.43	4,116.91	221.51	19.586		
10,600.00	7,730.00	16,530.00	7,789.95	132.72	159.85	92.80	1,780.53	1,554.83	4,350.72	4,128.21	222.51	19.553		
10,700.00	7,730.00	16,530.00	7,789.95	132.47	159.85	92.80	1,780.53	1,554.83	4,365.27	4,141.83	223.45	19.536		
10,800.00	7,730.00	16,530.00	7,789.95	132.22	159.85	92.80	1,780.53	1,554.83	4,382.06	4,157.75	224.31	19.536		
10,900.00	7,730.00	16,530.00	7,789.95	131.99	159.85	92.80	1,780.53	1,554.83	4,401.05	4,175.95	225.10	19.551		
11,000.00	7,730.00	16,530.00	7,789.95	131.77	159.85	92.80	1,780.53	1,554.83	4,422.23	4,196.41	225.82	19.583		
11,100.00	7,730.00	16,530.00	7,789.95	131.56	159.85	92.80	1,780.53	1,554.83	4,445.55	4,219.09	226.46	19.630		
11,200.00	7,730.00	16,530.00	7,789.95	131.36	159.85	92.80	1,780.53	1,554.83	4,470.99	4,243.96	227.03	19.693		
11,300.00	7,730.00	16,530.00	7,789.95	131.17	159.85	92.80	1,780.53	1,554.83	4,498.51	4,270.98	227.53	19.771		
11,400.00	7,730.00	16,530.00	7,789.95	130.99	159.85	92.80	1,780.53	1,554.83	4,528.07	4,300.12	227.94	19.865		
11,500.00	7,730.00	16,530.00	7,789.95	130.82	159.85	92.80	1,780.53	1,554.83	4,559.63	4,331.34	228.29	19.973		
11,600.00	7,730.00	16,530.00	7,789.95	130.66	159.85	92.80	1,780.53	1,554.83	4,593.15	4,364.60	228.56	20.096		
11,700.00	7,730.00	16,530.00	7,789.95	130.51	159.85	92.80	1,780.53	1,554.83	4,628.59	4,399.84	228.76	20.234		
11,800.00	7,730.00	16,530.00	7,789.95	130.37	159.85	92.80	1,780.53	1,554.83	4,665.91	4,437.02	228.89	20.385		
11,900.00	7,730.00	16,530.00	7,789.95	130.24	159.85	92.80	1,780.53	1,554.83	4,705.06	4,476.10	228.95	20.551		
12,000.00	7,730.00	16,530.00	7,789.95	130.13	159.85	92.80	1,780.53	1,554.83	4,745.98	4,517.04	228.95	20.729		
12,100.00	7,730.00	16,530.00	7,789.95	130.02	159.85	92.80	1,780.53	1,554.83	4,788.65	4,559.77	228.89	20.922		
12,200.00	7,730.00	16,530.00	7,789.95	129.93	159.85	92.80	1,780.53	1,554.83	4,833.01	4,604.25	228.76	21.127		
12,300.00	7,730.00	16,530.00	7,789.95	129.85	159.85	92.80	1,780.53	1,554.83	4,879.02	4,650.44	228.58	21.345		
12,400.00	7,730.00	16,530.00	7,789.95	129.77	159.85	92.80	1,780.53	1,554.83	4,926.63	4,698.28	228.35	21.575		
12,500.00	7,730.00	16,530.00	7,789.95	129.71	159.85	92.80	1,780.53	1,554.83	4,975.79	4,747.72	228.07	21.817		
12,600.00	7,730.00	16,530.00	7,789.95	129.66	159.85	92.80	1,780.53	1,554.83	5,026.46	4,798.73	227.74	22.071		
12,700.00	7,730.00	16,530.00	7,789.95	129.63	159.85	92.80	1,780.53	1,554.83	5,078.60	4,851.24	227.36	22.337		
12,800.00	7,730.00	16,530.00	7,789.95	129.60	159.85	92.80	1,780.53	1,554.83	5,132.15	4,905.21	226.95	22.614		
12,900.00	7,730.00	16,530.00	7,789.95	129.59	159.85	92.80	1,780.53	1,554.83	5,187.08	4,960.59	226.49	22.902		
13,000.00	7,730.00	16,530.00	7,789.95	129.59	159.85	92.80	1,780.53	1,554.83	5,243.34	5,017.34	226.00	23.200		
13,100.00	7,730.00	16,530.00	7,789.95	129.60	159.85	92.80	1,780.53	1,554.83	5,300.90	5,075.42	225.48	23.510		
13,200.00	7,730.00	16,530.00	7,789.95	129.63	159.85	92.80	1,780.53	1,554.83	5,359.69	5,134.77	224.92	23.829		
13,300.00	7,730.00	16,530.00	7,789.95	129.66	159.85	92.80	1,780.53	1,554.83	5,419.70	5,195.36	224.34	24.158		
13,400.00	7,730.00	16,530.00	7,789.95	129.72	159.85	92.80	1,780.53	1,554.83	5,480.87	5,257.14	223.74	24.497		
13,500.00	7,730.00	16,530.00	7,789.95	129.78	159.85	92.80	1,780.53	1,554.83	5,543.18	5,320.07	223.11	24.845		
13,600.00	7,730.00	16,530.00	7,789.95	129.86	159.85	92.80	1,780.53	1,554.83	5,606.57	5,384.11	222.46	25.203		
13,700.00	7,730.00	16,530.00	7,789.95	129.96	159.85	92.80	1,780.53	1,554.83	5,671.02	5,449.23	221.79	25.569		
13,800.00	7,730.00	16,530.00	7,789.95	130.07	159.85	92.80	1,780.53	1,554.83	5,736.49	5,515.38	221.11	25.944		
13,900.00	7,730.00	16,530.00	7,789.95	130.19	159.85	92.80	1,780.53	1,554.83	5,802.94	5,582.53	220.41	26.328		
14,000.00	7,730.00	16,530.00	7,789.95	130.33	159.85	92.80	1,780.53	1,554.83	5,870.35	5,650.65	219.70	26.720		
14,100.00	7,730.00	16,530.00	7,789.95	130.49	159.85	92.80	1,780.53	1,554.83	5,938.67	5,719.69	218.98	27.120		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	16,530.00	7,789.95	130.67	159.85	92.80	1,780.53	1,554.83	6,007.88	5,789.63	218.25	27.528		
14,300.00	7,730.00	16,530.00	7,789.95	130.86	159.85	92.80	1,780.53	1,554.83	6,077.95	5,860.44	217.51	27.943		
14,400.00	7,730.00	16,530.00	7,789.95	131.07	159.85	92.80	1,780.53	1,554.83	6,148.84	5,932.08	216.77	28.366		
14,500.00	7,730.00	16,530.00	7,789.95	131.30	159.85	92.80	1,780.53	1,554.83	6,220.54	6,004.52	216.02	28.797		
14,600.00	7,730.00	16,530.00	7,789.95	131.55	159.85	92.80	1,780.53	1,554.83	6,293.01	6,077.74	215.26	29.234		
14,700.00	7,730.00	16,530.00	7,789.95	131.82	159.85	92.80	1,780.53	1,554.83	6,366.22	6,151.71	214.51	29.678		
14,800.00	7,730.00	16,530.00	7,789.95	132.11	159.85	92.80	1,780.53	1,554.83	6,440.15	6,226.40	213.75	30.129		
14,900.00	7,730.00	16,530.00	7,789.95	132.42	159.85	92.80	1,780.53	1,554.83	6,514.78	6,301.79	212.99	30.587		
15,000.00	7,730.00	16,530.00	7,789.95	132.75	159.85	92.80	1,780.53	1,554.83	6,590.09	6,377.85	212.24	31.050		
15,100.00	7,730.00	16,530.00	7,789.95	133.10	159.85	92.80	1,780.53	1,554.83	6,666.04	6,454.56	211.48	31.521		
15,200.00	7,730.00	16,530.00	7,789.95	133.48	159.85	92.80	1,780.53	1,554.83	6,742.62	6,531.89	210.73	31.997		
15,300.00	7,730.00	16,530.00	7,789.95	133.88	159.85	92.80	1,780.53	1,554.83	6,819.80	6,609.83	209.98	32.479		
15,400.00	7,730.00	16,530.00	7,789.95	134.31	159.85	92.80	1,780.53	1,554.83	6,897.58	6,688.35	209.23	32.967		
15,500.00	7,730.00	16,530.00	7,789.95	134.76	159.85	92.80	1,780.53	1,554.83	6,975.91	6,767.43	208.49	33.460		
15,600.00	7,730.00	16,530.00	7,789.95	135.23	159.85	92.80	1,780.53	1,554.83	7,054.80	6,847.05	207.75	33.959		
15,700.00	7,730.00	16,530.00	7,789.95	135.73	159.85	92.80	1,780.53	1,554.83	7,134.22	6,927.21	207.01	34.463		
15,800.00	7,730.00	16,530.00	7,789.95	136.26	159.85	92.80	1,780.53	1,554.83	7,214.14	7,007.86	206.28	34.972		
15,900.00	7,730.00	16,530.00	7,789.95	136.81	159.85	92.80	1,780.53	1,554.83	7,294.57	7,089.01	205.56	35.487		
16,000.00	7,730.00	16,530.00	7,789.95	137.39	159.85	92.80	1,780.53	1,554.83	7,375.47	7,170.63	204.84	36.006		
16,100.00	7,730.00	16,530.00	7,789.95	138.00	159.85	92.80	1,780.53	1,554.83	7,456.83	7,252.70	204.13	36.530		
16,200.00	7,730.00	16,530.00	7,789.95	138.63	159.85	92.80	1,780.53	1,554.83	7,538.65	7,335.22	203.42	37.059		
16,300.00	7,730.00	16,530.00	7,789.95	139.30	159.85	92.80	1,780.53	1,554.83	7,620.89	7,418.17	202.73	37.592		
16,400.00	7,730.00	16,530.00	7,789.95	139.99	159.85	92.80	1,780.53	1,554.83	7,703.56	7,501.53	202.04	38.130		
16,500.00	7,730.00	16,530.00	7,789.95	140.70	159.85	92.80	1,780.53	1,554.83	7,786.63	7,585.28	201.35	38.672		
16,600.00	7,730.00	16,530.00	7,789.95	141.45	159.85	92.80	1,780.53	1,554.83	7,870.10	7,669.43	200.68	39.218		
16,700.00	7,730.00	16,530.00	7,789.95	142.22	159.85	92.80	1,780.53	1,554.83	7,953.95	7,753.94	200.01	39.769		
16,800.00	7,730.00	16,530.00	7,789.95	143.03	159.85	92.80	1,780.53	1,554.83	8,038.17	7,838.82	199.35	40.323		
16,900.00	7,730.00	16,530.00	7,789.95	143.86	159.85	92.80	1,780.53	1,554.83	8,122.75	7,924.05	198.69	40.881		
17,000.00	7,730.00	16,530.00	7,789.95	144.71	159.85	92.80	1,780.53	1,554.83	8,207.67	8,009.62	198.05	41.443		
17,100.00	7,730.00	16,530.00	7,789.95	145.60	159.85	92.80	1,780.53	1,554.83	8,292.93	8,095.52	197.41	42.009		
17,200.00	7,730.00	16,530.00	7,789.95	146.51	159.85	92.80	1,780.53	1,554.83	8,378.51	8,181.73	196.78	42.578		
17,300.00	7,730.00	16,530.00	7,789.95	147.44	159.85	92.80	1,780.53	1,554.83	8,464.41	8,268.26	196.16	43.151		
17,400.00	7,730.00	16,530.00	7,789.95	148.40	159.85	92.80	1,780.53	1,554.83	8,550.62	8,355.08	195.54	43.728		
17,500.00	7,730.00	16,530.00	7,789.95	149.39	159.85	92.80	1,780.53	1,554.83	8,637.13	8,442.19	194.94	44.307		
17,600.00	7,730.00	16,530.00	7,789.95	150.40	159.85	92.80	1,780.53	1,554.83	8,723.92	8,529.58	194.34	44.890		
17,700.00	7,730.00	16,530.00	7,789.95	151.44	159.85	92.80	1,780.53	1,554.83	8,810.99	8,617.25	193.75	45.476		
17,800.00	7,730.00	16,530.00	7,789.95	152.50	159.85	92.80	1,780.53	1,554.83	8,898.34	8,705.17	193.17	46.065		
17,900.00	7,730.00	16,530.00	7,789.95	153.58	159.85	92.80	1,780.53	1,554.83	8,985.95	8,793.36	192.59	46.658		
18,000.00	7,730.00	16,530.00	7,789.95	154.68	159.85	92.80	1,780.53	1,554.83	9,073.81	8,881.79	192.03	47.253		
18,100.00	7,730.00	16,530.00	7,789.95	155.80	159.85	92.80	1,780.53	1,554.83	9,161.93	8,970.46	191.47	47.851		
18,200.00	7,730.00	16,530.00	7,789.95	156.95	159.85	92.80	1,780.53	1,554.83	9,250.28	9,059.37	190.92	48.452		
18,300.00	7,730.00	16,530.00	7,789.95	158.11	159.85	92.80	1,780.53	1,554.83	9,338.88	9,148.50	190.38	49.055		
18,400.00	7,730.00	16,530.00	7,789.95	159.30	159.85	92.80	1,780.53	1,554.83	9,427.69	9,237.85	189.84	49.661		
18,500.00	7,730.00	16,530.00	7,789.95	160.50	159.85	92.80	1,780.53	1,554.83	9,516.74	9,327.42	189.31	50.270		
18,600.00	7,730.00	16,530.00	7,789.95	161.72	159.85	92.80	1,780.53	1,554.83	9,605.99	9,417.20	188.79	50.881		
18,700.00	7,730.00	16,530.00	7,789.95	162.96	159.85	92.80	1,780.53	1,554.83	9,695.46	9,507.18	188.28	51.495		
18,800.00	7,730.00	16,530.00	7,789.95	164.21	159.85	92.80	1,780.53	1,554.83	9,785.13	9,597.35	187.77	52.111		
18,900.00	7,730.00	16,530.00	7,789.95	165.48	159.85	92.80	1,780.53	1,554.83	9,875.00	9,687.72	187.28	52.729		
19,000.00	7,730.00	16,530.00	7,789.95	166.76	159.85	92.80	1,780.53	1,554.83	9,965.06	9,778.27	186.79	53.350		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-56.07	787.62	-1,170.93	1,411.22					
100.00	100.00	85.35	85.35	0.13	0.13	-56.08	787.65	-1,171.08	1,411.33	1,411.06	0.27	5,253.754 ES		
200.00	199.98	180.16	180.16	0.49	0.28	-126.57	787.75	-1,171.60	1,412.88	1,412.11	0.77	1,824.826		
300.00	299.84	277.05	277.05	0.86	0.62	-126.68	787.99	-1,172.37	1,416.81	1,415.33	1.48	958.780		
400.00	399.45	374.88	374.87	1.23	0.97	-126.86	788.42	-1,173.26	1,423.04	1,420.84	2.20	646.506		
500.00	498.70	480.28	480.27	1.63	1.35	-127.15	788.79	-1,174.04	1,431.21	1,428.25	2.96	482.991		
600.00	597.47	559.22	559.20	2.05	1.63	-127.37	789.09	-1,174.66	1,441.72	1,438.07	3.65	394.959		
700.00	695.62	612.00	611.95	2.51	1.83	-127.44	790.11	-1,176.03	1,456.82	1,452.56	4.26	341.617		
800.00	793.06	654.00	653.85	3.00	1.98	-127.37	792.29	-1,178.00	1,477.55	1,472.70	4.85	304.376		
900.00	889.64	716.25	715.75	3.53	2.21	-127.35	797.67	-1,181.76	1,503.32	1,497.78	5.53	271.635		
1,000.00	985.27	782.47	781.34	4.12	2.46	-127.29	805.52	-1,186.33	1,533.44	1,527.19	6.25	245.276		
1,100.00	1,079.82	857.05	855.05	4.75	2.74	-127.27	815.27	-1,192.13	1,567.08	1,560.05	7.03	223.006		
1,200.00	1,173.17	935.84	932.79	5.44	3.06	-127.28	826.27	-1,198.66	1,603.76	1,595.90	7.85	204.292		
1,300.00	1,265.21	1,017.60	1,013.36	6.18	3.40	-127.32	838.21	-1,205.80	1,643.27	1,634.55	8.72	188.462		
1,400.00	1,355.84	1,131.89	1,126.00	6.99	3.88	-127.65	855.63	-1,214.30	1,684.21	1,674.44	9.77	172.304		
1,500.00	1,444.94	1,220.29	1,213.17	7.87	4.26	-127.77	868.93	-1,220.38	1,726.94	1,716.19	10.75	160.685		
1,600.00	1,532.39	1,305.85	1,297.62	8.80	4.63	-127.89	881.28	-1,226.44	1,771.86	1,760.12	11.74	150.979		
1,700.00	1,618.11	1,417.19	1,407.59	9.81	5.10	-128.34	896.81	-1,234.32	1,819.07	1,806.18	12.88	141.227		
1,800.00	1,701.97	1,523.18	1,512.59	10.89	5.54	-128.77	910.17	-1,239.78	1,866.45	1,852.43	14.03	133.070		
1,900.00	1,783.88	1,601.55	1,590.23	12.04	5.87	-128.86	920.10	-1,243.65	1,916.23	1,901.17	15.06	127.241		
2,000.00	1,863.74	1,670.91	1,658.97	13.26	6.15	-128.83	928.54	-1,247.41	1,968.62	1,952.55	16.06	122.545		
2,100.00	1,941.45	1,733.47	1,721.01	14.55	6.41	-128.70	935.48	-1,251.51	2,023.93	2,006.89	17.04	118.747		
2,200.00	2,016.92	1,797.68	1,784.70	15.92	6.68	-128.58	942.10	-1,256.27	2,082.07	2,064.03	18.04	115.423		
2,292.11	2,084.36	1,889.21	1,875.51	17.25	7.05	-128.96	951.53	-1,262.80	2,137.63	2,118.49	19.14	111.675		
2,300.00	2,090.06	1,898.22	1,884.45	17.36	7.09	-129.11	952.52	-1,263.33	2,142.43	2,123.18	19.24	111.326		
2,400.00	2,162.18	1,962.59	1,948.30	18.84	7.36	-130.09	959.76	-1,267.13	2,203.57	2,183.32	20.25	108.811		
2,500.00	2,234.31	2,054.78	2,039.72	20.33	7.73	-131.43	970.38	-1,272.41	2,265.29	2,243.89	21.40	105.836		
2,600.00	2,306.43	2,136.62	2,120.92	21.83	8.07	-132.54	979.86	-1,276.14	2,326.69	2,304.20	22.49	103.468		
2,700.00	2,378.56	2,202.92	2,186.69	23.33	8.34	-133.40	987.73	-1,279.09	2,388.57	2,365.10	23.47	101.781		
2,800.00	2,450.68	2,265.04	2,248.29	24.84	8.60	-134.17	995.23	-1,282.05	2,451.14	2,426.73	24.41	100.420		
2,900.00	2,522.81	2,333.62	2,316.31	26.36	8.88	-134.99	1,003.25	-1,285.55	2,514.27	2,488.90	25.37	99.097		
3,000.00	2,594.93	2,400.28	2,382.46	27.88	9.15	-135.78	1,010.62	-1,289.13	2,577.88	2,551.58	26.30	98.001		
3,100.00	2,667.06	2,479.16	2,460.74	29.40	9.48	-136.66	1,019.39	-1,293.36	2,641.85	2,614.55	27.30	96.763		
3,200.00	2,739.18	2,559.73	2,540.66	30.92	9.81	-137.52	1,028.74	-1,297.24	2,705.85	2,677.55	28.30	95.599		
3,300.00	2,811.31	2,638.26	2,618.62	32.45	10.12	-138.32	1,037.51	-1,300.86	2,769.96	2,740.68	29.28	94.603		
3,400.00	2,883.43	2,718.93	2,698.75	33.98	10.45	-139.11	1,046.14	-1,304.43	2,834.16	2,803.90	30.26	93.670		
3,500.00	2,955.56	2,799.19	2,778.43	35.51	10.78	-139.85	1,055.26	-1,307.57	2,898.36	2,867.13	31.23	92.813		
3,600.00	3,027.68	2,874.35	2,853.03	37.04	11.08	-140.52	1,063.91	-1,310.37	2,962.70	2,930.54	32.16	92.127		
3,700.00	3,099.81	2,954.89	2,933.06	38.57	11.40	-141.22	1,072.46	-1,313.32	3,027.12	2,994.01	33.11	91.427		
3,800.00	3,171.93	2,997.43	2,975.35	40.11	11.57	-141.58	1,076.79	-1,315.09	3,092.04	3,058.24	33.80	91.490		
3,900.00	3,244.06	3,037.00	3,014.66	41.64	11.73	-141.91	1,080.87	-1,317.02	3,157.78	3,123.33	34.45	91.665		
4,000.00	3,316.18	3,080.93	3,058.26	43.18	11.91	-142.26	1,085.65	-1,319.54	3,224.37	3,189.24	35.12	91.802		
4,100.00	3,388.31	3,126.00	3,102.90	44.71	12.10	-142.61	1,090.99	-1,322.56	3,291.83	3,256.03	35.80	91.960		
4,200.00	3,460.43	3,182.89	3,159.21	46.25	12.34	-143.03	1,098.04	-1,326.65	3,359.87	3,323.32	36.55	91.919		
4,300.00	3,532.56	3,268.59	3,244.06	47.79	12.70	-143.64	1,108.42	-1,332.75	3,428.03	3,390.51	37.51	91.379		
4,400.00	3,604.68	3,365.06	3,339.76	49.33	13.10	-144.32	1,118.83	-1,339.05	3,495.80	3,457.27	38.54	90.716		
4,500.00	3,676.81	3,497.85	3,471.69	50.87	13.64	-145.23	1,132.15	-1,346.11	3,562.80	3,523.00	39.80	89.517		
4,600.00	3,748.93	3,556.74	3,530.18	52.41	13.87	-145.61	1,138.38	-1,348.82	3,629.50	3,588.96	40.54	89.524		
4,700.00	3,821.06	3,607.50	3,580.56	53.95	14.08	-145.92	1,144.13	-1,351.32	3,696.63	3,655.40	41.22	89.670		
4,800.00	3,893.18	3,660.00	3,632.60	55.49	14.30	-146.22	1,150.38	-1,354.22	3,764.31	3,722.39	41.92	89.804		
4,900.00	3,965.31	3,714.70	3,686.80	57.03	14.53	-146.53	1,156.95	-1,357.48	3,832.42	3,789.80	42.62	89.918		
5,000.00	4,037.43	3,802.51	3,773.89	58.58	14.89	-147.03	1,166.88	-1,362.81	3,900.72	3,857.15	43.57	89.535		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,887.14	3,857.96	60.12	15.23	-147.50	1,175.38	-1,367.45	3,968.59	3,924.12	44.47	89.242		
5,200.00	4,181.68	3,950.85	3,921.25	61.66	15.49	-147.85	1,181.78	-1,370.93	4,036.58	3,991.37	45.22	89.275		
5,300.00	4,253.81	4,007.51	3,977.51	63.20	15.72	-148.15	1,187.75	-1,374.17	4,104.87	4,058.97	45.91	89.417		
5,400.00	4,325.93	4,155.88	4,125.09	64.75	16.30	-148.93	1,201.03	-1,381.33	4,172.41	4,125.16	47.25	88.301		
5,500.00	4,398.06	4,219.74	4,188.72	66.29	16.55	-149.27	1,205.80	-1,384.00	4,239.70	4,191.74	47.97	88.388		
5,600.00	4,470.18	4,271.09	4,239.83	67.84	16.75	-149.52	1,210.17	-1,386.33	4,307.37	4,258.78	48.60	88.637		
5,700.00	4,542.31	4,321.41	4,289.86	69.38	16.95	-149.76	1,214.90	-1,388.82	4,375.46	4,326.24	49.22	88.898		
5,800.00	4,614.43	4,373.00	4,341.14	70.92	17.15	-150.00	1,219.80	-1,391.61	4,443.96	4,394.11	49.85	89.148		
5,900.00	4,686.56	4,434.84	4,402.59	72.47	17.40	-150.28	1,225.82	-1,395.15	4,512.75	4,462.20	50.56	89.260		
6,000.00	4,758.68	4,497.08	4,464.40	74.01	17.65	-150.55	1,232.11	-1,398.78	4,581.72	4,530.45	51.27	89.367		
6,100.00	4,830.81	4,552.13	4,519.07	75.56	17.88	-150.78	1,237.73	-1,402.14	4,650.94	4,599.02	51.92	89.575		
6,200.00	4,902.93	4,610.52	4,577.03	77.10	18.12	-151.02	1,243.72	-1,405.88	4,720.43	4,667.83	52.60	89.741		
6,300.00	4,975.06	4,700.37	4,666.16	78.65	18.48	-151.37	1,253.38	-1,411.71	4,790.10	4,736.56	53.54	89.475		
6,400.00	5,047.18	4,866.03	4,830.30	80.19	19.18	-151.93	1,274.27	-1,419.77	4,858.47	4,803.35	55.12	88.143		
6,500.00	5,119.31	4,931.45	4,895.06	81.74	19.45	-152.13	1,283.11	-1,422.47	4,926.56	4,870.68	55.89	88.150		
6,600.00	5,191.43	4,976.22	4,939.36	83.28	19.64	-152.27	1,289.26	-1,424.47	4,994.94	4,938.46	56.48	88.431		
6,700.00	5,263.56	5,027.12	4,989.68	84.83	19.86	-152.41	1,296.54	-1,427.02	5,063.72	5,006.59	57.13	88.633		
6,800.00	5,335.68	5,135.98	5,097.47	86.37	20.32	-152.74	1,310.75	-1,432.16	5,132.33	5,074.07	58.26	88.101		
6,900.00	5,407.81	5,216.11	5,177.03	87.92	20.64	-152.99	1,319.71	-1,435.62	5,200.70	5,141.58	59.11	87.978		
7,000.00	5,479.93	5,286.98	5,247.41	89.47	20.93	-153.21	1,327.44	-1,438.63	5,269.07	5,209.18	59.89	87.977		
7,100.00	5,552.06	5,363.71	5,323.60	91.01	21.24	-153.45	1,335.94	-1,441.87	5,337.45	5,276.73	60.72	87.905		
7,200.00	5,624.18	5,421.26	5,380.71	92.56	21.48	-153.61	1,342.56	-1,444.32	5,405.92	5,344.52	61.39	88.053		
7,300.00	5,696.31	5,463.00	5,422.10	94.10	21.65	-153.73	1,347.66	-1,446.22	5,474.65	5,412.71	61.94	88.387		
7,400.00	5,768.43	5,515.50	5,474.10	95.65	21.87	-153.86	1,354.30	-1,448.84	5,543.72	5,481.14	62.58	88.588		
7,500.00	5,840.56	5,564.52	5,522.64	97.20	22.07	-153.99	1,360.60	-1,451.57	5,613.20	5,550.01	63.19	88.835		
7,600.00	5,912.68	5,658.17	5,615.46	98.74	22.47	-154.23	1,371.98	-1,456.71	5,682.66	5,618.49	64.17	88.554		
7,700.00	5,984.81	5,711.31	5,668.19	100.29	22.68	-154.37	1,377.89	-1,459.64	5,752.16	5,687.36	64.80	88.772		
7,800.00	6,056.93	5,731.00	5,687.74	101.84	22.76	-154.43	1,379.97	-1,460.74	5,821.99	5,756.85	65.14	89.378		
7,900.00	6,129.06	5,778.88	5,735.24	103.38	22.96	-154.55	1,385.22	-1,463.72	5,892.17	5,826.45	65.72	89.659		
8,000.00	6,201.18	5,820.00	5,775.95	104.93	23.14	-154.65	1,390.13	-1,466.74	5,962.98	5,896.74	66.24	90.020		
8,100.00	6,273.31	5,862.51	5,817.99	106.48	23.32	-154.75	1,395.41	-1,470.07	6,034.14	5,967.36	66.78	90.360		
8,200.00	6,345.43	5,920.00	5,874.61	108.02	33.15	-155.01	1,408.31	-1,478.02	6,105.08	6,028.10	76.98	79.308		
8,300.00	6,417.56	6,071.00	6,024.59	109.57	24.19	-155.25	1,419.27	-1,484.79	6,175.59	6,106.67	68.92	89.610		
8,400.00	6,489.68	6,120.16	6,073.37	111.12	24.39	-155.37	1,424.40	-1,488.08	6,246.17	6,176.67	69.50	89.876		
8,500.00	6,561.81	6,163.23	6,116.09	112.66	24.57	-155.47	1,428.93	-1,491.15	6,317.06	6,247.03	70.03	90.211		
8,600.00	6,633.93	6,209.20	6,161.66	114.21	24.76	-155.58	1,433.83	-1,494.60	6,388.25	6,317.67	70.58	90.513		
8,700.00	6,706.06	6,256.27	6,208.30	115.76	24.96	-155.68	1,439.00	-1,498.31	6,459.70	6,388.56	71.14	90.801		
8,800.00	6,778.18	6,385.20	6,336.07	117.30	25.49	-155.97	1,453.10	-1,508.19	6,531.08	6,458.66	72.42	90.184		
8,900.00	6,850.31	6,652.57	6,601.55	118.85	26.58	-156.54	1,480.83	-1,523.35	6,601.20	6,526.36	74.84	88.200		
9,000.00	6,922.43	6,718.47	6,667.13	120.40	26.84	-156.69	1,486.77	-1,526.02	6,670.11	6,594.56	75.55	88.284		
9,100.00	6,994.56	6,769.54	6,717.98	121.95	27.04	-156.80	1,490.98	-1,528.19	6,739.20	6,663.07	76.13	88.519		
9,200.00	7,066.68	6,821.56	6,769.78	123.49	27.24	-156.92	1,495.19	-1,530.54	6,808.52	6,731.80	76.72	88.747		
9,300.00	7,138.81	6,875.22	6,823.20	125.04	27.44	-157.04	1,499.53	-1,533.10	6,878.05	6,800.73	77.32	88.961		
9,392.50	7,205.52	6,954.94	6,902.60	126.47	27.75	-157.22	1,505.44	-1,536.93	6,942.44	6,864.34	78.10	88.892		
9,400.00	7,210.94	6,962.35	6,910.00	126.59	27.77	-158.71	1,505.91	-1,537.27	6,947.66	6,869.49	78.17	88.879		
9,450.00	7,247.42	7,003.47	6,951.00	127.35	27.93	-168.88	1,508.30	-1,539.11	6,982.61	6,904.05	78.56	88.886		
9,500.00	7,284.35	7,040.84	6,988.29	128.10	28.06	-179.25	1,510.25	-1,540.75	7,017.69	6,938.79	78.89	88.951		
9,550.00	7,321.43	7,078.18	7,025.55	128.83	28.20	170.40	1,511.99	-1,542.37	7,052.63	6,973.42	79.21	89.038		
9,600.00	7,358.38	7,105.92	7,053.25	129.52	28.29	160.28	1,512.80	-1,543.57	7,087.22	7,007.80	79.42	89.241		
9,650.00	7,394.93	7,135.53	7,082.83	130.16	28.39	150.62	1,513.16	-1,544.84	7,121.19	7,041.58	79.61	89.446		
9,700.00	7,430.79	7,157.00	7,104.28	130.76	28.46	141.55	1,513.07	-1,545.75	7,154.32	7,074.58	79.73	89.726		
9,750.00	7,465.70	7,157.00	7,104.28	131.30	28.46	133.10	1,513.07	-1,545.75	7,186.46	7,106.76	79.69	90.176		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,157.00	7,104.28	131.78	28.46	125.42	1,513.07	-1,545.75	7,217.42	7,137.78	79.64	90.628		
9,850.00	7,531.58	7,157.00	7,104.28	132.21	28.46	118.53	1,513.07	-1,545.75	7,246.99	7,167.42	79.57	91.074		
9,900.00	7,562.06	7,157.00	7,104.28	132.57	28.46	112.42	1,513.07	-1,545.75	7,274.96	7,195.46	79.50	91.508		
9,950.00	7,590.58	7,157.00	7,104.28	132.87	28.46	107.07	1,513.07	-1,545.75	7,301.13	7,221.70	79.43	91.921		
10,000.00	7,616.93	7,157.00	7,104.28	133.11	28.46	102.42	1,513.07	-1,545.75	7,325.33	7,245.97	79.36	92.305		
10,050.00	7,640.90	7,196.12	7,143.31	133.29	28.57	98.73	1,511.50	-1,547.84	7,346.82	7,267.29	79.53	92.372		
10,100.00	7,662.32	7,200.35	7,147.52	133.42	28.58	95.38	1,511.20	-1,548.12	7,366.47	7,286.96	79.52	92.641		
10,150.00	7,681.01	7,204.23	7,151.37	133.50	28.59	92.59	1,510.89	-1,548.38	7,383.71	7,304.20	79.51	92.859		
10,200.00	7,696.85	7,207.71	7,154.83	133.52	28.60	90.32	1,510.60	-1,548.62	7,398.42	7,318.89	79.54	93.020		
10,250.00	7,709.70	7,210.76	7,157.87	133.51	28.60	88.53	1,510.33	-1,548.84	7,410.52	7,330.93	79.58	93.117		
10,300.00	7,719.47	7,246.00	7,192.74	133.46	28.70	87.44	1,506.20	-1,551.74	7,420.29	7,340.46	79.83	92.951		
10,350.00	7,726.09	7,246.00	7,192.74	133.37	28.70	86.52	1,506.20	-1,551.74	7,426.88	7,346.96	79.93	92.920		
10,400.00	7,729.50	7,246.00	7,192.74	133.26	28.70	86.03	1,506.20	-1,551.74	7,430.70	7,350.64	80.06	92.812		
10,427.79	7,730.00	7,246.00	7,192.74	133.18	28.70	85.93	1,506.20	-1,551.74	7,431.61	7,351.46	80.15	92.718		
10,500.00	7,730.00	7,246.00	7,192.74	132.98	28.70	85.93	1,506.20	-1,551.74	7,433.19	7,352.78	80.41	92.436		
10,600.00	7,730.00	7,246.00	7,192.74	132.72	28.70	85.93	1,506.20	-1,551.74	7,436.55	7,355.75	80.80	92.035		
10,700.00	7,730.00	7,246.00	7,192.74	132.47	28.70	85.93	1,506.20	-1,551.74	7,441.24	7,360.03	81.22	91.623		
10,800.00	7,730.00	7,246.00	7,192.74	132.22	28.70	85.93	1,506.20	-1,551.74	7,447.28	7,365.62	81.66	91.203		
10,900.00	7,730.00	7,246.00	7,192.74	131.99	28.70	85.93	1,506.20	-1,551.74	7,454.65	7,372.53	82.12	90.776		
11,000.00	7,730.00	11,000.00	7,921.03	131.77	49.57	91.54	766.76	-1,596.21	7,456.57	7,368.77	87.81	84.919		
11,100.00	7,730.00	8,629.12	7,928.79	131.56	30.50	91.61	515.98	-1,593.30	7,455.38	7,375.24	80.14	93.030		
11,200.00	7,730.00	8,671.00	7,928.59	131.36	30.73	91.60	474.11	-1,592.54	7,453.20	7,372.55	80.66	92.407		
11,300.00	7,730.00	8,671.00	7,928.59	131.17	30.73	91.60	474.11	-1,592.54	7,452.09	7,370.84	81.25	91.714		
11,371.47	7,730.00	8,709.78	7,928.13	131.03	30.98	91.60	435.33	-1,592.34	7,451.67	7,369.98	81.69	91.221		
11,400.00	7,730.00	8,716.22	7,928.04	130.99	31.02	91.60	428.89	-1,592.37	7,451.71	7,369.85	81.86	91.029		
11,500.00	7,730.00	8,760.00	7,927.22	130.82	31.29	91.59	385.12	-1,593.11	7,452.66	7,370.16	82.50	90.335		
11,600.00	7,730.00	8,760.00	7,927.22	130.66	31.29	91.59	385.12	-1,593.11	7,454.38	7,371.20	83.17	89.626		
11,700.00	7,730.00	8,792.31	7,926.73	130.51	31.52	91.59	352.83	-1,594.14	7,457.21	7,373.32	83.89	88.894		
11,800.00	7,730.00	9,115.83	7,938.28	130.37	34.19	91.68	29.73	-1,602.37	7,460.65	7,375.15	85.50	87.261		
11,900.00	7,730.00	9,244.41	7,940.91	130.24	35.45	91.70	-98.81	-1,602.92	7,460.82	7,373.91	86.91	85.849		
12,000.00	7,730.00	9,412.62	7,943.70	130.13	37.22	91.72	-267.01	-1,602.45	7,460.23	7,371.45	88.77	84.036		
12,100.00	7,730.00	9,536.63	7,945.99	130.02	38.63	91.74	-390.99	-1,601.41	7,459.11	7,368.57	90.54	82.384		
12,200.00	7,730.00	9,644.30	7,947.49	129.93	39.90	91.75	-498.64	-1,600.22	7,457.71	7,365.41	92.30	80.802		
12,300.00	7,730.00	9,740.00	7,948.00	129.85	41.07	91.75	-594.33	-1,598.81	7,455.94	7,361.90	94.04	79.287		
12,400.00	7,730.00	9,793.58	7,948.08	129.77	41.75	91.75	-647.90	-1,598.20	7,454.66	7,359.24	95.42	78.127		
12,490.35	7,730.00	9,829.00	7,948.24	129.72	42.20	91.75	-683.32	-1,598.23	7,454.37	7,357.82	96.55	77.206		
12,500.00	7,730.00	9,829.00	7,948.24	129.71	42.20	91.75	-683.32	-1,598.23	7,454.37	7,357.74	96.63	77.142		
12,600.00	7,730.00	9,907.97	7,949.07	129.66	43.21	91.76	-762.29	-1,598.73	7,454.69	7,356.33	98.36	75.793		
12,700.00	7,730.00	10,009.78	7,950.28	129.63	44.55	91.77	-864.09	-1,599.46	7,455.11	7,354.70	100.40	74.250		
12,800.00	7,730.00	10,132.43	7,950.43	129.60	46.21	91.77	-986.73	-1,600.01	7,455.19	7,352.40	102.79	72.527		
12,900.00	7,730.00	10,206.17	7,949.27	129.59	47.23	91.76	-1,060.46	-1,600.48	7,455.45	7,350.82	104.63	71.258		
13,000.00	7,730.00	10,276.26	7,948.79	129.59	48.20	91.76	-1,130.54	-1,601.18	7,456.09	7,349.63	106.45	70.041		
13,100.00	7,730.00	10,412.72	7,948.64	129.60	50.14	91.76	-1,267.00	-1,602.46	7,456.69	7,347.44	109.25	68.252		
13,200.00	7,730.00	10,545.87	7,947.65	129.63	52.06	91.75	-1,400.15	-1,603.10	7,456.80	7,344.70	112.10	66.517		
13,300.00	7,730.00	10,689.76	7,947.53	129.66	54.18	91.75	-1,544.04	-1,603.17	7,456.55	7,341.33	115.23	64.712		
13,400.00	7,730.00	10,848.83	7,951.54	129.72	56.57	91.78	-1,703.04	-1,601.36	7,454.97	7,336.24	118.72	62.792		
13,500.00	7,730.00	10,901.89	7,952.08	129.78	57.38	91.78	-1,756.09	-1,600.92	7,453.82	7,333.29	120.53	61.841		
13,600.00	7,730.00	11,097.05	7,950.90	129.86	60.37	91.78	-1,951.23	-1,598.44	7,452.05	7,327.27	124.78	59.722		
13,700.00	7,730.00	13,700.00	7,952.24	129.96	101.16	91.79	-2,076.81	-1,596.30	7,450.13	7,283.33	166.80	44.666		
13,800.00	7,730.00	11,302.62	7,954.06	130.07	63.59	91.80	-2,156.72	-1,594.29	7,447.43	7,317.10	130.33	57.143		
13,900.00	7,730.00	11,344.00	7,954.85	130.19	64.24	91.81	-2,198.08	-1,593.78	7,445.75	7,313.72	132.03	56.395		
14,000.00	7,730.00	14,000.00	7,956.27	130.33	106.49	91.82	-2,339.35	-1,592.20	7,444.44	7,268.80	175.63	42.386		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	11,568.68	7,957.24	130.49	67.80	91.83	-2,422.73	-1,590.74	7,442.42	7,304.30	138.11	53.886		
14,200.00	7,730.00	11,622.39	7,958.67	130.67	68.66	91.84	-2,476.42	-1,590.16	7,441.04	7,300.94	140.09	53.115		
14,300.00	7,730.00	11,826.46	7,959.71	130.86	71.95	91.85	-2,680.44	-1,586.98	7,439.09	7,294.09	145.00	51.302		
14,400.00	7,730.00	11,901.04	7,957.75	131.07	73.16	91.83	-2,754.98	-1,585.47	7,436.67	7,289.25	147.42	50.444		
14,500.00	7,730.00	11,968.00	7,955.32	131.30	74.24	91.81	-2,821.89	-1,584.61	7,434.87	7,285.17	149.70	49.665		
14,600.00	7,730.00	11,968.00	7,955.32	131.55	74.24	91.81	-2,821.89	-1,584.61	7,433.81	7,283.16	150.65	49.344		
14,662.95	7,730.00	11,999.47	7,954.13	131.72	74.75	91.80	-2,853.34	-1,584.56	7,433.56	7,281.68	151.88	48.945		
14,700.00	7,730.00	12,008.51	7,953.81	131.82	74.90	91.80	-2,862.36	-1,584.62	7,433.64	7,281.24	152.40	48.776		
14,800.00	7,730.00	12,057.00	7,952.25	132.11	75.69	91.79	-2,910.83	-1,585.53	7,434.72	7,280.41	154.32	48.178		
14,900.00	7,730.00	12,057.00	7,952.25	132.42	75.69	91.79	-2,910.83	-1,585.53	7,436.50	7,281.25	155.25	47.900		
15,000.00	7,730.00	12,124.00	7,950.25	132.75	76.78	91.77	-2,977.76	-1,587.60	7,439.17	7,281.63	157.53	47.223		
15,100.00	7,730.00	12,182.50	7,948.64	133.10	77.73	91.76	-3,036.20	-1,589.69	7,442.32	7,282.67	159.65	46.616		
15,200.00	7,730.00	12,365.29	7,946.03	133.48	80.71	91.74	-3,218.86	-1,596.03	7,445.57	7,281.21	164.36	45.299		
15,300.00	7,730.00	12,619.08	7,952.05	133.88	84.90	91.79	-3,472.51	-1,599.67	7,446.53	7,275.83	170.70	43.623		
15,400.00	7,730.00	12,650.05	7,953.61	134.31	85.41	91.80	-3,503.43	-1,599.96	7,447.27	7,274.96	172.31	43.220		
15,500.00	7,730.00	12,680.00	7,955.27	134.76	85.91	91.81	-3,533.34	-1,600.50	7,448.94	7,275.05	173.89	42.837		
15,600.00	7,730.00	12,730.79	7,957.61	135.23	86.75	91.83	-3,584.05	-1,601.84	7,451.40	7,275.48	175.92	42.358		
15,700.00	7,730.00	12,800.12	7,958.94	135.73	87.90	91.84	-3,653.33	-1,604.23	7,454.51	7,276.17	178.34	41.799		
15,800.00	7,730.00	12,918.70	7,958.65	136.26	89.86	91.83	-3,771.84	-1,608.23	7,457.53	7,275.67	181.85	41.008		
15,900.00	7,730.00	13,069.52	7,956.47	136.81	92.37	91.82	-3,922.57	-1,612.76	7,460.15	7,274.05	186.10	40.087		
16,000.00	7,730.00	13,273.03	7,952.59	137.39	95.78	91.79	-4,125.99	-1,616.38	7,461.31	7,269.76	191.56	38.951		
16,100.00	7,730.00	13,329.28	7,953.15	138.00	96.72	91.79	-4,182.23	-1,617.21	7,462.49	7,268.75	193.75	38.517		
16,200.00	7,730.00	13,661.63	7,958.39	138.63	102.34	91.83	-4,514.49	-1,617.64	7,462.13	7,259.90	202.23	36.899		
16,300.00	7,730.00	16,300.00	7,966.13	139.30	147.40	91.89	-4,757.23	-1,612.68	7,460.30	7,210.57	249.73	29.873		
16,400.00	7,730.00	13,965.84	7,967.03	139.99	107.52	91.90	-4,818.46	-1,610.55	7,456.71	7,245.58	211.13	35.318		
16,500.00	7,730.00	14,017.00	7,968.03	140.70	108.39	91.91	-4,869.60	-1,609.75	7,454.46	7,241.19	213.28	34.952		
16,600.00	7,730.00	14,017.00	7,968.03	141.45	108.39	91.91	-4,869.60	-1,609.75	7,452.77	7,238.53	214.23	34.788		
16,700.00	7,730.00	14,051.17	7,968.83	142.22	108.97	91.91	-4,903.76	-1,609.71	7,452.25	7,236.29	215.96	34.507		
16,721.61	7,730.00	14,061.77	7,969.08	142.39	109.15	91.92	-4,914.36	-1,609.73	7,452.23	7,235.82	216.41	34.436		
16,800.00	7,730.00	14,106.00	7,970.14	143.03	109.91	91.92	-4,958.58	-1,609.98	7,452.45	7,234.28	218.17	34.159		
16,900.00	7,730.00	14,170.59	7,971.57	143.86	111.01	91.93	-5,023.15	-1,610.65	7,453.20	7,232.60	220.60	33.786		
17,000.00	7,730.00	14,256.65	7,972.84	144.71	112.47	91.94	-5,109.18	-1,611.82	7,454.26	7,230.72	223.54	33.347		
17,100.00	7,730.00	14,329.60	7,973.13	145.60	113.71	91.95	-5,182.13	-1,612.97	7,455.53	7,229.36	226.17	32.965		
17,200.00	7,730.00	14,536.18	7,978.24	146.51	117.24	91.98	-5,388.62	-1,615.19	7,456.40	7,224.39	232.00	32.139		
17,299.47	7,730.00	14,640.00	7,980.33	147.44	119.02	92.00	-5,492.42	-1,615.05	7,455.99	7,220.59	235.40	31.674		
17,300.00	7,730.00	14,640.00	7,980.33	147.44	119.02	92.00	-5,492.42	-1,615.05	7,455.99	7,220.58	235.40	31.674		
17,353.63	7,730.00	14,671.83	7,980.67	147.95	119.57	92.00	-5,524.25	-1,615.04	7,455.91	7,219.26	236.65	31.506		
17,400.00	7,730.00	14,683.50	7,980.85	148.40	119.76	92.00	-5,535.91	-1,615.14	7,456.16	7,218.81	237.35	31.414		
17,500.00	7,730.00	14,730.00	7,981.85	149.39	120.56	92.01	-5,582.39	-1,616.05	7,457.55	7,218.19	239.36	31.156		
17,600.00	7,730.00	15,031.97	7,989.55	150.40	125.74	92.07	-5,884.17	-1,618.01	7,458.50	7,210.94	247.56	30.128		
17,700.00	7,730.00	15,086.00	7,989.84	151.44	126.67	92.07	-5,938.20	-1,617.79	7,457.69	7,207.90	249.79	29.856		
17,800.00	7,730.00	15,264.00	7,993.18	152.50	129.74	92.10	-6,116.16	-1,616.06	7,456.36	7,201.35	255.01	29.239		
17,900.00	7,730.00	15,264.00	7,993.18	153.58	129.74	92.10	-6,116.16	-1,616.06	7,455.38	7,199.44	255.94	29.130		
18,000.00	7,730.00	15,317.25	7,993.85	154.68	130.65	92.11	-6,169.40	-1,615.69	7,454.85	7,196.71	258.14	28.879		
18,041.57	7,730.00	15,629.48	7,998.92	155.14	136.05	92.15	-6,481.48	-1,611.86	7,454.22	7,188.12	266.09	28.013		
18,100.00	7,730.00	15,672.47	7,999.85	155.80	136.80	92.15	-6,524.44	-1,610.59	7,452.34	7,184.64	267.70	27.839		
18,200.00	7,730.00	15,760.45	8,001.69	156.95	138.32	92.17	-6,612.37	-1,608.20	7,449.36	7,178.58	270.79	27.510		
18,300.00	7,730.00	15,840.88	8,005.24	158.11	139.72	92.20	-6,692.69	-1,606.02	7,446.49	7,172.79	273.70	27.207		
18,400.00	7,730.00	16,016.51	8,012.15	159.30	142.77	92.25	-6,868.12	-1,601.06	7,443.61	7,164.69	278.92	26.687		
18,500.00	7,730.00	16,066.00	8,013.49	160.50	143.63	92.26	-6,917.56	-1,599.31	7,440.06	7,158.96	281.10	26.468		
18,600.00	7,730.00	16,121.83	8,015.09	161.72	144.60	92.27	-6,973.34	-1,597.69	7,437.11	7,153.70	283.41	26.241		
18,700.00	7,730.00	16,155.00	8,016.36	162.96	145.18	92.28	-7,006.48	-1,597.09	7,435.13	7,149.96	285.17	26.073		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,800.00	7,730.00	16,204.25	8,018.36	164.21	146.04	92.30	-7,055.68	-1,596.57	7,433.93	7,146.62	287.30	25.875	
18,900.00	7,730.00	16,360.87	8,023.77	165.48	148.75	92.34	-7,212.20	-1,595.39	7,433.12	7,141.02	292.10	25.447	
19,000.00	7,730.00	16,453.33	8,025.55	166.76	150.36	92.36	-7,304.64	-1,594.19	7,431.57	7,136.25	295.31	25.165	
19,100.00	7,730.00	16,539.47	8,026.03	168.06	151.86	92.36	-7,390.77	-1,593.22	7,430.13	7,131.77	298.37	24.903	
19,200.00	7,730.00	16,601.00	8,025.59	169.38	152.93	92.36	-7,452.30	-1,592.72	7,429.00	7,128.20	300.80	24.697	
19,300.00	7,730.00	16,644.18	8,025.31	170.70	153.67	92.36	-7,495.47	-1,592.64	7,428.53	7,125.76	302.77	24.535	
19,303.84	7,730.00	16,645.58	8,025.31	170.75	153.70	92.36	-7,496.87	-1,592.65	7,428.53	7,125.69	302.84	24.530	
19,400.00	7,730.00	16,690.00	8,025.59	172.04	154.47	92.36	-7,541.29	-1,593.02	7,428.94	7,124.15	304.79	24.374	
19,500.00	7,730.00	16,726.81	8,026.05	173.40	155.11	92.36	-7,578.09	-1,593.60	7,430.13	7,123.56	306.56	24.237	
19,600.00	7,730.00	16,900.29	8,028.99	174.76	158.11	92.38	-7,751.52	-1,596.44	7,431.73	7,119.89	311.84	23.832	
19,700.00	7,730.00	17,057.05	8,034.31	176.14	160.83	92.42	-7,908.19	-1,597.36	7,432.24	7,115.54	316.70	23.468	
19,800.00	7,730.00	17,163.34	8,036.21	177.52	162.68	92.44	-8,014.46	-1,597.37	7,431.99	7,111.72	320.27	23.205	
19,899.63	7,730.00	17,241.53	8,036.87	178.92	164.04	92.44	-8,092.65	-1,597.44	7,431.79	7,108.67	323.12	23.000	
19,900.00	7,730.00	17,241.73	8,036.87	178.92	164.05	92.44	-8,092.85	-1,597.44	7,431.79	7,108.66	323.13	22.999	
20,000.00	7,730.00	17,296.20	8,036.87	180.33	164.99	92.44	-8,147.31	-1,597.80	7,432.10	7,106.73	325.38	22.842	
20,100.00	7,730.00	17,461.53	8,033.98	181.75	167.86	92.42	-8,312.61	-1,598.86	7,432.37	7,101.92	330.45	22.492	
20,184.95	7,730.00	17,546.00	8,031.39	182.96	169.33	92.40	-8,397.04	-1,598.97	7,432.08	7,098.74	333.34	22.296 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-55.84	787.62	-1,160.85	1,402.86					
100.00	100.00	97.31	97.31	0.13	0.15	-55.85	787.43	-1,160.68	1,402.59	1,402.31	0.28	4,994.898		
135.00	135.00	135.14	135.14	0.26	0.20	-126.31	787.25	-1,160.51	1,402.50	1,402.04	0.46	3,035.707	CC, ES	
200.00	199.98	197.77	197.77	0.49	0.42	-126.36	786.95	-1,160.22	1,402.98	1,402.07	0.91	1,546.527		
300.00	299.84	293.15	293.14	0.86	0.76	-126.48	786.66	-1,159.96	1,405.70	1,404.08	1.61	871.939		
400.00	399.45	392.92	392.92	1.23	1.12	-126.68	786.55	-1,159.80	1,410.71	1,408.37	2.34	602.628		
500.00	498.70	494.00	494.00	1.63	1.48	-126.97	786.47	-1,159.47	1,417.74	1,414.65	3.09	459.309		
600.00	597.47	567.34	567.33	2.05	1.73	-127.17	786.74	-1,159.49	1,427.54	1,423.79	3.75	381.118		
700.00	695.62	632.52	632.49	2.51	1.95	-127.30	788.39	-1,160.41	1,441.79	1,437.40	4.39	328.517		
800.00	793.06	695.95	695.78	3.00	2.17	-127.35	792.25	-1,161.58	1,460.47	1,455.43	5.05	289.468		
900.00	889.64	763.00	762.50	3.53	2.40	-127.35	798.59	-1,163.48	1,483.75	1,478.01	5.74	258.537		
1,000.00	985.27	833.16	832.13	4.12	2.65	-127.33	806.81	-1,165.99	1,510.98	1,504.51	6.47	233.450		
1,100.00	1,079.82	922.98	921.16	4.75	2.99	-127.43	818.26	-1,169.25	1,541.03	1,533.72	7.31	210.680		
1,200.00	1,173.17	1,009.02	1,006.37	5.44	3.33	-127.52	829.74	-1,172.42	1,573.62	1,565.44	8.18	192.419		
1,300.00	1,265.21	1,090.25	1,086.73	6.18	3.65	-127.58	841.14	-1,175.60	1,608.93	1,599.87	9.06	177.658		
1,400.00	1,355.84	1,177.88	1,173.36	6.99	4.00	-127.71	853.85	-1,179.22	1,646.87	1,636.87	10.00	164.740		
1,500.00	1,444.94	1,271.12	1,265.64	7.87	4.38	-127.94	866.54	-1,183.43	1,687.01	1,676.02	10.99	153.456		
1,600.00	1,532.39	1,360.32	1,354.00	8.80	4.74	-128.18	877.98	-1,187.57	1,729.28	1,717.28	12.00	144.103		
1,700.00	1,618.11	1,442.85	1,435.62	9.81	5.08	-128.31	889.71	-1,190.84	1,773.92	1,760.91	13.01	136.325		
1,800.00	1,701.97	1,516.76	1,508.50	10.89	5.40	-128.27	901.83	-1,193.26	1,821.16	1,807.14	14.02	129.920		
1,900.00	1,783.88	1,630.15	1,620.19	12.04	5.89	-128.67	921.06	-1,196.44	1,870.65	1,855.38	15.27	122.514		
2,000.00	1,863.74	1,700.25	1,689.29	13.26	6.19	-128.58	932.85	-1,197.73	1,921.59	1,905.27	16.31	117.791		
2,100.00	1,941.45	1,762.36	1,750.48	14.55	6.46	-128.36	943.36	-1,199.34	1,975.42	1,958.09	17.33	113.981		
2,200.00	2,016.92	1,833.30	1,820.32	15.92	6.77	-128.23	955.52	-1,201.80	2,032.21	2,013.80	18.42	110.349		
2,292.11	2,084.36	1,970.70	1,956.00	17.25	7.36	-129.13	977.00	-1,204.53	2,085.18	2,065.33	19.85	105.042		
2,300.00	2,090.06	1,981.32	1,966.53	17.36	7.41	-129.28	978.39	-1,204.65	2,089.71	2,069.74	19.97	104.656		
2,400.00	2,162.18	2,059.80	2,044.40	18.84	7.73	-130.41	988.07	-1,205.48	2,147.20	2,126.11	21.09	101.814		
2,500.00	2,234.31	2,125.95	2,110.06	20.33	8.00	-131.33	996.02	-1,206.32	2,205.35	2,183.22	22.12	99.684		
2,600.00	2,306.43	2,188.84	2,172.50	21.83	8.25	-132.17	1,003.53	-1,207.44	2,264.36	2,241.24	23.12	97.941		
2,700.00	2,378.56	2,251.76	2,234.94	23.33	8.51	-132.98	1,011.17	-1,208.82	2,324.20	2,300.10	24.10	96.446		
2,800.00	2,450.68	2,324.84	2,307.45	24.84	8.80	-133.88	1,020.02	-1,210.60	2,384.67	2,359.55	25.12	94.926		
2,900.00	2,522.81	2,392.89	2,375.02	26.36	9.08	-134.70	1,027.91	-1,212.37	2,445.59	2,419.50	26.09	93.722		
3,000.00	2,594.93	2,462.68	2,444.35	27.88	9.36	-135.53	1,035.58	-1,214.48	2,507.09	2,480.03	27.06	92.657		
3,100.00	2,667.06	2,536.66	2,517.87	29.40	9.65	-136.36	1,043.63	-1,216.70	2,568.96	2,540.93	28.03	91.642		
3,200.00	2,739.18	2,605.83	2,586.60	30.92	9.93	-137.12	1,051.05	-1,218.80	2,631.19	2,602.22	28.96	90.850		
3,300.00	2,811.31	2,689.31	2,669.61	32.45	10.26	-138.00	1,059.46	-1,221.51	2,693.83	2,663.86	29.96	89.903		
3,400.00	2,883.43	2,847.09	2,826.59	33.98	10.88	-139.56	1,075.13	-1,223.73	2,755.55	2,724.13	31.42	87.714		
3,500.00	2,955.56	2,939.31	2,918.13	35.51	11.25	-140.36	1,086.24	-1,222.54	2,815.77	2,783.29	32.49	86.674		
3,600.00	3,027.68	2,986.11	2,964.52	37.04	11.44	-140.74	1,092.40	-1,222.04	2,876.60	2,843.33	33.26	86.484		
3,700.00	3,099.81	3,039.88	3,017.79	38.57	11.66	-141.16	1,099.66	-1,221.95	2,938.33	2,904.25	34.07	86.243		
3,800.00	3,171.93	3,100.97	3,078.32	40.11	11.91	-141.62	1,107.92	-1,222.16	3,000.66	2,965.74	34.92	85.934		
3,900.00	3,244.06	3,175.70	3,152.40	41.64	12.22	-142.18	1,117.75	-1,222.59	3,063.31	3,027.46	35.85	85.448		
4,000.00	3,316.18	3,262.57	3,238.50	43.18	12.58	-142.80	1,129.25	-1,223.02	3,126.10	3,089.24	36.86	84.810		
4,100.00	3,388.31	3,350.09	3,325.36	44.71	12.93	-143.42	1,140.00	-1,223.03	3,188.59	3,150.73	37.86	84.224		
4,200.00	3,460.43	3,412.88	3,387.75	46.25	13.18	-143.85	1,147.11	-1,223.08	3,251.22	3,212.55	38.67	84.077		
4,300.00	3,532.56	3,458.00	3,432.58	47.79	13.37	-144.16	1,152.22	-1,223.46	3,314.57	3,275.22	39.35	84.239		
4,400.00	3,604.68	3,499.33	3,473.62	49.33	13.53	-144.44	1,157.06	-1,224.14	3,378.73	3,338.74	39.99	84.492		
4,500.00	3,676.81	3,536.54	3,510.50	50.87	13.69	-144.67	1,161.90	-1,225.09	3,443.78	3,403.19	40.60	84.832		
4,600.00	3,748.93	3,576.84	3,550.34	52.41	13.86	-144.91	1,167.76	-1,226.48	3,509.71	3,468.49	41.22	85.147		
4,700.00	3,821.06	3,670.08	3,642.60	53.95	14.25	-145.44	1,180.83	-1,229.84	3,575.86	3,533.61	42.25	84.627		
4,800.00	3,893.18	3,771.72	3,743.50	55.49	14.67	-146.05	1,192.73	-1,232.92	3,641.51	3,598.19	43.32	84.069		
4,900.00	3,965.31	3,846.26	3,817.55	57.03	14.97	-146.49	1,200.94	-1,234.98	3,707.07	3,662.91	44.16	83.942		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,933.66	3,904.23	58.58	15.33	-146.96	1,211.87	-1,237.08	3,772.58	3,727.46	45.12	83.610		
5,100.00	4,109.56	4,004.08	3,974.04	60.12	15.62	-147.31	1,221.05	-1,238.63	3,838.09	3,792.13	45.95	83.520		
5,200.00	4,181.68	4,078.48	4,047.93	61.66	15.92	-147.70	1,229.59	-1,240.36	3,903.69	3,856.90	46.79	83.424		
5,300.00	4,253.81	4,154.59	4,123.67	63.20	16.22	-148.11	1,236.81	-1,242.21	3,969.36	3,921.73	47.62	83.350		
5,400.00	4,325.93	4,231.60	4,200.22	64.75	16.52	-148.50	1,244.99	-1,243.92	4,035.05	3,986.58	48.47	83.254		
5,500.00	4,398.06	4,302.20	4,270.31	66.29	16.81	-148.83	1,253.40	-1,245.38	4,100.78	4,051.51	49.27	83.225		
5,600.00	4,470.18	4,359.71	4,327.43	67.84	17.04	-149.09	1,259.91	-1,246.75	4,166.79	4,116.82	49.97	83.383		
5,700.00	4,542.31	4,421.70	4,389.01	69.38	17.29	-149.37	1,266.77	-1,248.43	4,233.12	4,182.42	50.70	83.490		
5,800.00	4,614.43	4,485.53	4,452.28	70.92	17.55	-149.64	1,275.04	-1,250.23	4,299.68	4,248.23	51.46	83.558		
5,900.00	4,686.56	4,573.66	4,539.59	72.47	17.92	-149.99	1,286.71	-1,252.66	4,366.28	4,313.86	52.41	83.303		
6,000.00	4,758.68	4,665.10	4,630.39	74.01	18.29	-150.36	1,297.33	-1,254.87	4,432.63	4,379.26	53.37	83.049		
6,100.00	4,830.81	4,723.45	4,688.29	75.56	18.53	-150.58	1,304.40	-1,256.22	4,499.00	4,444.93	54.08	83.196		
6,200.00	4,902.93	4,789.43	4,753.57	77.10	18.81	-150.81	1,313.85	-1,257.93	4,565.67	4,510.81	54.86	83.227		
6,300.00	4,975.06	4,869.20	4,832.52	78.65	19.15	-151.08	1,325.11	-1,259.91	4,632.32	4,576.56	55.76	83.083		
6,400.00	5,047.18	4,938.00	4,900.71	80.19	19.44	-151.32	1,334.07	-1,261.64	4,699.02	4,642.47	56.55	83.101		
6,500.00	5,119.31	5,007.99	4,970.17	81.74	19.72	-151.56	1,342.51	-1,263.47	4,765.82	4,708.49	57.33	83.127		
6,600.00	5,191.43	5,087.03	5,048.68	83.28	20.04	-151.84	1,351.31	-1,265.54	4,832.67	4,774.49	58.18	83.068		
6,700.00	5,263.56	5,164.75	5,125.97	84.83	20.35	-152.12	1,359.31	-1,267.47	4,899.46	4,840.46	59.00	83.039		
6,800.00	5,335.68	5,235.75	5,196.52	86.37	20.63	-152.36	1,367.09	-1,269.19	4,966.27	4,906.49	59.78	83.078		
6,900.00	5,407.81	5,304.84	5,265.10	87.92	20.91	-152.58	1,375.28	-1,270.93	5,033.21	4,972.66	60.55	83.126		
7,000.00	5,479.93	5,415.71	5,375.15	89.47	21.37	-152.92	1,388.46	-1,273.42	5,100.04	5,038.37	61.67	82.704		
7,100.00	5,552.06	5,526.39	5,484.86	91.01	21.82	-153.23	1,403.04	-1,274.78	5,166.06	5,103.26	62.80	82.261		
7,200.00	5,624.18	5,603.72	5,561.62	92.56	22.14	-153.45	1,412.43	-1,275.57	5,232.04	5,168.40	63.64	82.211		
7,300.00	5,696.31	5,670.59	5,628.12	94.10	22.40	-153.65	1,419.36	-1,276.22	5,298.02	5,233.64	64.38	82.295		
7,400.00	5,768.43	5,719.13	5,676.37	95.65	22.60	-153.79	1,424.63	-1,276.87	5,364.31	5,299.34	64.97	82.567		
7,500.00	5,840.56	5,789.68	5,746.44	97.20	22.88	-153.98	1,432.78	-1,278.06	5,430.89	5,365.15	65.74	82.608		
7,600.00	5,912.68	5,850.97	5,807.37	98.74	23.12	-154.16	1,439.31	-1,279.05	5,497.48	5,431.05	66.43	82.754		
7,700.00	5,984.81	5,892.03	5,848.21	100.29	23.28	-154.27	1,443.45	-1,279.92	5,564.46	5,497.52	66.95	83.115		
7,800.00	6,056.93	5,966.82	5,922.59	101.84	23.58	-154.48	1,451.06	-1,281.84	5,631.82	5,564.08	67.74	83.137		
7,900.00	6,129.06	6,071.39	6,026.32	103.38	24.01	-154.73	1,464.05	-1,284.00	5,698.80	5,629.99	68.81	82.816		
8,000.00	6,201.18	6,131.51	6,085.96	104.93	24.25	-154.87	1,471.52	-1,285.12	5,765.69	5,696.19	69.51	82.953		
8,100.00	6,273.31	6,185.00	6,139.12	106.48	24.47	-155.00	1,477.41	-1,286.34	5,832.92	5,762.78	70.13	83.172		
8,200.00	6,345.43	6,263.38	6,217.04	108.02	24.78	-155.20	1,485.65	-1,288.21	5,900.27	5,829.32	70.95	83.157		
8,300.00	6,417.56	6,333.64	6,286.83	109.57	25.07	-155.36	1,493.67	-1,289.82	5,967.57	5,895.85	71.72	83.205		
8,400.00	6,489.68	6,390.46	6,343.15	111.12	25.30	-155.48	1,500.93	-1,291.21	6,034.99	5,962.61	72.39	83.372		
8,500.00	6,561.81	6,438.54	6,390.82	112.66	25.50	-155.58	1,507.08	-1,292.57	6,102.71	6,029.73	72.98	83.627		
8,600.00	6,633.93	6,479.35	6,431.30	114.21	25.67	-155.67	1,512.16	-1,293.90	6,170.77	6,097.28	73.49	83.962		
8,700.00	6,706.06	6,517.00	6,468.66	115.76	25.82	-155.75	1,516.57	-1,295.32	6,239.25	6,165.27	73.98	84.337		
8,800.00	6,778.18	6,566.45	6,517.77	117.30	26.02	-155.86	1,521.90	-1,297.45	6,308.12	6,233.57	74.56	84.609		
8,900.00	6,850.31	6,637.63	6,588.60	118.85	26.30	-156.03	1,528.29	-1,300.52	6,377.10	6,301.80	75.30	84.690		
9,000.00	6,922.43	6,695.56	6,646.31	120.40	26.51	-156.18	1,532.62	-1,303.05	6,446.19	6,370.28	75.91	84.918		
9,100.00	6,994.56	6,771.41	6,721.94	121.95	26.79	-156.38	1,537.34	-1,306.40	6,515.39	6,438.74	76.65	85.001		
9,200.00	7,066.68	6,846.58	6,796.96	123.49	27.05	-156.59	1,540.94	-1,309.54	6,584.51	6,507.14	77.37	85.110		
9,300.00	7,138.81	6,987.00	6,937.19	125.04	27.49	-157.04	1,540.87	-1,313.73	6,652.71	6,574.27	78.44	84.812		
9,392.50	7,205.52	7,023.44	6,973.40	126.47	27.57	-157.20	1,536.93	-1,314.27	6,715.83	6,637.09	78.74	85.292		
9,400.00	7,210.94	7,024.36	6,974.31	126.59	27.57	-158.67	1,536.80	-1,314.29	6,721.00	6,642.25	78.75	85.342		
9,450.00	7,247.42	7,030.55	6,980.44	127.35	27.59	-168.74	1,535.94	-1,314.46	6,755.75	6,676.90	78.84	85.685		
9,500.00	7,284.35	7,036.85	6,986.67	128.10	27.60	-179.12	1,535.01	-1,314.66	6,790.80	6,711.88	78.92	86.050		
9,550.00	7,321.43	7,076.00	7,025.14	128.83	27.68	-170.42	1,527.98	-1,316.40	6,826.32	6,747.23	79.09	86.309		
9,600.00	7,358.38	7,076.00	7,025.14	129.52	27.68	-160.20	1,527.98	-1,316.40	6,861.02	6,781.92	79.10	86.737		
9,650.00	7,394.93	9,650.00	7,018.75	130.16	32.36	-150.38	1,529.58	-1,316.15	6,895.26	6,812.05	83.21	82.868		
9,700.00	7,430.79	9,700.00	7,054.27	130.76	32.48	-141.22	1,520.71	-1,317.54	6,928.73	6,845.43	83.30	83.180		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	9,750.00	7,089.90	131.30	32.60	132.84	1,511.82	-1,318.94	6,961.05	6,877.68	83.38	83.491		
9,800.00	7,499.38	7,197.89	7,142.82	131.78	27.87	125.36	1,496.75	-1,320.64	6,991.74	6,912.48	79.26	88.212		
9,850.00	7,531.58	7,207.80	7,152.19	132.21	27.88	118.55	1,493.57	-1,320.95	7,021.07	6,941.85	79.22	88.631		
9,900.00	7,562.06	7,217.65	7,161.47	132.57	27.89	112.53	1,490.28	-1,321.30	7,048.74	6,969.57	79.17	89.034		
9,950.00	7,590.58	7,255.00	7,196.25	132.87	27.93	107.40	1,476.76	-1,322.89	7,074.78	6,995.64	79.15	89.390		
10,000.00	7,616.93	7,255.00	7,196.25	133.11	27.93	102.80	1,476.76	-1,322.89	7,098.49	7,019.39	79.09	89.747		
10,050.00	7,640.90	7,255.00	7,196.25	133.29	27.93	98.85	1,476.76	-1,322.89	7,120.07	7,041.02	79.05	90.065		
10,100.00	7,662.32	7,255.00	7,196.25	133.42	27.93	95.50	1,476.76	-1,322.89	7,139.39	7,060.36	79.03	90.337		
10,150.00	7,681.01	7,255.00	7,196.25	133.50	27.93	92.71	1,476.76	-1,322.89	7,156.32	7,077.29	79.03	90.555		
10,200.00	7,696.85	7,255.00	7,196.25	133.52	27.93	90.44	1,476.76	-1,322.89	7,170.74	7,091.69	79.05	90.712		
10,250.00	7,709.70	7,255.00	7,196.25	133.51	27.93	88.64	1,476.76	-1,322.89	7,182.57	7,103.47	79.10	90.803		
10,300.00	7,719.47	7,255.00	7,196.25	133.46	27.93	87.31	1,476.76	-1,322.89	7,191.72	7,112.53	79.19	90.821		
10,350.00	7,726.09	7,255.00	7,196.25	133.37	27.93	86.40	1,476.76	-1,322.89	7,198.13	7,118.83	79.31	90.764		
10,400.00	7,729.50	7,255.00	7,196.25	133.26	27.93	85.92	1,476.76	-1,322.89	7,201.77	7,122.31	79.46	90.629		
10,427.79	7,730.00	7,255.00	7,196.25	133.18	27.93	85.83	1,476.76	-1,322.89	7,202.58	7,123.02	79.57	90.521		
10,500.00	7,730.00	7,291.65	7,229.86	132.98	27.96	86.10	1,462.30	-1,325.11	7,203.40	7,123.52	79.88	90.177		
10,600.00	7,730.00	7,298.80	7,236.36	132.72	27.97	86.15	1,459.40	-1,325.64	7,206.24	7,125.92	80.32	89.721		
10,700.00	7,730.00	8,057.00	7,660.81	132.47	28.37	89.53	880.37	-1,341.60	7,203.31	7,125.74	77.58	92.855		
10,800.00	7,730.00	8,169.49	7,672.41	132.22	28.67	89.62	768.52	-1,338.66	7,200.29	7,122.77	77.52	92.881		
10,900.00	7,730.00	8,208.96	7,674.56	131.99	28.81	89.64	729.13	-1,337.67	7,197.42	7,119.55	77.87	92.431		
11,000.00	7,730.00	8,259.72	7,675.19	131.77	29.00	89.64	678.38	-1,336.82	7,195.35	7,117.14	78.21	91.997		
11,100.00	7,730.00	8,332.90	7,675.31	131.56	29.31	89.64	605.20	-1,335.91	7,193.76	7,115.22	78.55	91.583		
11,200.00	7,730.00	8,413.84	7,675.45	131.36	29.72	89.65	524.27	-1,335.16	7,192.50	7,113.52	78.97	91.076		
11,300.00	7,730.00	8,656.37	7,676.25	131.17	31.34	89.65	281.77	-1,331.39	7,190.94	7,111.31	79.63	90.305		
11,400.00	7,730.00	8,719.18	7,676.11	130.99	31.84	89.65	218.99	-1,329.69	7,187.96	7,107.57	80.40	89.407		
11,500.00	7,730.00	8,769.00	7,675.72	130.82	32.25	89.65	169.18	-1,328.78	7,185.75	7,104.57	81.18	88.513		
11,600.00	7,730.00	8,803.01	7,675.57	130.66	32.55	89.65	135.17	-1,328.43	7,184.33	7,102.35	81.98	87.633		
11,700.00	7,730.00	8,858.00	7,676.16	130.51	33.04	89.65	80.18	-1,328.41	7,183.82	7,100.93	82.89	86.668		
11,800.00	7,730.00	9,077.82	7,679.02	130.37	35.23	89.67	-139.60	-1,326.97	7,183.05	7,098.27	84.78	84.730		
11,900.00	7,730.00	9,181.39	7,679.14	130.24	36.36	89.67	-243.16	-1,325.03	7,180.84	7,094.61	86.23	83.276		
12,000.00	7,730.00	9,242.30	7,679.68	130.13	37.05	89.68	-304.06	-1,324.10	7,178.99	7,091.53	87.46	82.086		
12,100.00	7,730.00	9,304.00	7,680.16	130.02	37.76	89.68	-365.75	-1,323.63	7,177.82	7,089.08	88.74	80.888		
12,200.00	7,730.00	9,405.36	7,680.46	129.93	38.97	89.68	-467.11	-1,323.11	7,176.97	7,086.54	90.43	79.365		
12,300.00	7,730.00	9,435.18	7,680.70	129.85	39.34	89.69	-496.93	-1,323.12	7,176.50	7,084.98	91.53	78.409		
12,304.94	7,730.00	9,437.09	7,680.72	129.84	39.36	89.69	-498.84	-1,323.13	7,176.50	7,084.92	91.59	78.357		
12,400.00	7,730.00	9,482.00	7,681.49	129.77	39.92	89.69	-543.74	-1,323.51	7,176.90	7,084.10	92.81	77.333		
12,500.00	7,730.00	9,572.32	7,684.02	129.71	41.06	89.71	-634.01	-1,324.65	7,177.80	7,083.22	94.58	75.891		
12,600.00	7,730.00	9,679.13	7,687.64	129.66	42.46	89.74	-740.76	-1,325.91	7,178.64	7,082.01	96.62	74.294		
12,700.00	7,730.00	9,812.84	7,692.60	129.63	44.25	89.78	-874.37	-1,326.99	7,179.07	7,079.97	99.10	72.446		
12,800.00	7,730.00	9,879.42	7,694.94	129.60	45.16	89.80	-940.91	-1,327.48	7,179.50	7,078.69	100.81	71.219		
12,900.00	7,730.00	9,927.00	7,695.66	129.59	45.82	89.81	-988.48	-1,328.14	7,180.57	7,078.27	102.30	70.193		
13,000.00	7,730.00	9,995.05	7,695.75	129.59	46.77	89.81	-1,056.51	-1,329.47	7,182.21	7,078.13	104.08	69.007		
13,100.00	7,730.00	10,125.95	7,694.56	129.60	48.62	89.80	-1,187.38	-1,332.31	7,184.08	7,077.32	106.77	67.289		
13,200.00	7,730.00	10,246.20	7,692.50	129.63	50.36	89.78	-1,307.60	-1,334.14	7,185.24	7,075.85	109.40	65.681		
13,300.00	7,730.00	10,402.86	7,688.27	129.66	52.68	89.75	-1,464.19	-1,335.93	7,186.07	7,073.40	112.67	63.781		
13,400.00	7,730.00	10,481.01	7,686.68	129.72	53.84	89.73	-1,542.31	-1,336.66	7,186.67	7,071.87	114.80	62.601		
13,500.00	7,730.00	10,586.92	7,688.64	129.78	55.45	89.75	-1,648.19	-1,337.77	7,187.36	7,069.92	117.45	61.197		
13,600.00	7,730.00	10,807.16	7,693.01	129.86	58.83	89.78	-1,868.34	-1,338.36	7,187.44	7,065.30	122.13	58.849		
13,700.00	7,730.00	10,983.18	7,687.64	129.96	61.59	89.74	-2,044.27	-1,336.22	7,185.91	7,059.74	126.17	56.954		
13,800.00	7,730.00	11,043.49	7,685.22	130.07	62.54	89.72	-2,104.52	-1,335.25	7,184.03	7,055.85	128.18	56.048		
13,900.00	7,730.00	11,111.95	7,683.57	130.19	63.62	89.71	-2,172.96	-1,334.67	7,182.81	7,052.46	130.35	55.104		
14,000.00	7,730.00	11,209.68	7,681.57	130.33	65.18	89.69	-2,270.66	-1,333.77	7,181.56	7,048.46	133.10	53.958		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	11,306.67	7,680.01	130.49	66.73	89.68	-2,367.64	-1,333.33	7,180.77	7,044.91	135.86	52.855		
14,200.00	7,730.00	14,200.00	7,679.74	130.67	113.65	89.68	-2,579.85	-1,329.76	7,178.52	6,994.06	184.46	38.917		
14,300.00	7,730.00	11,531.00	7,679.87	130.86	70.35	89.68	-2,591.92	-1,329.49	7,176.46	7,034.37	142.10	50.503		
14,400.00	7,730.00	11,582.26	7,680.67	131.07	71.18	89.69	-2,643.16	-1,328.73	7,175.03	7,030.98	144.04	49.812		
14,424.99	7,730.00	11,588.20	7,680.78	131.13	71.28	89.69	-2,649.11	-1,328.72	7,174.89	7,030.50	144.39	49.691		
14,500.00	7,730.00	11,620.00	7,681.37	131.30	71.79	89.69	-2,680.90	-1,328.92	7,174.93	7,029.21	145.71	49.239		
14,600.00	7,730.00	11,643.60	7,681.82	131.55	72.18	89.70	-2,704.50	-1,329.27	7,175.74	7,028.64	147.10	48.782		
14,700.00	7,730.00	11,709.00	7,682.98	131.82	73.24	89.70	-2,769.87	-1,330.53	7,177.29	7,027.95	149.33	48.062		
14,800.00	7,730.00	14,800.00	7,685.16	132.11	123.77	89.72	-2,932.41	-1,333.16	7,178.55	6,977.06	201.49	35.627		
14,900.00	7,730.00	11,940.31	7,686.22	132.42	77.02	89.73	-3,001.13	-1,333.98	7,179.47	7,023.52	155.95	46.037		
15,000.00	7,730.00	11,993.07	7,687.65	132.75	77.88	89.74	-3,053.86	-1,335.07	7,181.14	7,023.18	157.96	45.461		
15,100.00	7,730.00	12,083.99	7,690.87	133.10	79.38	89.77	-3,144.70	-1,337.23	7,183.16	7,022.36	160.80	44.671		
15,200.00	7,730.00	12,184.01	7,695.01	133.48	81.03	89.80	-3,244.60	-1,339.66	7,185.24	7,021.38	163.86	43.851		
15,300.00	7,730.00	12,289.77	7,699.76	133.88	82.78	89.84	-3,350.22	-1,342.21	7,187.30	7,020.24	167.06	43.022		
15,400.00	7,730.00	12,371.30	7,703.61	134.31	84.13	89.87	-3,431.64	-1,344.14	7,189.34	7,019.60	169.74	42.354		
15,500.00	7,730.00	12,456.65	7,706.58	134.76	85.54	89.89	-3,516.90	-1,346.58	7,191.84	7,019.32	172.52	41.687		
15,600.00	7,730.00	12,655.22	7,709.89	135.23	88.85	89.92	-3,715.39	-1,350.79	7,193.62	7,015.78	177.84	40.449		
15,700.00	7,730.00	12,772.57	7,712.19	135.73	90.82	89.94	-3,832.71	-1,352.23	7,194.49	7,013.11	181.38	39.664		
15,800.00	7,730.00	12,910.56	7,718.61	136.26	93.14	89.99	-3,970.54	-1,353.46	7,195.03	7,009.59	185.44	38.801		
15,900.00	7,730.00	13,034.99	7,725.07	136.81	95.24	90.04	-4,094.81	-1,354.10	7,195.21	7,006.01	189.20	38.030		
15,922.39	7,730.00	13,064.39	7,726.61	136.94	95.74	90.05	-4,124.17	-1,354.18	7,195.20	7,005.12	190.08	37.853		
16,000.00	7,730.00	13,113.06	7,728.64	137.39	96.56	90.07	-4,172.79	-1,354.44	7,195.32	7,003.42	191.90	37.495		
16,100.00	7,730.00	13,205.02	7,731.58	138.00	98.11	90.09	-4,264.70	-1,355.10	7,195.71	7,000.78	194.92	36.916		
16,200.00	7,730.00	13,305.08	7,734.34	138.63	99.81	90.11	-4,364.72	-1,355.84	7,196.11	6,997.97	198.14	36.317		
16,300.00	7,730.00	13,505.36	7,739.05	139.30	103.21	90.15	-4,564.94	-1,356.04	7,195.94	6,992.20	203.74	35.318		
16,400.00	7,730.00	13,905.19	7,742.02	139.99	110.05	90.18	-4,964.47	-1,343.94	7,191.70	6,977.64	214.06	33.596		
16,500.00	7,730.00	13,937.00	7,741.78	140.70	110.60	90.17	-4,996.25	-1,342.61	7,187.07	6,971.32	215.75	33.311		
16,600.00	7,730.00	13,937.00	7,741.78	141.45	110.60	90.17	-4,996.25	-1,342.61	7,183.56	6,966.88	216.68	33.153		
16,700.00	7,730.00	13,975.68	7,741.29	142.22	111.26	90.17	-5,034.91	-1,341.61	7,180.96	6,962.46	218.50	32.865		
16,800.00	7,730.00	14,026.00	7,740.38	143.03	112.13	90.16	-5,085.22	-1,341.43	7,179.80	6,959.21	220.59	32.548		
16,891.36	7,730.00	14,026.00	7,740.38	143.78	112.13	90.16	-5,085.22	-1,341.43	7,179.22	6,957.83	221.39	32.428		
16,900.00	7,730.00	14,026.00	7,740.38	143.86	112.13	90.16	-5,085.22	-1,341.43	7,179.22	6,957.76	221.46	32.418		
17,000.00	7,730.00	14,081.77	7,739.16	144.71	113.08	90.15	-5,140.98	-1,341.98	7,179.77	6,956.11	223.66	32.101		
17,100.00	7,730.00	14,231.18	7,735.63	145.60	115.63	90.12	-5,290.34	-1,342.92	7,180.01	6,951.87	228.14	31.472		
17,200.00	7,730.00	14,293.00	7,735.19	146.51	116.69	90.12	-5,352.16	-1,343.46	7,180.46	6,949.96	230.50	31.152		
17,300.00	7,730.00	14,383.43	7,735.85	147.44	118.24	90.13	-5,442.57	-1,344.54	7,181.30	6,947.73	233.57	30.746		
17,400.00	7,730.00	14,560.81	7,738.29	148.40	121.28	90.15	-5,619.94	-1,345.51	7,181.54	6,942.74	238.80	30.074		
17,500.00	7,730.00	14,694.34	7,740.43	149.39	123.58	90.16	-5,753.44	-1,344.75	7,180.53	6,937.57	242.96	29.555		
17,600.00	7,730.00	14,761.32	7,740.56	150.40	124.74	90.16	-5,820.42	-1,344.63	7,179.98	6,934.51	245.47	29.250		
17,700.00	7,730.00	14,866.48	7,738.88	151.44	126.55	90.15	-5,925.57	-1,344.58	7,179.60	6,930.67	248.93	28.842		
17,800.00	7,730.00	14,972.52	7,737.81	152.50	128.37	90.14	-6,031.61	-1,344.40	7,179.09	6,926.67	252.42	28.442		
17,900.00	7,730.00	15,119.60	7,737.62	153.58	130.91	90.14	-6,178.67	-1,343.53	7,178.12	6,921.19	256.94	27.937		
18,000.00	7,730.00	15,184.00	7,738.71	154.68	132.03	90.15	-6,243.07	-1,343.20	7,177.24	6,917.84	259.41	27.668		
18,100.00	7,730.00	15,272.04	7,741.11	155.80	133.55	90.17	-6,331.08	-1,343.04	7,176.71	6,914.24	262.47	27.343		
18,138.17	7,730.00	15,273.00	7,741.13	156.24	133.57	90.17	-6,332.03	-1,343.03	7,176.61	6,913.79	262.82	27.306		
18,200.00	7,730.00	15,273.00	7,741.13	156.95	133.57	90.17	-6,332.03	-1,343.03	7,176.88	6,913.55	263.32	27.255		
18,300.00	7,730.00	15,324.83	7,742.17	158.11	134.46	90.18	-6,383.85	-1,343.47	7,177.72	6,912.27	265.45	27.040		
18,400.00	7,730.00	15,362.00	7,742.70	159.30	135.10	90.18	-6,421.00	-1,344.44	7,179.80	6,912.61	267.19	26.872		
18,500.00	7,730.00	15,362.00	7,742.70	160.50	135.10	90.18	-6,421.00	-1,344.44	7,182.90	6,914.97	267.93	26.809		
18,600.00	7,730.00	15,425.01	7,743.40	161.72	136.18	90.19	-6,483.96	-1,346.95	7,186.71	6,916.41	270.30	26.588		
18,700.00	7,730.00	15,706.38	7,747.62	162.96	141.01	90.22	-6,765.08	-1,357.19	7,190.48	6,912.07	278.41	25.827		
18,800.00	7,730.00	15,892.38	7,752.73	164.21	144.23	90.26	-6,950.98	-1,360.08	7,191.74	6,907.72	284.02	25.321		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Distance		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,900.00	7,730.00	15,974.98	7,755.51	165.48	145.66	90.28	-7,033.54	-1,360.92	7,192.44	6,905.48	286.96	25.064	
19,000.00	7,730.00	16,108.47	7,759.76	166.76	147.97	90.32	-7,166.95	-1,362.05	7,192.94	6,901.71	291.23	24.699	
19,100.00	7,730.00	16,164.00	7,760.72	168.06	148.94	90.32	-7,222.47	-1,362.49	7,193.50	6,900.03	293.47	24.512	
19,200.00	7,730.00	16,225.45	7,762.10	169.38	150.00	90.34	-7,283.89	-1,363.34	7,194.63	6,898.77	295.85	24.318	
19,300.00	7,730.00	16,360.01	7,768.38	170.70	152.33	90.39	-7,418.29	-1,365.84	7,196.27	6,896.11	300.17	23.974	
19,400.00	7,730.00	16,420.30	7,771.42	172.04	153.38	90.41	-7,478.49	-1,366.92	7,197.69	6,895.17	302.53	23.792	
19,500.00	7,730.00	16,516.65	7,775.83	173.40	155.05	90.44	-7,574.71	-1,368.80	7,199.35	6,893.50	305.84	23.539	
19,600.00	7,730.00	17,001.97	7,791.60	174.76	163.50	90.57	-8,059.66	-1,365.97	7,198.95	6,879.76	319.19	22.554	
19,700.00	7,730.00	17,130.26	7,793.45	176.14	165.75	90.59	-8,187.84	-1,361.09	7,194.75	6,871.42	323.33	22.252	
19,800.00	7,730.00	17,293.36	7,794.76	177.52	168.61	90.60	-8,350.79	-1,354.27	7,190.25	6,861.91	328.34	21.899	
19,900.00	7,730.00	17,340.00	7,795.17	178.92	169.43	90.60	-8,397.38	-1,352.11	7,185.48	6,855.02	330.46	21.744	
20,000.00	7,730.00	17,340.00	7,795.17	180.33	169.43	90.60	-8,397.38	-1,352.11	7,181.95	6,850.56	331.39	21.672	
20,100.00	7,730.00	17,340.00	7,795.17	181.75	169.43	90.60	-8,397.38	-1,352.11	7,179.81	6,847.55	332.27	21.608	
20,184.95	7,730.00	17,340.00	7,795.17	182.96	169.43	90.60	-8,397.38	-1,352.11	7,179.09	6,846.12	332.97	21.561 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-55.62	787.62	-1,151.05	1,394.76					
100.00	100.00	93.17	93.17	0.13	0.15	-55.62	787.47	-1,151.07	1,394.66	1,394.38	0.28	4,982.475		
108.25	108.25	101.62	101.62	0.16	0.16	-126.08	787.44	-1,151.07	1,394.65	1,394.33	0.32	4,324.129	CC, ES	
200.00	199.98	195.52	195.52	0.49	0.31	-126.14	786.96	-1,151.12	1,395.45	1,394.65	0.80	1,754.304		
300.00	299.84	290.20	290.19	0.86	0.68	-126.28	786.48	-1,151.35	1,398.45	1,396.92	1.53	911.424		
400.00	399.45	388.46	388.46	1.23	1.03	-126.50	786.13	-1,151.73	1,403.76	1,401.50	2.25	623.096		
500.00	498.70	487.51	487.51	1.63	1.37	-126.78	786.06	-1,151.95	1,411.21	1,408.23	2.98	472.809		
600.00	597.47	581.07	581.06	2.05	1.70	-127.13	785.59	-1,152.61	1,421.01	1,417.30	3.72	382.287		
700.00	695.62	655.48	655.46	2.51	1.96	-127.39	785.78	-1,153.65	1,434.03	1,429.63	4.40	325.787		
800.00	793.06	731.43	731.34	3.00	2.23	-127.58	788.88	-1,154.35	1,450.89	1,445.78	5.11	284.023		
900.00	889.64	803.74	803.39	3.53	2.48	-127.64	794.84	-1,154.41	1,471.44	1,465.61	5.83	252.597		
1,000.00	985.27	880.94	880.08	4.12	2.75	-127.66	803.70	-1,154.50	1,495.79	1,489.20	6.59	226.917		
1,100.00	1,079.82	969.80	968.21	4.75	3.08	-127.74	815.07	-1,154.73	1,523.12	1,515.68	7.44	204.776		
1,200.00	1,173.17	1,059.27	1,056.84	5.44	3.42	-127.83	827.35	-1,154.66	1,552.82	1,544.50	8.33	186.505		
1,300.00	1,265.21	1,144.15	1,140.75	6.18	3.76	-127.88	840.06	-1,154.45	1,585.19	1,575.95	9.23	171.662		
1,400.00	1,355.84	1,227.24	1,222.77	6.99	4.09	-127.92	853.35	-1,154.27	1,620.25	1,610.08	10.17	159.276		
1,500.00	1,444.94	1,312.07	1,306.51	7.87	4.44	-127.99	866.98	-1,154.57	1,658.02	1,646.87	11.15	148.641		
1,600.00	1,532.39	1,395.46	1,388.78	8.80	4.79	-128.07	880.52	-1,154.89	1,698.18	1,686.01	12.16	139.612		
1,700.00	1,618.11	1,467.11	1,459.43	9.81	5.09	-128.03	892.51	-1,155.58	1,741.25	1,728.10	13.14	132.471		
1,800.00	1,701.97	1,538.44	1,529.63	10.89	5.40	-127.96	905.09	-1,156.60	1,787.31	1,773.16	14.15	126.285		
1,900.00	1,783.88	1,642.53	1,632.16	12.04	5.85	-128.27	922.94	-1,158.19	1,835.58	1,820.22	15.37	119.445		
2,000.00	1,863.74	1,722.36	1,710.99	13.26	6.19	-128.35	935.47	-1,159.45	1,885.70	1,869.24	16.47	114.519		
2,100.00	1,941.45	1,781.24	1,769.14	14.55	6.44	-128.15	944.64	-1,160.72	1,938.58	1,921.12	17.46	110.999		
2,200.00	2,016.92	1,875.29	1,862.03	15.92	6.84	-128.42	959.08	-1,163.37	1,994.29	1,975.61	18.68	106.766		
2,292.11	2,084.36	1,948.98	1,935.01	17.25	7.15	-128.50	969.16	-1,164.91	2,046.73	2,027.00	19.73	103.740		
2,300.00	2,090.06	1,953.95	1,939.94	17.36	7.17	-128.58	969.82	-1,165.03	2,051.32	2,031.51	19.81	103.533		
2,400.00	2,162.18	2,016.33	2,001.75	18.84	7.42	-129.51	978.00	-1,166.75	2,110.04	2,089.20	20.84	101.254		
2,500.00	2,234.31	2,077.95	2,062.80	20.33	7.68	-130.40	986.16	-1,168.75	2,169.70	2,147.86	21.84	99.340		
2,600.00	2,306.43	2,198.75	2,182.53	21.83	8.18	-132.04	1,001.85	-1,171.87	2,229.45	2,206.27	23.18	96.159		
2,700.00	2,378.56	2,319.28	2,302.21	23.33	8.66	-133.58	1,016.19	-1,172.24	2,287.69	2,263.18	24.51	93.350		
2,800.00	2,450.68	2,400.45	2,382.83	24.84	8.99	-134.56	1,025.51	-1,171.75	2,345.76	2,320.18	25.58	91.696		
2,900.00	2,522.81	2,473.81	2,455.73	26.36	9.28	-135.42	1,033.73	-1,171.33	2,404.24	2,377.65	26.60	90.402		
3,000.00	2,594.93	2,551.62	2,533.05	27.88	9.59	-136.28	1,042.51	-1,170.85	2,463.11	2,435.49	27.62	89.176		
3,100.00	2,667.06	2,663.65	2,644.19	29.40	10.05	-137.43	1,056.40	-1,168.77	2,521.62	2,492.76	28.86	87.375		
3,200.00	2,739.18	2,719.01	2,698.99	30.92	10.28	-137.95	1,064.10	-1,167.42	2,580.33	2,550.58	29.75	86.739		
3,300.00	2,811.31	2,761.74	2,741.25	32.45	10.46	-138.33	1,070.37	-1,166.69	2,640.04	2,609.50	30.54	86.447		
3,400.00	2,883.43	2,796.28	2,775.37	33.98	10.61	-138.63	1,075.75	-1,166.58	2,701.13	2,669.87	31.26	86.418		
3,500.00	2,955.56	2,829.00	2,807.64	35.51	10.75	-138.90	1,081.12	-1,166.91	2,763.55	2,731.61	31.94	86.524		
3,600.00	3,027.68	2,888.62	2,866.42	37.04	11.01	-139.38	1,091.04	-1,168.09	2,826.92	2,794.11	32.81	86.159		
3,700.00	3,099.81	2,956.19	2,933.07	38.57	11.31	-139.92	1,102.06	-1,169.82	2,890.84	2,857.11	33.73	85.708		
3,800.00	3,171.93	3,037.20	3,013.04	40.11	11.66	-140.55	1,114.81	-1,171.89	2,954.87	2,920.13	34.74	85.065		
3,900.00	3,244.06	3,122.27	3,097.14	41.64	12.02	-141.19	1,127.47	-1,173.87	3,018.82	2,983.06	35.76	84.421		
4,000.00	3,316.18	3,206.61	3,180.66	43.18	12.38	-141.83	1,139.02	-1,175.70	3,082.68	3,045.93	36.76	83.870		
4,100.00	3,388.31	3,293.14	3,266.49	44.71	12.73	-142.47	1,149.92	-1,177.38	3,146.44	3,108.69	37.75	83.354		
4,200.00	3,460.43	3,381.36	3,354.11	46.25	13.09	-143.12	1,160.07	-1,178.83	3,210.05	3,171.31	38.74	82.870		
4,300.00	3,532.56	3,468.46	3,440.52	47.79	13.45	-143.72	1,170.92	-1,179.76	3,273.51	3,233.79	39.73	82.403		
4,400.00	3,604.68	3,557.27	3,528.40	49.33	13.82	-144.26	1,183.74	-1,180.08	3,336.81	3,296.08	40.74	81.906		
4,500.00	3,676.81	3,626.86	3,597.31	50.87	14.11	-144.68	1,193.43	-1,180.32	3,400.18	3,358.57	41.61	81.717		
4,600.00	3,748.93	3,718.75	3,688.50	52.41	14.49	-145.24	1,204.78	-1,180.60	3,463.51	3,420.89	42.62	81.272		
4,700.00	3,821.06	3,801.78	3,771.04	53.95	14.82	-145.75	1,213.68	-1,180.68	3,526.69	3,483.16	43.53	81.014		
4,800.00	3,893.18	3,846.23	3,815.28	55.49	14.99	-146.03	1,218.02	-1,180.87	3,590.19	3,546.03	44.16	81.301		
4,900.00	3,965.31	3,898.00	3,866.82	57.03	15.19	-146.35	1,222.88	-1,181.66	3,654.55	3,609.72	44.83	81.527		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,933.77	3,902.43	58.58	15.33	-146.57	1,226.14	-1,182.51	3,719.58	3,674.21	45.37	81.989		
5,100.00	4,109.56	3,987.00	3,955.42	60.12	15.53	-146.89	1,230.94	-1,184.05	3,785.21	3,739.19	46.02	82.246		
5,200.00	4,181.68	4,093.74	4,061.80	61.66	15.93	-147.53	1,239.22	-1,186.79	3,850.63	3,803.59	47.04	81.860		
5,300.00	4,253.81	4,138.69	4,106.62	63.20	16.10	-147.80	1,242.44	-1,187.99	3,916.28	3,868.67	47.61	82.253		
5,400.00	4,325.93	4,209.62	4,177.29	64.75	16.37	-148.20	1,248.13	-1,190.23	3,982.46	3,934.09	48.38	82.322		
5,500.00	4,398.06	4,429.88	4,395.70	66.29	17.27	-149.19	1,276.16	-1,191.07	4,046.31	3,995.94	50.37	80.336		
5,600.00	4,470.18	4,484.13	4,449.46	67.84	17.49	-149.41	1,283.40	-1,190.56	4,109.95	4,058.88	51.07	80.479		
5,700.00	4,542.31	4,521.66	4,486.64	69.38	17.65	-149.56	1,288.57	-1,190.52	4,174.27	4,122.64	51.63	80.847		
5,800.00	4,614.43	4,561.27	4,525.84	70.92	17.82	-149.71	1,294.24	-1,190.82	4,239.32	4,187.11	52.21	81.204		
5,900.00	4,686.56	4,610.01	4,574.10	72.47	18.02	-149.90	1,301.03	-1,191.53	4,304.93	4,252.08	52.85	81.460		
6,000.00	4,758.68	4,665.22	4,628.83	74.01	18.25	-150.12	1,308.22	-1,192.67	4,371.01	4,317.48	53.53	81.657		
6,100.00	4,830.81	4,731.46	4,694.61	75.56	18.52	-150.39	1,315.79	-1,194.22	4,437.32	4,383.04	54.28	81.746		
6,200.00	4,902.93	4,793.66	4,756.40	77.10	18.77	-150.64	1,322.72	-1,195.81	4,503.85	4,448.85	55.00	81.894		
6,300.00	4,975.06	4,881.52	4,843.44	78.65	19.14	-150.95	1,334.43	-1,198.02	4,570.48	4,514.52	55.95	81.688		
6,400.00	5,047.18	4,953.77	4,914.59	80.19	19.46	-151.15	1,346.95	-1,199.50	4,636.89	4,580.07	56.82	81.606		
6,500.00	5,119.31	5,018.63	4,978.28	81.74	19.76	-151.31	1,359.10	-1,200.94	4,703.51	4,645.87	57.64	81.605		
6,600.00	5,191.43	5,090.92	5,049.37	83.28	20.08	-151.50	1,372.08	-1,202.63	4,770.21	4,711.70	58.52	81.519		
6,700.00	5,263.56	5,168.64	5,126.07	84.83	20.42	-151.72	1,384.47	-1,204.45	4,836.93	4,777.51	59.42	81.406		
6,800.00	5,335.68	5,253.73	5,210.39	86.37	20.78	-151.98	1,395.71	-1,206.37	4,903.56	4,843.22	60.34	81.265		
6,900.00	5,407.81	5,330.42	5,286.64	87.92	21.08	-152.25	1,403.80	-1,208.00	4,970.11	4,908.96	61.15	81.273		
7,000.00	5,479.93	5,400.14	5,356.05	89.47	21.35	-152.50	1,410.14	-1,209.49	5,036.71	4,974.82	61.89	81.376		
7,100.00	5,552.06	5,464.75	5,420.30	91.01	21.61	-152.72	1,416.80	-1,210.92	5,103.44	5,040.84	62.61	81.514		
7,200.00	5,624.18	5,525.16	5,480.12	92.56	21.86	-152.88	1,425.10	-1,212.38	5,170.38	5,107.06	63.32	81.655		
7,300.00	5,696.31	5,587.31	5,541.49	94.10	22.13	-153.03	1,434.78	-1,214.01	5,237.52	5,173.45	64.07	81.751		
7,400.00	5,768.43	5,653.25	5,606.72	95.65	22.41	-153.20	1,444.17	-1,215.87	5,304.82	5,239.99	64.83	81.824		
7,500.00	5,840.56	5,750.00	5,694.52	97.20	22.98	-154.06	1,480.48	-1,217.92	5,370.59	5,296.69	73.90	72.669		
7,600.00	5,912.68	6,028.17	5,978.86	98.74	23.93	-154.21	1,489.13	-1,216.83	5,434.65	5,366.32	68.33	79.535		
7,700.00	5,984.81	6,065.00	6,015.35	100.29	24.08	-154.30	1,494.12	-1,216.43	5,499.21	5,430.36	68.85	79.876		
7,800.00	6,056.93	6,102.39	6,052.41	101.84	24.24	-154.39	1,499.06	-1,216.28	5,564.31	5,494.95	69.36	80.223		
7,900.00	6,129.06	6,154.00	6,103.62	103.38	24.45	-154.51	1,505.41	-1,216.59	5,630.08	5,560.09	69.99	80.446		
8,000.00	6,201.18	6,173.21	6,122.70	104.93	24.53	-154.56	1,507.70	-1,216.84	5,696.26	5,625.93	70.33	80.991		
8,100.00	6,273.31	6,220.98	6,170.10	106.48	24.72	-154.67	1,513.58	-1,217.61	5,762.92	5,692.00	70.92	81.264		
8,200.00	6,345.43	6,276.04	6,224.71	108.02	24.95	-154.80	1,520.53	-1,218.73	5,829.91	5,758.34	71.56	81.465		
8,300.00	6,417.56	6,373.71	6,321.69	109.57	25.34	-155.03	1,531.93	-1,220.82	5,897.07	5,824.50	72.57	81.265		
8,400.00	6,489.68	6,453.17	6,400.57	111.12	25.67	-155.21	1,541.32	-1,221.90	5,963.61	5,890.20	73.41	81.235		
8,500.00	6,561.81	6,488.27	6,435.46	112.66	25.81	-155.29	1,545.23	-1,222.57	6,030.63	5,956.76	73.88	81.632		
8,600.00	6,633.93	6,526.41	6,473.37	114.21	25.96	-155.39	1,549.21	-1,223.54	6,098.13	6,023.77	74.36	82.013		
8,700.00	6,706.06	6,570.64	6,517.39	115.76	26.13	-155.50	1,553.34	-1,224.85	6,166.01	6,091.13	74.88	82.351		
8,800.00	6,778.18	6,667.52	6,613.12	117.30	27.25	-156.24	1,578.39	-1,230.28	6,234.16	6,156.76	77.40	80.549		
8,900.00	6,850.31	6,903.97	6,849.45	118.85	27.39	-156.33	1,581.16	-1,230.23	6,299.86	6,222.01	77.85	80.923		
9,000.00	6,922.43	6,956.00	6,901.38	120.40	27.58	-156.46	1,584.51	-1,230.49	6,366.08	6,287.67	78.41	81.186		
9,100.00	6,994.56	6,985.35	6,930.70	121.95	27.67	-156.54	1,585.80	-1,230.77	6,432.66	6,353.87	78.78	81.651		
9,200.00	7,066.68	9,200.00	7,077.38	123.49	32.91	-157.11	1,577.53	-1,230.77	6,499.00	6,414.43	84.57	76.849		
9,300.00	7,138.81	7,135.00	7,079.84	125.04	28.07	-157.12	1,577.29	-1,230.75	6,565.43	6,485.53	79.90	82.172		
9,392.50	7,205.52	7,179.02	7,122.96	126.47	28.14	-157.36	1,568.53	-1,230.15	6,626.87	6,546.71	80.16	82.672		
9,400.00	7,210.94	7,179.95	7,123.87	126.59	28.14	-158.80	1,568.31	-1,230.15	6,631.91	6,551.74	80.17	82.721		
9,450.00	7,247.42	7,186.30	7,130.03	127.35	28.15	-168.66	1,566.80	-1,230.16	6,665.85	6,585.60	80.26	83.058		
9,500.00	7,284.35	7,224.00	7,166.32	128.10	28.21	-178.94	1,556.60	-1,230.66	6,700.50	6,620.12	80.38	83.363		
9,550.00	7,321.43	7,224.00	7,166.32	128.83	28.21	170.87	1,556.60	-1,230.66	6,734.67	6,654.26	80.41	83.750		
9,600.00	7,358.38	7,224.00	7,166.32	129.52	28.21	160.83	1,556.60	-1,230.66	6,768.67	6,688.24	80.43	84.156		
9,650.00	7,394.93	7,224.00	7,166.32	130.16	28.21	151.16	1,556.60	-1,230.66	6,802.25	6,721.82	80.43	84.576		
9,700.00	7,430.79	7,224.00	7,166.32	130.76	28.21	142.04	1,556.60	-1,230.66	6,835.15	6,754.74	80.41	85.006		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,224.00	7,166.32	131.30	28.21	133.61	1,556.60	-1,230.66	6,867.13	6,786.76	80.37	85.440		
9,800.00	7,499.38	7,224.00	7,166.32	131.78	28.21	125.93	1,556.60	-1,230.66	6,897.98	6,817.65	80.33	85.873		
9,850.00	7,531.58	7,224.00	7,166.32	132.21	28.21	119.04	1,556.60	-1,230.66	6,927.46	6,847.19	80.27	86.298		
9,900.00	7,562.06	7,224.00	7,166.32	132.57	28.21	112.93	1,556.60	-1,230.66	6,955.38	6,875.17	80.22	86.707		
9,950.00	7,590.58	7,224.00	7,166.32	132.87	28.21	107.56	1,556.60	-1,230.66	6,981.55	6,901.38	80.16	87.093		
10,000.00	7,616.93	7,224.00	7,166.32	133.11	28.21	102.90	1,556.60	-1,230.66	7,005.77	6,925.66	80.11	87.448		
10,050.00	7,640.90	7,261.80	7,202.10	133.29	28.24	99.12	1,544.49	-1,232.05	7,027.27	6,947.15	80.12	87.708		
10,100.00	7,662.32	7,267.19	7,207.14	133.42	28.25	95.76	1,542.63	-1,232.32	7,046.96	6,966.85	80.11	87.969		
10,150.00	7,681.01	7,272.36	7,211.98	133.50	28.25	92.97	1,540.81	-1,232.61	7,064.26	6,984.15	80.12	88.176		
10,200.00	7,696.85	7,313.00	7,249.50	133.52	28.29	90.92	1,525.48	-1,235.48	7,079.61	6,999.44	80.17	88.310		
10,250.00	7,709.70	7,313.00	7,249.50	133.51	28.29	89.10	1,525.48	-1,235.48	7,091.67	7,011.44	80.23	88.393		
10,300.00	7,719.47	7,313.00	7,249.50	133.46	28.29	87.74	1,525.48	-1,235.48	7,101.09	7,020.77	80.32	88.407		
10,350.00	7,726.09	7,313.00	7,249.50	133.37	28.29	86.81	1,525.48	-1,235.48	7,107.80	7,027.35	80.45	88.347		
10,400.00	7,729.50	7,313.00	7,249.50	133.26	28.29	86.30	1,525.48	-1,235.48	7,111.77	7,031.15	80.62	88.211		
10,427.79	7,730.00	7,313.00	7,249.50	133.18	28.29	86.20	1,525.48	-1,235.48	7,112.78	7,032.04	80.73	88.103		
10,500.00	7,730.00	7,313.00	7,249.50	132.98	28.29	86.20	1,525.48	-1,235.48	7,114.64	7,033.60	81.04	87.788		
10,600.00	7,730.00	8,293.00	7,789.70	132.72	29.19	90.55	774.53	-1,244.04	7,115.03	7,037.43	77.60	91.687		
10,700.00	7,730.00	8,314.68	7,790.68	132.47	29.27	90.56	752.90	-1,243.02	7,109.63	7,031.65	77.98	91.178		
10,800.00	7,730.00	8,382.00	7,792.09	132.22	29.52	90.57	685.67	-1,239.99	7,104.84	7,026.63	78.21	90.844		
10,900.00	7,730.00	8,456.57	7,792.14	131.99	29.85	90.57	611.16	-1,236.96	7,100.46	7,021.94	78.52	90.434		
11,000.00	7,730.00	8,508.20	7,792.15	131.77	30.12	90.57	559.56	-1,235.14	7,096.62	7,017.67	78.96	89.881		
11,100.00	7,730.00	8,560.00	7,792.56	131.56	30.40	90.58	507.78	-1,233.73	7,093.53	7,014.08	79.45	89.287		
11,200.00	7,730.00	8,603.34	7,792.97	131.36	30.66	90.58	464.45	-1,232.86	7,091.16	7,011.14	80.02	88.619		
11,300.00	7,730.00	8,649.00	7,793.17	131.17	30.95	90.58	418.80	-1,232.26	7,089.54	7,008.92	80.62	87.936		
11,400.00	7,730.00	8,714.87	7,792.77	130.99	31.40	90.58	352.93	-1,231.82	7,088.53	7,007.23	81.30	87.188		
11,500.00	7,730.00	8,801.90	7,790.53	130.82	32.06	90.56	265.94	-1,231.63	7,087.94	7,005.86	82.08	86.352		
11,600.00	7,730.00	8,894.04	7,786.49	130.66	32.82	90.53	173.88	-1,231.50	7,087.42	7,004.43	82.98	85.408		
11,680.68	7,730.00	8,942.85	7,784.42	130.54	33.24	90.51	125.11	-1,231.53	7,087.19	7,003.48	83.71	84.664		
11,700.00	7,730.00	8,951.96	7,784.10	130.51	33.33	90.51	116.01	-1,231.57	7,087.21	7,003.33	83.88	84.496		
11,800.00	7,730.00	9,006.00	7,782.80	130.37	33.81	90.50	61.99	-1,232.07	7,087.73	7,002.92	84.81	83.576		
11,900.00	7,730.00	9,362.00	7,761.22	130.24	37.53	90.33	-293.12	-1,232.15	7,089.92	7,001.38	87.64	80.890		
12,000.00	7,730.00	9,362.00	7,761.22	130.13	37.53	90.33	-293.12	-1,232.15	7,086.92	6,998.52	88.39	80.175		
12,100.00	7,730.00	9,408.69	7,761.01	130.02	38.07	90.32	-339.81	-1,231.49	7,085.56	6,996.01	89.55	79.126		
12,140.54	7,730.00	9,418.04	7,761.16	129.98	38.18	90.32	-349.15	-1,231.48	7,085.39	6,995.44	89.95	78.769		
12,200.00	7,730.00	9,451.00	7,762.22	129.93	38.56	90.33	-382.09	-1,231.78	7,085.57	6,994.88	90.70	78.123		
12,300.00	7,730.00	9,451.00	7,762.22	129.85	38.56	90.33	-382.09	-1,231.78	7,086.45	6,994.94	91.51	77.443		
12,400.00	7,730.00	9,523.06	7,765.57	129.77	39.43	90.36	-454.06	-1,233.20	7,088.15	6,995.16	92.98	76.230		
12,500.00	7,730.00	9,605.91	7,769.24	129.71	40.44	90.39	-536.80	-1,235.23	7,090.29	6,995.67	94.62	74.935		
12,600.00	7,730.00	9,859.17	7,774.54	129.66	43.69	90.43	-789.95	-1,239.75	7,092.24	6,994.02	98.21	72.212		
12,700.00	7,730.00	9,978.51	7,776.03	129.63	45.29	90.44	-909.27	-1,239.94	7,092.06	6,991.54	100.52	70.553		
12,762.27	7,730.00	10,025.69	7,776.10	129.61	45.94	90.45	-956.45	-1,240.05	7,091.98	6,990.32	101.66	69.761		
12,800.00	7,730.00	10,053.16	7,776.43	129.60	46.32	90.45	-983.93	-1,240.16	7,092.01	6,989.67	102.34	69.301		
12,900.00	7,730.00	10,130.96	7,778.07	129.59	47.40	90.46	-1,061.70	-1,240.65	7,092.32	6,988.08	104.24	68.036		
13,000.00	7,730.00	10,244.01	7,779.72	129.59	49.00	90.47	-1,174.73	-1,241.53	7,092.79	6,986.10	106.69	66.481		
13,100.00	7,730.00	10,320.02	7,780.23	129.60	50.09	90.48	-1,250.74	-1,242.09	7,093.20	6,984.54	108.66	65.278		
13,200.00	7,730.00	10,392.92	7,781.98	129.63	51.15	90.49	-1,323.61	-1,242.91	7,094.01	6,983.37	110.63	64.122		
13,300.00	7,730.00	10,457.37	7,783.45	129.66	52.09	90.50	-1,388.04	-1,243.89	7,095.22	6,982.72	112.50	63.068		
13,400.00	7,730.00	10,520.00	7,783.61	129.72	53.02	90.51	-1,450.65	-1,245.26	7,097.04	6,982.68	114.36	62.060		
13,500.00	7,730.00	10,603.78	7,784.08	129.78	54.26	90.51	-1,534.40	-1,247.41	7,099.26	6,982.69	116.58	60.898		
13,600.00	7,730.00	10,668.02	7,785.46	129.86	55.22	90.52	-1,598.60	-1,249.21	7,101.75	6,983.24	118.52	59.923		
13,700.00	7,730.00	11,233.00	7,787.01	129.96	63.95	90.53	-2,163.01	-1,247.02	7,100.06	6,970.68	129.38	54.880		
13,800.00	7,730.00	11,240.17	7,787.18	130.07	64.06	90.53	-2,170.17	-1,246.86	7,096.97	6,966.57	130.40	54.423		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	11,322.00	7,789.29	130.19	65.37	90.55	-2,251.96	-1,245.15	7,094.58	6,961.72	132.86	53.399		
14,000.00	7,730.00	11,385.14	7,790.08	130.33	66.37	90.56	-2,315.08	-1,244.08	7,092.58	6,957.61	134.97	52.549		
14,100.00	7,730.00	11,536.06	7,790.28	130.49	68.80	90.56	-2,465.97	-1,241.53	7,090.57	6,951.76	138.81	51.079		
14,200.00	7,730.00	11,616.99	7,794.40	130.67	70.11	90.59	-2,546.77	-1,239.90	7,088.26	6,946.92	141.34	50.150		
14,300.00	7,730.00	11,688.67	7,799.56	130.86	71.27	90.64	-2,618.25	-1,238.68	7,086.31	6,942.60	143.70	49.312		
14,400.00	7,730.00	11,755.28	7,805.09	131.07	72.36	90.68	-2,684.63	-1,237.84	7,084.79	6,938.82	145.97	48.535		
14,500.00	7,730.00	11,828.11	7,810.91	131.30	73.54	90.73	-2,757.22	-1,237.23	7,083.72	6,935.33	148.38	47.739		
14,600.00	7,730.00	11,928.50	7,816.17	131.55	75.19	90.77	-2,857.47	-1,236.68	7,082.90	6,931.52	151.38	46.790		
14,700.00	7,730.00	12,107.54	7,819.45	131.82	78.13	90.80	-3,036.45	-1,234.54	7,081.35	6,925.30	156.05	45.379		
14,800.00	7,730.00	12,213.00	7,817.20	132.11	79.87	90.78	-3,141.86	-1,232.60	7,079.13	6,919.95	159.18	44.472		
14,900.00	7,730.00	12,244.43	7,815.87	132.42	80.39	90.77	-3,173.26	-1,232.17	7,077.48	6,916.74	160.74	44.031		
15,000.00	7,730.00	12,269.95	7,814.72	132.75	80.81	90.76	-3,198.75	-1,232.12	7,076.89	6,914.72	162.16	43.641		
15,036.54	7,730.00	12,302.00	7,813.17	132.88	81.34	90.75	-3,230.76	-1,232.44	7,077.08	6,913.90	163.17	43.372		
15,100.00	7,730.00	12,302.00	7,813.17	133.10	81.34	90.75	-3,230.76	-1,232.44	7,077.36	6,913.64	163.72	43.228		
15,200.00	7,730.00	12,425.18	7,808.40	133.48	83.37	90.71	-3,353.84	-1,233.70	7,077.97	6,910.71	167.26	42.317		
15,300.00	7,730.00	12,630.49	7,807.36	133.88	86.78	90.70	-3,559.13	-1,234.86	7,078.60	6,905.93	172.67	40.995		
15,400.00	7,730.00	12,723.62	7,805.07	134.31	88.34	90.68	-3,652.23	-1,234.25	7,077.60	6,901.98	175.62	40.300		
15,482.40	7,730.00	12,748.00	7,804.91	134.68	88.74	90.68	-3,676.61	-1,234.15	7,077.18	6,900.29	176.89	40.010		
15,500.00	7,730.00	12,748.00	7,804.91	134.76	88.74	90.68	-3,676.61	-1,234.15	7,077.20	6,900.16	177.04	39.976		
15,600.00	7,730.00	12,786.35	7,805.08	135.23	89.38	90.68	-3,714.96	-1,234.37	7,077.71	6,898.94	178.76	39.593		
15,700.00	7,730.00	12,837.00	7,806.04	135.73	90.23	90.69	-3,765.58	-1,235.70	7,079.60	6,898.83	180.77	39.165		
15,800.00	7,730.00	12,837.00	7,806.04	136.26	90.23	90.69	-3,765.58	-1,235.70	7,082.12	6,900.53	181.60	38.999		
15,900.00	7,730.00	12,896.19	7,807.61	136.81	91.21	90.70	-3,824.71	-1,238.04	7,085.72	6,901.94	183.78	38.555		
16,000.00	7,730.00	13,600.31	7,822.12	137.39	103.08	90.82	-4,527.99	-1,238.23	7,086.47	6,885.39	201.08	35.243		
16,100.00	7,730.00	13,639.00	7,823.71	138.00	103.75	90.83	-4,566.62	-1,236.77	7,082.28	6,879.38	202.90	34.906		
16,200.00	7,730.00	13,639.00	7,823.71	138.63	103.75	90.83	-4,566.62	-1,236.77	7,079.14	6,875.35	203.79	34.737		
16,300.00	7,730.00	13,681.88	7,825.06	139.30	104.48	90.84	-4,609.47	-1,235.82	7,076.90	6,871.21	205.69	34.406		
16,400.00	7,730.00	13,728.00	7,825.86	139.99	105.26	90.85	-4,655.58	-1,235.65	7,075.91	6,868.26	207.65	34.076		
16,461.36	7,730.00	13,728.00	7,825.86	140.42	105.26	90.85	-4,655.58	-1,235.65	7,075.65	6,867.48	208.17	33.990		
16,500.00	7,730.00	13,743.06	7,826.00	140.70	105.52	90.85	-4,670.64	-1,235.75	7,075.73	6,866.87	208.86	33.879		
16,600.00	7,730.00	13,951.09	7,825.24	141.45	109.06	90.84	-4,878.66	-1,235.09	7,074.82	6,860.12	214.71	32.951		
16,700.00	7,730.00	13,995.00	7,825.49	142.22	109.81	90.85	-4,922.56	-1,235.03	7,074.17	6,857.55	216.62	32.658		
16,800.00	7,730.00	14,118.12	7,826.03	143.03	111.91	90.85	-5,045.67	-1,234.82	7,073.69	6,853.24	220.45	32.087		
16,900.00	7,730.00	14,173.00	7,827.30	143.86	112.85	90.86	-5,100.54	-1,234.70	7,073.22	6,850.58	222.63	31.771		
16,905.72	7,730.00	14,173.00	7,827.30	143.90	112.85	90.86	-5,100.54	-1,234.70	7,073.21	6,850.53	222.68	31.764		
17,000.00	7,730.00	14,205.18	7,828.20	144.71	113.40	90.87	-5,132.71	-1,234.89	7,073.57	6,849.32	224.25	31.544		
17,100.00	7,730.00	14,467.90	7,825.68	145.60	117.89	90.85	-5,395.35	-1,236.46	7,074.67	6,843.15	231.53	30.557		
17,200.00	7,730.00	14,530.00	7,824.70	146.51	118.96	90.84	-5,457.44	-1,236.17	7,073.72	6,839.83	233.90	30.243		
17,300.00	7,730.00	14,652.80	7,825.77	147.44	121.07	90.85	-5,580.22	-1,235.02	7,072.41	6,834.63	237.78	29.744		
17,400.00	7,730.00	14,708.00	7,827.07	148.40	122.02	90.86	-5,635.41	-1,234.88	7,071.70	6,831.72	239.99	29.467		
17,441.18	7,730.00	14,708.00	7,827.07	148.81	122.02	90.86	-5,635.41	-1,234.88	7,071.58	6,831.26	240.33	29.425		
17,500.00	7,730.00	14,735.05	7,827.74	149.39	122.48	90.86	-5,662.45	-1,235.04	7,071.73	6,830.25	241.48	29.285		
17,600.00	7,730.00	14,797.00	7,828.95	150.40	123.54	90.87	-5,724.38	-1,235.74	7,072.51	6,828.67	243.85	29.004		
17,700.00	7,730.00	14,886.00	7,829.05	151.44	125.07	90.88	-5,813.37	-1,236.94	7,073.53	6,826.65	246.89	28.651		
17,800.00	7,730.00	14,935.15	7,828.69	152.50	125.91	90.87	-5,862.52	-1,237.78	7,074.96	6,826.05	248.91	28.424		
17,900.00	7,730.00	14,976.00	7,828.84	153.58	126.61	90.87	-5,903.35	-1,238.85	7,077.24	6,826.53	250.71	28.229		
18,000.00	7,730.00	15,091.20	7,829.84	154.68	128.58	90.88	-6,018.49	-1,242.32	7,079.95	6,825.52	254.43	27.827		
18,100.00	7,730.00	15,332.00	7,829.54	155.80	132.72	90.88	-6,259.26	-1,245.29	7,080.01	6,818.63	261.38	27.087		
18,200.00	7,730.00	15,388.46	7,829.93	156.95	133.69	90.88	-6,315.71	-1,245.60	7,080.47	6,816.86	263.61	26.859		
18,300.00	7,730.00	15,421.00	7,830.84	158.11	134.26	90.89	-6,348.23	-1,246.22	7,082.07	6,816.85	265.22	26.703		
18,400.00	7,730.00	15,528.88	7,834.43	159.30	136.11	90.92	-6,456.03	-1,248.66	7,084.04	6,815.26	268.78	26.356		
18,500.00	7,730.00	18,500.00	7,836.32	160.50	187.28	90.93	-6,571.70	-1,251.33	7,086.06	6,764.34	321.72	22.025		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 177-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,600.00	7,730.00	15,771.82	7,839.36	161.72	140.30	90.96	-6,698.86	-1,253.47	7,087.40	6,810.78	276.63	25.621		
18,700.00	7,730.00	16,091.36	7,842.18	162.96	145.82	90.98	-7,018.31	-1,255.04	7,088.39	6,802.74	285.66	24.814		
18,800.00	7,730.00	16,134.00	7,843.38	164.21	146.57	90.99	-7,060.93	-1,254.60	7,087.05	6,799.47	287.58	24.643		
18,900.00	7,730.00	16,184.10	7,844.99	165.48	147.44	91.00	-7,111.01	-1,254.45	7,086.47	6,796.78	289.69	24.462		
18,934.24	7,730.00	16,201.51	7,845.51	165.92	147.74	91.01	-7,128.40	-1,254.48	7,086.43	6,796.01	290.42	24.401		
19,000.00	7,730.00	16,223.00	7,846.14	166.76	148.11	91.01	-7,149.89	-1,254.57	7,086.60	6,795.10	291.49	24.311		
19,100.00	7,730.00	16,291.08	7,847.22	168.06	149.29	91.02	-7,217.96	-1,255.25	7,087.33	6,793.29	294.04	24.103		
19,200.00	7,730.00	16,361.28	7,847.17	169.38	150.50	91.02	-7,288.15	-1,256.43	7,088.66	6,792.02	296.64	23.896		
19,300.00	7,730.00	16,553.00	7,850.63	170.70	153.82	91.05	-7,479.81	-1,258.64	7,089.51	6,787.05	302.45	23.440		
19,400.00	7,730.00	16,695.05	7,856.62	172.04	156.29	91.10	-7,621.73	-1,258.73	7,089.27	6,782.30	306.97	23.094		
19,500.00	7,730.00	16,766.31	7,858.25	173.40	157.53	91.11	-7,692.97	-1,258.86	7,089.13	6,779.50	309.63	22.896		
19,538.00	7,730.00	16,868.67	7,860.40	173.91	159.31	91.13	-7,795.31	-1,258.60	7,088.85	6,776.24	312.61	22.676		
19,600.00	7,730.00	16,923.34	7,861.88	174.76	160.27	91.14	-7,849.96	-1,258.29	7,088.33	6,773.79	314.54	22.535		
19,700.00	7,730.00	16,973.61	7,863.07	176.14	161.14	91.15	-7,900.21	-1,258.18	7,087.85	6,771.20	316.65	22.384		
19,710.82	7,730.00	16,978.36	7,863.13	176.29	161.22	91.15	-7,904.96	-1,258.19	7,087.85	6,770.99	316.86	22.369		
19,800.00	7,730.00	17,025.00	7,863.27	177.52	162.03	91.15	-7,951.60	-1,258.54	7,088.17	6,769.39	318.78	22.235		
19,900.00	7,730.00	17,280.90	7,869.47	178.92	166.49	91.20	-8,207.39	-1,257.24	7,086.91	6,760.60	326.31	21.719		
20,000.00	7,730.00	17,364.91	7,869.58	180.33	167.96	91.20	-8,291.39	-1,256.27	7,085.42	6,756.11	329.32	21.516		
20,100.00	7,730.00	17,471.00	7,867.23	181.75	169.81	91.18	-8,397.45	-1,254.81	7,083.64	6,750.75	332.89	21.279		
20,184.95	7,730.00	17,471.00	7,867.23	182.96	169.81	91.18	-8,397.45	-1,254.81	7,082.91	6,749.34	333.58	21.233 SF		

Anticollision Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-55.38	787.62	-1,140.97	1,386.45					
100.00	100.00	89.96	89.96	0.13	0.15	-55.38	787.65	-1,140.99	1,386.46	1,386.17	0.28	4,881.981	ES	
200.00	199.98	188.79	188.79	0.49	0.31	-125.87	787.78	-1,141.04	1,387.60	1,386.79	0.80	1,724.629		
300.00	299.84	287.50	287.50	0.86	0.48	-125.99	787.99	-1,141.14	1,390.87	1,389.54	1.33	1,044.220		
400.00	399.45	383.16	383.16	1.23	0.76	-126.16	788.37	-1,141.28	1,396.36	1,394.38	1.99	701.857		
500.00	498.70	477.22	477.21	1.63	1.10	-126.39	789.16	-1,141.55	1,404.32	1,401.61	2.71	517.615		
600.00	597.47	570.82	570.80	2.05	1.44	-126.67	790.39	-1,141.94	1,414.78	1,411.33	3.45	409.922		
700.00	695.62	671.94	671.92	2.51	1.80	-127.05	791.98	-1,142.34	1,427.55	1,423.32	4.24	337.047		
800.00	793.06	758.28	758.24	3.00	2.11	-127.40	793.32	-1,142.91	1,442.79	1,437.80	4.99	289.136		
900.00	889.64	854.47	854.40	3.53	2.45	-127.85	795.22	-1,143.80	1,460.77	1,454.97	5.80	251.686		
1,000.00	985.27	960.31	960.23	4.12	2.83	-128.45	797.10	-1,144.39	1,480.72	1,474.04	6.68	221.688		
1,100.00	1,079.82	1,056.87	1,056.72	4.75	3.18	-128.94	800.39	-1,143.62	1,502.79	1,495.24	7.55	199.079		
1,200.00	1,173.17	1,163.08	1,162.81	5.44	3.56	-129.51	805.11	-1,141.78	1,527.05	1,518.57	8.48	180.007		
1,300.00	1,265.21	1,265.09	1,264.68	6.18	3.92	-130.08	809.66	-1,138.96	1,552.96	1,543.53	9.43	164.645		
1,400.00	1,355.84	1,351.81	1,351.22	6.99	4.23	-130.49	814.38	-1,136.07	1,581.38	1,571.02	10.36	152.714		
1,500.00	1,444.94	1,442.33	1,441.36	7.87	4.57	-130.87	821.69	-1,132.15	1,612.63	1,601.30	11.33	142.352		
1,600.00	1,532.39	1,536.41	1,534.71	8.80	4.92	-131.20	831.97	-1,126.70	1,646.34	1,633.98	12.36	133.237		
1,700.00	1,618.11	1,628.23	1,625.46	9.81	5.28	-131.44	844.28	-1,120.15	1,682.38	1,668.96	13.42	125.386		
1,800.00	1,701.97	1,695.98	1,692.25	10.89	5.55	-131.43	854.51	-1,115.18	1,721.36	1,706.96	14.40	119.518		
1,900.00	1,783.88	1,761.39	1,756.72	12.04	5.81	-131.37	864.86	-1,111.14	1,763.94	1,748.54	15.40	114.558		
2,000.00	1,863.74	1,825.54	1,819.94	13.26	6.07	-131.27	875.21	-1,107.91	1,809.96	1,793.55	16.40	110.333		
2,100.00	1,941.45	1,886.61	1,880.14	14.55	6.32	-131.12	885.22	-1,105.53	1,859.38	1,841.97	17.41	106.806		
2,200.00	2,016.92	1,942.90	1,935.63	15.92	6.56	-130.87	894.55	-1,104.01	1,912.17	1,893.78	18.40	103.944		
2,292.11	2,084.36	1,992.24	1,984.28	17.25	6.76	-130.58	902.76	-1,103.31	1,963.78	1,944.48	19.30	101.773		
2,300.00	2,090.06	1,999.33	1,991.26	17.36	6.79	-130.68	903.94	-1,103.25	1,968.32	1,948.93	19.39	101.502		
2,400.00	2,162.18	2,106.54	2,096.99	18.84	7.24	-132.09	921.65	-1,101.72	2,025.78	2,005.09	20.69	97.911		
2,500.00	2,234.31	2,223.04	2,211.65	20.33	7.73	-133.46	941.62	-1,096.68	2,081.42	2,059.36	22.06	94.372		
2,600.00	2,306.43	2,297.24	2,284.61	21.83	8.05	-134.27	954.70	-1,093.16	2,137.45	2,114.30	23.15	92.315		
2,700.00	2,378.56	2,372.30	2,358.43	23.33	8.38	-135.06	967.83	-1,089.69	2,193.90	2,169.66	24.25	90.486		
2,800.00	2,450.68	2,443.04	2,428.07	24.84	8.69	-135.78	979.85	-1,086.72	2,250.89	2,225.60	25.29	88.991		
2,900.00	2,522.81	2,517.39	2,501.33	26.36	9.01	-136.52	992.24	-1,083.84	2,308.36	2,282.01	26.35	87.605		
3,000.00	2,594.93	2,630.05	2,612.39	27.88	9.50	-137.59	1,010.54	-1,079.20	2,365.99	2,338.34	27.65	85.571		
3,100.00	2,667.06	2,774.92	2,754.85	29.40	10.14	-138.83	1,034.33	-1,068.25	2,420.64	2,391.47	29.17	82.982		
3,200.00	2,739.18	2,830.00	2,808.95	30.92	10.39	-139.26	1,043.88	-1,064.24	2,476.32	2,446.23	30.09	82.299		
3,300.00	2,811.31	2,869.19	2,847.50	32.45	10.56	-139.57	1,050.55	-1,061.94	2,533.18	2,502.31	30.87	82.050		
3,400.00	2,883.43	2,927.04	2,904.53	33.98	10.81	-140.03	1,059.86	-1,059.08	2,591.01	2,559.24	31.76	81.568		
3,500.00	2,955.56	2,991.95	2,968.65	35.51	11.09	-140.55	1,069.60	-1,056.41	2,649.53	2,616.85	32.68	81.072		
3,600.00	3,027.68	3,600.00	3,138.49	37.04	13.65	-141.92	1,091.93	-1,047.21	2,706.93	2,670.82	36.11	74.964		
3,700.00	3,099.81	3,253.83	3,227.64	38.57	12.20	-142.57	1,104.35	-1,040.13	2,762.78	2,727.42	35.36	78.128		
3,800.00	3,171.93	3,311.83	3,284.83	40.11	12.45	-142.96	1,113.07	-1,035.84	2,819.39	2,783.18	36.22	77.847		
3,900.00	3,244.06	3,373.76	3,346.02	41.64	12.72	-143.38	1,121.70	-1,031.83	2,876.75	2,839.67	37.08	77.581		
4,000.00	3,316.18	3,472.02	3,442.94	43.18	13.15	-143.99	1,136.47	-1,025.20	2,934.22	2,896.01	38.20	76.805		
4,100.00	3,388.31	3,523.41	3,493.63	44.71	13.37	-144.31	1,144.20	-1,021.92	2,992.05	2,953.06	38.98	76.750		
4,200.00	3,460.43	3,581.95	3,551.48	46.25	13.63	-144.66	1,152.55	-1,018.58	3,050.54	3,010.74	39.80	76.654		
4,300.00	3,532.56	3,665.90	3,634.63	47.79	13.98	-145.19	1,163.39	-1,014.43	3,109.63	3,068.86	40.77	76.276		
4,400.00	3,604.68	3,761.48	3,729.27	49.33	14.38	-145.76	1,175.33	-1,008.64	3,167.88	3,126.07	41.82	75.759		
4,500.00	3,676.81	3,810.00	3,777.20	50.87	14.59	-146.03	1,182.39	-1,005.85	3,226.80	3,184.27	42.53	75.867		
4,600.00	3,748.93	3,870.32	3,836.64	52.41	14.86	-146.33	1,192.15	-1,002.70	3,286.40	3,243.06	43.35	75.812		
4,700.00	3,821.06	3,919.61	3,885.14	53.95	15.08	-146.56	1,200.63	-1,000.42	3,346.66	3,302.58	44.07	75.934		
4,800.00	3,893.18	3,960.74	3,925.71	55.49	15.26	-146.75	1,207.26	-999.00	3,407.79	3,363.07	44.71	76.213		
4,900.00	3,965.31	4,028.10	3,992.32	57.03	15.55	-147.09	1,217.12	-997.44	3,469.73	3,424.19	45.55	76.181		
5,000.00	4,037.43	4,142.41	4,105.28	58.58	16.04	-147.63	1,234.25	-993.88	3,531.21	3,484.45	46.76	75.519		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,273.02	4,233.82	60.12	16.63	-148.16	1,256.56	-987.71	3,591.60	3,543.46	48.15	74.597		
5,200.00	4,181.68	4,321.17	4,281.19	61.66	16.85	-148.35	1,264.88	-985.35	3,652.04	3,603.19	48.85	74.767		
5,300.00	4,253.81	4,395.11	4,353.91	63.20	17.18	-148.62	1,277.84	-982.20	3,713.04	3,663.28	49.76	74.619		
5,400.00	4,325.93	5,400.00	4,432.64	64.75	21.75	-148.91	1,291.95	-978.54	3,773.86	3,718.95	54.91	68.729		
5,500.00	4,398.06	4,523.68	4,480.40	66.29	17.76	-149.09	1,300.19	-976.52	3,835.07	3,783.66	51.41	74.599		
5,600.00	4,470.18	4,629.75	4,585.05	67.84	18.23	-149.48	1,317.06	-972.80	3,896.87	3,844.31	52.56	74.135		
5,700.00	4,542.31	5,700.00	4,825.53	69.38	23.19	-150.33	1,355.71	-957.02	3,956.22	3,897.59	58.63	67.474		
5,800.00	4,614.43	4,993.90	4,943.01	70.92	19.89	-150.66	1,377.52	-945.68	4,013.31	3,957.15	56.16	71.461		
5,900.00	4,686.56	5,049.89	4,997.85	72.47	20.15	-150.82	1,387.56	-940.45	4,070.65	4,013.72	56.93	71.499		
6,000.00	4,758.68	5,090.00	5,037.21	74.01	20.34	-150.93	1,394.44	-936.95	4,128.59	4,071.03	57.56	71.726		
6,100.00	4,830.81	5,146.47	5,092.77	75.56	20.59	-151.10	1,403.51	-932.49	4,187.15	4,128.84	58.30	71.818		
6,200.00	4,902.93	5,299.83	5,243.96	77.10	21.27	-151.58	1,425.90	-920.05	4,245.52	4,185.72	59.80	70.995		
6,300.00	4,975.06	5,357.00	5,300.35	78.65	21.53	-151.76	1,433.96	-915.14	4,303.46	4,242.93	60.53	71.098		
6,400.00	5,047.18	5,415.97	5,358.48	80.19	21.79	-151.93	1,442.61	-910.36	4,361.87	4,300.59	61.27	71.186		
6,500.00	5,119.31	5,475.51	5,417.05	81.74	22.06	-152.09	1,452.25	-905.64	4,420.56	4,358.52	62.03	71.261		
6,600.00	5,191.43	5,536.00	5,476.59	83.28	22.33	-152.25	1,462.00	-901.27	4,479.80	4,417.00	62.80	71.336		
6,700.00	5,263.56	5,577.59	5,517.59	84.83	22.52	-152.36	1,468.40	-898.53	4,539.54	4,476.15	63.39	71.615		
6,800.00	5,335.68	5,625.00	5,564.43	86.37	22.73	-152.50	1,475.13	-895.67	4,599.82	4,535.80	64.01	71.856		
6,900.00	5,407.81	5,680.43	5,619.18	87.92	22.97	-152.65	1,483.22	-892.65	4,660.59	4,595.88	64.71	72.026		
7,000.00	5,479.93	5,714.00	5,652.27	89.47	23.12	-152.73	1,488.66	-890.97	4,721.90	4,656.69	65.21	72.408		
7,100.00	5,552.06	5,764.22	5,701.77	91.01	23.34	-152.85	1,496.86	-888.84	4,783.79	4,717.93	65.86	72.632		
7,200.00	5,624.18	5,803.00	5,740.06	92.56	23.51	-152.95	1,502.86	-887.60	4,846.40	4,780.00	66.40	72.986		
7,300.00	5,696.31	5,885.75	5,821.65	94.10	23.88	-153.14	1,516.48	-885.21	4,909.32	4,841.97	67.35	72.895		
7,400.00	5,768.43	5,934.81	5,869.92	95.65	24.10	-153.24	1,525.08	-883.85	4,972.37	4,904.38	67.99	73.135		
7,500.00	5,840.56	6,146.85	6,079.43	97.20	25.02	-153.76	1,556.35	-875.18	5,033.98	4,963.94	70.05	71.867		
7,600.00	5,912.68	6,189.18	6,121.31	98.74	25.20	-153.86	1,562.17	-873.16	5,095.52	5,024.92	70.60	72.174		
7,700.00	5,984.81	6,228.42	6,160.19	100.29	25.36	-153.96	1,567.26	-871.57	5,157.66	5,086.54	71.12	72.521		
7,800.00	6,056.93	6,292.02	6,223.27	101.84	25.63	-154.12	1,575.10	-869.42	5,220.31	5,148.47	71.84	72.670		
7,900.00	6,129.06	6,366.56	6,297.15	103.38	25.94	-154.31	1,584.61	-866.84	5,282.96	5,210.32	72.65	72.720		
8,000.00	6,201.18	6,427.54	6,357.47	104.93	26.20	-154.45	1,593.32	-864.89	5,345.85	5,272.49	73.36	72.872		
8,100.00	6,273.31	8,100.00	6,534.49	106.48	33.80	-154.78	1,622.85	-857.09	5,407.53	5,325.63	81.90	66.026		
8,200.00	6,345.43	7,140.00	7,060.46	108.02	29.04	-156.25	1,663.67	-810.14	5,467.31	5,388.24	79.07	69.148		
8,300.00	6,417.56	7,140.00	7,060.46	109.57	29.04	-156.25	1,663.67	-810.14	5,522.97	5,443.64	79.33	69.618		
8,400.00	6,489.68	7,140.00	7,060.46	111.12	29.04	-156.25	1,663.67	-810.14	5,579.88	5,500.30	79.58	70.118		
8,500.00	6,561.81	7,179.76	7,099.40	112.66	29.11	-156.46	1,657.42	-805.20	5,636.76	5,556.87	79.88	70.562		
8,600.00	6,633.93	7,187.93	7,107.38	114.21	29.12	-156.51	1,655.81	-804.46	5,695.45	5,615.34	80.11	71.093		
8,700.00	6,706.06	7,229.00	7,147.18	115.76	29.19	-156.76	1,646.02	-802.11	5,756.05	5,675.69	80.36	71.626		
8,800.00	6,778.18	7,229.00	7,147.18	117.30	29.19	-156.76	1,646.02	-802.11	5,816.46	5,735.90	80.55	72.206		
8,900.00	6,850.31	7,229.00	7,147.18	118.85	29.19	-156.76	1,646.02	-802.11	5,877.94	5,797.21	80.73	72.811		
9,000.00	6,922.43	7,229.00	7,147.18	120.40	29.19	-156.76	1,646.02	-802.11	5,940.47	5,859.58	80.89	73.439		
9,100.00	6,994.56	7,229.00	7,147.18	121.95	29.19	-156.76	1,646.02	-802.11	6,004.02	5,922.98	81.04	74.089		
9,200.00	7,066.68	7,229.00	7,147.18	123.49	29.19	-156.76	1,646.02	-802.11	6,068.55	5,987.37	81.17	74.761		
9,300.00	7,138.81	7,229.00	7,147.18	125.04	29.19	-156.76	1,646.02	-802.11	6,134.03	6,052.73	81.30	75.453		
9,392.50	7,205.52	7,229.00	7,147.18	126.47	29.19	-156.76	1,646.02	-802.11	6,195.41	6,114.01	81.40	76.111		
9,400.00	7,210.94	7,229.00	7,147.18	126.59	29.19	-158.19	1,646.02	-802.11	6,200.43	6,119.02	81.41	76.165		
9,450.00	7,247.42	7,229.00	7,147.18	127.35	29.19	-167.98	1,646.02	-802.11	6,234.22	6,152.77	81.46	76.536		
9,500.00	7,284.35	7,267.82	7,184.25	128.10	29.22	-178.27	1,634.52	-801.54	6,267.73	6,186.21	81.52	76.889		
9,550.00	7,321.43	7,273.83	7,189.93	128.83	29.22	171.53	1,632.57	-801.54	6,301.84	6,220.30	81.54	77.283		
9,600.00	7,358.38	7,279.98	7,195.74	129.52	29.23	161.48	1,630.53	-801.57	6,335.80	6,254.24	81.55	77.688		
9,650.00	7,394.93	7,318.00	7,231.21	130.16	29.25	151.79	1,616.88	-802.36	6,369.81	6,288.26	81.55	78.110		
9,700.00	7,430.79	7,318.00	7,231.21	130.76	29.25	142.70	1,616.88	-802.36	6,402.52	6,320.99	81.53	78.525		
9,750.00	7,465.70	7,318.00	7,231.21	131.30	29.25	134.27	1,616.88	-802.36	6,434.37	6,352.86	81.51	78.940		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,318.00	7,231.21	131.78	29.25	126.60	1,616.88	-802.36	6,465.13	6,383.65	81.48	79.349		
9,850.00	7,531.58	7,318.00	7,231.21	132.21	29.25	119.69	1,616.88	-802.36	6,494.57	6,413.13	81.44	79.745		
9,900.00	7,562.06	7,318.00	7,231.21	132.57	29.25	113.55	1,616.88	-802.36	6,522.50	6,441.10	81.41	80.121		
9,950.00	7,590.58	7,318.00	7,231.21	132.87	29.25	108.16	1,616.88	-802.36	6,548.73	6,467.35	81.38	80.471		
10,000.00	7,616.93	7,345.30	7,256.27	133.11	29.25	103.62	1,606.09	-803.38	6,572.91	6,491.57	81.34	80.804		
10,050.00	7,640.90	7,358.51	7,268.28	133.29	29.26	99.66	1,600.62	-803.93	6,595.01	6,513.68	81.33	81.089		
10,100.00	7,662.32	7,371.54	7,280.04	133.42	29.26	96.32	1,595.06	-804.51	6,614.86	6,533.52	81.34	81.326		
10,150.00	7,681.01	7,408.00	7,312.55	133.50	29.26	93.69	1,578.65	-806.35	6,632.44	6,551.10	81.33	81.546		
10,200.00	7,696.85	10,200.00	7,447.91	133.52	29.55	92.27	1,481.81	-811.91	6,647.27	6,568.37	78.90	84.248		
10,250.00	7,709.70	7,586.00	7,456.15	133.51	29.15	90.54	1,474.85	-812.11	6,658.64	6,577.81	80.83	82.377		
10,300.00	7,719.47	7,586.00	7,456.15	133.46	29.15	89.21	1,474.85	-812.11	6,667.45	6,586.48	80.97	82.340		
10,350.00	7,726.09	7,622.00	7,480.59	133.37	29.10	88.49	1,448.43	-812.54	6,673.06	6,592.14	80.92	82.467		
10,400.00	7,729.50	7,628.49	7,484.81	133.26	29.09	88.06	1,443.50	-812.72	6,676.39	6,595.29	81.09	82.331		
10,427.79	7,730.00	7,632.02	7,487.08	133.18	29.09	87.99	1,440.80	-812.83	6,677.07	6,595.86	81.21	82.224		
10,500.00	7,730.00	7,675.00	7,513.28	132.98	29.03	88.22	1,406.81	-814.90	6,678.63	6,597.36	81.27	82.180		
10,600.00	7,730.00	8,177.00	7,693.60	132.72	28.82	89.76	943.56	-815.13	6,678.43	6,600.49	77.94	85.684		
10,700.00	7,730.00	8,251.60	7,701.51	132.47	28.95	89.83	869.44	-812.70	6,674.76	6,596.74	78.02	85.552		
10,800.00	7,730.00	8,508.78	7,698.44	132.22	29.87	89.81	612.62	-800.85	6,669.43	6,591.99	77.44	86.127		
10,900.00	7,730.00	8,566.00	7,698.30	131.99	30.16	89.80	555.47	-797.99	6,664.00	6,586.14	77.87	85.583		
11,000.00	7,730.00	8,566.00	7,698.30	131.77	30.16	89.80	555.47	-797.99	6,659.52	6,581.07	78.44	84.895		
11,100.00	7,730.00	8,619.78	7,698.57	131.56	30.49	89.81	501.73	-796.06	6,655.84	6,576.86	78.98	84.267		
11,200.00	7,730.00	8,655.00	7,699.12	131.36	30.70	89.81	466.52	-795.31	6,653.31	6,573.73	79.58	83.605		
11,300.00	7,730.00	8,744.00	7,701.37	131.17	31.32	89.83	377.57	-793.66	6,651.14	6,570.90	80.24	82.890		
11,400.00	7,730.00	8,785.04	7,702.74	130.99	31.64	89.84	336.56	-793.08	6,649.55	6,568.59	80.96	82.132		
11,500.00	7,730.00	8,833.00	7,704.58	130.82	32.00	89.86	288.63	-793.18	6,649.15	6,567.43	81.72	81.365		
11,515.68	7,730.00	8,833.00	7,704.58	130.79	32.00	89.86	288.63	-793.18	6,649.14	6,567.30	81.84	81.250		
11,600.00	7,730.00	8,833.00	7,704.58	130.66	32.00	89.86	288.63	-793.18	6,649.67	6,567.23	82.44	80.661		
11,700.00	7,730.00	8,879.26	7,706.25	130.51	32.39	89.87	242.40	-793.99	6,651.22	6,567.94	83.27	79.874		
11,800.00	7,730.00	8,922.00	7,707.41	130.37	32.74	89.88	199.70	-795.29	6,653.81	6,569.69	84.12	79.099		
11,900.00	7,730.00	8,996.04	7,709.33	130.24	33.40	89.90	125.74	-798.00	6,657.08	6,571.97	85.11	78.217		
12,000.00	7,730.00	9,310.71	7,713.61	130.13	36.56	89.94	-188.84	-803.50	6,657.83	6,570.32	87.50	76.087		
12,100.00	7,730.00	9,545.00	7,709.56	130.02	39.27	89.90	-423.07	-802.89	6,657.65	6,567.50	90.15	73.853		
12,200.00	7,730.00	9,577.86	7,708.78	129.93	39.67	89.89	-455.92	-802.52	6,656.22	6,564.99	91.23	72.963		
12,300.00	7,730.00	9,634.00	7,707.61	129.85	40.36	89.88	-512.05	-802.74	6,656.00	6,563.45	92.55	71.918		
12,316.39	7,730.00	9,634.00	7,707.61	129.83	40.36	89.88	-512.05	-802.74	6,655.98	6,563.30	92.68	71.814		
12,400.00	7,730.00	9,707.41	7,706.30	129.77	41.28	89.87	-585.45	-803.42	6,656.43	6,562.33	94.09	70.743		
12,500.00	7,730.00	12,500.00	7,704.00	129.71	78.25	89.85	-769.97	-802.85	6,655.64	6,524.18	131.46	50.630		
12,600.00	7,730.00	9,901.00	7,703.92	129.66	43.81	89.85	-779.01	-802.78	6,655.15	6,557.26	97.88	67.990		
12,622.66	7,730.00	9,933.45	7,703.68	129.65	44.24	89.85	-811.47	-802.65	6,654.89	6,556.42	98.47	67.585		
12,622.68	7,730.00	9,933.46	7,703.68	129.65	44.24	89.85	-811.47	-802.65	6,654.89	6,556.42	98.47	67.585		
12,700.00	7,730.00	9,950.90	7,703.55	129.63	44.48	89.85	-828.91	-802.80	6,655.32	6,556.01	99.31	67.016		
12,800.00	7,730.00	9,990.00	7,703.26	129.60	45.00	89.85	-868.00	-803.72	6,656.99	6,556.38	100.62	66.161		
12,900.00	7,730.00	10,030.00	7,702.92	129.59	45.55	89.84	-907.97	-805.02	6,659.58	6,557.62	101.96	65.317		
13,000.00	7,730.00	10,466.55	7,712.35	129.59	51.77	89.93	-1,344.30	-807.08	6,659.16	6,550.02	109.14	61.016		
13,100.00	7,730.00	10,525.00	7,713.22	129.60	52.63	89.93	-1,402.73	-806.22	6,657.30	6,546.40	110.90	60.032		
13,200.00	7,730.00	10,614.00	7,713.39	129.63	53.96	89.93	-1,491.72	-804.85	6,655.46	6,542.28	113.18	58.805		
13,300.00	7,730.00	10,673.08	7,713.41	129.66	54.85	89.93	-1,550.79	-804.11	6,654.06	6,539.07	114.99	57.865		
13,400.00	7,730.00	10,725.48	7,713.58	129.72	55.64	89.94	-1,603.19	-804.14	6,653.68	6,536.98	116.71	57.011		
13,500.00	7,730.00	10,882.00	7,715.10	129.78	58.03	89.95	-1,759.70	-803.58	6,652.90	6,532.62	120.29	55.309		
13,600.00	7,730.00	10,937.51	7,715.91	129.86	58.88	89.96	-1,815.20	-803.21	6,652.06	6,529.95	122.11	54.474		
13,617.80	7,730.00	10,944.05	7,715.98	129.88	58.98	89.96	-1,821.74	-803.22	6,652.03	6,529.64	122.38	54.355		
13,700.00	7,730.00	10,991.72	7,716.38	129.96	59.72	89.96	-1,869.40	-803.54	6,652.23	6,528.31	123.93	53.678		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,730.00	11,088.50	7,717.18	130.07	61.22	89.97	-1,966.18	-803.97	6,652.35	6,525.80	126.55	52.567		
13,900.00	7,730.00	11,149.00	7,716.73	130.19	62.16	89.96	-2,026.67	-804.85	6,653.32	6,524.81	128.51	51.774		
14,000.00	7,730.00	11,238.00	7,715.42	130.33	63.56	89.95	-2,115.65	-806.14	6,654.43	6,523.41	131.02	50.789		
14,100.00	7,730.00	11,296.42	7,714.83	130.49	64.48	89.95	-2,174.07	-806.99	6,655.71	6,522.75	132.97	50.056		
14,200.00	7,730.00	11,427.22	7,714.39	130.67	66.54	89.94	-2,304.83	-810.07	6,657.86	6,521.51	136.36	48.826		
14,300.00	7,730.00	11,533.53	7,714.96	130.86	68.23	89.95	-2,411.13	-811.37	6,658.71	6,519.40	139.32	47.795		
14,400.00	7,730.00	11,566.17	7,715.25	131.07	68.75	89.95	-2,443.76	-812.06	6,660.49	6,519.70	140.79	47.308		
14,500.00	7,730.00	11,612.63	7,715.72	131.30	69.49	89.95	-2,490.19	-813.55	6,663.26	6,520.72	142.55	46.745		
14,600.00	7,730.00	11,975.63	7,717.22	131.55	75.35	89.97	-2,853.09	-819.57	6,665.13	6,514.09	151.04	44.129		
14,700.00	7,730.00	12,040.00	7,716.00	131.82	76.41	89.96	-2,917.44	-819.44	6,664.58	6,511.34	153.24	43.492		
14,749.77	7,730.00	12,067.95	7,715.30	131.96	76.86	89.95	-2,945.39	-819.51	6,664.52	6,510.27	154.24	43.208		
14,800.00	7,730.00	12,102.43	7,714.56	132.11	77.43	89.94	-2,979.85	-819.67	6,664.57	6,509.18	155.40	42.888		
14,900.00	7,730.00	12,420.49	7,719.44	132.42	82.69	89.99	-3,297.80	-817.04	6,663.92	6,500.58	163.34	40.797		
15,000.00	7,730.00	12,460.70	7,720.50	132.75	83.36	90.00	-3,337.99	-816.14	6,661.33	6,496.26	165.07	40.355		
15,100.00	7,730.00	12,509.55	7,721.84	133.10	84.18	90.01	-3,386.81	-815.49	6,659.62	6,492.63	166.99	39.880		
15,200.00	7,730.00	12,575.00	7,723.48	133.48	85.27	90.02	-3,452.24	-815.00	6,658.53	6,489.23	169.29	39.331		
15,292.56	7,730.00	12,610.96	7,724.18	133.85	85.87	90.03	-3,488.20	-814.98	6,658.14	6,487.29	170.85	38.970		
15,300.00	7,730.00	12,613.95	7,724.22	133.88	85.91	90.03	-3,491.19	-814.99	6,658.14	6,487.17	170.98	38.941		
15,400.00	7,730.00	12,873.18	7,725.98	134.31	90.25	90.04	-3,750.38	-814.20	6,658.28	6,480.44	177.83	37.441		
15,500.00	7,730.00	12,898.32	7,726.41	134.76	90.67	90.05	-3,775.51	-813.84	6,656.52	6,477.30	179.21	37.143		
15,600.00	7,730.00	12,931.00	7,727.11	135.23	91.22	90.05	-3,808.18	-813.80	6,655.89	6,475.13	180.77	36.820		
15,612.54	7,730.00	12,931.00	7,727.11	135.29	91.22	90.05	-3,808.18	-813.80	6,655.88	6,475.02	180.86	36.801		
15,700.00	7,730.00	12,957.87	7,727.74	135.73	91.67	90.06	-3,835.04	-814.04	6,656.32	6,474.15	182.17	36.539		
15,800.00	7,730.00	13,020.00	7,729.05	136.26	92.71	90.07	-3,897.15	-815.28	6,657.80	6,473.39	184.41	36.103		
15,900.00	7,730.00	13,048.17	7,729.56	136.81	93.18	90.07	-3,925.30	-816.08	6,659.95	6,474.12	185.83	35.840		
16,000.00	7,730.00	13,129.07	7,730.53	137.39	94.53	90.08	-4,006.16	-818.58	6,662.69	6,474.18	188.52	35.343		
16,100.00	7,730.00	13,377.00	7,731.79	138.00	98.69	90.09	-4,254.02	-823.47	6,664.18	6,468.86	195.32	34.119		
16,200.00	7,730.00	13,432.90	7,732.45	138.63	99.64	90.10	-4,309.92	-823.92	6,664.87	6,467.43	197.44	33.757		
16,300.00	7,730.00	13,468.93	7,733.41	139.30	100.24	90.11	-4,345.93	-824.69	6,666.65	6,467.59	199.06	33.491		
16,400.00	7,730.00	16,400.00	7,729.20	139.99	150.16	90.07	-4,685.49	-828.32	6,668.05	6,415.65	252.40	26.418		
16,500.00	7,730.00	13,873.32	7,728.07	140.70	107.10	90.06	-4,750.19	-827.51	6,666.64	6,456.04	210.60	31.655		
16,592.26	7,730.00	13,911.00	7,727.44	141.39	107.74	90.06	-4,787.86	-827.56	6,666.34	6,454.11	212.23	31.411		
16,600.00	7,730.00	13,911.00	7,727.44	141.45	107.74	90.06	-4,787.86	-827.56	6,666.34	6,454.05	212.29	31.403		
16,700.00	7,730.00	13,938.15	7,726.98	142.22	108.20	90.05	-4,815.01	-827.87	6,667.04	6,453.35	213.69	31.199		
16,800.00	7,730.00	13,972.07	7,726.36	143.03	108.78	90.05	-4,848.91	-828.57	6,668.75	6,453.50	215.25	30.981		
16,900.00	7,730.00	14,054.96	7,724.82	143.86	110.18	90.03	-4,931.75	-831.08	6,671.38	6,453.32	218.06	30.595		
17,000.00	7,730.00	17,000.00	7,721.36	144.71	160.53	90.00	-5,208.51	-834.72	6,672.08	6,400.58	271.50	24.575		
17,100.00	7,730.00	14,446.00	7,720.47	145.60	116.85	90.00	-5,322.72	-834.07	6,671.08	6,441.57	229.52	29.066		
17,172.83	7,730.00	14,491.69	7,720.57	146.26	117.64	90.00	-5,368.42	-833.90	6,670.70	6,439.48	231.22	28.850		
17,200.00	7,730.00	14,500.55	7,720.65	146.51	117.79	90.00	-5,377.27	-833.94	6,670.74	6,439.10	231.64	28.797		
17,300.00	7,730.00	14,535.00	7,721.09	147.44	118.38	90.00	-5,411.72	-834.33	6,671.52	6,438.28	233.24	28.603		
17,400.00	7,730.00	14,648.98	7,722.84	148.40	120.33	90.02	-5,525.67	-835.94	6,672.59	6,435.67	236.92	28.164		
17,500.00	7,730.00	14,723.83	7,725.04	149.39	121.61	90.03	-5,600.48	-837.17	6,673.87	6,434.29	239.58	27.857		
17,600.00	7,730.00	14,802.00	7,727.99	150.40	122.95	90.06	-5,678.58	-838.33	6,675.12	6,432.79	242.33	27.546		
17,700.00	7,730.00	14,855.88	7,730.22	151.44	123.87	90.08	-5,732.41	-839.40	6,676.98	6,432.55	244.42	27.317		
17,800.00	7,730.00	14,892.00	7,731.86	152.50	124.49	90.09	-5,768.47	-840.59	6,679.92	6,433.88	246.03	27.150		
17,900.00	7,730.00	15,124.66	7,743.15	153.58	128.48	90.19	-6,000.77	-846.66	6,682.04	6,429.09	252.95	26.416		
18,000.00	7,730.00	15,159.00	7,744.76	154.68	129.07	90.20	-6,035.07	-847.25	6,683.77	6,429.24	254.53	26.259		
18,100.00	7,730.00	15,218.90	7,747.26	155.80	130.09	90.23	-6,094.89	-848.75	6,686.16	6,429.37	256.79	26.037		
18,200.00	7,730.00	18,200.00	7,750.27	156.95	181.18	90.25	-6,182.20	-851.88	6,689.40	6,379.99	309.41	21.620		
18,300.00	7,730.00	15,391.17	7,752.99	158.11	133.05	90.27	-6,266.97	-854.75	6,692.50	6,429.78	262.73	25.473		
18,400.00	7,730.00	15,447.79	7,754.22	159.30	134.02	90.28	-6,323.52	-857.09	6,696.28	6,431.40	264.88	25.281		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,500.00	7,730.00	15,565.03	7,756.00	160.50	136.02	90.30	-6,440.63	-862.38	6,700.50	6,431.80	268.70	24.937	
18,600.00	7,730.00	15,929.78	7,758.99	161.72	142.30	90.32	-6,805.28	-869.07	6,701.13	6,421.87	279.27	23.996	
18,700.00	7,730.00	16,259.96	7,749.89	162.96	148.04	90.25	-7,135.20	-861.86	6,697.05	6,408.35	288.70	23.197	
18,800.00	7,730.00	16,312.00	7,749.86	164.21	148.95	90.25	-7,187.22	-860.78	6,694.25	6,403.40	290.85	23.016	
18,900.00	7,730.00	16,312.00	7,749.86	165.48	148.95	90.25	-7,187.22	-860.78	6,692.13	6,400.53	291.60	22.950	
18,991.72	7,730.00	16,312.00	7,749.86	166.66	148.95	90.25	-7,187.22	-860.78	6,691.50	6,399.25	292.25	22.897	
19,000.00	7,730.00	16,312.00	7,749.86	166.76	148.95	90.25	-7,187.22	-860.78	6,691.50	6,399.20	292.30	22.892	
19,100.00	7,730.00	16,356.48	7,750.30	168.06	149.72	90.25	-7,231.69	-860.86	6,691.73	6,397.55	294.18	22.747	
19,200.00	7,730.00	16,401.00	7,751.02	169.38	150.49	90.26	-7,276.20	-861.92	6,693.41	6,397.37	296.04	22.610	
19,300.00	7,730.00	16,410.37	7,751.21	170.70	150.65	90.26	-7,285.56	-862.25	6,695.94	6,399.04	296.90	22.553	
19,400.00	7,730.00	19,400.00	7,755.03	172.04	202.31	90.29	-7,437.98	-866.80	6,698.55	6,347.73	350.81	19.094 SF	
19,500.00	7,730.00	16,668.00	7,758.81	173.40	155.10	90.32	-7,542.98	-868.92	6,700.22	6,394.91	305.32	21.945	
19,600.00	7,730.00	16,728.14	7,761.19	174.76	156.14	90.34	-7,603.06	-870.34	6,702.47	6,394.88	307.60	21.790	
19,700.00	7,730.00	16,774.62	7,762.96	176.14	156.95	90.36	-7,649.47	-872.07	6,705.81	6,396.34	309.48	21.668	
19,800.00	7,730.00	16,889.61	7,767.33	177.52	158.93	90.40	-7,764.28	-876.60	6,709.45	6,396.14	313.31	21.415	
19,900.00	7,730.00	16,992.61	7,772.17	178.92	160.71	90.44	-7,867.10	-880.32	6,712.76	6,395.96	316.80	21.189	
20,000.00	7,730.00	17,074.69	7,774.14	180.33	162.12	90.45	-7,949.10	-883.49	6,716.30	6,396.60	319.69	21.008	
20,100.00	7,730.00	17,193.40	7,775.71	181.75	164.17	90.47	-8,067.71	-888.19	6,719.96	6,396.32	323.63	20.764	
20,184.95	7,730.00	17,353.74	7,778.29	182.96	166.95	90.49	-8,227.94	-893.17	6,722.28	6,393.60	328.68	20.452	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	318.00	317.99	0.00	0.00	-54.26	786.08	-1,092.49	1,385.06					
100.00	100.00	318.00	317.99	0.13	0.00	-54.26	786.08	-1,092.49	1,364.91	1,364.51	0.40	3,370.945		
200.00	199.98	318.00	317.99	0.49	0.00	-124.92	786.08	-1,092.49	1,352.88	1,352.35	0.53	2,575.024		
278.84	278.73	318.00	317.99	0.78	0.00	-124.96	786.08	-1,092.49	1,349.96	1,349.18	0.78	1,741.535 CC, ES		
300.00	299.84	318.00	317.99	0.86	0.00	-124.96	786.08	-1,092.49	1,350.17	1,349.31	0.85	1,586.005		
400.00	399.45	388.22	388.21	1.23	0.13	-125.15	785.43	-1,093.16	1,355.07	1,353.72	1.35	1,001.529		
500.00	498.70	490.25	490.23	1.63	0.31	-125.51	784.45	-1,093.92	1,362.22	1,360.30	1.92	708.738		
600.00	597.47	591.80	591.77	2.05	0.49	-125.95	783.44	-1,094.44	1,371.29	1,368.78	2.51	546.910		
700.00	695.62	678.06	678.02	2.51	0.80	-126.29	784.23	-1,094.16	1,382.91	1,379.67	3.24	427.112		
800.00	793.06	768.40	768.25	3.00	1.11	-126.56	788.21	-1,092.52	1,397.39	1,393.39	4.00	349.702		
900.00	889.64	861.99	861.46	3.53	1.45	-126.75	795.76	-1,089.04	1,414.44	1,409.63	4.81	294.124		
1,000.00	985.27	949.74	948.53	4.12	1.78	-126.83	805.64	-1,084.46	1,434.06	1,428.42	5.65	254.002		
1,100.00	1,079.82	1,036.06	1,033.95	4.75	2.13	-126.88	817.16	-1,079.70	1,456.64	1,450.12	6.53	223.228		
1,200.00	1,173.17	1,130.90	1,127.51	5.44	2.52	-126.96	831.52	-1,073.71	1,481.63	1,474.14	7.49	197.843		
1,300.00	1,265.21	1,221.12	1,216.42	6.18	2.91	-127.04	845.67	-1,067.94	1,508.96	1,500.48	8.48	178.037		
1,400.00	1,355.84	1,329.08	1,322.85	6.99	3.38	-127.30	862.44	-1,061.28	1,538.62	1,529.04	9.59	160.515		
1,500.00	1,444.94	1,431.45	1,423.74	7.87	3.83	-127.57	877.96	-1,053.44	1,569.05	1,558.34	10.71	146.496		
1,600.00	1,532.39	1,509.68	1,500.77	8.80	4.18	-127.66	890.29	-1,047.55	1,602.17	1,590.41	11.75	136.299		
1,700.00	1,618.11	1,606.59	1,596.01	9.81	4.62	-127.91	906.70	-1,040.36	1,638.16	1,625.23	12.93	126.653		
1,800.00	1,701.97	1,720.32	1,707.90	10.89	5.13	-128.38	924.70	-1,030.96	1,675.31	1,661.08	14.23	117.709		
1,900.00	1,783.88	1,791.67	1,778.23	12.04	5.45	-128.47	935.29	-1,025.21	1,714.63	1,699.30	15.32	111.885		
2,000.00	1,863.74	1,857.30	1,842.93	13.26	5.74	-128.49	945.34	-1,020.57	1,757.32	1,740.92	16.40	107.129		
2,100.00	1,941.45	1,936.88	1,921.38	14.55	6.10	-128.66	957.77	-1,015.77	1,803.34	1,785.77	17.58	102.596		
2,200.00	2,016.92	2,200.00	2,045.81	15.92	7.28	-129.43	976.77	-1,005.97	1,850.17	1,830.52	19.65	94.140		
2,292.11	2,084.36	2,155.40	2,136.62	17.25	7.08	-129.84	990.39	-997.12	1,894.22	1,873.95	20.27	93.447		
2,300.00	2,090.06	2,161.04	2,142.17	17.36	7.11	-129.91	991.25	-996.57	1,898.10	1,877.74	20.36	93.205		
2,400.00	2,162.18	2,220.52	2,200.67	18.84	7.38	-130.67	1,000.50	-991.04	1,947.97	1,926.51	21.46	90.772		
2,500.00	2,234.31	2,278.87	2,258.05	20.33	7.65	-131.38	1,009.88	-986.24	1,999.28	1,976.75	22.53	88.751		
2,600.00	2,306.43	2,338.62	2,316.81	21.83	7.92	-132.08	1,019.78	-981.85	2,051.86	2,028.28	23.58	87.011		
2,700.00	2,378.56	2,398.10	2,375.31	23.33	8.19	-132.76	1,029.85	-978.02	2,105.64	2,081.03	24.61	85.550		
2,800.00	2,450.68	2,458.00	2,434.25	24.84	8.47	-133.42	1,040.02	-974.75	2,160.55	2,134.92	25.63	84.312		
2,900.00	2,522.81	2,537.63	2,512.66	26.36	8.83	-134.28	1,053.31	-970.78	2,216.14	2,189.39	26.75	82.838		
3,000.00	2,594.93	2,603.57	2,577.68	27.88	9.12	-134.97	1,063.86	-967.71	2,272.19	2,244.43	27.76	81.850		
3,100.00	2,667.06	2,670.51	2,643.86	29.40	9.41	-135.68	1,073.68	-965.39	2,329.16	2,300.42	28.75	81.024		
3,200.00	2,739.18	3,200.00	2,778.80	30.92	11.74	-137.03	1,093.81	-958.65	2,385.31	2,353.36	31.94	74.677		
3,300.00	2,811.31	2,909.87	2,880.09	32.45	10.46	-137.96	1,109.32	-951.30	2,440.13	2,408.70	31.43	77.627		
3,400.00	2,883.43	3,029.70	2,998.56	33.98	10.98	-139.04	1,124.80	-942.24	2,494.60	2,461.87	32.73	76.220		
3,500.00	2,955.56	3,101.29	3,069.55	35.51	11.27	-139.70	1,132.41	-936.84	2,549.00	2,515.33	33.67	75.700		
3,600.00	3,027.68	3,227.14	3,194.23	37.04	11.80	-140.80	1,145.81	-926.26	2,603.03	2,568.09	34.94	74.494		
3,700.00	3,099.81	3,344.38	3,309.83	38.57	12.32	-141.69	1,160.98	-913.97	2,656.12	2,619.92	36.20	73.372		
3,800.00	3,171.93	3,417.68	3,381.85	40.11	12.65	-142.19	1,171.65	-905.52	2,708.87	2,671.68	37.19	72.847		
3,900.00	3,244.06	3,473.80	3,437.08	41.64	12.91	-142.58	1,179.57	-899.49	2,762.38	2,724.34	38.04	72.627		
4,000.00	3,316.18	3,519.69	3,482.36	43.18	13.11	-142.89	1,185.65	-895.17	2,817.01	2,778.22	38.79	72.626		
4,100.00	3,388.31	3,584.17	3,546.13	44.71	13.39	-143.34	1,193.68	-889.93	2,872.69	2,833.05	39.65	72.459		
4,200.00	3,460.43	3,759.18	3,718.62	46.25	14.17	-144.45	1,217.29	-872.45	2,927.20	2,885.92	41.29	70.901		
4,300.00	3,532.56	3,810.00	3,768.63	47.79	14.40	-144.75	1,224.27	-866.69	2,980.96	2,938.90	42.06	70.870		
4,400.00	3,604.68	3,861.78	3,819.72	49.33	14.63	-145.06	1,230.82	-861.42	3,035.69	2,992.88	42.81	70.903		
4,500.00	3,676.81	3,899.00	3,856.55	50.87	14.79	-145.29	1,235.09	-858.18	3,091.62	3,048.17	43.44	71.163		
4,600.00	3,748.93	3,959.02	3,916.03	52.41	15.04	-145.67	1,241.72	-853.61	3,148.47	3,104.26	44.21	71.218		
4,700.00	3,821.06	4,019.45	3,975.90	53.95	15.29	-146.03	1,248.75	-849.46	3,206.09	3,161.11	44.98	71.281		
4,800.00	3,893.18	4,077.00	4,032.71	55.49	15.54	-146.33	1,257.08	-845.49	3,264.17	3,218.42	45.74	71.363		
4,900.00	3,965.31	4,126.87	4,081.83	57.03	15.77	-146.57	1,265.09	-842.34	3,322.97	3,276.52	46.45	71.536		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,227.52	4,181.04	58.58	16.22	-147.05	1,281.12	-836.96	3,382.70	3,335.12	47.57	71.103		
5,100.00	4,109.56	4,309.12	4,261.55	60.12	16.58	-147.43	1,293.29	-831.57	3,441.30	3,392.78	48.52	70.924		
5,200.00	4,181.68	4,396.29	4,347.83	61.66	16.95	-147.86	1,304.60	-826.38	3,500.40	3,450.92	49.48	70.742		
5,300.00	4,253.81	4,495.73	4,446.14	63.20	17.38	-148.32	1,317.88	-819.50	3,558.80	3,508.26	50.54	70.417		
5,400.00	4,325.93	4,554.00	4,503.67	64.75	17.64	-148.58	1,326.26	-815.56	3,617.54	3,566.26	51.28	70.542		
5,500.00	4,398.06	4,671.83	4,619.53	66.29	18.18	-149.02	1,345.77	-806.78	3,675.86	3,623.31	52.56	69.943		
5,600.00	4,470.18	4,732.00	4,678.72	67.84	18.46	-149.24	1,355.62	-802.31	3,734.36	3,681.02	53.34	70.014		
5,700.00	4,542.31	4,779.38	4,725.43	69.38	18.67	-149.42	1,362.94	-799.15	3,793.46	3,739.47	53.99	70.261		
5,800.00	4,614.43	4,999.00	4,941.69	70.92	19.67	-150.21	1,396.75	-781.70	3,851.83	3,795.76	56.07	68.692		
5,900.00	4,686.56	5,053.83	4,995.62	72.47	19.92	-150.40	1,404.96	-776.19	3,908.46	3,851.66	56.79	68.817		
6,000.00	4,758.68	5,088.00	5,029.32	74.01	20.08	-150.52	1,409.78	-773.23	3,966.15	3,908.81	57.34	69.175		
6,100.00	4,830.81	5,143.46	5,084.15	75.56	20.31	-150.73	1,416.93	-768.97	4,024.59	3,966.57	58.02	69.366		
6,200.00	4,902.93	5,435.88	5,372.92	77.10	21.59	-151.78	1,452.88	-741.02	4,082.34	4,021.85	60.50	67.482		
6,300.00	4,975.06	5,485.54	5,421.75	78.65	21.82	-151.94	1,459.57	-734.92	4,137.26	4,076.10	61.16	67.641		
6,400.00	5,047.18	5,533.00	5,468.45	80.19	22.03	-152.08	1,466.13	-729.55	4,192.99	4,131.18	61.81	67.835		
6,500.00	5,119.31	5,563.61	5,498.59	81.74	22.17	-152.18	1,470.47	-726.39	4,249.58	4,187.26	62.32	68.191		
6,600.00	5,191.43	5,596.77	5,531.24	83.28	22.32	-152.27	1,475.29	-723.31	4,307.13	4,244.29	62.84	68.546		
6,700.00	5,263.56	5,623.00	5,557.09	84.83	22.44	-152.35	1,479.19	-721.13	4,365.61	4,302.33	63.28	68.984		
6,800.00	5,335.68	5,669.82	5,603.30	86.37	22.64	-152.48	1,485.88	-717.71	4,424.89	4,361.00	63.89	69.258		
6,900.00	5,407.81	5,712.00	5,645.05	87.92	22.83	-152.61	1,491.30	-715.09	4,484.95	4,420.51	64.44	69.596		
7,000.00	5,479.93	5,755.45	5,688.11	89.47	23.01	-152.75	1,496.60	-712.74	4,545.69	4,480.70	64.99	69.945		
7,100.00	5,552.06	6,017.22	5,946.85	91.01	24.14	-153.49	1,531.78	-694.85	4,605.97	4,538.59	67.38	68.359		
7,200.00	5,624.18	6,093.89	6,022.20	92.56	24.50	-153.67	1,543.98	-687.70	4,663.78	4,595.51	68.27	68.316		
7,300.00	5,696.31	6,139.03	6,066.50	94.10	24.71	-153.76	1,551.69	-683.75	4,722.11	4,653.22	68.89	68.547		
7,400.00	5,768.43	6,157.00	6,084.12	95.65	24.80	-153.80	1,554.88	-682.28	4,781.19	4,711.94	69.26	69.037		
7,500.00	5,840.56	6,207.58	6,133.81	97.20	25.03	-153.90	1,563.61	-678.60	4,840.89	4,770.98	69.91	69.242		
7,600.00	5,912.68	6,246.00	6,171.66	98.74	25.21	-153.98	1,569.78	-676.35	4,901.52	4,831.07	70.44	69.580		
7,700.00	5,984.81	6,275.74	6,201.02	100.29	25.33	-154.05	1,574.27	-674.88	4,962.86	4,891.98	70.88	70.020		
7,800.00	6,056.93	6,603.00	6,524.70	101.84	26.74	-154.85	1,617.26	-653.84	5,024.90	4,951.07	73.82	68.067		
7,900.00	6,129.06	6,651.29	6,572.27	103.38	26.96	-154.95	1,624.21	-649.32	5,082.93	5,008.49	74.44	68.281		
8,000.00	6,201.18	6,692.00	6,612.37	104.93	27.14	-155.04	1,630.32	-645.80	5,141.56	5,066.57	74.99	68.561		
8,100.00	6,273.31	6,726.06	6,645.93	106.48	27.29	-155.10	1,635.50	-643.14	5,200.88	5,125.40	75.48	68.903		
8,200.00	6,345.43	7,138.00	7,051.53	108.02	28.73	-156.55	1,643.76	-600.22	5,258.03	5,179.97	78.07	67.354		
8,300.00	6,417.56	7,138.00	7,051.53	109.57	28.73	-156.55	1,643.76	-600.22	5,313.52	5,235.22	78.30	67.859		
8,400.00	6,489.68	7,138.00	7,051.53	111.12	28.73	-156.55	1,643.76	-600.22	5,370.29	5,291.77	78.52	68.395		
8,500.00	6,561.81	7,138.00	7,051.53	112.66	28.73	-156.55	1,643.76	-600.22	5,428.32	5,349.60	78.72	68.960		
8,600.00	6,633.93	7,138.00	7,051.53	114.21	28.73	-156.55	1,643.76	-600.22	5,487.55	5,408.65	78.90	69.554		
8,700.00	6,706.06	7,138.00	7,051.53	115.76	28.73	-156.55	1,643.76	-600.22	5,547.95	5,468.89	79.06	70.174		
8,800.00	6,778.18	7,138.00	7,051.53	117.30	28.73	-156.55	1,643.76	-600.22	5,609.48	5,530.28	79.21	70.821		
8,900.00	6,850.31	7,138.00	7,051.53	118.85	28.73	-156.55	1,643.76	-600.22	5,672.11	5,592.78	79.34	71.492		
9,000.00	6,922.43	7,138.00	7,051.53	120.40	28.73	-156.55	1,643.76	-600.22	5,735.80	5,656.35	79.46	72.187		
9,100.00	6,994.56	7,138.00	7,051.53	121.95	28.73	-156.55	1,643.76	-600.22	5,800.52	5,720.96	79.56	72.905		
9,200.00	7,066.68	7,180.06	7,091.97	123.49	28.76	-156.84	1,632.48	-597.94	5,864.48	5,784.78	79.70	73.584		
9,300.00	7,138.81	7,185.48	7,097.17	125.04	28.77	-156.87	1,630.92	-597.87	5,930.66	5,850.87	79.79	74.329		
9,392.50	7,205.52	7,227.00	7,136.66	126.47	28.80	-157.17	1,618.20	-599.09	5,993.99	5,914.10	79.89	75.027		
9,400.00	7,210.94	7,227.00	7,136.66	126.59	28.80	-158.60	1,618.20	-599.09	5,999.03	5,919.13	79.90	75.084		
9,450.00	7,247.42	7,227.00	7,136.66	127.35	28.80	-168.43	1,618.20	-599.09	6,032.94	5,953.01	79.93	75.477		
9,500.00	7,284.35	7,227.00	7,136.66	128.10	28.80	-178.59	1,618.20	-599.09	6,067.24	5,987.29	79.96	75.882		
9,550.00	7,321.43	7,227.00	7,136.66	128.83	28.80	171.15	1,618.20	-599.09	6,101.67	6,021.70	79.97	76.299		
9,600.00	7,358.38	7,227.00	7,136.66	129.52	28.80	161.03	1,618.20	-599.09	6,135.96	6,055.99	79.97	76.726		
9,650.00	7,394.93	7,227.00	7,136.66	130.16	28.80	151.28	1,618.20	-599.09	6,169.86	6,089.90	79.96	77.158		
9,700.00	7,430.79	7,227.00	7,136.66	130.76	28.80	142.08	1,618.20	-599.09	6,203.12	6,123.17	79.94	77.593		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,227.00	7,136.66	131.30	28.80	133.57	1,618.20	-599.09	6,235.49	6,155.57	79.92	78.024		
9,800.00	7,499.38	7,227.00	7,136.66	131.78	28.80	125.82	1,618.20	-599.09	6,266.75	6,186.86	79.89	78.445		
9,850.00	7,531.58	7,227.00	7,136.66	132.21	28.80	118.86	1,618.20	-599.09	6,296.68	6,216.82	79.86	78.850		
9,900.00	7,562.06	7,227.00	7,136.66	132.57	28.80	112.68	1,618.20	-599.09	6,325.06	6,245.23	79.83	79.233		
9,950.00	7,590.58	7,227.00	7,136.66	132.87	28.80	107.26	1,618.20	-599.09	6,351.71	6,271.90	79.81	79.586		
10,000.00	7,616.93	7,227.00	7,136.66	133.11	28.80	102.54	1,618.20	-599.09	6,376.44	6,296.64	79.80	79.901		
10,050.00	7,640.90	7,227.00	7,136.66	133.29	28.80	98.49	1,618.20	-599.09	6,399.10	6,319.28	79.82	80.172		
10,100.00	7,662.32	7,227.00	7,136.66	133.42	28.80	95.04	1,618.20	-599.09	6,419.52	6,339.67	79.85	80.393		
10,150.00	7,681.01	7,227.00	7,136.66	133.50	28.80	92.16	1,618.20	-599.09	6,437.59	6,357.67	79.92	80.555		
10,200.00	7,696.85	7,227.00	7,136.66	133.52	28.80	89.80	1,618.20	-599.09	6,453.17	6,373.16	80.01	80.655		
10,250.00	7,709.70	7,227.00	7,136.66	133.51	28.80	87.92	1,618.20	-599.09	6,466.17	6,386.03	80.14	80.686		
10,300.00	7,719.47	7,227.00	7,136.66	133.46	28.80	86.51	1,618.20	-599.09	6,476.51	6,396.20	80.31	80.645		
10,350.00	7,726.09	7,227.00	7,136.66	133.37	28.80	85.53	1,618.20	-599.09	6,484.12	6,403.60	80.52	80.530		
10,400.00	7,729.50	7,227.00	7,136.66	133.26	28.80	84.96	1,618.20	-599.09	6,488.95	6,408.18	80.77	80.339		
10,427.79	7,730.00	7,227.00	7,136.66	133.18	28.80	84.83	1,618.20	-599.09	6,490.42	6,409.50	80.93	80.201		
10,500.00	7,730.00	7,940.00	7,608.51	132.98	28.12	89.01	1,135.53	-627.85	6,489.80	6,412.23	77.57	83.659		
10,600.00	7,730.00	7,993.10	7,621.29	132.72	28.07	89.12	1,084.01	-626.60	6,487.10	6,409.40	77.70	83.493		
10,700.00	7,730.00	8,300.85	7,664.68	132.47	28.25	89.50	780.00	-619.54	6,485.47	6,409.22	76.25	85.057		
10,800.00	7,730.00	8,389.78	7,666.73	132.22	28.53	89.52	691.18	-615.49	6,480.56	6,404.13	76.43	84.787		
10,900.00	7,730.00	8,480.17	7,668.41	131.99	28.94	89.53	600.90	-611.52	6,475.81	6,399.06	76.75	84.376		
11,000.00	7,730.00	8,563.00	7,669.55	131.77	29.41	89.54	518.15	-607.94	6,471.16	6,393.96	77.20	83.818		
11,100.00	7,730.00	8,632.73	7,670.28	131.56	29.88	89.55	448.48	-605.18	6,466.90	6,389.11	77.78	83.141		
11,200.00	7,730.00	8,687.93	7,671.06	131.36	30.27	89.56	393.31	-603.38	6,463.28	6,384.85	78.43	82.404		
11,300.00	7,730.00	8,741.00	7,671.90	131.17	30.67	89.56	340.27	-602.03	6,460.39	6,381.26	79.13	81.640		
11,400.00	7,730.00	8,797.17	7,672.79	130.99	31.14	89.57	284.12	-601.00	6,458.20	6,378.30	79.91	80.822		
11,500.00	7,730.00	8,860.67	7,673.58	130.82	31.68	89.58	220.63	-600.25	6,456.67	6,375.92	80.75	79.963		
11,600.00	7,730.00	8,938.23	7,673.21	130.66	32.39	89.58	143.07	-599.67	6,455.58	6,373.89	81.69	79.028		
11,700.00	7,730.00	9,026.31	7,672.08	130.51	33.24	89.57	55.00	-599.20	6,454.72	6,371.96	82.76	77.996		
11,800.00	7,730.00	9,134.61	7,670.25	130.37	34.35	89.55	-53.28	-598.85	6,454.08	6,370.04	84.04	76.798		
11,900.00	7,730.00	9,262.57	7,668.04	130.24	35.75	89.53	-181.22	-597.63	6,452.75	6,367.16	85.60	75.387		
12,000.00	7,730.00	9,415.94	7,668.67	130.13	37.54	89.54	-334.56	-595.41	6,450.93	6,363.36	87.57	73.665		
12,100.00	7,730.00	9,539.06	7,668.69	130.02	39.05	89.54	-457.66	-593.00	6,448.64	6,359.17	89.47	72.073		
12,200.00	7,730.00	9,632.00	7,668.80	129.93	40.23	89.54	-550.57	-590.64	6,445.79	6,354.60	91.20	70.680		
12,300.00	7,730.00	9,682.56	7,668.78	129.85	40.89	89.54	-601.11	-589.57	6,443.56	6,351.04	92.52	69.645		
12,400.00	7,730.00	9,721.00	7,668.62	129.77	41.39	89.53	-639.56	-589.31	6,442.47	6,348.74	93.73	68.736		
12,443.18	7,730.00	9,721.00	7,668.62	129.75	41.39	89.53	-639.56	-589.31	6,442.32	6,348.25	94.07	68.481		
12,500.00	7,730.00	9,748.89	7,668.50	129.71	41.76	89.53	-667.45	-589.42	6,442.40	6,347.56	94.84	67.930		
12,600.00	7,730.00	9,783.63	7,668.43	129.66	42.22	89.53	-702.19	-589.87	6,443.36	6,347.31	96.04	67.088		
12,700.00	7,730.00	9,810.00	7,668.45	129.63	42.56	89.53	-728.55	-590.44	6,445.34	6,348.18	97.16	66.335		
12,800.00	7,730.00	9,878.55	7,667.43	129.60	43.48	89.52	-797.05	-592.49	6,448.06	6,349.26	98.80	65.263		
12,900.00	7,730.00	10,229.45	7,649.64	129.59	48.40	89.37	-1,147.42	-597.90	6,449.57	6,345.27	104.31	61.832		
13,000.00	7,730.00	10,424.70	7,640.85	129.59	51.28	89.29	-1,342.45	-595.21	6,447.79	6,339.67	108.12	59.637		
13,100.00	7,730.00	10,523.00	7,635.82	129.60	52.76	89.24	-1,440.60	-593.02	6,445.29	6,334.78	110.51	58.322		
13,200.00	7,730.00	10,577.55	7,633.03	129.63	53.59	89.22	-1,495.07	-592.00	6,443.26	6,331.05	112.22	57.418		
13,300.00	7,730.00	10,612.00	7,631.39	129.66	54.11	89.20	-1,529.47	-591.70	6,442.20	6,328.61	113.59	56.713		
13,396.05	7,730.00	10,675.02	7,628.43	129.71	55.07	89.18	-1,592.43	-591.63	6,441.88	6,326.44	115.44	55.804		
13,400.00	7,730.00	10,677.25	7,628.22	129.72	55.10	89.18	-1,594.65	-591.64	6,441.88	6,326.37	115.51	55.770		
13,500.00	7,730.00	10,741.11	7,625.22	129.78	56.08	89.15	-1,658.43	-592.03	6,442.21	6,324.79	117.42	54.867		
13,600.00	7,730.00	10,816.95	7,621.43	129.86	57.24	89.11	-1,734.18	-592.86	6,443.02	6,323.47	119.55	53.892		
13,700.00	7,730.00	10,927.30	7,618.46	129.96	58.94	89.09	-1,844.47	-594.25	6,444.00	6,321.64	122.36	52.664		
13,800.00	7,730.00	11,027.38	7,615.74	130.07	60.50	89.06	-1,944.52	-595.25	6,444.70	6,319.68	125.02	51.548		
13,900.00	7,730.00	11,179.46	7,609.83	130.19	62.89	89.01	-2,096.47	-596.42	6,445.26	6,316.52	128.73	50.068		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,730.00	11,296.45	7,603.69	130.33	64.75	88.96	-2,213.30	-596.47	6,445.04	6,313.22	131.82	48.894		
14,100.00	7,730.00	11,494.60	7,595.32	130.49	67.93	88.88	-2,411.25	-595.03	6,444.09	6,307.46	136.63	47.166		
14,200.00	7,730.00	11,668.72	7,588.51	130.67	70.76	88.82	-2,585.20	-591.37	6,441.72	6,300.65	141.07	45.665		
14,300.00	7,730.00	11,767.12	7,584.20	130.86	72.37	88.78	-2,683.46	-588.70	6,438.76	6,294.81	143.95	44.729		
14,400.00	7,730.00	11,823.31	7,582.94	131.07	73.30	88.77	-2,739.62	-587.41	6,436.18	6,290.24	145.94	44.101		
14,500.00	7,730.00	11,933.48	7,582.93	131.30	75.11	88.77	-2,849.77	-585.53	6,434.17	6,285.02	149.15	43.140		
14,600.00	7,730.00	12,055.08	7,582.18	131.55	77.11	88.76	-2,971.34	-582.71	6,431.50	6,278.87	152.64	42.136		
14,700.00	7,730.00	12,127.00	7,582.44	131.82	78.31	88.76	-3,043.24	-581.12	6,428.96	6,273.93	155.03	41.469		
14,800.00	7,730.00	12,160.59	7,583.11	132.11	78.86	88.77	-3,076.82	-580.64	6,427.18	6,270.62	156.55	41.054		
14,900.00	7,730.00	12,216.00	7,584.83	132.42	79.78	88.79	-3,132.20	-580.69	6,426.60	6,268.02	158.58	40.526		
14,935.60	7,730.00	12,216.00	7,584.83	132.53	79.78	88.79	-3,132.20	-580.69	6,426.50	6,267.66	158.85	40.458		
15,000.00	7,730.00	12,239.54	7,585.73	132.75	80.17	88.79	-3,155.72	-580.94	6,426.78	6,266.91	159.87	40.201		
15,100.00	7,730.00	12,367.14	7,590.47	133.10	82.28	88.84	-3,283.23	-582.14	6,427.34	6,263.75	163.59	39.289		
15,200.00	7,730.00	12,478.21	7,593.83	133.48	84.13	88.87	-3,394.25	-582.64	6,427.38	6,260.43	166.95	38.499		
15,300.00	7,730.00	12,539.53	7,595.22	133.88	85.15	88.88	-3,455.55	-583.06	6,427.70	6,258.56	169.13	38.003		
15,400.00	7,730.00	12,651.74	7,596.71	134.31	87.02	88.89	-3,567.74	-584.30	6,428.46	6,255.92	172.54	37.258		
15,500.00	7,730.00	12,745.30	7,597.14	134.76	88.58	88.90	-3,661.30	-585.06	6,428.93	6,253.42	175.51	36.630		
15,600.00	7,730.00	12,827.27	7,596.81	135.23	89.95	88.89	-3,743.26	-585.89	6,429.61	6,251.41	178.20	36.080		
15,700.00	7,730.00	12,908.22	7,595.86	135.73	91.30	88.88	-3,824.20	-586.93	6,430.58	6,249.71	180.88	35.552		
15,800.00	7,730.00	13,002.89	7,594.19	136.26	92.89	88.87	-3,918.84	-588.35	6,431.78	6,247.89	183.89	34.976		
15,900.00	7,730.00	13,127.37	7,591.66	136.81	94.98	88.85	-4,043.29	-589.93	6,432.74	6,245.09	187.65	34.280		
16,000.00	7,730.00	13,236.70	7,589.16	137.39	96.82	88.83	-4,152.58	-591.26	6,433.68	6,242.62	191.06	33.673		
16,100.00	7,730.00	13,392.00	7,590.11	138.00	99.45	88.83	-4,307.87	-591.90	6,433.64	6,237.97	195.66	32.881		
16,126.05	7,730.00	13,406.57	7,590.22	138.16	99.69	88.84	-4,322.44	-591.94	6,433.61	6,237.40	196.21	32.789		
16,200.00	7,730.00	13,447.93	7,590.50	138.63	100.39	88.84	-4,363.80	-592.19	6,433.80	6,236.03	197.77	32.532		
16,300.00	7,730.00	13,464.00	7,590.58	139.30	100.67	88.84	-4,379.87	-592.34	6,434.87	6,236.02	198.85	32.361		
16,400.00	7,730.00	13,517.20	7,590.73	139.99	101.56	88.84	-4,433.06	-593.39	6,436.75	6,235.89	200.86	32.046		
16,500.00	7,730.00	13,553.00	7,590.69	140.70	102.17	88.84	-4,468.84	-594.64	6,439.83	6,237.41	202.42	31.815		
16,600.00	7,730.00	13,806.86	7,589.33	141.45	106.45	88.83	-4,722.57	-602.29	6,443.05	6,233.43	209.62	30.737		
16,700.00	7,730.00	14,041.83	7,590.59	142.22	110.46	88.84	-4,957.52	-603.11	6,442.92	6,226.53	216.39	29.774		
16,800.00	7,730.00	14,087.00	7,591.32	143.03	111.23	88.85	-5,002.68	-602.94	6,442.29	6,224.04	218.25	29.517		
16,806.32	7,730.00	14,087.00	7,591.32	143.08	111.23	88.85	-5,002.68	-602.94	6,442.29	6,223.99	218.30	29.512		
16,900.00	7,730.00	14,127.41	7,592.06	143.86	111.92	88.85	-5,043.08	-603.14	6,442.56	6,222.59	219.98	29.288		
17,000.00	7,730.00	14,176.00	7,593.23	144.71	112.75	88.86	-5,091.65	-604.14	6,444.00	6,222.10	221.91	29.039		
17,100.00	7,730.00	14,206.56	7,594.06	145.60	113.27	88.87	-5,122.18	-605.05	6,446.30	6,222.96	223.34	28.863		
17,200.00	7,730.00	14,282.62	7,596.10	146.51	114.56	88.89	-5,198.18	-607.59	6,449.23	6,223.24	225.99	28.538		
17,300.00	7,730.00	14,387.12	7,599.07	147.44	116.34	88.92	-5,302.57	-611.13	6,452.22	6,222.82	229.40	28.126		
17,400.00	7,730.00	14,656.88	7,603.88	148.40	120.95	88.96	-5,572.23	-615.50	6,452.73	6,215.44	237.29	27.193		
17,500.00	7,730.00	17,500.00	7,605.91	149.39	170.01	88.98	-5,775.98	-616.21	6,453.16	6,164.20	288.96	22.333		
17,600.00	7,730.00	15,031.77	7,607.08	150.40	127.41	88.99	-5,947.07	-613.57	6,451.19	6,202.56	248.63	25.947		
17,700.00	7,730.00	17,700.00	7,607.37	151.44	173.69	88.99	-6,078.35	-610.45	6,448.43	6,151.62	296.81	21.725		
17,800.00	7,730.00	15,199.12	7,607.47	152.50	130.31	88.99	-6,114.37	-609.70	6,446.07	6,191.59	254.48	25.331		
17,900.00	7,730.00	15,246.00	7,607.91	153.58	131.13	88.99	-6,161.25	-609.35	6,444.80	6,188.38	256.41	25.134		
18,000.00	7,730.00	15,291.43	7,608.50	154.68	131.91	89.00	-6,206.68	-609.39	6,444.35	6,186.06	258.29	24.950		
18,100.00	7,730.00	15,398.00	7,610.03	155.80	133.75	89.01	-6,313.24	-609.69	6,444.28	6,182.44	261.84	24.612		
18,200.00	7,730.00	15,555.19	7,611.92	156.95	136.47	89.03	-6,470.41	-608.99	6,443.43	6,176.66	266.77	24.153		
18,300.00	7,730.00	15,649.27	7,612.45	158.11	138.10	89.03	-6,564.49	-608.26	6,442.30	6,172.32	269.99	23.862		
18,400.00	7,730.00	15,770.06	7,612.49	159.30	140.20	89.03	-6,685.27	-607.31	6,441.20	6,167.27	273.93	23.514		
18,500.00	7,730.00	15,971.68	7,611.34	160.50	143.70	89.02	-6,886.85	-603.87	6,439.29	6,159.23	280.06	22.992		
18,600.00	7,730.00	16,047.00	7,610.55	161.72	145.02	89.02	-6,962.14	-601.73	6,436.23	6,153.44	282.79	22.760		
18,700.00	7,730.00	16,099.03	7,609.99	162.96	145.92	89.01	-7,014.15	-600.53	6,433.81	6,148.93	284.88	22.584		
18,800.00	7,730.00	16,137.00	7,609.72	164.21	146.58	89.01	-7,052.12	-600.18	6,432.50	6,145.93	286.57	22.446		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	7,730.00	16,202.19	7,609.30	165.48	147.72	89.00	-7,117.31	-600.07	6,431.97	6,142.97	289.00	22.256	
19,000.00	7,730.00	16,293.51	7,608.48	166.76	149.30	89.00	-7,208.63	-600.17	6,431.75	6,139.60	292.15	22.015	
19,053.00	7,730.00	16,334.27	7,608.02	167.45	150.01	88.99	-7,249.39	-600.24	6,431.68	6,138.07	293.60	21.906	
19,100.00	7,730.00	16,363.17	7,607.99	168.06	150.51	88.99	-7,278.28	-600.37	6,431.75	6,137.05	294.69	21.825	
19,200.00	7,730.00	16,429.58	7,609.03	169.38	151.66	89.00	-7,344.68	-601.00	6,432.31	6,135.17	297.15	21.647	
19,300.00	7,730.00	16,508.07	7,611.25	170.70	153.02	89.02	-7,423.13	-602.08	6,433.30	6,133.35	299.94	21.448	
19,400.00	7,730.00	16,602.33	7,614.49	172.04	154.65	89.05	-7,517.32	-603.60	6,434.51	6,131.32	303.19	21.222	
19,500.00	7,730.00	16,706.38	7,618.41	173.40	156.46	89.09	-7,621.29	-605.22	6,435.66	6,128.94	306.73	20.982	
19,600.00	7,730.00	16,800.61	7,622.33	174.76	158.09	89.12	-7,715.42	-606.76	6,436.90	6,126.91	309.99	20.765	
19,700.00	7,730.00	16,924.33	7,627.26	176.14	160.24	89.17	-7,839.02	-608.66	6,438.06	6,123.97	314.09	20.497	
19,800.00	7,730.00	16,992.52	7,628.75	177.52	161.42	89.18	-7,907.19	-609.63	6,439.14	6,122.54	316.60	20.339	
19,900.00	7,730.00	17,058.37	7,629.67	178.92	162.56	89.19	-7,973.02	-610.98	6,440.82	6,121.79	319.02	20.189	
20,000.00	7,730.00	17,134.93	7,630.63	180.33	163.89	89.20	-8,049.55	-612.87	6,442.92	6,121.16	321.76	20.024	
20,100.00	7,730.00	17,214.56	7,631.41	181.75	165.27	89.20	-8,129.15	-615.08	6,445.35	6,120.77	324.57	19.858	
20,184.95	7,730.00	17,273.25	7,631.76	182.96	166.28	89.21	-8,187.81	-616.92	6,447.72	6,121.02	326.70	19.736 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-54.92	787.25	-1,120.81	1,369.70					
100.00	100.00	90.46	90.46	0.13	0.15	-54.92	787.25	-1,120.84	1,369.69	1,369.41	0.28	4,886.478	CC, ES	
200.00	199.98	189.84	189.84	0.49	0.31	-125.42	787.22	-1,120.93	1,370.76	1,369.96	0.80	1,720.461		
300.00	299.84	286.13	286.13	0.86	0.57	-125.54	787.25	-1,121.11	1,373.97	1,372.54	1.43	963.340		
400.00	399.45	380.25	380.25	1.23	0.91	-125.72	787.59	-1,121.50	1,379.60	1,377.47	2.13	646.481		
500.00	498.70	473.99	473.98	1.63	1.24	-125.96	788.27	-1,122.09	1,387.71	1,384.86	2.85	486.341		
600.00	597.47	567.22	567.21	2.05	1.57	-126.26	789.29	-1,122.90	1,398.34	1,394.75	3.59	389.792		
700.00	695.62	666.04	666.01	2.51	1.92	-126.66	790.48	-1,123.90	1,411.34	1,406.97	4.36	323.646		
800.00	793.06	759.74	759.70	3.00	2.26	-127.08	791.69	-1,124.90	1,426.65	1,421.51	5.14	277.571		
900.00	889.64	875.86	875.75	3.53	2.66	-127.63	795.34	-1,124.24	1,443.92	1,437.90	6.02	239.973		
1,000.00	985.27	987.04	986.58	4.12	3.05	-128.03	802.57	-1,119.28	1,461.90	1,454.99	6.91	211.599		
1,100.00	1,079.82	1,080.31	1,079.44	4.75	3.39	-128.32	809.67	-1,114.34	1,482.06	1,474.29	7.78	190.615		
1,200.00	1,173.17	1,200.58	1,199.11	5.44	3.83	-128.83	819.27	-1,107.05	1,504.12	1,495.34	8.78	171.308		
1,300.00	1,265.21	1,290.64	1,288.74	6.18	4.16	-129.20	825.79	-1,101.19	1,527.79	1,518.08	9.71	157.397		
1,400.00	1,355.84	1,398.94	1,396.22	6.99	4.57	-129.67	835.50	-1,092.23	1,553.15	1,542.40	10.75	144.527		
1,500.00	1,444.94	1,493.35	1,489.75	7.87	4.94	-130.02	845.29	-1,083.93	1,581.18	1,569.41	11.77	134.293		
1,600.00	1,532.39	1,592.56	1,587.53	8.80	5.35	-130.34	857.89	-1,072.86	1,610.65	1,597.78	12.87	125.137		
1,700.00	1,618.11	1,661.44	1,655.31	9.81	5.64	-130.39	867.55	-1,065.38	1,643.38	1,629.51	13.87	118.497		
1,800.00	1,701.97	1,724.00	1,716.90	10.89	5.90	-130.37	876.84	-1,059.53	1,680.06	1,665.20	14.86	113.071		
1,900.00	1,783.88	1,823.29	1,814.51	12.04	6.33	-130.68	892.55	-1,050.37	1,719.65	1,703.59	16.06	107.046		
2,000.00	1,863.74	1,902.00	1,891.80	13.26	6.67	-130.79	905.20	-1,042.48	1,761.18	1,743.98	17.20	102.421		
2,100.00	1,941.45	1,965.94	1,954.63	14.55	6.95	-130.73	915.49	-1,036.64	1,805.93	1,787.67	18.26	98.896		
2,200.00	2,016.92	2,052.07	2,039.31	15.92	7.33	-130.91	929.74	-1,029.94	1,854.25	1,834.78	19.47	95.243		
2,292.11	2,084.36	2,187.39	2,172.07	17.25	7.94	-131.74	951.94	-1,016.10	1,899.04	1,878.11	20.93	90.736		
2,300.00	2,090.06	2,192.33	2,176.92	17.36	7.96	-131.80	952.73	-1,015.53	1,902.89	1,881.87	21.02	90.535		
2,400.00	2,162.18	2,258.00	2,241.30	18.84	8.26	-132.57	963.40	-1,008.31	1,952.40	1,930.27	22.13	88.212		
2,500.00	2,234.31	2,314.12	2,296.35	20.33	8.51	-133.20	972.79	-1,002.67	2,003.20	1,980.03	23.17	86.448		
2,600.00	2,306.43	2,371.57	2,352.71	21.83	8.77	-133.82	982.58	-997.48	2,055.30	2,031.10	24.20	84.937		
2,700.00	2,378.56	2,426.68	2,406.80	23.33	9.03	-134.40	992.21	-993.12	2,108.72	2,083.53	25.19	83.721		
2,800.00	2,450.68	2,483.00	2,462.09	24.84	9.28	-134.98	1,002.21	-989.23	2,163.35	2,137.18	26.16	82.684		
2,900.00	2,522.81	2,543.40	2,521.43	26.36	9.55	-135.58	1,012.89	-985.65	2,219.03	2,191.88	27.15	81.741		
3,000.00	2,594.93	2,603.36	2,580.39	27.88	9.82	-136.16	1,023.40	-982.79	2,275.80	2,247.70	28.11	80.966		
3,100.00	2,667.06	2,751.15	2,725.43	29.40	10.49	-137.48	1,050.28	-973.72	2,332.04	2,302.33	29.71	78.500		
3,200.00	2,739.18	2,855.67	2,827.84	30.92	10.98	-138.33	1,069.23	-964.93	2,386.66	2,355.67	30.99	77.008		
3,300.00	2,811.31	2,998.05	2,967.74	32.45	11.63	-139.51	1,091.26	-950.46	2,439.25	2,406.76	32.49	75.069		
3,400.00	2,883.43	3,151.72	3,118.96	33.98	12.32	-140.75	1,112.13	-932.92	2,491.45	2,457.43	34.01	73.254		
3,500.00	2,955.56	3,203.62	3,170.05	35.51	12.55	-141.16	1,118.57	-926.47	2,542.62	2,507.75	34.87	72.916		
3,600.00	3,027.68	3,294.57	3,259.74	37.04	12.96	-141.87	1,129.35	-915.89	2,594.61	2,558.66	35.95	72.175		
3,700.00	3,099.81	3,405.24	3,368.60	38.57	13.45	-142.68	1,143.34	-901.77	2,646.04	2,608.88	37.16	71.216		
3,800.00	3,171.93	3,451.08	3,413.68	40.11	13.66	-142.99	1,149.38	-896.00	2,697.87	2,659.92	37.94	71.101		
3,900.00	3,244.06	3,512.12	3,473.84	41.64	13.94	-143.42	1,157.04	-889.09	2,750.83	2,712.02	38.81	70.876		
4,000.00	3,316.18	3,592.75	3,553.11	43.18	14.30	-143.93	1,168.39	-879.75	2,804.03	2,764.22	39.81	70.432		
4,100.00	3,388.31	3,642.31	3,601.93	44.71	14.53	-144.24	1,175.13	-874.42	2,858.02	2,817.44	40.58	70.425		
4,200.00	3,460.43	3,732.80	3,691.22	46.25	14.93	-144.82	1,186.74	-865.44	2,912.78	2,871.16	41.62	69.987		
4,300.00	3,532.56	4,300.00	3,801.06	47.79	17.58	-145.44	1,203.27	-852.51	2,966.48	2,921.61	44.87	66.113		
4,400.00	3,604.68	3,895.35	3,850.86	49.33	15.68	-145.71	1,210.86	-846.61	3,020.51	2,976.91	43.60	69.279		
4,500.00	3,676.81	3,934.70	3,889.63	50.87	15.86	-145.93	1,216.34	-842.72	3,075.84	3,031.58	44.26	69.495		
4,600.00	3,748.93	4,006.76	3,960.80	52.41	16.18	-146.34	1,225.80	-836.57	3,132.27	3,087.13	45.14	69.389		
4,700.00	3,821.06	4,107.03	4,059.58	53.95	16.63	-146.85	1,240.07	-827.02	3,188.14	3,141.90	46.24	68.947		
4,800.00	3,893.18	4,187.43	4,138.68	55.49	17.00	-147.24	1,252.21	-819.24	3,244.13	3,196.93	47.20	68.732		
4,900.00	3,965.31	4,274.03	4,223.85	57.03	17.40	-147.64	1,265.41	-810.76	3,300.15	3,251.94	48.21	68.457		
5,000.00	4,037.43	4,340.43	4,289.05	58.58	17.70	-147.92	1,276.06	-804.14	3,356.21	3,307.15	49.06	68.412		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,382.92	4,330.90	60.12	17.90	-148.11	1,282.41	-800.37	3,413.13	3,363.42	49.70	68.671		
5,200.00	4,181.68	4,513.82	4,459.91	61.66	18.49	-148.69	1,301.23	-788.82	3,470.21	3,419.19	51.03	68.006		
5,300.00	4,253.81	4,556.67	4,502.09	63.20	18.68	-148.87	1,307.62	-784.86	3,527.01	3,475.35	51.67	68.265		
5,400.00	4,325.93	4,648.53	4,592.74	64.75	19.09	-149.26	1,320.43	-777.19	3,584.60	3,531.93	52.67	68.054		
5,500.00	4,398.06	5,500.00	4,714.02	66.29	22.96	-149.76	1,337.60	-764.98	3,640.80	3,583.71	57.09	63.771		
5,600.00	4,470.18	4,819.76	4,761.36	67.84	19.86	-149.94	1,344.75	-760.13	3,697.26	3,642.67	54.59	67.725		
5,700.00	4,542.31	4,989.35	4,928.12	69.38	20.65	-150.55	1,369.94	-742.53	3,753.56	3,697.33	56.23	66.753		
5,800.00	4,614.43	5,032.00	4,969.93	70.92	20.85	-150.69	1,376.73	-737.60	3,809.04	3,752.17	56.87	66.978		
5,900.00	4,686.56	5,085.96	5,022.95	72.47	21.10	-150.87	1,384.95	-731.86	3,865.25	3,807.67	57.58	67.126		
6,000.00	4,758.68	5,227.25	5,161.97	74.01	21.75	-151.34	1,405.71	-717.64	3,922.26	3,863.28	58.99	66.494		
6,100.00	4,830.81	5,254.65	5,188.94	75.56	21.88	-151.43	1,409.73	-714.85	3,978.54	3,919.06	59.48	66.891		
6,200.00	4,902.93	5,443.40	5,374.48	77.10	22.75	-152.03	1,436.63	-693.23	4,034.09	3,972.85	61.24	65.869		
6,300.00	4,975.06	5,477.00	5,407.46	78.65	22.91	-152.13	1,441.49	-689.03	4,089.06	4,027.27	61.79	66.177		
6,400.00	5,047.18	5,523.90	5,453.59	80.19	23.12	-152.27	1,448.02	-683.65	4,144.86	4,082.44	62.42	66.400		
6,500.00	5,119.31	5,566.00	5,495.11	81.74	23.31	-152.41	1,453.51	-679.45	4,201.70	4,138.70	63.00	66.690		
6,600.00	5,191.43	6,600.00	5,582.03	83.28	27.97	-152.67	1,465.54	-670.68	4,258.73	4,190.72	68.00	62.626		
6,700.00	5,263.56	5,702.48	5,629.62	84.83	23.93	-152.82	1,472.26	-665.90	4,315.96	4,251.38	64.58	66.832		
6,800.00	5,335.68	5,744.00	5,670.66	86.37	24.11	-152.94	1,477.46	-662.34	4,374.13	4,308.99	65.13	67.156		
6,900.00	5,407.81	5,857.79	5,783.16	87.92	24.61	-153.29	1,491.50	-652.71	4,432.54	4,366.28	66.26	66.893		
7,000.00	5,479.93	5,922.00	5,846.24	89.47	24.90	-153.45	1,501.79	-646.61	4,490.27	4,423.24	67.04	66.982		
7,100.00	5,552.06	5,974.83	5,898.05	91.01	25.15	-153.56	1,510.94	-641.84	4,548.49	4,480.77	67.72	67.164		
7,200.00	5,624.18	7,200.00	5,990.53	92.56	30.79	-153.78	1,525.98	-634.21	4,607.32	4,533.54	73.78	62.445		
7,300.00	5,696.31	6,143.10	6,063.55	94.10	25.92	-153.95	1,537.80	-627.63	4,665.60	4,595.98	69.62	67.018		
7,400.00	5,768.43	6,190.00	6,109.82	95.65	26.14	-154.06	1,544.61	-624.14	4,724.82	4,654.61	70.22	67.288		
7,500.00	5,840.56	6,298.57	6,216.94	97.20	26.62	-154.32	1,560.25	-615.87	4,784.22	4,712.87	71.35	67.057		
7,600.00	5,912.68	6,359.99	6,277.58	98.74	26.89	-154.47	1,568.64	-610.93	4,843.21	4,771.15	72.06	67.213		
7,700.00	5,984.81	7,700.00	6,508.69	100.29	33.09	-155.02	1,600.87	-589.08	4,901.37	4,822.32	79.05	62.002		
7,800.00	6,056.93	6,667.09	6,580.15	101.84	28.28	-155.17	1,611.55	-580.95	4,957.92	4,882.86	75.06	66.056		
7,900.00	6,129.06	6,695.74	6,608.29	103.38	28.41	-155.23	1,616.01	-578.00	5,015.19	4,939.68	75.51	66.415		
8,000.00	6,201.18	6,724.00	6,636.04	104.93	28.54	-155.28	1,620.67	-575.39	5,073.34	4,997.38	75.96	66.789		
8,100.00	6,273.31	6,753.05	6,664.60	106.48	28.67	-155.33	1,625.46	-573.00	5,132.32	5,055.92	76.40	67.173		
8,200.00	6,345.43	7,438.00	7,334.75	108.02	31.49	-157.22	1,674.94	-482.36	5,188.41	5,107.26	81.15	63.938		
8,300.00	6,417.56	7,475.00	7,369.57	109.57	31.53	-157.47	1,664.71	-475.22	5,238.35	5,156.95	81.40	64.353		
8,400.00	6,489.68	7,486.94	7,380.74	111.12	31.55	-157.55	1,661.00	-473.20	5,289.89	5,208.22	81.66	64.777		
8,500.00	6,561.81	7,527.00	7,417.87	112.66	31.60	-157.85	1,647.11	-467.51	5,343.11	5,261.26	81.85	65.279		
8,600.00	6,633.93	7,527.00	7,417.87	114.21	31.60	-157.85	1,647.11	-467.51	5,396.76	5,314.67	82.10	65.738		
8,700.00	6,706.06	7,527.00	7,417.87	115.76	31.60	-157.85	1,647.11	-467.51	5,451.72	5,369.40	82.32	66.227		
8,800.00	6,778.18	7,527.00	7,417.87	117.30	31.60	-157.85	1,647.11	-467.51	5,507.95	5,425.43	82.52	66.745		
8,900.00	6,850.31	7,527.00	7,417.87	118.85	31.60	-157.85	1,647.11	-467.51	5,565.41	5,482.70	82.71	67.290		
9,000.00	6,922.43	7,527.00	7,417.87	120.40	31.60	-157.85	1,647.11	-467.51	5,624.06	5,541.18	82.87	67.862		
9,100.00	6,994.56	7,527.00	7,417.87	121.95	31.60	-157.85	1,647.11	-467.51	5,683.86	5,600.83	83.03	68.459		
9,200.00	7,066.68	7,527.00	7,417.87	123.49	31.60	-157.85	1,647.11	-467.51	5,744.78	5,661.62	83.16	69.080		
9,300.00	7,138.81	7,567.16	7,454.41	125.04	31.60	-158.17	1,630.92	-463.66	5,805.57	5,722.37	83.20	69.778		
9,392.50	7,205.52	7,573.37	7,459.99	126.47	31.60	-158.22	1,628.21	-463.25	5,863.45	5,780.16	83.29	70.398		
9,400.00	7,210.94	7,573.87	7,460.43	126.59	31.60	-159.59	1,627.99	-463.22	5,868.18	5,784.89	83.30	70.449		
9,450.00	7,247.42	7,577.32	7,463.52	127.35	31.60	-168.97	1,626.46	-463.02	5,900.06	5,816.72	83.34	70.797		
9,500.00	7,284.35	7,616.00	7,497.58	128.10	31.61	-178.88	1,608.20	-461.80	5,933.25	5,849.97	83.27	71.250		
9,550.00	7,321.43	7,616.00	7,497.58	128.83	31.61	171.40	1,608.20	-461.80	5,965.44	5,882.13	83.31	71.607		
9,600.00	7,358.38	7,616.00	7,497.58	129.52	31.61	161.80	1,608.20	-461.80	5,997.51	5,914.18	83.33	71.972		
9,650.00	7,394.93	7,616.00	7,497.58	130.16	31.61	152.53	1,608.20	-461.80	6,029.24	5,945.89	83.34	72.342		
9,700.00	7,430.79	7,616.00	7,497.58	130.76	31.61	143.75	1,608.20	-461.80	6,060.37	5,977.03	83.35	72.712		
9,750.00	7,465.70	7,616.00	7,497.58	131.30	31.61	135.60	1,608.20	-461.80	6,090.70	6,007.36	83.34	73.078		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,616.00	7,497.58	131.78	31.61	128.14	1,608.20	-461.80	6,120.00	6,036.66	83.34	73.436		
9,850.00	7,531.58	7,616.00	7,497.58	132.21	31.61	121.41	1,608.20	-461.80	6,148.06	6,064.73	83.33	73.778		
9,900.00	7,562.06	7,616.00	7,497.58	132.57	31.61	115.42	1,608.20	-461.80	6,174.69	6,091.36	83.33	74.100		
9,950.00	7,590.58	7,616.00	7,497.58	132.87	31.61	110.13	1,608.20	-461.80	6,199.70	6,116.37	83.34	74.394		
10,000.00	7,616.93	7,616.00	7,497.58	133.11	31.61	105.52	1,608.20	-461.80	6,222.93	6,139.58	83.36	74.655		
10,050.00	7,640.90	7,647.62	7,524.74	133.29	31.59	101.69	1,592.02	-461.79	6,243.96	6,160.66	83.29	74.965		
10,100.00	7,662.32	7,659.43	7,534.76	133.42	31.58	98.37	1,585.76	-461.87	6,262.93	6,179.62	83.31	75.174		
10,150.00	7,681.01	7,671.06	7,544.55	133.50	31.57	95.60	1,579.47	-462.00	6,279.63	6,196.27	83.36	75.332		
10,200.00	7,696.85	7,705.00	7,572.68	133.52	31.55	93.48	1,560.51	-462.66	6,294.09	6,210.74	83.35	75.515		
10,250.00	7,709.70	10,250.00	7,595.35	133.51	31.80	91.82	1,543.20	-463.08	6,305.79	6,223.83	81.96	76.934		
10,300.00	7,719.47	7,962.96	7,761.84	133.46	31.25	91.72	1,386.46	-462.27	6,313.67	6,231.42	82.25	76.764		
10,350.00	7,726.09	7,973.00	7,768.05	133.37	31.23	90.92	1,378.57	-462.10	6,318.83	6,236.43	82.40	76.686		
10,400.00	7,729.50	7,973.00	7,768.05	133.26	31.23	90.49	1,378.57	-462.10	6,321.49	6,238.83	82.66	76.477		
10,427.79	7,730.00	7,973.00	7,768.05	133.18	31.23	90.43	1,378.57	-462.10	6,321.89	6,239.07	82.82	76.332		
10,454.80	7,730.00	8,003.79	7,786.45	133.11	31.18	90.59	1,353.88	-461.79	6,321.67	6,238.91	82.76	76.382		
10,500.00	7,730.00	8,013.34	7,791.95	132.98	31.16	90.64	1,346.08	-461.79	6,321.85	6,238.88	82.97	76.197		
10,600.00	7,730.00	10,600.00	7,825.64	132.72	30.14	90.95	1,291.80	-462.56	6,323.37	6,241.02	82.35	76.782		
10,700.00	7,730.00	8,204.67	7,881.34	132.47	30.82	91.45	1,177.43	-462.97	6,324.38	6,241.68	82.70	76.474		
10,800.00	7,730.00	8,449.50	7,936.30	132.22	30.45	91.95	939.91	-461.73	6,323.85	6,242.44	81.41	77.682		
10,900.00	7,730.00	8,507.00	7,938.63	131.99	30.40	91.97	882.47	-461.64	6,323.37	6,241.74	81.63	77.461		
10,920.73	7,730.00	8,507.00	7,938.63	131.94	30.40	91.97	882.47	-461.64	6,323.34	6,241.56	81.78	77.325		
11,000.00	7,730.00	8,591.51	7,940.36	131.77	30.41	91.99	797.97	-461.97	6,323.44	6,241.68	81.76	77.344		
11,100.00	7,730.00	8,685.00	7,942.79	131.56	30.62	92.01	704.52	-461.83	6,323.07	6,241.11	81.96	77.149		
11,126.25	7,730.00	8,712.58	7,943.50	131.50	30.72	92.02	676.94	-461.80	6,322.97	6,240.93	82.04	77.075		
11,126.25	7,730.00	8,712.58	7,943.50	131.50	30.72	92.02	676.94	-461.80	6,322.97	6,240.93	82.04	77.075		
11,200.00	7,730.00	8,740.58	7,944.22	131.36	30.84	92.02	648.96	-461.97	6,323.23	6,240.80	82.44	76.702		
11,300.00	7,730.00	8,987.28	7,951.78	131.17	32.32	92.09	402.39	-462.23	6,323.57	6,240.87	82.70	76.464		
11,400.00	7,730.00	9,066.50	7,952.10	130.99	32.91	92.10	323.18	-461.45	6,322.23	6,238.80	83.43	75.781		
11,500.00	7,730.00	9,159.30	7,951.88	130.82	33.67	92.09	230.39	-460.46	6,320.84	6,236.57	84.27	75.006		
11,600.00	7,730.00	11,600.00	7,953.61	130.66	57.24	92.11	128.32	-459.82	6,319.94	6,214.02	105.92	59.670		
11,700.00	7,730.00	9,309.00	7,954.67	130.51	35.01	92.12	80.72	-459.37	6,318.97	6,232.79	86.18	73.326		
11,769.71	7,730.00	9,356.24	7,955.67	130.41	35.46	92.13	33.50	-459.00	6,318.43	6,231.53	86.90	72.705		
11,800.00	7,730.00	9,364.20	7,955.82	130.37	35.54	92.13	25.54	-459.04	6,318.49	6,231.33	87.16	72.493		
11,900.00	7,730.00	9,398.00	7,956.41	130.24	35.87	92.14	-8.26	-459.50	6,319.44	6,231.37	88.07	71.756		
12,000.00	7,730.00	9,754.00	7,964.46	130.13	39.74	92.21	-364.11	-457.13	6,317.77	6,226.46	91.32	69.183		
12,100.00	7,730.00	9,793.22	7,965.44	130.02	40.21	92.22	-403.31	-456.24	6,315.47	6,223.05	92.42	68.335		
12,200.00	7,730.00	9,843.00	7,967.16	129.93	40.80	92.23	-453.06	-456.03	6,314.51	6,220.87	93.64	67.433		
12,256.23	7,730.00	9,843.00	7,967.16	129.88	40.80	92.23	-453.06	-456.03	6,314.26	6,220.18	94.07	67.120		
12,300.00	7,730.00	9,862.71	7,967.94	129.85	41.05	92.24	-472.75	-456.14	6,314.38	6,219.78	94.60	66.749		
12,400.00	7,730.00	9,969.49	7,972.00	129.77	42.36	92.28	-579.45	-456.67	6,314.68	6,218.21	96.47	65.454		
12,500.00	7,730.00	10,154.23	7,973.77	129.71	44.73	92.29	-764.17	-456.14	6,313.93	6,214.57	99.36	63.545		
12,600.00	7,730.00	12,600.00	7,969.80	129.66	78.28	92.26	-941.82	-454.68	6,313.03	6,179.61	133.41	47.320		
12,700.00	7,730.00	10,422.39	7,967.04	129.63	48.36	92.23	-1,032.22	-452.87	6,310.59	6,206.19	104.41	60.441		
12,800.00	7,730.00	10,467.00	7,965.72	129.60	48.98	92.22	-1,076.80	-452.32	6,308.90	6,203.10	105.80	59.632		
12,900.00	7,730.00	10,514.81	7,964.66	129.59	49.65	92.21	-1,124.60	-452.12	6,308.05	6,200.80	107.26	58.813		
12,946.64	7,730.00	10,537.68	7,964.36	129.59	49.97	92.21	-1,147.47	-452.16	6,307.93	6,199.98	107.95	58.432		
13,000.00	7,730.00	10,556.00	7,964.22	129.59	50.23	92.21	-1,165.79	-452.24	6,308.03	6,199.40	108.63	58.069		
13,100.00	7,730.00	10,619.19	7,964.44	129.60	51.12	92.21	-1,228.98	-452.86	6,308.73	6,198.37	110.36	57.166		
13,200.00	7,730.00	10,896.28	7,973.18	129.63	55.16	92.29	-1,505.90	-452.37	6,308.22	6,192.53	115.70	54.524		
13,300.00	7,730.00	11,027.60	7,974.94	129.66	57.12	92.31	-1,637.18	-450.10	6,306.20	6,187.44	118.76	53.099		
13,400.00	7,730.00	11,084.91	7,973.93	129.72	57.99	92.30	-1,694.48	-449.27	6,304.33	6,183.79	120.54	52.301		
13,500.00	7,730.00	11,206.21	7,969.92	129.78	59.83	92.26	-1,815.70	-447.98	6,302.84	6,179.34	123.50	51.035		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,600.00	7,730.00	11,324.66	7,966.28	129.86	61.66	92.23	-1,934.08	-445.99	6,300.69	6,174.21	126.48	49.816		
13,700.00	7,730.00	11,402.14	7,964.36	129.96	62.86	92.21	-2,011.53	-444.76	6,298.67	6,169.95	128.72	48.935		
13,800.00	7,730.00	11,469.00	7,962.95	130.07	63.90	92.20	-2,078.37	-443.98	6,297.09	6,166.33	130.76	48.156		
13,900.00	7,730.00	11,531.43	7,961.77	130.19	64.87	92.19	-2,140.78	-443.60	6,296.08	6,163.34	132.74	47.432		
14,000.00	7,730.00	11,589.51	7,960.74	130.33	65.78	92.18	-2,198.85	-443.61	6,295.71	6,161.07	134.64	46.761		
14,004.51	7,730.00	11,592.05	7,960.70	130.34	65.82	92.18	-2,201.39	-443.62	6,295.71	6,160.98	134.72	46.731		
14,100.00	7,730.00	11,647.00	7,959.85	130.49	66.68	92.17	-2,256.34	-444.03	6,296.02	6,159.49	136.53	46.114		
14,200.00	7,730.00	11,696.18	7,959.24	130.67	67.45	92.17	-2,305.50	-444.74	6,297.08	6,158.82	138.26	45.545		
14,300.00	7,730.00	11,736.00	7,958.87	130.86	68.07	92.16	-2,345.32	-445.59	6,298.94	6,159.14	139.80	45.057		
14,400.00	7,730.00	11,794.11	7,958.33	131.07	68.98	92.16	-2,403.40	-447.30	6,301.58	6,159.86	141.72	44.464		
14,500.00	7,730.00	11,854.47	7,957.64	131.30	69.93	92.15	-2,463.71	-449.64	6,305.03	6,161.34	143.69	43.878		
14,600.00	7,730.00	11,933.25	7,956.80	131.55	71.17	92.14	-2,542.41	-452.97	6,308.88	6,162.81	146.07	43.192		
14,700.00	7,730.00	12,004.00	7,956.20	131.82	72.28	92.14	-2,613.09	-456.25	6,313.15	6,164.87	148.28	42.576		
14,800.00	7,730.00	12,194.51	7,956.84	132.11	75.30	92.14	-2,803.41	-464.51	6,317.36	6,164.20	153.16	41.248		
14,900.00	7,730.00	12,327.47	7,958.13	132.42	77.44	92.15	-2,936.29	-469.00	6,320.52	6,163.68	156.84	40.299		
15,000.00	7,730.00	12,413.28	7,959.00	132.75	78.82	92.16	-3,022.06	-471.33	6,322.97	6,163.49	159.48	39.647		
15,100.00	7,730.00	12,469.52	7,959.08	133.10	79.73	92.16	-3,078.27	-473.26	6,326.07	6,164.63	161.45	39.184		
15,200.00	7,730.00	12,538.00	7,959.18	133.48	80.83	92.16	-3,146.69	-476.18	6,329.93	6,166.23	163.70	38.669		
15,300.00	7,730.00	12,639.90	7,959.94	133.88	82.48	92.16	-3,248.48	-480.74	6,334.10	6,167.35	166.74	37.988		
15,400.00	7,730.00	13,743.78	7,945.52	134.31	100.98	92.05	-4,349.60	-445.66	6,334.80	6,140.70	194.10	32.637		
15,500.00	7,730.00	13,786.00	7,946.14	134.76	101.71	92.05	-4,391.55	-440.88	6,323.29	6,127.36	195.94	32.272		
15,600.00	7,730.00	13,833.65	7,946.84	135.23	102.53	92.06	-4,438.93	-435.89	6,312.64	6,114.74	197.90	31.898		
15,700.00	7,730.00	13,875.00	7,947.50	135.73	103.24	92.07	-4,480.09	-432.00	6,302.94	6,103.24	199.70	31.561		
15,800.00	7,730.00	13,907.21	7,948.01	136.26	103.79	92.07	-4,512.19	-429.30	6,294.24	6,092.97	201.27	31.273		
15,900.00	7,730.00	13,964.00	7,948.77	136.81	104.77	92.08	-4,568.83	-425.30	6,286.69	6,083.25	203.44	30.901		
16,000.00	7,730.00	13,964.00	7,948.77	137.39	104.77	92.08	-4,568.83	-425.30	6,279.98	6,075.81	204.17	30.758		
16,100.00	7,730.00	14,010.45	7,949.37	138.00	105.57	92.09	-4,615.21	-422.76	6,274.36	6,068.30	206.06	30.449		
16,200.00	7,730.00	14,053.00	7,950.00	138.63	106.29	92.09	-4,657.71	-420.99	6,269.82	6,061.97	207.85	30.166		
16,300.00	7,730.00	14,053.00	7,950.00	139.30	106.29	92.09	-4,657.71	-420.99	6,266.45	6,057.94	208.51	30.053		
16,400.00	7,730.00	14,107.96	7,950.77	139.99	107.23	92.10	-4,712.65	-419.59	6,263.91	6,053.31	210.59	29.744		
16,500.00	7,730.00	14,142.00	7,951.15	140.70	107.81	92.11	-4,746.68	-419.27	6,262.61	6,050.50	212.11	29.525		
16,549.70	7,730.00	14,142.00	7,951.15	141.07	107.81	92.11	-4,746.68	-419.27	6,262.42	6,050.00	212.42	29.482		
16,600.00	7,730.00	14,142.00	7,951.15	141.45	107.81	92.11	-4,746.68	-419.27	6,262.62	6,049.90	212.71	29.441		
16,700.00	7,730.00	14,195.15	7,951.56	142.22	108.71	92.11	-4,799.83	-419.68	6,263.42	6,048.71	214.70	29.172		
16,800.00	7,730.00	14,231.00	7,951.67	143.03	109.31	92.11	-4,835.67	-420.62	6,265.56	6,049.34	216.22	28.978		
16,900.00	7,730.00	14,285.28	7,951.71	143.86	110.22	92.11	-4,889.92	-422.52	6,268.62	6,050.40	218.22	28.726		
17,000.00	7,730.00	14,647.50	7,954.01	144.71	116.36	92.13	-5,252.01	-427.88	6,269.66	6,041.11	228.55	27.432		
17,100.00	7,730.00	14,707.89	7,955.34	145.60	117.39	92.14	-5,312.39	-427.65	6,269.05	6,038.28	230.78	27.165		
17,131.49	7,730.00	14,723.95	7,955.68	145.88	117.66	92.15	-5,328.45	-427.67	6,269.01	6,037.62	231.40	27.092		
17,200.00	7,730.00	14,766.00	7,956.51	146.51	118.38	92.15	-5,370.49	-427.92	6,269.21	6,036.27	232.94	26.914		
17,300.00	7,730.00	14,810.22	7,957.24	147.44	119.13	92.16	-5,414.70	-428.48	6,270.12	6,035.42	234.70	26.715		
17,400.00	7,730.00	14,855.00	7,957.78	148.40	119.89	92.16	-5,459.46	-429.35	6,271.83	6,035.36	236.47	26.523		
17,500.00	7,730.00	14,909.88	7,958.13	149.39	120.82	92.17	-5,514.33	-430.86	6,274.32	6,035.82	238.51	26.307		
17,600.00	7,730.00	14,968.37	7,958.20	150.40	121.81	92.17	-5,572.77	-433.01	6,277.62	6,036.99	240.63	26.088		
17,700.00	7,730.00	15,179.53	7,961.64	151.44	125.40	92.20	-5,783.77	-439.69	6,280.73	6,033.69	247.04	25.424		
17,800.00	7,730.00	15,311.92	7,966.98	152.50	127.66	92.24	-5,916.04	-441.97	6,282.26	6,030.99	251.27	25.002		
17,900.00	7,730.00	15,420.20	7,970.56	153.58	129.51	92.28	-6,024.25	-443.41	6,283.38	6,028.54	254.84	24.656		
18,000.00	7,730.00	15,517.24	7,973.51	154.68	131.17	92.30	-6,121.24	-444.89	6,284.69	6,026.60	258.10	24.350		
18,100.00	7,730.00	15,675.02	7,978.57	155.80	133.88	92.35	-6,278.93	-446.28	6,285.32	6,022.25	263.07	23.893		
18,200.00	7,730.00	15,761.22	7,981.34	156.95	135.37	92.37	-6,365.08	-446.84	6,285.75	6,019.72	266.03	23.628		
18,300.00	7,730.00	15,859.07	7,984.82	158.11	137.05	92.41	-6,462.87	-447.40	6,286.14	6,016.81	269.33	23.340		
18,400.00	7,730.00	15,924.00	7,986.94	159.30	138.17	92.42	-6,527.76	-448.13	6,287.03	6,015.33	271.70	23.140		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,500.00	7,730.00	15,984.13	7,988.82	160.50	139.20	92.44	-6,587.85	-449.17	6,288.51	6,014.59	273.92	22.957	
18,600.00	7,730.00	16,053.70	7,991.14	161.72	140.39	92.46	-6,657.37	-450.68	6,290.49	6,014.08	276.41	22.758	
18,700.00	7,730.00	16,120.66	7,993.41	162.96	141.54	92.48	-6,724.26	-452.46	6,292.95	6,014.14	278.81	22.571	
18,800.00	7,730.00	16,191.00	7,995.68	164.21	142.75	92.50	-6,794.53	-454.78	6,296.02	6,014.71	281.31	22.381	
18,900.00	7,730.00	16,229.62	7,996.83	165.48	143.41	92.51	-6,833.10	-456.34	6,299.77	6,016.91	282.86	22.272	
19,000.00	7,730.00	16,280.00	7,998.20	166.76	144.27	92.52	-6,883.40	-458.80	6,304.39	6,019.64	284.74	22.140	
19,100.00	7,730.00	16,368.36	8,000.71	168.06	145.77	92.54	-6,971.59	-463.53	6,309.52	6,021.77	287.75	21.927	
19,200.00	7,730.00	16,435.24	8,002.47	169.38	146.91	92.56	-7,038.35	-467.30	6,314.94	6,024.83	290.11	21.767	
19,300.00	7,730.00	16,517.96	8,003.94	170.70	148.32	92.57	-7,120.90	-472.37	6,320.79	6,027.85	292.94	21.577	
19,400.00	7,730.00	16,622.05	8,005.56	172.04	150.09	92.58	-7,224.78	-478.84	6,326.74	6,030.32	296.42	21.344	
19,500.00	7,730.00	17,122.28	7,998.13	173.40	158.66	92.51	-7,724.40	-497.50	6,332.47	6,020.99	311.48	20.330	
19,600.00	7,730.00	17,666.08	7,999.54	174.76	168.19	92.53	-8,267.18	-475.45	6,326.12	5,999.09	327.03	19.344	
19,700.00	7,730.00	17,780.59	8,004.40	176.14	170.21	92.58	-8,381.27	-466.89	6,318.49	5,987.62	330.87	19.097	
19,800.00	7,730.00	17,796.00	8,005.06	177.52	170.48	92.58	-8,396.62	-465.73	6,311.39	5,979.30	332.08	19.005	
19,900.00	7,730.00	17,796.00	8,005.06	178.92	170.48	92.58	-8,396.62	-465.73	6,305.84	5,973.01	332.83	18.946	
20,000.00	7,730.00	17,796.00	8,005.06	180.33	170.48	92.58	-8,396.62	-465.73	6,301.88	5,968.36	333.52	18.895	
20,100.00	7,730.00	17,796.00	8,005.06	181.75	170.48	92.58	-8,396.62	-465.73	6,299.50	5,965.37	334.13	18.853	
20,184.95	7,730.00	17,796.00	8,005.06	182.96	170.48	92.58	-8,396.62	-465.73	6,298.73	5,964.13	334.60	18.825 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.68	787.25	-1,111.02	1,361.70					
100.00	100.00	89.70	89.70	0.13	0.15	-54.68	787.23	-1,111.05	1,361.67	1,361.39	0.28	4,800.735 CC, ES		
200.00	199.98	189.34	189.34	0.49	0.31	-125.18	787.14	-1,111.15	1,362.71	1,361.91	0.81	1,691.718		
300.00	299.84	288.85	288.85	0.86	0.48	-125.32	786.99	-1,111.33	1,365.79	1,364.46	1.33	1,023.739		
400.00	399.45	386.18	386.18	1.23	0.77	-125.53	786.90	-1,111.55	1,370.99	1,369.00	1.99	687.759		
500.00	498.70	482.39	482.39	1.63	1.10	-125.80	787.24	-1,111.72	1,378.49	1,375.77	2.72	507.688		
600.00	597.47	578.18	578.18	2.05	1.44	-126.12	788.02	-1,111.84	1,388.31	1,384.86	3.45	402.138		
700.00	695.62	680.01	680.00	2.51	1.79	-126.56	788.75	-1,112.04	1,400.32	1,396.09	4.23	330.959		
800.00	793.06	786.24	786.16	3.00	2.16	-126.97	791.79	-1,110.15	1,414.07	1,409.02	5.05	280.080		
900.00	889.64	886.43	886.19	3.53	2.51	-127.34	796.26	-1,106.92	1,429.70	1,423.83	5.87	243.418		
1,000.00	985.27	992.20	991.68	4.12	2.89	-127.75	802.40	-1,102.22	1,447.29	1,440.54	6.75	214.260		
1,100.00	1,079.82	1,085.91	1,084.86	4.75	3.24	-128.01	810.33	-1,096.15	1,466.80	1,459.17	7.63	192.154		
1,200.00	1,173.17	1,232.58	1,230.48	5.44	3.80	-128.67	822.44	-1,083.78	1,486.72	1,477.96	8.76	169.803		
1,300.00	1,265.21	1,317.28	1,314.57	6.18	4.12	-128.98	828.75	-1,075.79	1,507.93	1,498.25	9.68	155.793		
1,400.00	1,355.84	1,395.55	1,392.01	6.99	4.44	-129.17	837.12	-1,068.15	1,532.71	1,522.09	10.62	144.346		
1,500.00	1,444.94	1,480.14	1,474.98	7.87	4.79	-129.26	850.20	-1,058.27	1,560.42	1,548.78	11.64	134.069		
1,600.00	1,532.39	1,555.23	1,548.19	8.80	5.13	-129.22	864.22	-1,049.20	1,591.44	1,578.78	12.66	125.666		
1,700.00	1,618.11	1,644.51	1,635.42	9.81	5.53	-129.32	880.38	-1,039.14	1,625.19	1,611.39	13.80	117.804		
1,800.00	1,701.97	1,708.19	1,697.87	10.89	5.81	-129.27	891.24	-1,033.03	1,662.19	1,647.38	14.81	112.213		
1,900.00	1,783.88	1,807.63	1,795.49	12.04	6.25	-129.57	908.05	-1,024.37	1,702.23	1,686.18	16.05	106.078		
2,000.00	1,863.74	1,926.49	1,912.26	13.26	6.78	-130.14	926.56	-1,012.17	1,742.77	1,725.36	17.41	100.089		
2,100.00	1,941.45	1,990.00	1,974.74	14.55	7.06	-130.13	936.15	-1,006.02	1,786.20	1,767.71	18.49	96.592		
2,200.00	2,016.92	2,127.76	2,110.24	15.92	7.68	-131.02	956.67	-992.06	1,832.03	1,812.02	20.00	91.590		
2,292.11	2,084.36	2,219.92	2,200.76	17.25	8.10	-131.44	969.26	-980.18	1,873.82	1,852.61	21.22	88.320		
2,300.00	2,090.06	2,225.10	2,205.84	17.36	8.13	-131.50	969.98	-979.52	1,877.52	1,856.22	21.31	88.118		
2,400.00	2,162.18	2,289.85	2,269.44	18.84	8.42	-132.29	979.13	-971.54	1,925.07	1,902.65	22.42	85.851		
2,500.00	2,234.31	2,353.14	2,331.61	20.33	8.71	-133.04	988.50	-964.21	1,973.88	1,950.37	23.51	83.950		
2,600.00	2,306.43	2,413.08	2,390.49	21.83	8.99	-133.71	997.71	-957.79	2,023.97	1,999.41	24.56	82.402		
2,700.00	2,378.56	2,476.70	2,453.02	23.33	9.28	-134.40	1,007.68	-951.60	2,075.30	2,049.68	25.61	81.031		
2,800.00	2,450.68	2,542.22	2,517.50	24.84	9.57	-135.10	1,017.71	-945.78	2,127.60	2,100.95	26.65	79.837		
2,900.00	2,522.81	2,607.20	2,581.54	26.36	9.86	-135.79	1,027.40	-940.58	2,180.85	2,153.18	27.66	78.838		
3,000.00	2,594.93	2,673.76	2,647.13	27.88	10.16	-136.46	1,037.60	-935.61	2,234.95	2,206.29	28.67	77.960		
3,100.00	2,667.06	2,770.82	2,742.55	29.40	10.60	-137.36	1,053.65	-928.04	2,289.41	2,259.52	29.89	76.604		
3,200.00	2,739.18	3,200.00	2,896.68	30.92	12.65	-138.66	1,080.84	-911.73	2,342.13	2,309.32	32.81	71.380		
3,300.00	2,811.31	3,053.93	3,019.62	32.45	11.95	-139.64	1,101.32	-895.16	2,392.52	2,359.56	32.96	72.586		
3,400.00	2,883.43	3,105.93	3,070.55	33.98	12.20	-140.03	1,109.46	-888.56	2,443.67	2,409.81	33.86	72.180		
3,500.00	2,955.56	3,255.79	3,217.62	35.51	12.90	-141.18	1,130.82	-869.31	2,494.86	2,459.48	35.37	70.532		
3,600.00	3,027.68	3,333.12	3,293.36	37.04	13.27	-141.74	1,141.62	-858.02	2,544.64	2,508.23	36.40	69.900		
3,700.00	3,099.81	3,382.45	3,341.84	38.57	13.50	-142.10	1,147.94	-851.46	2,595.49	2,558.26	37.23	69.720		
3,800.00	3,171.93	3,439.97	3,398.51	40.11	13.76	-142.53	1,154.96	-844.58	2,647.53	2,609.45	38.08	69.526		
3,900.00	3,244.06	3,503.10	3,460.62	41.64	14.05	-142.96	1,163.57	-837.33	2,700.42	2,661.46	38.96	69.306		
4,000.00	3,316.18	3,569.46	3,525.81	43.18	14.36	-143.39	1,173.56	-829.94	2,753.99	2,714.12	39.87	69.066		
4,100.00	3,388.31	3,657.46	3,612.19	44.71	14.77	-143.92	1,187.25	-820.25	2,807.90	2,766.95	40.94	68.582		
4,200.00	3,460.43	3,735.36	3,688.63	46.25	15.14	-144.37	1,199.48	-811.57	2,861.86	2,819.93	41.93	68.249		
4,300.00	3,532.56	4,300.00	3,801.28	47.79	17.87	-144.99	1,218.34	-797.62	2,915.14	2,869.85	45.29	64.364		
4,400.00	3,604.68	3,905.33	3,855.09	49.33	15.95	-145.29	1,226.92	-790.84	2,968.55	2,924.54	44.02	67.442		
4,500.00	3,676.81	3,964.00	3,912.75	50.87	16.23	-145.60	1,235.95	-784.84	3,023.49	2,978.65	44.84	67.435		
4,600.00	3,748.93	4,027.83	3,975.57	52.41	16.52	-145.94	1,245.45	-778.79	3,079.12	3,033.44	45.67	67.414		
4,700.00	3,821.06	4,113.42	4,059.80	53.95	16.92	-146.39	1,258.02	-770.23	3,134.54	3,087.86	46.67	67.157		
4,800.00	3,893.18	4,194.57	4,139.50	55.49	17.30	-146.77	1,270.91	-762.04	3,190.13	3,142.48	47.65	66.945		
4,900.00	3,965.31	4,261.88	4,205.52	57.03	17.61	-147.08	1,282.11	-755.22	3,245.89	3,197.36	48.52	66.892		
5,000.00	4,037.43	4,320.00	4,262.62	58.58	17.89	-147.34	1,291.50	-749.83	3,302.33	3,253.02	49.31	66.972		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,525.93	4,464.37	60.12	18.88	-148.18	1,325.68	-727.00	3,357.29	3,305.99	51.31	65.435		
5,200.00	4,181.68	4,588.00	4,524.88	61.66	19.19	-148.41	1,336.88	-718.86	3,411.04	3,358.88	52.16	65.397		
5,300.00	4,253.81	4,636.49	4,572.24	63.20	19.43	-148.58	1,345.42	-712.90	3,465.58	3,412.70	52.88	65.535		
5,400.00	4,325.93	4,677.00	4,611.89	64.75	19.63	-148.73	1,352.53	-708.64	3,521.38	3,467.86	53.52	65.792		
5,500.00	4,398.06	4,745.18	4,776.67	66.29	20.43	-149.33	1,380.67	-690.31	3,577.30	3,522.08	55.22	64.787		
5,600.00	4,470.18	4,948.44	4,877.76	67.84	20.94	-149.70	1,397.11	-677.10	3,631.32	3,574.96	56.36	64.434		
5,700.00	4,542.31	4,991.74	4,920.13	69.38	21.15	-149.85	1,404.20	-671.72	3,685.72	3,628.71	57.01	64.647		
5,800.00	4,614.43	5,033.00	4,960.57	70.92	21.35	-149.99	1,410.88	-666.97	3,741.02	3,683.38	57.64	64.904		
5,900.00	4,686.56	5,080.16	5,006.90	72.47	21.56	-150.15	1,418.17	-662.05	3,797.18	3,738.89	58.29	65.140		
6,000.00	4,758.68	5,133.01	5,058.99	74.01	21.81	-150.35	1,425.66	-657.15	3,854.22	3,795.24	58.98	65.353		
6,100.00	4,830.81	5,282.12	5,206.02	75.56	22.48	-150.90	1,445.11	-641.79	3,910.21	3,849.81	60.40	64.736		
6,200.00	4,902.93	5,477.65	5,398.32	77.10	23.38	-151.57	1,471.55	-618.36	3,965.49	3,903.30	62.19	63.763		
6,300.00	4,975.06	5,514.71	5,434.62	78.65	23.56	-151.68	1,477.12	-613.47	4,019.61	3,956.84	62.77	64.039		
6,400.00	5,047.18	5,567.00	5,486.01	80.19	23.80	-151.84	1,484.59	-607.31	4,074.80	4,011.35	63.45	64.219		
6,500.00	5,119.31	5,618.19	5,536.38	81.74	24.04	-152.00	1,491.76	-601.67	4,130.65	4,066.54	64.12	64.426		
6,600.00	5,191.43	5,722.44	5,638.89	83.28	24.53	-152.32	1,506.60	-589.85	4,186.45	4,121.24	65.21	64.202		
6,700.00	5,263.56	5,813.40	5,728.35	84.83	24.95	-152.59	1,519.04	-579.14	4,241.91	4,175.73	66.18	64.095		
6,800.00	5,335.68	5,935.33	5,848.14	86.37	25.52	-152.94	1,536.18	-564.20	4,297.07	4,229.66	67.41	63.745		
6,900.00	5,407.81	5,955.30	5,867.79	87.92	25.61	-152.99	1,538.95	-561.89	4,352.51	4,284.70	67.81	64.185		
7,000.00	5,479.93	5,984.27	5,896.33	89.47	25.74	-153.08	1,542.80	-558.77	4,408.97	4,340.70	68.27	64.581		
7,100.00	5,552.06	6,014.47	5,926.16	91.01	25.88	-153.17	1,546.54	-555.90	4,466.43	4,397.71	68.72	64.993		
7,200.00	5,624.18	6,119.01	6,029.40	92.56	26.34	-153.47	1,559.80	-546.21	4,524.18	4,454.40	69.78	64.838		
7,300.00	5,696.31	6,214.05	6,123.14	94.10	26.76	-153.73	1,572.48	-536.99	4,581.63	4,510.87	70.77	64.741		
7,400.00	5,768.43	6,319.41	6,227.04	95.65	27.24	-154.01	1,586.37	-526.36	4,638.82	4,566.98	71.84	64.570		
7,500.00	5,840.56	7,500.00	6,347.92	97.20	32.61	-154.33	1,602.34	-512.87	4,695.24	4,617.70	77.54	60.553		
7,600.00	5,912.68	6,580.23	6,483.76	98.74	28.43	-154.66	1,620.65	-495.77	4,750.35	4,675.97	74.39	63.859		
7,700.00	5,984.81	6,636.00	6,538.71	100.29	28.69	-154.81	1,627.54	-489.09	4,806.06	4,731.01	75.05	64.038		
7,800.00	6,056.93	7,223.53	7,110.98	101.84	30.75	-157.26	1,613.68	-392.68	4,858.98	4,781.20	77.78	62.467		
7,900.00	6,129.06	7,261.00	7,145.58	103.38	30.81	-157.55	1,601.00	-385.89	4,907.70	4,829.67	78.03	62.899		
8,000.00	6,201.18	7,261.00	7,145.58	104.93	30.81	-157.55	1,601.00	-385.89	4,957.05	4,878.72	78.33	63.285		
8,100.00	6,273.31	7,261.00	7,145.58	106.48	30.81	-157.55	1,601.00	-385.89	5,007.91	4,929.31	78.61	63.708		
8,200.00	6,345.43	7,261.00	7,145.58	108.02	30.81	-157.55	1,601.00	-385.89	5,060.24	4,981.38	78.86	64.167		
8,300.00	6,417.56	7,261.00	7,145.58	109.57	30.81	-157.55	1,601.00	-385.89	5,113.99	5,034.90	79.09	64.660		
8,400.00	6,489.68	7,261.00	7,145.58	111.12	30.81	-157.55	1,601.00	-385.89	5,169.12	5,089.82	79.30	65.185		
8,500.00	6,561.81	7,303.41	7,184.30	112.66	30.83	-157.90	1,584.75	-379.98	5,224.60	5,145.21	79.39	65.808		
8,600.00	6,633.93	7,314.49	7,194.32	114.21	30.84	-158.00	1,580.20	-378.71	5,281.76	5,202.22	79.54	66.405		
8,700.00	6,706.06	7,350.00	7,226.12	115.76	30.86	-158.30	1,564.76	-375.39	5,340.39	5,260.79	79.60	67.089		
8,800.00	6,778.18	7,350.00	7,226.12	117.30	30.86	-158.30	1,564.76	-375.39	5,399.57	5,319.82	79.75	67.708		
8,900.00	6,850.31	7,350.00	7,226.12	118.85	30.86	-158.30	1,564.76	-375.39	5,459.94	5,380.06	79.88	68.355		
9,000.00	6,922.43	7,367.05	7,241.20	120.40	30.86	-158.46	1,556.89	-374.09	5,521.41	5,441.47	79.94	69.070		
9,100.00	6,994.56	7,398.40	7,268.48	121.95	30.85	-158.74	1,541.64	-371.79	5,583.70	5,503.76	79.94	69.848		
9,200.00	7,066.68	7,439.00	7,302.97	123.49	30.85	-159.13	1,520.41	-369.00	5,646.81	5,566.92	79.89	70.684		
9,300.00	7,138.81	7,439.00	7,302.97	125.04	30.85	-159.13	1,520.41	-369.00	5,710.70	5,630.73	79.97	71.410		
9,392.50	7,205.52	7,475.68	7,333.19	126.47	30.82	-159.49	1,499.76	-366.66	5,770.46	5,690.58	79.88	72.235		
9,400.00	7,210.94	7,477.42	7,334.60	126.59	30.82	-160.91	1,498.75	-366.56	5,775.35	5,695.47	79.88	72.298		
9,450.00	7,247.42	7,489.56	7,344.37	127.35	30.81	-170.59	1,491.58	-365.83	5,808.15	5,728.29	79.86	72.729		
9,500.00	7,284.35	7,502.59	7,354.74	128.10	30.80	179.45	1,483.72	-365.07	5,841.19	5,761.36	79.83	73.174		
9,550.00	7,321.43	7,528.00	7,374.56	128.83	30.79	169.38	1,467.89	-363.66	5,874.21	5,794.49	79.72	73.683		
9,600.00	7,358.38	7,528.00	7,374.56	129.52	30.79	159.67	1,467.89	-363.66	5,906.89	5,827.16	79.73	74.084		
9,650.00	7,394.93	7,528.00	7,374.56	130.16	30.79	150.33	1,467.89	-363.66	5,939.11	5,859.37	79.73	74.486		
9,700.00	7,430.79	7,528.00	7,374.56	130.76	30.79	141.52	1,467.89	-363.66	5,970.61	5,890.89	79.73	74.887		
9,750.00	7,465.70	7,564.36	7,402.05	131.30	30.75	133.31	1,444.16	-361.90	6,000.83	5,921.30	79.53	75.455		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,576.60	7,411.06	131.78	30.73	125.91	1,435.90	-361.40	6,029.98	5,950.52	79.45	75.896		
9,850.00	7,531.58	7,617.00	7,439.95	132.21	30.69	119.28	1,407.68	-360.08	6,057.89	5,978.68	79.21	76.479		
9,900.00	7,562.06	7,617.00	7,439.95	132.57	30.69	113.44	1,407.68	-360.08	6,083.80	6,004.59	79.21	76.810		
9,950.00	7,590.58	7,617.00	7,439.95	132.87	30.69	108.31	1,407.68	-360.08	6,107.97	6,028.76	79.21	77.111		
10,000.00	7,616.93	7,617.00	7,439.95	133.11	30.69	103.85	1,407.68	-360.08	6,130.24	6,051.02	79.23	77.375		
10,050.00	7,640.90	7,617.00	7,439.95	133.29	30.69	100.02	1,407.68	-360.08	6,150.48	6,071.21	79.26	77.594		
10,100.00	7,662.32	7,617.00	7,439.95	133.42	30.69	96.77	1,407.68	-360.08	6,168.53	6,089.20	79.32	77.764		
10,150.00	7,681.01	7,617.00	7,439.95	133.50	30.69	94.05	1,407.68	-360.08	6,184.29	6,104.87	79.41	77.877		
10,200.00	7,696.85	7,657.78	7,467.63	133.52	30.62	92.01	1,377.75	-359.52	6,196.93	6,117.66	79.28	78.168		
10,250.00	7,709.70	7,666.08	7,473.07	133.51	30.60	90.33	1,371.48	-359.54	6,207.50	6,128.12	79.37	78.205		
10,300.00	7,719.47	7,707.00	7,498.87	133.46	30.54	89.25	1,339.74	-360.25	6,215.91	6,136.63	79.29	78.399		
10,350.00	7,726.09	7,707.00	7,498.87	133.37	30.54	88.43	1,339.74	-360.25	6,221.03	6,141.52	79.51	78.241		
10,400.00	7,729.50	7,707.00	7,498.87	133.26	30.54	88.02	1,339.74	-360.25	6,223.53	6,143.75	79.78	78.010		
10,427.79	7,730.00	7,707.00	7,498.87	133.18	30.54	87.96	1,339.74	-360.25	6,223.78	6,143.83	79.94	77.851		
10,463.12	7,730.00	7,707.00	7,498.87	133.08	30.54	87.96	1,339.74	-360.25	6,223.67	6,143.50	80.17	77.630		
10,500.00	7,730.00	7,707.00	7,498.87	132.98	30.54	87.96	1,339.74	-360.25	6,223.78	6,143.38	80.40	77.407		
10,600.00	7,730.00	7,707.00	7,498.87	132.72	30.54	87.96	1,339.74	-360.25	6,225.18	6,144.11	81.07	76.790		
10,700.00	7,730.00	7,746.37	7,522.01	132.47	30.46	88.18	1,307.93	-361.79	6,227.71	6,146.25	81.46	76.452		
10,800.00	7,730.00	8,174.55	7,664.43	132.22	29.59	89.49	908.87	-371.77	6,230.76	6,152.11	78.66	79.215		
10,900.00	7,730.00	8,274.00	7,673.91	131.99	29.45	89.58	809.90	-370.55	6,229.12	6,150.45	78.67	79.180		
11,000.00	7,730.00	8,508.00	7,680.32	131.77	30.12	89.63	576.09	-365.35	6,226.51	6,148.22	78.30	79.524		
11,100.00	7,730.00	8,561.42	7,681.10	131.56	30.47	89.64	522.71	-363.39	6,222.85	6,144.01	78.84	78.928		
11,200.00	7,730.00	8,597.00	7,681.48	131.36	30.71	89.65	487.14	-362.75	6,220.55	6,141.10	79.45	78.296		
11,300.00	7,730.00	8,669.59	7,682.06	131.17	31.24	89.65	414.56	-361.97	6,219.07	6,139.00	80.07	77.666		
11,400.00	7,730.00	8,686.00	7,682.16	130.99	31.36	89.65	398.15	-361.79	6,218.22	6,137.44	80.78	76.981		
11,445.48	7,730.00	8,717.48	7,682.34	130.91	31.61	89.65	366.67	-361.70	6,218.02	6,136.91	81.11	76.659		
11,500.00	7,730.00	8,730.79	7,682.40	130.82	31.71	89.65	353.36	-361.81	6,218.28	6,136.77	81.51	76.290		
11,600.00	7,730.00	8,775.00	7,682.58	130.66	32.06	89.66	309.16	-362.80	6,219.83	6,137.57	82.27	75.607		
11,700.00	7,730.00	8,787.22	7,682.62	130.51	32.16	89.66	296.95	-363.22	6,222.33	6,139.28	83.05	74.922		
11,800.00	7,730.00	8,852.45	7,683.23	130.37	32.70	89.66	231.77	-365.66	6,225.72	6,141.83	83.90	74.205		
11,900.00	7,730.00	8,931.61	7,684.67	130.24	33.40	89.67	152.69	-369.00	6,229.59	6,144.74	84.85	73.421		
12,000.00	7,730.00	9,188.01	7,690.61	130.13	35.91	89.73	-103.46	-378.24	6,233.62	6,146.93	86.69	71.903		
12,100.00	7,730.00	9,360.89	7,690.60	130.02	37.80	89.73	-276.31	-380.26	6,234.39	6,145.77	88.62	70.348		
12,200.00	7,730.00	9,495.79	7,688.80	129.93	39.38	89.71	-411.19	-380.84	6,234.51	6,144.00	90.51	68.885		
12,300.00	7,730.00	9,606.19	7,686.62	129.85	40.73	89.69	-521.57	-380.79	6,234.12	6,141.79	92.33	67.520		
12,400.00	7,730.00	9,713.88	7,684.27	129.77	42.10	89.67	-629.24	-380.80	6,233.82	6,139.59	94.23	66.154		
12,500.00	7,730.00	9,889.83	7,684.12	129.71	44.40	89.67	-805.18	-379.31	6,232.59	6,135.49	97.10	64.189		
12,600.00	7,730.00	10,089.13	7,682.50	129.66	47.14	89.65	-1,004.43	-375.17	6,230.30	6,129.74	100.55	61.960		
12,700.00	7,730.00	10,147.81	7,681.40	129.63	47.96	89.64	-1,063.07	-373.46	6,227.16	6,125.01	102.15	60.962		
12,800.00	7,730.00	10,200.00	7,680.91	129.60	48.70	89.64	-1,115.25	-372.57	6,225.01	6,121.34	103.67	60.046		
12,900.00	7,730.00	10,303.84	7,680.20	129.59	50.18	89.63	-1,219.08	-371.17	6,223.33	6,117.31	106.02	58.701		
13,000.00	7,730.00	10,329.90	7,680.25	129.59	50.56	89.63	-1,245.13	-371.00	6,222.06	6,114.88	107.19	58.048		
13,062.93	7,730.00	10,353.30	7,680.44	129.59	50.90	89.64	-1,268.53	-370.97	6,221.78	6,113.73	108.04	57.586		
13,100.00	7,730.00	10,379.00	7,680.85	129.60	51.27	89.64	-1,294.23	-371.12	6,221.83	6,113.09	108.73	57.221		
13,200.00	7,730.00	10,480.08	7,682.64	129.63	52.74	89.66	-1,395.29	-371.77	6,222.13	6,110.97	111.16	55.976		
13,300.00	7,730.00	10,573.03	7,683.95	129.66	54.12	89.67	-1,488.23	-372.27	6,222.31	6,108.81	113.50	54.822		
13,400.00	7,730.00	10,710.67	7,684.62	129.72	56.18	89.67	-1,625.87	-372.40	6,222.03	6,105.35	116.68	53.327		
13,485.90	7,730.00	10,767.82	7,684.27	129.77	57.04	89.67	-1,683.02	-372.39	6,221.76	6,103.41	118.36	52.568		
13,500.00	7,730.00	10,775.05	7,684.29	129.78	57.15	89.67	-1,690.24	-372.42	6,221.77	6,103.18	118.59	52.464		
13,600.00	7,730.00	10,983.89	7,686.83	129.86	60.34	89.69	-1,899.06	-372.65	6,222.12	6,098.83	123.28	50.469		
13,700.00	7,730.00	11,091.00	7,687.26	129.96	62.01	89.70	-2,006.15	-370.40	6,219.62	6,093.50	126.13	49.313		
13,800.00	7,730.00	11,137.45	7,687.48	130.07	62.74	89.70	-2,052.59	-369.60	6,217.95	6,090.16	127.79	48.659		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,844.88	7,730.00	11,148.20	7,687.58	130.12	62.90	89.70	-2,063.33	-369.57	6,217.67	6,089.34	128.33	48.450		
13,900.00	7,730.00	11,181.00	7,687.98	130.19	63.42	89.70	-2,096.13	-369.84	6,217.80	6,088.41	129.39	48.054		
14,000.00	7,730.00	11,194.65	7,688.17	130.33	63.63	89.71	-2,109.77	-370.08	6,218.60	6,088.20	130.40	47.690		
14,100.00	7,730.00	11,271.04	7,688.83	130.49	64.82	89.71	-2,186.16	-371.56	6,220.20	6,087.53	132.67	46.884		
14,200.00	7,730.00	11,596.79	7,698.79	130.67	70.00	89.80	-2,511.70	-372.44	6,220.00	6,079.66	140.34	44.320		
14,300.00	7,730.00	11,730.81	7,699.00	130.86	72.16	89.81	-2,645.70	-370.00	6,217.83	6,073.83	144.00	43.178		
14,400.00	7,730.00	11,753.46	7,698.78	131.07	72.53	89.80	-2,668.34	-369.78	6,216.17	6,070.96	145.21	42.808		
14,500.00	7,730.00	11,804.00	7,698.13	131.30	73.35	89.80	-2,718.88	-369.77	6,215.61	6,068.58	147.03	42.273		
14,521.74	7,730.00	11,804.00	7,698.13	131.35	73.35	89.80	-2,718.88	-369.77	6,215.58	6,068.39	147.19	42.229		
14,600.00	7,730.00	11,826.71	7,697.81	131.55	73.71	89.80	-2,741.59	-369.99	6,215.97	6,067.74	148.23	41.934		
14,700.00	7,730.00	11,870.36	7,697.29	131.82	74.42	89.79	-2,785.22	-370.73	6,217.32	6,067.42	149.90	41.477		
14,800.00	7,730.00	11,936.70	7,696.50	132.11	75.49	89.78	-2,851.54	-372.42	6,219.49	6,067.41	152.08	40.897		
14,900.00	7,730.00	12,008.00	7,694.98	132.42	76.64	89.77	-2,922.80	-374.40	6,221.98	6,067.61	154.37	40.306		
15,000.00	7,730.00	12,072.00	7,694.03	132.75	77.67	89.76	-2,986.75	-376.72	6,225.20	6,068.70	156.50	39.777		
15,100.00	7,730.00	12,298.87	7,696.15	133.10	81.36	89.78	-3,213.51	-382.99	6,227.69	6,065.19	162.50	38.324		
15,200.00	7,730.00	12,366.51	7,695.75	133.48	82.47	89.78	-3,281.14	-384.20	6,229.19	6,064.42	164.77	37.806		
15,300.00	7,730.00	12,428.00	7,695.80	133.88	83.47	89.78	-3,342.60	-385.90	6,231.53	6,064.63	166.89	37.338		
15,400.00	7,730.00	12,755.88	7,698.42	134.31	88.90	89.80	-3,670.38	-389.50	6,232.52	6,056.95	175.56	35.500		
15,500.00	7,730.00	12,828.42	7,699.27	134.76	90.11	89.81	-3,742.92	-388.90	6,231.41	6,053.39	178.02	35.003		
15,600.00	7,730.00	12,883.54	7,701.15	135.23	91.04	89.83	-3,798.00	-388.92	6,231.06	6,051.00	180.06	34.606		
15,605.42	7,730.00	12,888.04	7,701.34	135.26	91.11	89.83	-3,802.50	-388.93	6,231.06	6,050.86	180.21	34.577		
15,700.00	7,730.00	12,972.07	7,705.06	135.73	92.52	89.86	-3,886.45	-389.34	6,231.19	6,048.24	182.94	34.060		
15,800.00	7,730.00	13,200.61	7,713.54	136.26	96.37	89.94	-4,114.81	-387.79	6,229.95	6,040.53	189.42	32.889		
15,900.00	7,730.00	13,310.29	7,716.05	136.81	98.22	89.96	-4,224.45	-385.98	6,227.96	6,035.08	192.88	32.289		
16,000.00	7,730.00	13,403.30	7,717.48	137.39	99.80	89.98	-4,317.44	-384.43	6,225.96	6,030.03	195.93	31.777		
16,100.00	7,730.00	13,579.49	7,720.12	138.00	102.80	90.00	-4,493.56	-380.27	6,223.14	6,022.00	201.14	30.940		
16,200.00	7,730.00	13,664.60	7,721.07	138.63	104.25	90.01	-4,578.63	-377.96	6,220.09	6,016.08	204.01	30.490		
16,300.00	7,730.00	13,727.84	7,721.73	139.30	105.33	90.02	-4,641.85	-376.45	6,217.40	6,011.10	206.31	30.137		
16,400.00	7,730.00	13,786.00	7,722.39	139.99	106.32	90.02	-4,700.00	-375.56	6,215.48	6,007.01	208.47	29.815		
16,500.00	7,730.00	13,827.30	7,722.89	140.70	107.02	90.03	-4,741.29	-375.26	6,214.35	6,004.17	210.18	29.567		
16,591.86	7,730.00	13,875.00	7,723.49	141.39	107.83	90.03	-4,788.99	-375.28	6,214.05	6,002.04	212.00	29.311		
16,600.00	7,730.00	13,875.00	7,723.49	141.45	107.83	90.03	-4,788.99	-375.28	6,214.05	6,002.00	212.05	29.305		
16,700.00	7,730.00	13,929.53	7,724.20	142.22	108.75	90.04	-4,843.51	-375.72	6,214.54	6,000.45	214.09	29.027		
16,800.00	7,730.00	14,285.34	7,719.43	143.03	114.84	89.99	-5,199.15	-370.80	6,211.47	5,987.28	224.18	27.707		
16,900.00	7,730.00	14,336.03	7,717.73	143.86	115.71	89.98	-5,249.79	-369.54	6,208.63	5,982.46	226.17	27.452		
17,000.00	7,730.00	14,392.99	7,715.86	144.71	116.69	89.96	-5,306.71	-368.53	6,206.52	5,978.21	228.31	27.185		
17,100.00	7,730.00	14,445.84	7,714.13	145.60	117.59	89.95	-5,359.54	-367.96	6,205.12	5,974.79	230.33	26.940		
17,200.00	7,730.00	14,499.00	7,712.40	146.51	118.50	89.93	-5,412.66	-367.82	6,204.51	5,972.16	232.35	26.703		
17,215.55	7,730.00	14,499.00	7,712.40	146.65	118.50	89.93	-5,412.66	-367.82	6,204.49	5,972.05	232.44	26.693		
17,300.00	7,730.00	14,545.48	7,710.87	147.44	119.29	89.92	-5,459.12	-368.08	6,204.71	5,970.53	234.18	26.496		
17,400.00	7,730.00	14,588.00	7,709.46	148.40	120.02	89.90	-5,501.61	-368.64	6,205.74	5,969.86	235.88	26.309		
17,500.00	7,730.00	14,652.22	7,707.39	149.39	121.11	89.88	-5,565.78	-369.96	6,207.51	5,969.33	238.18	26.063		
17,600.00	7,730.00	14,705.95	7,705.77	150.40	122.03	89.87	-5,619.47	-371.46	6,209.98	5,969.81	240.17	25.856		
17,700.00	7,730.00	14,766.00	7,704.16	151.44	123.05	89.85	-5,679.46	-373.66	6,213.25	5,970.92	242.34	25.639		
17,800.00	7,730.00	14,803.60	7,703.25	152.50	123.68	89.85	-5,717.01	-375.34	6,217.31	5,973.46	243.85	25.496		
17,900.00	7,730.00	14,855.00	7,702.08	153.58	124.55	89.83	-5,768.32	-378.08	6,222.26	5,976.51	245.75	25.319		
18,000.00	7,730.00	14,908.21	7,701.09	154.68	125.45	89.83	-5,821.42	-381.32	6,227.97	5,980.28	247.69	25.144		
18,100.00	7,730.00	14,970.65	7,700.37	155.80	126.50	89.82	-5,883.72	-385.49	6,234.31	5,984.42	249.88	24.949		
18,200.00	7,730.00	15,033.00	7,700.17	156.95	127.55	89.82	-5,945.91	-390.00	6,241.22	5,989.14	252.07	24.760		
18,300.00	7,730.00	15,100.54	7,700.59	158.11	128.68	89.82	-6,013.24	-395.26	6,248.68	5,994.27	254.41	24.561		
18,400.00	7,730.00	16,013.00	7,733.46	159.30	144.35	90.12	-6,923.86	-410.01	6,250.13	5,969.17	280.96	22.246		
18,500.00	7,730.00	16,080.26	7,734.70	160.50	145.52	90.14	-6,991.04	-406.83	6,245.10	5,961.61	283.48	22.030		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,730.00	16,141.15	7,735.67	161.72	146.59	90.14	-7,051.86	-404.36	6,240.70	5,954.88	285.83	21.834	
18,700.00	7,730.00	16,191.00	7,736.45	162.96	147.46	90.15	-7,101.68	-402.62	6,236.95	5,949.09	287.86	21.667	
18,800.00	7,730.00	16,258.28	7,737.51	164.21	148.63	90.16	-7,168.93	-400.71	6,233.83	5,943.47	290.36	21.469	
18,900.00	7,730.00	16,317.66	7,738.45	165.48	149.66	90.17	-7,228.28	-399.47	6,231.41	5,938.78	292.63	21.294	
19,000.00	7,730.00	16,370.00	7,739.30	166.76	150.58	90.18	-7,280.61	-398.69	6,229.62	5,934.93	294.69	21.139	
19,100.00	7,730.00	16,435.37	7,740.40	168.06	151.71	90.19	-7,345.97	-398.14	6,228.49	5,931.37	297.11	20.963	
19,200.00	7,730.00	16,545.03	7,742.36	169.38	153.62	90.21	-7,455.61	-397.73	6,227.80	5,927.00	300.80	20.704	
19,300.00	7,730.00	16,697.32	7,744.96	170.70	156.27	90.23	-7,607.87	-396.07	6,226.35	5,920.64	305.70	20.367	
19,400.00	7,730.00	16,823.95	7,746.82	172.04	158.47	90.25	-7,734.47	-393.97	6,224.35	5,914.47	309.88	20.086	
19,500.00	7,730.00	16,922.06	7,748.21	173.40	160.18	90.26	-7,832.55	-392.16	6,222.18	5,908.92	313.25	19.863	
19,600.00	7,730.00	17,029.91	7,749.69	174.76	162.07	90.27	-7,940.37	-390.14	6,219.98	5,903.08	316.90	19.628	
19,700.00	7,730.00	17,157.92	7,751.61	176.14	164.30	90.29	-8,068.33	-387.33	6,217.45	5,896.33	321.13	19.361	
19,800.00	7,730.00	17,271.03	7,752.75	177.52	166.28	90.30	-8,181.40	-384.46	6,214.58	5,889.65	324.93	19.126	
19,900.00	7,730.00	17,332.06	7,752.82	178.92	167.35	90.30	-8,242.42	-383.08	6,211.96	5,884.70	327.26	18.982	
20,000.00	7,730.00	17,392.62	7,752.61	180.33	168.41	90.30	-8,302.97	-382.05	6,209.93	5,880.37	329.56	18.843	
20,100.00	7,730.00	17,484.64	7,752.02	181.75	170.01	90.30	-8,394.98	-380.91	6,208.34	5,875.58	332.76	18.657	
20,184.95	7,730.00	17,487.00	7,752.00	182.96	170.05	90.30	-8,397.34	-380.88	6,207.55	5,874.28	333.27	18.626 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.43	787.25	-1,100.94	1,353.49					
100.00	100.00	93.43	93.43	0.13	0.14	-54.43	787.25	-1,100.79	1,353.34	1,353.06	0.27	4,930.211		
114.79	114.79	108.79	108.79	0.19	0.16	-124.88	787.24	-1,100.74	1,353.32	1,352.97	0.35	3,864.453 CC, ES		
200.00	199.98	193.53	193.53	0.49	0.40	-124.92	787.20	-1,100.43	1,354.01	1,353.13	0.89	1,526.514		
300.00	299.84	290.49	290.49	0.86	0.74	-125.06	786.99	-1,100.40	1,356.86	1,355.27	1.59	854.054		
400.00	399.45	384.18	384.17	1.23	1.06	-125.27	786.78	-1,100.71	1,362.04	1,359.75	2.29	595.062		
500.00	498.70	476.30	476.30	1.63	1.38	-125.53	787.00	-1,101.28	1,369.78	1,366.78	3.00	457.106		
600.00	597.47	567.93	567.92	2.05	1.70	-125.85	787.67	-1,102.11	1,380.15	1,376.43	3.72	371.087		
700.00	695.62	668.34	668.30	2.51	2.05	-126.22	789.88	-1,102.32	1,392.91	1,388.42	4.49	310.117		
800.00	793.06	796.90	796.48	3.00	2.51	-126.57	797.96	-1,097.43	1,406.81	1,401.41	5.39	260.879		
900.00	889.64	939.58	937.98	3.53	3.04	-126.84	810.79	-1,084.50	1,419.81	1,413.42	6.40	222.008		
1,000.00	985.27	1,036.14	1,033.57	4.12	3.41	-127.01	819.66	-1,074.09	1,433.71	1,426.43	7.28	197.023		
1,100.00	1,079.82	1,129.25	1,125.63	4.75	3.78	-127.19	829.03	-1,063.82	1,450.01	1,441.82	8.19	177.128		
1,200.00	1,173.17	1,230.65	1,225.90	5.44	4.19	-127.47	839.44	-1,052.80	1,468.76	1,459.59	9.17	160.186		
1,300.00	1,265.21	1,382.77	1,375.58	6.18	4.84	-128.04	856.54	-1,031.91	1,487.98	1,477.56	10.42	142.840		
1,400.00	1,355.84	1,463.39	1,454.46	6.99	5.20	-128.18	866.91	-1,018.86	1,507.99	1,496.56	11.42	131.993		
1,500.00	1,444.94	1,538.01	1,527.37	7.87	5.55	-128.27	877.49	-1,007.04	1,531.23	1,518.79	12.44	123.062		
1,600.00	1,532.39	1,606.02	1,593.80	8.80	5.86	-128.30	888.03	-996.96	1,558.22	1,544.76	13.46	115.743		
1,700.00	1,618.11	1,694.69	1,680.43	9.81	6.28	-128.50	902.48	-984.81	1,588.75	1,574.14	14.62	108.688		
1,800.00	1,701.97	1,812.01	1,795.32	10.89	6.83	-129.03	919.79	-968.52	1,620.86	1,604.91	15.95	101.648		
1,900.00	1,783.88	1,927.33	1,908.45	12.04	7.36	-129.68	933.96	-951.28	1,653.39	1,636.12	17.27	95.715		
2,000.00	1,863.74	1,990.00	1,970.09	13.26	7.65	-129.81	941.06	-942.44	1,688.92	1,670.57	18.35	92.026		
2,100.00	1,941.45	2,059.53	2,038.54	14.55	7.96	-130.00	949.25	-933.48	1,728.18	1,708.71	19.47	88.741		
2,200.00	2,016.92	2,128.51	2,106.47	15.92	8.27	-130.17	957.92	-925.19	1,770.99	1,750.39	20.61	85.950		
2,292.11	2,084.36	2,192.48	2,169.47	17.25	8.56	-130.29	966.34	-917.86	1,813.31	1,791.65	21.66	83.730		
2,300.00	2,090.06	2,197.93	2,174.83	17.36	8.59	-130.37	967.07	-917.25	1,817.06	1,795.31	21.75	83.550		
2,400.00	2,162.18	2,276.38	2,252.05	18.84	8.94	-131.40	977.90	-908.63	1,865.11	1,842.17	22.93	81.327		
2,500.00	2,234.31	2,447.51	2,420.02	20.33	9.74	-133.48	1,001.19	-885.76	1,912.00	1,887.36	24.65	77.573		
2,600.00	2,306.43	2,497.32	2,468.92	21.83	9.97	-134.06	1,007.47	-878.62	1,958.05	1,932.41	25.65	76.346		
2,700.00	2,378.56	2,555.07	2,525.69	23.33	10.24	-134.72	1,014.80	-870.99	2,005.61	1,978.95	26.66	75.221		
2,800.00	2,450.68	2,632.92	2,602.33	24.84	10.60	-135.59	1,024.76	-861.59	2,054.54	2,026.77	27.77	73.973		
2,900.00	2,522.81	2,787.59	2,754.02	26.36	11.33	-137.16	1,045.27	-839.57	2,102.38	2,073.03	29.35	71.642		
3,000.00	2,594.93	2,907.10	2,871.08	27.88	11.90	-138.34	1,058.57	-819.50	2,147.81	2,117.14	30.67	70.034		
3,100.00	2,667.06	2,999.72	2,961.75	29.40	12.35	-139.21	1,068.77	-803.66	2,193.51	2,161.68	31.82	68.928		
3,200.00	2,739.18	3,070.29	3,030.62	30.92	12.69	-139.82	1,077.39	-790.90	2,239.07	2,206.22	32.85	68.163		
3,300.00	2,811.31	3,110.74	3,070.30	32.45	12.89	-140.19	1,081.89	-784.44	2,286.39	2,252.73	33.66	67.918		
3,400.00	2,883.43	3,161.06	3,119.86	33.98	13.12	-140.64	1,087.05	-777.48	2,335.54	2,301.04	34.50	67.693		
3,500.00	2,955.56	3,226.33	3,184.09	35.51	13.42	-141.20	1,094.82	-768.79	2,385.80	2,350.38	35.42	67.359		
3,600.00	3,027.68	3,333.42	3,289.09	37.04	13.93	-142.01	1,109.69	-753.94	2,436.23	2,399.60	36.63	66.507		
3,700.00	3,099.81	3,431.19	3,384.76	38.57	14.41	-142.71	1,123.52	-739.22	2,485.91	2,448.13	37.78	65.797		
3,800.00	3,171.93	3,499.44	3,451.53	40.11	14.74	-143.17	1,133.33	-729.13	2,536.10	2,497.38	38.72	65.495		
3,900.00	3,244.06	3,577.68	3,528.16	41.64	15.12	-143.69	1,144.45	-717.88	2,586.79	2,547.07	39.72	65.130		
4,000.00	3,316.18	3,634.98	3,584.37	43.18	15.40	-144.07	1,152.35	-710.03	2,638.16	2,597.62	40.55	65.065		
4,100.00	3,388.31	4,100.00	3,684.75	44.71	17.61	-144.73	1,166.05	-696.14	2,689.75	2,646.47	43.29	62.139		
4,200.00	3,460.43	3,827.09	3,772.78	46.25	16.32	-145.28	1,178.38	-683.08	2,740.75	2,698.02	42.73	64.148		
4,300.00	3,532.56	3,888.20	3,832.67	47.79	16.61	-145.64	1,187.05	-674.61	2,792.56	2,749.01	43.56	64.112		
4,400.00	3,604.68	3,948.88	3,892.32	49.33	16.89	-146.00	1,195.01	-666.77	2,845.17	2,800.81	44.37	64.129		
4,500.00	3,676.81	4,015.10	3,957.56	50.87	17.19	-146.40	1,203.04	-658.77	2,898.51	2,853.32	45.19	64.142		
4,600.00	3,748.93	4,600.00	4,062.58	52.41	19.88	-147.02	1,215.70	-645.67	2,951.81	2,903.48	48.33	61.074		
4,700.00	3,821.06	4,330.67	4,267.22	53.95	18.70	-148.08	1,244.43	-614.65	3,003.54	2,955.37	48.17	62.354		
4,800.00	3,893.18	4,374.11	4,309.64	55.49	18.91	-148.28	1,250.55	-607.59	3,053.95	3,005.09	48.86	62.504		
4,900.00	3,965.31	4,435.86	4,370.06	57.03	19.22	-148.57	1,259.12	-598.20	3,105.38	3,055.71	49.67	62.523		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,537.77	4,469.78	58.58	19.72	-149.03	1,273.15	-582.57	3,156.83	3,106.07	50.76	62.186		
5,100.00	4,109.56	4,612.77	4,543.10	60.12	20.09	-149.36	1,283.67	-570.75	3,208.09	3,156.43	51.66	62.099		
5,200.00	4,181.68	4,658.88	4,588.26	61.66	20.32	-149.56	1,289.97	-563.95	3,260.23	3,207.90	52.33	62.303		
5,300.00	4,253.81	4,732.58	4,660.61	63.20	20.67	-149.88	1,299.65	-553.78	3,313.22	3,260.03	53.19	62.294		
5,400.00	4,325.93	4,861.37	4,786.86	64.75	21.29	-150.41	1,317.00	-535.17	3,365.85	3,311.39	54.46	61.800		
5,500.00	4,398.06	4,941.03	4,864.71	66.29	21.69	-150.70	1,328.76	-523.03	3,417.92	3,362.53	55.39	61.705		
5,600.00	4,470.18	5,000.00	4,961.49	67.84	25.03	-151.05	1,344.02	-507.47	3,469.71	3,410.68	59.03	58.774		
5,700.00	4,542.31	5,075.76	4,996.20	69.38	22.36	-151.17	1,349.32	-502.10	3,522.10	3,465.05	57.05	61.735		
5,800.00	4,614.43	5,124.00	5,043.58	70.92	22.59	-151.35	1,355.84	-495.76	3,575.89	3,518.19	57.70	61.973		
5,900.00	4,686.56	5,163.98	5,082.95	72.47	22.78	-151.51	1,360.81	-490.96	3,630.59	3,572.33	58.26	62.318		
6,000.00	4,758.68	5,244.00	5,161.84	74.01	23.14	-151.82	1,370.30	-481.37	3,685.61	3,626.50	59.11	62.347		
6,100.00	4,830.81	5,529.86	5,442.19	75.56	24.51	-152.82	1,406.46	-439.54	3,738.66	3,677.11	61.55	60.738		
6,200.00	4,902.93	5,598.39	5,508.80	77.10	24.87	-153.01	1,417.40	-427.71	3,789.54	3,727.14	62.40	60.734		
6,300.00	4,975.06	5,670.80	5,579.48	78.65	25.23	-153.23	1,427.29	-415.48	3,840.72	3,777.48	63.24	60.735		
6,400.00	5,047.18	5,728.58	5,636.07	80.19	25.52	-153.42	1,434.21	-406.07	3,892.42	3,828.48	63.94	60.878		
6,500.00	5,119.31	5,804.28	5,710.33	81.74	25.88	-153.67	1,442.75	-394.15	3,944.63	3,879.87	64.76	60.916		
6,600.00	5,191.43	5,921.02	5,824.58	83.28	26.46	-154.02	1,457.59	-375.40	3,996.71	3,930.80	65.91	60.643		
6,700.00	5,263.56	5,926.00	5,829.43	84.83	26.48	-154.04	1,458.38	-374.57	4,049.14	3,982.94	66.20	61.166		
6,800.00	5,335.68	5,975.27	5,877.54	86.37	26.72	-154.16	1,465.88	-367.04	4,102.34	4,035.49	66.84	61.373		
6,900.00	5,407.81	6,015.00	5,916.55	87.92	26.92	-154.27	1,471.40	-361.99	4,157.11	4,089.72	67.39	61.689		
7,000.00	5,479.93	6,050.03	5,951.05	89.47	27.07	-154.37	1,475.94	-357.92	4,212.78	4,144.91	67.87	62.070		
7,100.00	5,552.06	7,100.00	6,165.18	91.01	32.13	-154.99	1,502.40	-328.88	4,267.27	4,193.87	73.40	58.139		
7,200.00	5,624.18	6,329.87	6,225.99	92.56	28.39	-155.14	1,510.93	-319.60	4,320.66	4,250.12	70.54	61.252		
7,300.00	5,696.31	6,371.00	6,266.40	94.10	28.59	-155.25	1,516.08	-313.91	4,374.91	4,303.83	71.08	61.548		
7,400.00	5,768.43	6,468.60	6,362.32	95.65	29.05	-155.50	1,528.44	-300.75	4,429.53	4,357.46	72.07	61.458		
7,500.00	5,840.56	7,500.00	6,534.16	97.20	34.06	-155.94	1,550.28	-274.12	4,482.37	4,405.05	77.31	57.977		
7,600.00	5,912.68	6,692.31	6,581.58	98.74	30.13	-156.05	1,556.67	-266.54	4,535.33	4,461.04	74.29	61.047		
7,700.00	5,984.81	6,736.36	6,624.67	100.29	30.35	-156.14	1,563.20	-260.16	4,589.18	4,514.31	74.87	61.294		
7,800.00	6,056.93	7,263.00	7,137.67	101.84	32.71	-157.87	1,586.52	-161.67	4,639.75	4,561.60	78.16	59.364		
7,900.00	6,129.06	7,263.00	7,137.67	103.38	32.71	-157.87	1,586.52	-161.67	4,686.87	4,608.40	78.47	59.731		
8,000.00	6,201.18	7,263.00	7,137.67	104.93	32.71	-157.87	1,586.52	-161.67	4,735.62	4,656.88	78.75	60.139		
8,100.00	6,273.31	7,308.07	7,180.73	106.48	32.82	-158.16	1,577.29	-152.10	4,784.69	4,705.66	79.03	60.543		
8,200.00	6,345.43	7,352.00	7,223.08	108.02	32.94	-158.44	1,568.22	-144.79	4,836.39	4,757.08	79.30	60.985		
8,300.00	6,417.56	7,352.00	7,223.08	109.57	32.94	-158.44	1,568.22	-144.79	4,888.39	4,808.86	79.52	61.471		
8,400.00	6,489.68	7,352.00	7,223.08	111.12	32.94	-158.44	1,568.22	-144.79	4,941.87	4,862.15	79.72	61.990		
8,500.00	6,561.81	7,887.00	7,697.24	112.66	33.78	-162.75	1,359.26	-42.34	4,992.67	4,913.72	78.95	63.239		
8,600.00	6,633.93	7,887.00	7,697.24	114.21	33.78	-162.75	1,359.26	-42.34	5,041.86	4,962.66	79.20	63.659		
8,700.00	6,706.06	7,887.00	7,697.24	115.76	33.78	-162.75	1,359.26	-42.34	5,092.54	5,013.11	79.43	64.114		
8,800.00	6,778.18	7,887.00	7,697.24	117.30	33.78	-162.75	1,359.26	-42.34	5,144.67	5,065.04	79.64	64.603		
8,900.00	6,850.31	7,887.00	7,697.24	118.85	33.78	-162.75	1,359.26	-42.34	5,198.20	5,118.38	79.82	65.124		
9,000.00	6,922.43	7,928.06	7,726.13	120.40	33.77	-163.20	1,331.18	-34.53	5,252.34	5,172.57	79.76	65.848		
9,100.00	6,994.56	7,937.18	7,732.30	121.95	33.77	-163.30	1,324.64	-32.97	5,308.14	5,228.28	79.86	66.465		
9,200.00	7,066.68	7,976.00	7,757.43	123.49	33.76	-163.74	1,295.66	-27.04	5,365.59	5,285.82	79.77	67.260		
9,300.00	7,138.81	7,976.00	7,757.43	125.04	33.76	-163.74	1,295.66	-27.04	5,423.60	5,343.71	79.89	67.885		
9,392.50	7,205.52	7,976.00	7,757.43	126.47	33.76	-163.74	1,295.66	-27.04	5,478.34	5,398.35	79.99	68.486		
9,400.00	7,210.94	7,976.00	7,757.43	126.59	33.76	-165.06	1,295.66	-27.04	5,482.83	5,402.83	80.00	68.536		
9,450.00	7,247.42	7,976.00	7,757.43	127.35	33.76	-174.06	1,295.66	-27.04	5,512.89	5,432.84	80.05	68.872		
9,500.00	7,284.35	7,976.00	7,757.43	128.10	33.76	176.72	1,295.66	-27.04	5,543.09	5,463.00	80.09	69.213		
9,550.00	7,321.43	7,976.00	7,757.43	128.83	33.76	167.46	1,295.66	-27.04	5,573.19	5,493.06	80.12	69.558		
9,600.00	7,358.38	7,976.00	7,757.43	129.52	33.76	158.38	1,295.66	-27.04	5,602.96	5,522.81	80.15	69.905		
9,650.00	7,394.93	7,976.00	7,757.43	130.16	33.76	149.64	1,295.66	-27.04	5,632.19	5,552.02	80.17	70.252		
9,700.00	7,430.79	7,976.00	7,757.43	130.76	33.76	141.41	1,295.66	-27.04	5,660.67	5,580.48	80.19	70.593		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program:		140-MWD OWSG											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,976.00	7,757.43	131.30	33.76	133.78	1,295.66	-27.04	5,688.19	5,607.99	80.20	70.926		
9,800.00	7,499.38	7,976.00	7,757.43	131.78	33.76	126.83	1,295.66	-27.04	5,714.55	5,634.34	80.21	71.244		
9,850.00	7,531.58	8,016.86	7,781.74	132.21	33.71	120.49	1,263.22	-22.02	5,738.80	5,658.82	79.98	71.750		
9,900.00	7,562.06	8,024.95	7,786.27	132.57	33.71	114.95	1,256.57	-21.17	5,761.98	5,682.02	79.95	72.068		
9,950.00	7,590.58	8,065.00	7,807.24	132.87	33.67	110.05	1,222.64	-17.64	5,783.89	5,704.17	79.72	72.554		
10,000.00	7,616.93	8,065.00	7,807.24	133.11	33.67	105.87	1,222.64	-17.64	5,803.22	5,723.46	79.76	72.759		
10,050.00	7,640.90	8,065.00	7,807.24	133.29	33.67	102.28	1,222.64	-17.64	5,820.59	5,740.77	79.82	72.923		
10,100.00	7,662.32	8,065.00	7,807.24	133.42	33.67	99.23	1,222.64	-17.64	5,835.89	5,755.99	79.90	73.041		
10,150.00	7,681.01	8,065.00	7,807.24	133.50	33.67	96.71	1,222.64	-17.64	5,849.02	5,769.02	80.01	73.107		
10,200.00	7,696.85	8,065.00	7,807.24	133.52	33.67	94.66	1,222.64	-17.64	5,859.90	5,779.75	80.15	73.116		
10,250.00	7,709.70	8,065.00	7,807.24	133.51	33.67	93.08	1,222.64	-17.64	5,868.45	5,788.13	80.32	73.065		
10,300.00	7,719.47	8,065.00	7,807.24	133.46	33.67	91.92	1,222.64	-17.64	5,874.62	5,794.09	80.53	72.951		
10,350.00	7,726.09	8,103.98	7,824.92	133.37	33.59	91.32	1,188.00	-15.32	5,877.68	5,797.21	80.48	73.034		
10,400.00	7,729.50	8,112.94	7,828.54	133.26	33.57	91.05	1,179.81	-14.95	5,878.65	5,797.96	80.69	72.854		
10,427.79	7,730.00	8,117.88	7,830.46	133.18	33.56	91.08	1,175.26	-14.76	5,878.10	5,797.27	80.83	72.725		
10,500.00	7,730.00	8,154.00	7,842.94	132.98	33.50	91.20	1,141.39	-13.96	5,876.26	5,795.27	80.99	72.555		
10,600.00	7,730.00	8,154.00	7,842.94	132.72	33.50	91.20	1,141.39	-13.96	5,874.38	5,792.70	81.68	71.916		
10,660.30	7,730.00	8,154.00	7,842.94	132.56	33.50	91.20	1,141.39	-13.96	5,874.07	5,791.95	82.13	71.525		
10,700.00	7,730.00	8,154.00	7,842.94	132.47	33.50	91.20	1,141.39	-13.96	5,874.21	5,791.79	82.41	71.277		
10,800.00	7,730.00	8,201.51	7,854.77	132.22	33.39	91.31	1,095.41	-14.10	5,875.06	5,792.37	82.69	71.045		
10,900.00	7,730.00	8,243.00	7,860.57	131.99	33.30	91.37	1,054.36	-15.13	5,877.32	5,794.30	83.03	70.790		
11,000.00	7,730.00	8,273.17	7,862.82	131.77	33.23	91.39	1,024.29	-16.25	5,880.63	5,797.14	83.50	70.430		
11,100.00	7,730.00	8,336.00	7,855.48	131.56	33.61	91.32	482.10	-19.27	5,882.24	5,801.56	80.68	72.907		
11,200.00	7,730.00	8,886.50	7,853.77	131.36	33.87	91.30	411.69	-16.97	5,877.92	5,796.61	81.31	72.290		
11,300.00	7,730.00	8,925.00	7,852.52	131.17	34.10	91.29	373.21	-16.40	5,875.52	5,793.55	81.97	71.677		
11,400.00	7,730.00	8,925.00	7,852.52	130.99	34.10	91.29	373.21	-16.40	5,874.19	5,791.50	82.69	71.041		
11,428.48	7,730.00	8,925.00	7,852.52	130.94	34.10	91.29	373.21	-16.40	5,874.12	5,791.22	82.90	70.855		
11,500.00	7,730.00	8,925.00	7,852.52	130.82	34.10	91.29	373.21	-16.40	5,874.55	5,791.12	83.43	70.409		
11,600.00	7,730.00	8,976.98	7,851.04	130.66	34.42	91.28	321.26	-16.99	5,875.71	5,791.54	84.18	69.803		
11,700.00	7,730.00	9,014.00	7,850.20	130.51	34.66	91.27	284.27	-18.23	5,878.43	5,793.49	84.94	69.203		
11,800.00	7,730.00	9,052.15	7,849.42	130.37	34.91	91.26	246.16	-19.91	5,882.21	5,796.46	85.76	68.593		
11,900.00	7,730.00	9,151.00	7,847.28	130.24	35.63	91.24	147.44	-24.57	5,886.54	5,799.89	86.66	67.930		
12,000.00	7,730.00	9,309.04	7,843.84	130.13	36.95	91.21	-10.43	-30.94	5,890.17	5,802.28	87.88	67.022		
12,100.00	7,730.00	10,293.37	7,820.63	130.02	48.58	90.99	-992.06	5.47	5,888.01	5,789.10	98.91	59.532		
12,200.00	7,730.00	10,316.81	7,819.96	129.93	48.91	90.98	-1,015.35	7.99	5,876.87	5,777.04	99.83	58.870		
12,300.00	7,730.00	10,350.00	7,819.01	129.85	49.38	90.97	-1,048.38	11.04	5,867.05	5,766.12	100.93	58.130		
12,400.00	7,730.00	10,350.00	7,819.01	129.77	49.38	90.97	-1,048.38	11.04	5,858.52	5,757.01	101.51	57.713		
12,500.00	7,730.00	10,384.90	7,818.01	129.71	49.87	90.96	-1,083.17	13.57	5,851.22	5,748.54	102.68	56.987		
12,600.00	7,730.00	10,707.00	7,809.35	129.66	54.53	90.88	-1,403.93	39.69	5,842.67	5,733.74	108.92	53.641		
12,700.00	7,730.00	10,760.81	7,807.83	129.63	55.33	90.87	-1,457.48	44.77	5,832.78	5,722.28	110.50	52.784		
12,800.00	7,730.00	10,796.00	7,806.82	129.60	55.86	90.86	-1,492.51	47.95	5,823.60	5,711.86	111.74	52.116		
12,900.00	7,730.00	10,796.00	7,806.82	129.59	55.86	90.86	-1,492.51	47.95	5,815.98	5,703.65	112.33	51.778		
13,000.00	7,730.00	10,849.31	7,805.30	129.59	56.66	90.84	-1,545.66	51.81	5,808.93	5,695.00	113.93	50.986		
13,100.00	7,730.00	10,885.00	7,804.30	129.60	57.19	90.83	-1,581.30	53.42	5,803.71	5,688.49	115.21	50.373		
13,200.00	7,730.00	10,885.00	7,804.30	129.63	57.19	90.83	-1,581.30	53.42	5,799.69	5,683.87	115.83	50.072		
13,300.00	7,730.00	10,920.63	7,803.30	129.66	57.71	90.82	-1,616.90	54.31	5,796.99	5,679.87	117.12	49.496		
13,400.00	7,730.00	10,974.00	7,801.78	129.72	58.50	90.81	-1,670.25	54.51	5,795.82	5,677.07	118.76	48.805		
13,471.68	7,730.00	10,974.00	7,801.78	129.76	58.50	90.81	-1,670.25	54.51	5,795.38	5,676.17	119.21	48.616		
13,500.00	7,730.00	10,974.00	7,801.78	129.78	58.50	90.81	-1,670.25	54.51	5,795.45	5,676.07	119.38	48.545		
13,600.00	7,730.00	10,974.00	7,801.78	129.86	58.50	90.81	-1,670.25	54.51	5,796.80	5,676.78	120.02	48.300		
13,700.00	7,730.00	11,016.97	7,800.55	129.96	59.12	90.80	-1,713.18	53.55	5,799.14	5,677.69	121.46	47.746		
13,800.00	7,730.00	11,063.00	7,799.28	130.07	59.78	90.78	-1,759.14	51.25	5,803.25	5,680.29	122.96	47.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	11,063.00	7,799.28	130.19	59.78	90.78	-1,759.14	51.25	5,808.23	5,684.64	123.59	46.995		
14,000.00	7,730.00	11,063.00	7,799.28	130.33	59.78	90.78	-1,759.14	51.25	5,814.93	5,690.71	124.23	46.810		
14,100.00	7,730.00	11,995.67	7,801.91	130.49	74.00	90.81	-2,688.05	45.80	5,813.72	5,668.82	144.90	40.121		
14,200.00	7,730.00	12,077.07	7,802.70	130.67	75.32	90.82	-2,769.29	50.90	5,807.14	5,659.71	147.43	39.389		
14,300.00	7,730.00	12,164.60	7,803.51	130.86	76.75	90.83	-2,856.67	56.00	5,800.97	5,650.85	150.12	38.642		
14,400.00	7,730.00	12,288.08	7,804.64	131.07	78.78	90.84	-2,979.91	63.55	5,794.52	5,640.80	153.72	37.696		
14,500.00	7,730.00	12,383.30	7,805.46	131.30	80.35	90.85	-3,074.95	69.49	5,787.95	5,631.31	156.64	36.950		
14,600.00	7,730.00	12,528.69	7,806.67	131.55	82.76	90.86	-3,220.02	78.99	5,781.11	5,620.25	160.86	35.939		
14,700.00	7,730.00	12,756.00	7,807.58	131.82	86.57	90.87	-3,446.49	98.33	5,771.70	5,604.47	167.23	34.513		
14,800.00	7,730.00	12,793.82	7,807.63	132.11	87.21	90.87	-3,484.13	101.92	5,762.42	5,593.66	168.76	34.145		
14,900.00	7,730.00	12,845.00	7,807.89	132.42	88.07	90.88	-3,535.21	105.09	5,755.17	5,584.54	170.63	33.728		
15,000.00	7,730.00	12,845.00	7,807.89	132.75	88.07	90.88	-3,535.21	105.09	5,748.45	5,577.29	171.17	33.584		
15,100.00	7,730.00	12,845.00	7,807.89	133.10	88.07	90.88	-3,535.21	105.09	5,743.47	5,571.78	171.68	33.454		
15,200.00	7,730.00	12,845.00	7,807.89	133.48	88.07	90.88	-3,535.21	105.09	5,740.22	5,568.04	172.18	33.338		
15,300.00	7,730.00	12,893.19	7,808.27	133.88	88.86	90.88	-3,583.38	106.40	5,737.75	5,563.82	173.93	32.989		
15,400.00	7,730.00	15,400.00	7,808.70	134.31	130.28	90.89	-3,635.97	106.36	5,737.11	5,520.48	216.64	26.483		
15,500.00	7,730.00	13,181.52	7,809.32	134.76	93.63	90.89	-3,871.63	111.16	5,734.02	5,551.47	182.55	31.410		
15,600.00	7,730.00	13,276.03	7,809.74	135.23	95.21	90.90	-3,966.11	113.56	5,731.14	5,545.56	185.58	30.883		
15,700.00	7,730.00	13,327.27	7,809.99	135.73	96.06	90.90	-4,017.33	114.74	5,728.58	5,541.14	187.43	30.563		
15,800.00	7,730.00	13,380.00	7,810.19	136.26	96.94	90.90	-4,070.06	115.32	5,727.04	5,537.71	189.32	30.250		
15,900.00	7,730.00	13,589.22	7,810.96	136.81	100.44	90.91	-4,279.24	119.10	5,724.96	5,529.44	195.52	29.281		
16,000.00	7,730.00	13,647.00	7,810.98	137.39	101.41	90.91	-4,337.00	120.67	5,722.02	5,524.45	197.57	28.962		
16,100.00	7,730.00	13,704.24	7,811.01	138.00	102.37	90.91	-4,394.23	121.80	5,719.82	5,520.22	199.60	28.656		
16,200.00	7,730.00	13,755.74	7,811.20	138.63	103.24	90.91	-4,445.73	122.22	5,718.63	5,517.17	201.46	28.385		
16,300.00	7,730.00	13,826.00	7,811.59	139.30	104.41	90.92	-4,515.99	122.40	5,718.03	5,514.11	203.85	28.050		
16,317.18	7,730.00	13,826.00	7,811.59	139.41	104.41	90.92	-4,515.99	122.40	5,718.03	5,514.11	203.92	28.041		
16,400.00	7,730.00	13,867.17	7,811.90	139.99	105.10	90.92	-4,557.16	122.19	5,718.26	5,512.85	205.41	27.839		
16,500.00	7,730.00	14,096.10	7,816.05	140.70	108.95	90.96	-4,786.01	123.02	5,717.24	5,504.90	212.33	26.926		
16,600.00	7,730.00	14,179.60	7,818.13	141.45	110.36	90.98	-4,869.48	123.92	5,715.86	5,500.72	215.13	26.569		
16,700.00	7,730.00	14,675.71	7,830.77	142.22	118.88	91.12	-5,364.54	148.99	5,707.94	5,478.19	229.74	24.845		
16,800.00	7,730.00	14,717.00	7,831.74	143.03	119.60	91.13	-5,405.71	151.98	5,700.34	5,468.90	231.44	24.630		
16,900.00	7,730.00	14,717.00	7,831.74	143.86	119.60	91.13	-5,405.71	151.98	5,694.08	5,462.15	231.93	24.551		
17,000.00	7,730.00	14,757.18	7,832.67	144.71	120.29	91.14	-5,445.81	154.12	5,688.91	5,455.37	233.54	24.359		
17,100.00	7,730.00	15,016.28	7,836.01	145.60	124.77	91.17	-5,704.48	167.39	5,683.96	5,442.50	241.46	23.540		
17,200.00	7,730.00	15,073.00	7,836.36	146.51	125.76	91.18	-5,761.11	170.58	5,677.66	5,434.08	243.58	23.310		
17,300.00	7,730.00	15,073.00	7,836.36	147.44	125.76	91.18	-5,761.11	170.58	5,672.16	5,428.12	244.04	23.243		
17,400.00	7,730.00	15,073.00	7,836.36	148.40	125.76	91.18	-5,761.11	170.58	5,668.42	5,423.96	244.45	23.188		
17,500.00	7,730.00	15,128.94	7,836.87	149.39	126.72	91.18	-5,817.01	172.33	5,665.41	5,418.92	246.49	22.984		
17,600.00	7,730.00	15,162.00	7,837.18	150.40	127.28	91.19	-5,850.07	172.65	5,663.98	5,416.16	247.83	22.855		
17,651.08	7,730.00	15,162.00	7,837.18	150.93	127.28	91.19	-5,850.07	172.65	5,663.75	5,415.76	247.99	22.839		
17,700.00	7,730.00	15,162.00	7,837.18	151.44	127.28	91.19	-5,850.07	172.65	5,663.96	5,415.83	248.13	22.827		
17,800.00	7,730.00	15,203.85	7,837.57	152.50	127.99	91.19	-5,891.92	172.22	5,665.06	5,415.39	249.67	22.690		
17,900.00	7,730.00	15,251.00	7,837.97	153.58	128.78	91.19	-5,939.03	170.54	5,667.83	5,416.47	251.36	22.549		
18,000.00	7,730.00	15,251.00	7,837.97	154.68	128.78	91.19	-5,939.03	170.54	5,671.53	5,419.98	251.55	22.547		
18,100.00	7,730.00	15,291.84	7,838.29	155.80	129.46	91.20	-5,979.81	168.33	5,676.63	5,423.65	252.98	22.439		
18,200.00	7,730.00	15,340.00	7,838.65	156.95	130.26	91.20	-6,027.87	165.17	5,682.79	5,428.16	254.62	22.318		
18,300.00	7,730.00	15,465.42	7,839.66	158.11	132.35	91.21	-6,153.02	157.06	5,688.89	5,430.16	258.73	21.988		
18,400.00	7,730.00	15,529.78	7,840.00	159.30	133.42	91.21	-6,217.23	152.70	5,695.32	5,434.43	260.89	21.830		
18,500.00	7,730.00	15,608.00	7,840.26	160.50	134.71	91.21	-6,295.26	147.20	5,702.06	5,438.57	263.49	21.641		
18,600.00	7,730.00	15,658.87	7,840.52	161.72	135.56	91.21	-6,345.98	143.31	5,709.47	5,444.28	265.19	21.530		
18,700.00	7,730.00	16,320.00	7,845.87	162.96	146.63	91.26	-7,001.73	118.27	5,715.33	5,429.28	286.05	19.980		
18,800.00	7,730.00	16,320.00	7,845.87	164.21	146.63	91.26	-7,001.73	118.27	5,714.41	5,428.03	286.38	19.954		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,802.92	7,730.00	16,320.00	7,845.87	164.25	146.63	91.26	-7,001.73	118.27	5,714.41	5,428.02	286.39	19.954	
18,900.00	7,730.00	16,320.00	7,845.87	165.48	146.63	91.26	-7,001.73	118.27	5,715.23	5,428.60	286.63	19.939	
19,000.00	7,730.00	16,320.00	7,845.87	166.76	146.63	91.26	-7,001.73	118.27	5,717.80	5,430.98	286.83	19.935	
19,100.00	7,730.00	16,320.00	7,845.87	168.06	146.63	91.26	-7,001.73	118.27	5,722.12	5,435.17	286.95	19.941	
19,200.00	7,730.00	16,359.59	7,845.71	169.38	147.29	91.26	-7,041.28	116.63	5,727.08	5,438.76	288.32	19.864	
19,300.00	7,730.00	16,409.00	7,845.52	170.70	148.11	91.26	-7,090.45	111.87	5,735.06	5,445.08	289.98	19.778	
19,400.00	7,730.00	16,409.00	7,845.52	172.04	148.11	91.26	-7,090.45	111.87	5,743.04	5,453.08	289.96	19.806	
19,500.00	7,730.00	16,409.00	7,845.52	173.40	148.11	91.26	-7,090.45	111.87	5,752.76	5,462.88	289.88	19.845	
19,600.00	7,730.00	16,409.00	7,845.52	174.76	148.11	91.26	-7,090.45	111.87	5,764.19	5,474.46	289.73	19.895	
19,700.00	7,730.00	16,558.80	7,845.10	176.14	150.57	91.25	-7,239.16	93.82	5,775.82	5,481.05	294.77	19.594	
19,800.00	7,730.00	16,639.21	7,844.01	177.52	151.89	91.24	-7,318.99	84.26	5,787.35	5,489.95	297.40	19.460	
19,900.00	7,730.00	19,900.00	7,841.21	178.92	205.91	91.21	-7,430.05	70.80	5,799.00	5,445.06	353.93	16.384 SF	
20,000.00	7,730.00	16,879.97	7,837.12	180.33	155.85	91.16	-7,557.98	56.06	5,809.97	5,504.53	305.43	19.022	
20,100.00	7,730.00	16,971.07	7,833.41	181.75	157.36	91.12	-7,648.40	45.47	5,821.17	5,512.73	308.44	18.873	
20,184.95	7,730.00	17,080.69	7,828.47	182.96	159.17	91.07	-7,757.20	33.11	5,830.38	5,518.27	312.11	18.681	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.18	787.25	-1,090.86	1,345.30					
100.00	100.00	89.45	89.45	0.13	0.15	-54.19	787.20	-1,090.91	1,345.28	1,345.00	0.28	4,748.374	CC, ES	
200.00	199.98	188.81	188.80	0.49	0.31	-124.69	787.03	-1,091.12	1,346.34	1,345.53	0.80	1,672.777		
300.00	299.84	288.02	288.02	0.86	0.48	-124.84	786.74	-1,091.46	1,349.44	1,348.10	1.33	1,012.246		
400.00	399.45	385.20	385.20	1.23	0.77	-125.07	786.43	-1,091.92	1,354.65	1,352.65	2.00	678.974		
500.00	498.70	481.26	481.25	1.63	1.11	-125.37	786.41	-1,092.44	1,362.14	1,359.42	2.72	500.196		
600.00	597.47	576.10	576.10	2.05	1.44	-125.71	786.88	-1,092.91	1,372.00	1,368.54	3.46	396.685		
700.00	695.62	744.73	744.59	2.51	2.02	-126.44	789.34	-1,087.92	1,381.78	1,377.33	4.45	310.480		
800.00	793.06	860.23	859.55	3.00	2.43	-126.78	793.90	-1,077.82	1,390.22	1,384.92	5.30	262.132		
900.00	889.64	968.93	967.23	3.53	2.84	-127.00	801.69	-1,065.26	1,400.27	1,394.09	6.18	226.411		
1,000.00	985.27	1,084.91	1,081.37	4.12	3.31	-127.17	813.25	-1,048.31	1,411.38	1,404.22	7.15	197.316		
1,100.00	1,079.82	1,191.29	1,185.48	4.75	3.77	-127.28	825.82	-1,030.41	1,423.73	1,415.59	8.15	174.769		
1,200.00	1,173.17	1,284.47	1,276.42	5.44	4.19	-127.37	837.87	-1,014.12	1,438.25	1,429.11	9.14	157.337		
1,300.00	1,265.21	1,389.53	1,378.14	6.18	4.71	-127.43	854.28	-993.62	1,454.57	1,444.31	10.26	141.752		
1,400.00	1,355.84	1,475.69	1,461.13	6.99	5.15	-127.41	869.65	-976.28	1,473.61	1,462.26	11.35	129.818		
1,500.00	1,444.94	1,644.96	1,624.08	7.87	6.05	-127.86	897.63	-940.12	1,493.50	1,480.58	12.92	115.560		
1,600.00	1,532.39	1,705.63	1,682.56	8.80	6.38	-127.89	906.73	-926.78	1,513.80	1,499.83	13.97	108.363		
1,700.00	1,618.11	1,823.12	1,795.77	9.81	7.03	-128.29	925.05	-901.23	1,537.08	1,521.73	15.35	100.109		
1,800.00	1,701.97	1,931.50	1,899.86	10.89	7.64	-128.71	940.84	-875.54	1,560.35	1,543.63	16.73	93.273		
1,900.00	1,783.88	1,992.00	1,958.18	12.04	7.97	-128.79	949.78	-862.14	1,587.45	1,569.59	17.86	88.862		
2,000.00	1,863.74	2,097.86	2,060.38	13.26	8.56	-129.31	965.26	-839.31	1,617.44	1,598.17	19.27	83.948		
2,100.00	1,941.45	2,177.74	2,137.51	14.55	9.00	-129.59	976.97	-822.11	1,649.96	1,629.41	20.54	80.310		
2,200.00	2,016.92	2,286.84	2,242.65	15.92	9.62	-130.20	992.91	-797.75	1,684.27	1,662.26	22.01	76.522		
2,292.11	2,084.36	2,348.00	2,301.68	17.25	9.96	-130.35	1,001.70	-784.38	1,718.52	1,695.38	23.14	74.269		
2,300.00	2,090.06	2,348.00	2,301.68	17.36	9.96	-130.35	1,001.70	-784.38	1,721.61	1,698.40	23.21	74.190		
2,400.00	2,162.18	2,408.42	2,360.17	18.84	10.29	-131.07	1,010.53	-772.11	1,761.69	1,737.32	24.37	72.293		
2,500.00	2,234.31	2,463.29	2,413.46	20.33	10.58	-131.71	1,018.81	-761.97	1,803.84	1,778.37	25.47	70.834		
2,600.00	2,306.43	2,520.00	2,468.70	21.83	10.87	-132.37	1,027.41	-752.46	1,847.86	1,821.33	26.54	69.637		
2,700.00	2,378.56	2,576.37	2,523.72	23.33	11.15	-133.01	1,036.10	-743.84	1,893.61	1,866.04	27.57	68.679		
2,800.00	2,450.68	2,628.38	2,576.94	24.84	12.52	-135.60	1,072.53	-694.23	1,934.51	1,904.64	29.87	64.761		
2,900.00	2,522.81	2,692.21	2,637.53	26.36	13.17	-136.66	1,088.28	-667.79	1,974.26	1,942.98	31.28	63.116		
3,000.00	2,594.93	3,007.37	2,940.20	27.88	13.55	-137.25	1,096.94	-652.21	2,013.57	1,981.19	32.37	62.199		
3,100.00	2,667.06	3,077.73	3,008.19	29.40	13.95	-137.89	1,106.04	-636.53	2,054.41	2,020.95	33.47	61.385		
3,200.00	2,739.18	3,152.77	3,080.53	30.92	14.37	-138.52	1,116.71	-619.68	2,095.84	2,061.26	34.58	60.608		
3,300.00	2,811.31	3,204.12	3,130.17	32.45	14.66	-138.94	1,124.10	-608.85	2,138.76	2,103.24	35.52	60.219		
3,400.00	2,883.43	3,315.06	3,237.56	33.98	15.27	-139.83	1,140.17	-586.15	2,182.58	2,145.75	36.83	59.262		
3,500.00	2,955.56	3,369.60	3,290.38	35.51	15.57	-140.25	1,147.94	-574.99	2,226.50	2,188.76	37.75	58.988		
3,600.00	3,027.68	3,458.70	3,376.90	37.04	16.05	-140.94	1,160.32	-557.64	2,271.49	2,232.62	38.87	58.433		
3,700.00	3,099.81	3,530.53	3,446.39	38.57	16.45	-141.44	1,171.24	-543.13	2,316.42	2,276.53	39.88	58.078		
3,800.00	3,171.93	3,610.04	3,523.60	40.11	16.88	-142.01	1,182.91	-528.14	2,362.53	2,321.60	40.93	57.722		
3,900.00	3,244.06	3,709.34	3,619.90	41.64	17.42	-142.69	1,197.03	-508.46	2,407.91	2,365.82	42.10	57.196		
4,000.00	3,316.18	3,807.42	3,714.93	43.18	17.95	-143.31	1,211.80	-489.24	2,453.96	2,410.70	43.27	56.719		
4,100.00	3,388.31	3,984.49	3,885.81	44.71	18.96	-144.40	1,236.76	-450.18	2,497.73	2,452.76	44.96	55.551		
4,200.00	3,460.43	4,052.00	3,950.77	46.25	19.35	-144.80	1,245.73	-434.12	2,540.26	2,494.36	45.90	55.345		
4,300.00	3,532.56	4,105.91	4,002.79	47.79	19.65	-145.12	1,252.81	-421.87	2,583.97	2,537.25	46.72	55.311		
4,400.00	3,604.68	4,153.70	4,049.17	49.33	19.92	-145.41	1,258.93	-412.13	2,629.55	2,582.08	47.47	55.395		
4,500.00	3,676.81	4,230.00	4,123.00	50.87	20.34	-145.83	1,269.89	-396.31	2,675.38	2,626.95	48.43	55.247		
4,600.00	3,748.93	4,285.67	4,176.86	52.41	20.65	-146.11	1,278.42	-385.09	2,722.15	2,672.92	49.23	55.298		
4,700.00	3,821.06	4,328.93	4,218.95	53.95	20.88	-146.34	1,284.81	-377.40	2,770.71	2,720.80	49.91	55.518		
4,800.00	3,893.18	4,400.00	4,350.67	55.49	23.45	-147.00	1,306.02	-352.68	2,819.21	2,766.26	52.95	53.243		
4,900.00	3,965.31	4,460.47	4,539.86	57.03	22.72	-147.92	1,335.12	-311.37	2,865.06	2,811.89	53.17	53.886		
5,000.00	4,037.43	4,745.91	4,622.09	58.58	23.21	-148.30	1,347.58	-291.81	2,909.59	2,855.41	54.18	53.699		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,827.58	4,700.73	60.12	23.69	-148.65	1,359.63	-273.34	2,954.49	2,899.32	55.17	53.556		
5,200.00	4,181.68	4,958.25	4,826.51	61.66	24.45	-149.20	1,378.31	-243.26	2,999.15	2,942.66	56.49	53.088		
5,300.00	4,253.81	5,020.42	4,886.29	63.20	24.81	-149.45	1,387.35	-228.78	3,043.57	2,986.24	57.33	53.093		
5,400.00	4,325.93	5,074.38	4,938.24	64.75	25.12	-149.66	1,395.33	-216.57	3,088.77	3,030.68	58.08	53.178		
5,500.00	4,398.06	5,121.00	4,983.26	66.29	25.39	-149.84	1,402.12	-206.56	3,135.09	3,076.33	58.77	53.347		
5,600.00	4,470.18	5,189.30	5,049.28	67.84	25.77	-150.10	1,412.52	-192.50	3,182.30	3,122.69	59.62	53.379		
5,700.00	4,542.31	5,284.70	5,141.52	69.38	26.31	-150.44	1,427.40	-173.19	3,229.93	3,169.24	60.68	53.226		
5,800.00	4,614.43	5,345.91	5,200.86	70.92	26.64	-150.67	1,435.96	-160.86	3,277.62	3,216.18	61.45	53.342		
5,900.00	4,686.56	5,401.26	5,254.64	72.47	26.94	-150.88	1,443.69	-150.27	3,326.23	3,264.08	62.15	53.519		
6,000.00	4,758.68	5,463.73	5,315.39	74.01	27.27	-151.11	1,452.54	-138.78	3,375.59	3,312.69	62.90	53.663		
6,100.00	4,830.81	5,525.73	5,377.43	75.56	27.62	-151.34	1,461.62	-127.00	3,423.27	3,358.56	63.61	53.805		
6,200.00	4,902.93	5,588.52	5,439.12	77.10	28.00	-151.57	1,470.88	-115.45	3,470.77	3,405.32	64.35	53.930		
6,300.00	4,975.06	5,651.59	5,501.87	78.65	28.40	-151.79	1,480.24	-103.91	3,518.99	3,452.79	65.05	53.160		
6,400.00	5,047.18	5,714.70	5,564.25	80.19	28.82	-152.68	1,517.44	-92.45	3,567.62	3,499.99	65.73	52.753		
6,500.00	5,119.31	5,777.04	5,626.58	81.74	29.27	-152.97	1,528.94	-81.26	3,614.70	3,546.13	66.39	52.716		
6,600.00	5,191.43	5,839.07	5,688.71	83.28	29.75	-153.22	1,541.92	-70.57	3,661.63	3,592.05	67.00	52.624		
6,700.00	5,263.56	5,900.39	5,750.84	84.83	30.25	-153.43	1,548.31	-60.46	3,709.03	3,638.82	67.56	52.823		
6,800.00	5,335.68	5,961.48	5,812.96	86.37	30.77	-153.65	1,556.91	-50.87	3,757.13	3,686.14	68.07	52.921		
6,900.00	5,407.81	6,022.57	5,875.09	87.92	31.31	-153.86	1,566.74	-41.83	3,805.48	3,733.67	68.54	52.997		
7,000.00	5,479.93	6,083.66	5,938.20	89.47	31.86	-154.03	1,575.53	-33.32	3,854.44	3,781.90	68.97	53.137		
7,100.00	5,552.06	6,144.75	6,000.32	91.01	32.42	-154.14	1,589.61	-25.32	3,902.30	3,828.18	69.35	52.653		
7,200.00	5,624.18	6,205.84	6,062.45	92.56	33.00	-154.56	1,607.09	-17.85	3,950.21	3,875.45	69.67	52.839		
7,300.00	5,696.31	6,266.93	6,124.58	94.10	33.60	-154.79	1,618.72	-10.61	3,999.10	3,920.54	69.94	50.907		
7,400.00	5,768.43	6,328.02	6,186.71	95.65	34.21	-156.97	1,646.19	-3.04	4,040.55	3,961.56	69.99	51.152		
7,500.00	5,840.56	6,389.11	6,248.84	97.20	34.83	-156.97	1,646.19	2.04	4,079.34	3,999.96	69.38	51.389		
7,600.00	5,912.68	6,450.20	6,310.97	98.74	35.46	-156.97	1,646.19	7.04	4,120.20	4,040.47	68.73	51.676		
7,700.00	5,984.81	6,511.29	6,373.10	100.29	36.10	-156.97	1,646.19	12.04	4,163.06	4,083.02	68.04	52.013		
7,800.00	6,056.93	6,572.38	6,435.23	101.84	36.75	-157.30	1,633.29	17.88	4,206.96	4,126.79	67.21	52.479		
7,900.00	6,129.06	6,633.47	6,497.36	103.38	37.41	-157.41	1,628.71	24.53	4,252.91	4,172.55	66.36	52.923		
8,000.00	6,201.18	6,694.56	6,559.49	104.93	38.08	-157.79	1,613.23	31.83	4,301.04	4,220.62	65.41	53.486		
8,100.00	6,273.31	6,755.65	6,621.62	106.48	38.75	-157.79	1,613.23	39.73	4,349.87	4,269.27	64.46	53.966		
8,200.00	6,345.43	6,816.74	6,683.75	108.02	39.42	-157.79	1,613.23	48.23	4,400.44	4,319.67	63.41	54.486		
8,300.00	6,417.56	6,877.83	6,745.88	109.57	40.10	-157.79	1,613.23	57.33	4,452.68	4,371.78	62.26	55.044		
8,400.00	6,489.68	6,938.92	6,808.01	111.12	40.79	-158.08	1,601.07	66.93	4,506.20	4,425.31	61.01	55.710		
8,500.00	6,561.81	7,000.01	6,869.14	112.66	41.48	-158.26	1,593.25	76.93	4,561.06	4,480.16	59.66	56.377		
8,600.00	6,633.93	7,061.10	6,930.27	114.21	42.17	-158.68	1,574.16	87.43	4,617.44	4,536.63	58.11	57.144		
8,700.00	6,706.06	7,122.19	6,991.40	115.76	42.87	-158.68	1,574.16	98.43	4,674.62	4,593.76	56.46	57.815		
8,800.00	6,778.18	7,183.28	7,052.49	117.30	43.57	-159.03	1,557.46	109.88	4,733.12	4,652.38	54.71	58.621		
8,900.00	6,850.31	7,244.37	7,113.58	118.85	44.27	-161.03	1,455.09	121.83	4,791.83	4,712.03	52.86	60.053		
9,000.00	6,922.43	7,305.46	7,174.67	120.40	44.97	-161.57	1,425.20	134.33	4,850.60	4,771.08	50.91	60.995		
9,100.00	6,994.56	7,366.55	7,235.76	121.95	45.67	-161.93	1,404.73	147.33	4,910.39	4,831.05	48.86	61.890		
9,200.00	7,066.68	7,427.64	7,296.85	123.49	46.37	-162.20	1,388.81	160.83	4,971.28	4,892.09	46.71	62.776		
9,300.00	7,138.81	7,488.73	7,357.94	125.04	47.07	-162.45	1,374.41	174.83	5,033.28	4,954.23	44.46	63.675		
9,392.50	7,205.52	7,549.82	7,419.05	126.47	47.77	-162.87	1,348.72	188.83	5,091.65	5,012.87	42.11	64.628		
9,400.00	7,210.94	7,555.24	7,424.47	126.59	47.89	-164.25	1,348.72	193.83	5,096.42	5,017.64	41.61	64.690		
9,450.00	7,247.42	7,591.72	7,460.95	127.35	48.39	-173.64	1,348.72	203.83	5,128.36	5,049.59	40.77	65.102		
9,500.00	7,284.35	7,628.20	7,497.48	128.10	48.89	176.74	1,348.72	213.83	5,160.47	5,081.70	39.82	65.515		
9,550.00	7,321.43	7,664.68	7,533.56	128.83	49.39	167.09	1,348.72	223.83	5,192.50	5,113.74	38.77	65.928		
9,600.00	7,358.38	7,701.16	7,569.53	129.52	49.89	157.63	1,348.72	233.83	5,224.20	5,145.45	37.62	66.338		
9,650.00	7,394.93	7,737.64	7,605.50	130.16	50.39	148.55	1,348.72	243.83	5,255.34	5,176.60	36.47	66.742		
9,700.00	7,430.79	7,774.12	7,641.36	130.76	50.89	140.00	1,348.72	253.83	5,285.70	5,206.97	35.32	67.135		
9,750.00	7,465.70	7,810.60	7,677.23	131.30	51.39	132.11	1,348.72	263.83	5,315.07	5,236.34	34.17	67.513		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,794.00	7,471.35	131.78	37.17	124.93	1,348.72	334.56	5,343.23	5,264.50	78.73	67.871		
9,850.00	7,531.58	7,794.00	7,471.35	132.21	37.17	118.48	1,348.72	334.56	5,369.99	5,291.26	78.73	68.204		
9,900.00	7,562.06	7,832.22	7,492.42	132.57	37.10	112.69	1,317.04	338.14	5,394.15	5,315.70	78.45	68.759		
9,950.00	7,590.58	7,837.97	7,495.38	132.87	37.09	107.69	1,312.14	338.54	5,417.25	5,338.82	78.44	69.065		
10,000.00	7,616.93	7,843.85	7,498.37	133.11	37.08	103.37	1,307.09	338.90	5,438.40	5,359.96	78.44	69.330		
10,050.00	7,640.90	7,883.00	7,516.80	133.29	37.01	99.65	1,272.59	340.37	5,458.23	5,380.06	78.17	69.823		
10,100.00	7,662.32	7,883.00	7,516.80	133.42	37.01	96.55	1,272.59	340.37	5,474.80	5,396.52	78.28	69.941		
10,150.00	7,681.01	7,883.00	7,516.80	133.50	37.01	93.96	1,272.59	340.37	5,489.08	5,410.67	78.42	69.999		
10,200.00	7,696.85	7,883.00	7,516.80	133.52	37.01	91.87	1,272.59	340.37	5,501.00	5,422.40	78.59	69.994		
10,250.00	7,709.70	7,883.00	7,516.80	133.51	37.01	90.24	1,272.59	340.37	5,510.46	5,431.65	78.81	69.921		
10,300.00	7,719.47	7,883.00	7,516.80	133.46	37.01	89.05	1,272.59	340.37	5,517.42	5,438.35	79.07	69.778		
10,350.00	7,726.09	7,933.24	7,537.79	133.37	36.90	88.45	1,226.96	341.28	5,521.69	5,442.81	78.88	69.999		
10,400.00	7,729.50	10,400.00	7,554.97	133.26	37.21	88.28	1,185.60	342.32	5,522.83	5,445.32	77.51	71.254		
10,427.79	7,730.00	7,973.00	7,552.94	133.18	36.81	88.27	1,190.21	342.22	5,522.32	5,443.28	79.03	69.873		
10,500.00	7,730.00	8,004.21	7,564.09	132.98	36.74	88.38	1,161.06	342.79	5,520.07	5,440.77	79.30	69.612		
10,600.00	7,730.00	8,029.12	7,572.63	132.72	36.68	88.47	1,137.66	342.90	5,518.24	5,438.38	79.86	69.099		
10,693.87	7,730.00	8,062.00	7,583.41	132.48	36.61	88.58	1,106.61	342.59	5,517.81	5,437.49	80.31	68.703		
10,700.00	7,730.00	8,062.00	7,583.41	132.47	36.61	88.58	1,106.61	342.59	5,517.81	5,437.45	80.36	68.660		
10,800.00	7,730.00	8,138.81	7,606.89	132.22	36.44	88.83	1,033.49	341.35	5,518.37	5,437.88	80.49	68.561		
10,900.00	7,730.00	8,211.73	7,625.48	131.99	36.30	89.02	963.02	340.18	5,519.21	5,438.52	80.69	68.402		
11,000.00	7,730.00	8,305.71	7,640.01	131.77	36.13	89.17	870.22	338.44	5,520.49	5,439.78	80.71	68.401		
11,100.00	7,730.00	8,382.59	7,646.81	131.56	36.03	89.24	793.66	337.02	5,521.90	5,440.97	80.94	68.225		
11,200.00	7,730.00	8,696.00	7,660.19	131.36	36.10	89.38	480.76	337.26	5,520.96	5,440.81	80.14	68.888		
11,300.00	7,730.00	8,790.69	7,660.45	131.17	36.35	89.38	386.08	338.92	5,518.85	5,438.11	80.74	68.350		
11,400.00	7,730.00	8,910.59	7,660.56	130.99	36.83	89.38	266.21	341.16	5,516.67	5,435.17	81.49	67.694		
11,500.00	7,730.00	9,003.27	7,660.36	130.82	37.35	89.38	173.55	343.17	5,514.17	5,431.79	82.38	66.936		
11,600.00	7,730.00	9,118.07	7,660.31	130.66	38.14	89.38	58.77	345.38	5,511.93	5,428.47	83.46	66.041		
11,700.00	7,730.00	9,207.53	7,660.16	130.51	38.86	89.38	-30.67	347.34	5,509.41	5,424.82	84.59	65.133		
11,800.00	7,730.00	9,305.32	7,660.12	130.37	39.73	89.38	-128.44	349.30	5,507.07	5,421.20	85.86	64.139		
11,900.00	7,730.00	9,452.00	7,659.76	130.24	41.18	89.37	-275.07	353.02	5,504.14	5,416.50	87.65	62.799		
12,000.00	7,730.00	9,514.93	7,658.49	130.13	41.85	89.36	-337.97	354.75	5,501.16	5,412.29	88.87	61.902		
12,100.00	7,730.00	9,576.00	7,656.92	130.02	42.51	89.34	-399.01	355.61	5,499.26	5,409.15	90.11	61.028		
12,200.00	7,730.00	9,607.92	7,656.34	129.93	42.86	89.34	-430.92	355.75	5,498.22	5,407.10	91.12	60.341		
12,300.00	7,730.00	9,675.49	7,657.09	129.85	43.62	89.34	-498.48	355.65	5,497.99	5,405.48	92.51	59.434		
12,344.19	7,730.00	9,737.00	7,658.71	129.81	44.32	89.36	-559.97	355.51	5,497.93	5,404.44	93.49	58.808		
12,400.00	7,730.00	9,787.93	7,660.07	129.77	44.92	89.38	-610.88	355.48	5,497.76	5,403.30	94.46	58.205		
12,500.00	7,730.00	9,928.75	7,663.29	129.71	46.62	89.41	-751.66	355.38	5,497.59	5,400.71	96.88	56.746		
12,600.00	7,730.00	10,200.15	7,669.80	129.66	50.14	89.48	-1,022.91	361.33	5,494.95	5,393.44	101.51	54.134		
12,700.00	7,730.00	10,199.00	7,669.78	129.63	50.13	89.48	-1,021.76	361.28	5,491.82	5,389.71	102.11	53.786		
12,800.00	7,730.00	10,243.35	7,670.32	129.60	50.72	89.48	-1,066.10	362.30	5,489.69	5,386.25	103.44	53.072		
12,900.00	7,730.00	10,288.00	7,670.22	129.59	51.32	89.48	-1,110.74	362.05	5,489.40	5,384.62	104.78	52.389		
12,911.14	7,730.00	10,288.00	7,670.22	129.59	51.32	89.48	-1,110.74	362.05	5,489.39	5,384.53	104.86	52.352		
13,000.00	7,730.00	10,288.00	7,670.22	129.59	51.32	89.48	-1,110.74	362.05	5,490.11	5,384.67	105.43	52.071		
13,100.00	7,730.00	10,577.44	7,664.59	129.60	55.31	89.42	-1,400.11	362.16	5,489.28	5,378.35	110.92	49.487		
13,200.00	7,730.00	10,646.56	7,662.57	129.63	56.30	89.40	-1,469.19	363.00	5,487.74	5,374.96	112.78	48.660		
13,300.00	7,730.00	10,734.00	7,659.75	129.66	57.56	89.37	-1,556.58	364.43	5,485.89	5,370.89	115.00	47.703		
13,400.00	7,730.00	10,789.41	7,657.84	129.72	58.37	89.35	-1,611.94	365.06	5,484.83	5,368.18	116.64	47.023		
13,416.40	7,730.00	10,794.27	7,657.67	129.73	58.44	89.35	-1,616.81	365.05	5,484.81	5,367.97	116.83	46.946		
13,500.00	7,730.00	10,823.00	7,656.65	129.78	58.86	89.34	-1,645.51	364.79	5,485.25	5,367.38	117.87	46.536		
13,600.00	7,730.00	11,001.00	7,649.92	129.86	61.47	89.27	-1,823.38	364.40	5,484.90	5,362.94	121.96	44.973		
13,658.63	7,730.00	11,035.89	7,648.43	129.92	61.99	89.25	-1,858.24	364.46	5,484.69	5,361.68	123.01	44.589		
13,700.00	7,730.00	11,052.90	7,647.64	129.96	62.24	89.24	-1,875.23	364.38	5,484.78	5,361.20	123.58	44.382		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,730.00	11,112.44	7,644.54	130.07	63.13	89.21	-1,934.68	363.58	5,485.75	5,360.39	125.36	43.760		
13,900.00	7,730.00	11,288.09	7,634.26	130.19	65.77	89.10	-2,110.03	362.67	5,485.84	5,356.23	129.61	42.326		
13,920.46	7,730.00	11,298.15	7,633.63	130.22	65.92	89.10	-2,120.07	362.66	5,485.82	5,355.88	129.94	42.219		
14,000.00	7,730.00	11,337.24	7,631.18	130.33	66.52	89.07	-2,159.08	362.42	5,486.11	5,354.91	131.21	41.813		
14,100.00	7,730.00	11,450.11	7,624.02	130.49	68.24	89.00	-2,271.71	361.22	5,486.98	5,352.77	134.21	40.885		
14,200.00	7,730.00	11,501.77	7,620.55	130.67	69.03	88.96	-2,323.25	360.59	5,487.95	5,352.08	135.87	40.390		
14,300.00	7,730.00	11,559.56	7,616.49	130.86	69.92	88.92	-2,380.90	359.43	5,489.75	5,352.07	137.68	39.874		
14,400.00	7,730.00	11,625.00	7,613.02	131.07	70.92	88.88	-2,446.22	357.65	5,492.23	5,352.56	139.67	39.323		
14,500.00	7,730.00	11,864.78	7,602.04	131.30	74.65	88.77	-2,685.70	353.82	5,493.35	5,347.56	145.79	37.679		
14,600.00	7,730.00	11,981.00	7,596.67	131.55	76.49	88.71	-2,801.80	353.93	5,492.95	5,343.87	149.08	36.845		
14,630.35	7,730.00	12,009.16	7,595.38	131.63	76.93	88.70	-2,829.93	354.00	5,492.81	5,342.89	149.92	36.639		
14,700.00	7,730.00	12,032.45	7,594.22	131.82	77.30	88.69	-2,853.19	353.85	5,493.10	5,342.29	150.81	36.424		
14,800.00	7,730.00	12,071.00	7,592.11	132.11	77.91	88.67	-2,891.68	353.18	5,494.56	5,342.35	152.21	36.098		
14,900.00	7,730.00	12,228.91	7,582.30	132.42	80.42	88.56	-3,049.26	350.76	5,495.85	5,339.27	156.58	35.099		
15,000.00	7,730.00	12,333.02	7,576.75	132.75	82.09	88.51	-3,153.21	349.64	5,496.72	5,337.07	159.65	34.429		
15,100.00	7,730.00	12,527.33	7,573.57	133.10	85.22	88.47	-3,347.49	349.11	5,496.69	5,331.55	165.14	33.284		
15,200.00	7,730.00	12,664.25	7,571.82	133.48	87.45	88.45	-3,484.39	350.33	5,495.51	5,326.31	169.20	32.479		
15,300.00	7,730.00	12,724.09	7,571.05	133.88	88.43	88.45	-3,544.22	351.00	5,494.18	5,322.96	171.22	32.089		
15,372.29	7,730.00	12,751.74	7,570.64	134.19	88.88	88.44	-3,571.87	351.03	5,493.89	5,321.63	172.26	31.893		
15,400.00	7,730.00	12,783.00	7,570.12	134.31	89.39	88.44	-3,603.12	350.80	5,494.03	5,320.82	173.21	31.719		
15,403.55	7,730.00	12,783.00	7,570.12	134.32	89.39	88.44	-3,603.12	350.80	5,494.03	5,320.81	173.22	31.716		
15,500.00	7,730.00	12,814.91	7,569.66	134.76	89.91	88.43	-3,635.02	350.37	5,494.74	5,320.28	174.46	31.495		
15,600.00	7,730.00	12,896.52	7,569.44	135.23	91.24	88.43	-3,716.62	348.91	5,496.18	5,319.11	177.07	31.039		
15,700.00	7,730.00	13,034.21	7,569.42	135.73	93.48	88.43	-3,854.30	346.84	5,497.34	5,316.10	181.24	30.332		
15,800.00	7,730.00	13,224.26	7,569.53	136.26	96.62	88.43	-4,044.34	346.52	5,497.01	5,310.11	186.91	29.410		
15,891.66	7,730.00	13,271.15	7,570.27	136.76	97.39	88.44	-4,091.23	346.56	5,496.62	5,308.05	188.57	29.149		
15,900.00	7,730.00	13,275.15	7,570.36	136.81	97.46	88.44	-4,095.22	346.54	5,496.62	5,307.91	188.71	29.127		
16,000.00	7,730.00	13,338.30	7,572.45	137.39	98.50	88.46	-4,158.33	345.88	5,497.16	5,306.29	190.87	28.801		
16,100.00	7,730.00	16,100.00	7,579.02	138.00	144.73	88.53	-4,320.42	345.21	5,497.00	5,257.27	239.73	22.930		
16,116.34	7,730.00	13,496.00	7,578.84	138.10	101.12	88.53	-4,315.90	345.21	5,496.98	5,301.16	195.81	28.073		
16,200.00	7,730.00	13,532.29	7,580.23	138.63	101.72	88.54	-4,352.16	345.06	5,497.17	5,300.03	197.14	27.884		
16,300.00	7,730.00	13,585.00	7,581.56	139.30	102.59	88.56	-4,404.84	343.72	5,498.92	5,299.92	199.00	27.633		
16,400.00	7,730.00	13,590.89	7,581.66	139.99	102.69	88.56	-4,410.72	343.49	5,501.55	5,302.08	199.46	27.582		
16,500.00	7,730.00	13,720.40	7,583.70	140.70	104.82	88.58	-4,540.13	338.77	5,504.84	5,301.30	203.54	27.045		
16,600.00	7,730.00	13,913.61	7,584.00	141.45	108.03	88.58	-4,733.26	333.85	5,507.19	5,297.69	209.50	26.287		
16,686.45	7,730.00	14,057.23	7,580.84	142.12	110.43	88.55	-4,876.84	333.22	5,507.02	5,293.05	213.97	25.737		
16,700.00	7,730.00	14,061.92	7,580.72	142.22	110.51	88.55	-4,881.53	333.20	5,507.06	5,292.91	214.15	25.716		
16,800.00	7,730.00	14,120.00	7,579.40	143.03	111.48	88.54	-4,939.59	332.27	5,508.12	5,291.96	216.16	25.482		
16,900.00	7,730.00	16,900.00	7,577.96	143.86	158.24	88.52	-5,010.23	330.92	5,509.66	5,245.23	264.43	20.836		
17,000.00	7,730.00	14,275.10	7,576.95	144.71	114.08	88.51	-5,094.64	329.43	5,511.17	5,289.84	221.33	24.900		
17,100.00	7,730.00	17,100.00	7,577.57	145.60	161.65	88.52	-5,196.63	327.12	5,513.08	5,242.22	270.86	20.354		
17,200.00	7,730.00	14,435.00	7,577.95	146.51	116.76	88.52	-5,254.49	325.74	5,515.20	5,288.53	226.67	24.332		
17,300.00	7,730.00	14,491.90	7,578.74	147.44	117.71	88.53	-5,311.35	323.69	5,518.34	5,289.70	228.63	24.136		
17,400.00	7,730.00	14,783.88	7,579.33	148.40	122.62	88.54	-5,603.24	317.98	5,519.84	5,282.06	237.78	23.214		
17,500.00	7,730.00	15,089.39	7,579.59	149.39	127.85	88.54	-5,908.66	323.62	5,517.13	5,269.85	247.27	22.312		
17,600.00	7,730.00	15,185.68	7,580.06	150.40	129.51	88.54	-6,004.90	326.88	5,513.39	5,262.87	250.52	22.008		
17,700.00	7,730.00	15,320.21	7,580.43	151.44	131.83	88.55	-6,139.33	331.91	5,509.29	5,254.38	254.91	21.613		
17,800.00	7,730.00	15,394.86	7,580.50	152.50	133.12	88.55	-6,213.93	334.72	5,505.19	5,247.66	257.52	21.377		
17,900.00	7,730.00	15,505.51	7,580.50	153.58	135.03	88.55	-6,324.50	338.84	5,501.11	5,239.90	261.21	21.060		
18,000.00	7,730.00	15,609.50	7,580.17	154.68	136.83	88.54	-6,428.42	342.65	5,497.12	5,232.42	264.71	20.767		
18,100.00	7,730.00	15,674.35	7,580.41	155.80	137.95	88.54	-6,493.23	344.93	5,493.27	5,226.24	267.03	20.572		
18,200.00	7,730.00	15,736.00	7,581.84	156.95	139.01	88.56	-6,554.84	346.66	5,490.08	5,220.82	269.25	20.390		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,300.00	7,730.00	15,766.29	7,582.98	158.11	139.53	88.57	-6,585.10	347.21	5,487.87	5,217.38	270.49	20.288		
18,400.00	7,730.00	15,795.52	7,584.35	159.30	140.04	88.58	-6,614.29	347.34	5,486.96	5,215.29	271.67	20.197		
18,402.08	7,730.00	15,796.12	7,584.38	159.32	140.05	88.58	-6,614.90	347.34	5,486.95	5,215.26	271.70	20.195		
18,500.00	7,730.00	15,825.00	7,586.00	160.50	140.54	88.60	-6,643.73	347.09	5,487.34	5,214.51	272.83	20.113		
18,600.00	7,730.00	15,870.00	7,588.80	161.72	141.31	88.63	-6,688.63	346.16	5,488.88	5,214.43	274.45	20.000		
18,700.00	7,730.00	15,913.87	7,591.28	162.96	142.05	88.66	-6,732.41	344.83	5,491.43	5,215.41	276.01	19.896		
18,800.00	7,730.00	15,960.63	7,593.26	164.21	142.85	88.68	-6,779.09	342.97	5,494.96	5,217.32	277.64	19.791		
18,900.00	7,730.00	16,061.89	7,596.68	165.48	144.56	88.71	-6,880.20	338.56	5,498.90	5,217.84	281.06	19.565		
19,000.00	7,730.00	16,137.00	7,598.87	166.76	145.83	88.74	-6,955.19	335.02	5,503.19	5,219.58	283.61	19.404		
19,100.00	7,730.00	16,225.25	7,601.17	168.06	147.32	88.76	-7,043.30	330.57	5,507.83	5,221.24	286.60	19.218		
19,200.00	7,730.00	16,358.45	7,604.43	169.38	149.58	88.80	-7,176.32	324.38	5,512.06	5,220.97	291.08	18.936		
19,300.00	7,730.00	16,453.06	7,606.42	170.70	151.18	88.82	-7,270.81	320.16	5,516.13	5,221.85	294.29	18.744		
19,400.00	7,730.00	16,553.89	7,607.78	172.04	152.89	88.83	-7,371.53	315.58	5,520.31	5,222.62	297.69	18.544		
19,500.00	7,730.00	16,644.52	7,608.33	173.40	154.43	88.84	-7,462.06	311.49	5,524.48	5,223.72	300.76	18.368		
19,600.00	7,730.00	16,738.56	7,608.22	174.76	156.03	88.84	-7,555.99	307.05	5,528.86	5,224.92	303.94	18.191		
19,700.00	7,730.00	17,237.58	7,636.82	176.14	164.62	89.14	-8,053.86	301.53	5,528.99	5,208.61	320.38	17.257		
19,800.00	7,730.00	17,406.71	7,644.41	177.52	167.57	89.22	-8,222.74	306.54	5,525.65	5,199.66	325.99	16.950		
19,900.00	7,730.00	17,526.60	7,648.71	178.92	169.67	89.26	-8,342.47	310.96	5,521.61	5,191.56	330.06	16.729		
20,000.00	7,730.00	17,583.00	7,650.55	180.33	170.66	89.28	-8,398.80	313.21	5,517.40	5,185.23	332.18	16.610		
20,100.00	7,730.00	17,583.00	7,650.55	181.75	170.66	89.28	-8,398.80	313.21	5,514.70	5,182.20	332.49	16.586		
20,184.95	7,730.00	17,583.00	7,650.55	182.96	170.66	89.28	-8,398.80	313.21	5,513.82	5,181.13	332.69	16.573 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.94	787.25	-1,081.06	1,337.37					
100.00	100.00	90.83	90.83	0.13	0.15	-53.93	787.29	-1,080.99	1,337.30	1,337.01	0.29	4,685.069		
103.27	103.27	94.13	94.13	0.15	0.16	-124.39	787.30	-1,080.98	1,337.30	1,337.00	0.30	4,419.466	CC, ES	
200.00	199.98	191.74	191.74	0.49	0.32	-124.42	787.44	-1,080.76	1,338.19	1,337.38	0.81	1,653.893		
300.00	299.84	292.55	292.55	0.86	0.49	-124.55	787.70	-1,080.37	1,340.99	1,339.65	1.34	1,001.141		
400.00	399.45	391.78	391.77	1.23	0.78	-124.76	787.85	-1,080.01	1,345.76	1,343.75	2.01	669.492		
500.00	498.70	490.04	490.04	1.63	1.12	-125.08	787.40	-1,080.17	1,352.63	1,349.89	2.74	494.246		
600.00	597.47	588.87	588.86	2.05	1.47	-125.52	786.31	-1,080.86	1,361.69	1,358.20	3.48	391.016		
700.00	695.62	737.86	737.76	2.51	1.99	-126.25	786.13	-1,076.90	1,370.57	1,366.15	4.43	309.694		
800.00	793.06	881.41	880.68	3.00	2.52	-126.77	790.57	-1,064.48	1,378.63	1,373.24	5.39	255.885		
900.00	889.64	995.34	993.22	3.53	2.96	-126.99	798.51	-1,048.78	1,386.67	1,380.37	6.29	220.290		
1,000.00	985.27	1,105.43	1,100.68	4.12	3.43	-127.01	811.74	-1,028.98	1,396.02	1,388.76	7.26	192.238		
1,100.00	1,079.82	1,210.79	1,202.15	4.75	3.93	-126.86	828.91	-1,006.41	1,406.84	1,398.55	8.30	169.581		
1,200.00	1,173.17	1,285.18	1,273.73	5.44	4.30	-126.73	841.81	-990.82	1,420.62	1,411.37	9.25	153.645		
1,300.00	1,265.21	1,458.03	1,439.27	6.18	5.23	-126.85	870.58	-950.38	1,433.77	1,423.01	10.76	133.214		
1,400.00	1,355.84	1,546.93	1,523.47	6.99	5.76	-126.79	886.79	-926.89	1,447.62	1,435.68	11.94	121.282		
1,500.00	1,444.94	1,612.98	1,585.91	7.87	6.16	-126.67	899.94	-909.88	1,464.97	1,451.95	13.03	112.434		
1,600.00	1,532.39	1,697.09	1,665.55	8.80	6.67	-126.62	917.64	-889.40	1,486.14	1,471.87	14.27	104.161		
1,700.00	1,618.11	1,817.98	1,780.77	9.81	7.39	-126.90	940.58	-860.93	1,509.16	1,493.41	15.75	95.791		
1,800.00	1,701.97	1,978.31	1,934.09	10.89	8.34	-127.71	964.37	-820.57	1,530.77	1,513.31	17.46	87.657		
1,900.00	1,783.88	2,062.95	2,015.37	12.04	8.83	-128.12	974.30	-799.17	1,553.38	1,534.63	18.75	82.844		
2,000.00	1,863.74	2,136.40	2,086.03	13.26	9.26	-128.43	983.32	-781.27	1,579.48	1,559.48	20.00	78.989		
2,100.00	1,941.45	2,100.00	2,190.82	14.55	9.04	-129.12	997.03	-754.56	1,608.09	1,587.40	20.68	77.746		
2,200.00	2,016.92	2,341.35	2,282.93	15.92	10.46	-129.72	1,008.18	-730.14	1,638.10	1,615.25	22.85	71.691		
2,292.11	2,084.36	2,392.60	2,332.28	17.25	10.75	-129.84	1,014.31	-717.80	1,669.31	1,645.38	23.93	69.756		
2,300.00	2,090.06	2,396.79	2,336.32	17.36	10.77	-129.89	1,014.83	-716.83	1,672.16	1,648.14	24.02	69.607		
2,400.00	2,162.18	2,451.72	2,389.44	18.84	11.08	-130.58	1,021.86	-704.69	1,709.52	1,684.35	25.17	67.931		
2,500.00	2,234.31	2,513.28	2,449.00	20.33	11.42	-131.31	1,030.51	-691.79	1,748.83	1,722.52	26.32	66.449		
2,600.00	2,306.43	2,572.31	2,506.21	21.83	11.74	-132.00	1,039.29	-680.18	1,789.98	1,762.55	27.43	65.264		
2,700.00	2,378.56	2,757.39	2,684.36	23.33	12.81	-133.90	1,068.92	-639.90	1,830.61	1,801.23	29.38	62.309		
2,800.00	2,450.68	2,819.73	2,743.88	24.84	13.19	-134.48	1,079.12	-624.44	1,868.93	1,838.40	30.53	61.222		
2,900.00	2,522.81	2,916.38	2,836.91	26.36	13.76	-135.41	1,093.70	-602.72	1,909.15	1,877.30	31.85	59.934		
3,000.00	2,594.93	3,036.26	2,952.31	27.88	14.46	-136.57	1,108.65	-573.91	1,947.49	1,914.22	33.27	58.536		
3,100.00	2,667.06	3,120.63	3,033.31	29.40	14.96	-137.34	1,119.86	-553.13	1,986.04	1,951.57	34.47	57.616		
3,200.00	2,739.18	3,173.61	3,084.08	30.92	15.27	-137.78	1,127.80	-540.26	2,025.73	1,990.27	35.46	57.125		
3,300.00	2,811.31	3,228.58	3,137.08	32.45	15.59	-138.24	1,135.88	-528.09	2,067.38	2,030.95	36.43	56.749		
3,400.00	2,883.43	3,413.07	3,314.66	33.98	16.67	-139.74	1,161.70	-485.35	2,108.85	2,070.62	38.23	55.161		
3,500.00	2,955.56	3,445.03	3,345.54	35.51	16.84	-140.01	1,165.39	-477.99	2,149.09	2,110.08	39.01	55.095		
3,600.00	3,027.68	3,494.75	3,393.80	37.04	17.12	-140.44	1,170.79	-467.31	2,191.31	2,151.45	39.85	54.986		
3,700.00	3,099.81	3,577.13	3,473.68	38.57	17.57	-141.10	1,181.04	-449.96	2,234.60	2,193.70	40.90	54.640		
3,800.00	3,171.93	3,692.41	3,584.66	40.11	18.24	-141.90	1,198.56	-424.22	2,277.60	2,235.37	42.22	53.943		
3,900.00	3,244.06	3,811.44	3,698.97	41.64	18.95	-142.67	1,216.58	-396.33	2,319.90	2,276.33	43.57	53.244		
4,000.00	3,316.18	3,871.22	3,756.35	43.18	19.30	-143.05	1,225.23	-381.97	2,361.85	2,317.38	44.47	53.109		
4,100.00	3,388.31	3,908.48	3,792.40	44.71	19.50	-143.30	1,230.10	-373.94	2,405.77	2,360.60	45.17	53.259		
4,200.00	3,460.43	3,962.00	3,844.61	46.25	19.79	-143.69	1,236.29	-363.95	2,451.84	2,405.90	45.94	53.366		
4,300.00	3,532.56	4,049.56	3,930.15	47.79	20.24	-144.31	1,246.33	-348.16	2,498.97	2,452.05	46.92	53.262		
4,400.00	3,604.68	4,228.48	4,102.89	49.33	21.25	-145.33	1,273.02	-310.15	2,544.17	2,495.51	48.66	52.286		
4,500.00	3,676.81	4,368.19	4,235.93	50.87	22.13	-145.99	1,296.80	-274.79	2,585.71	2,535.53	50.18	51.527		
4,600.00	3,748.93	4,446.37	4,310.88	52.41	22.61	-146.39	1,307.98	-255.52	2,627.94	2,576.76	51.17	51.352		
4,700.00	3,821.06	4,536.78	4,397.41	53.95	23.16	-146.84	1,321.27	-232.99	2,670.14	2,617.89	52.25	51.101		
4,800.00	3,893.18	4,585.00	4,443.50	55.49	23.46	-147.05	1,328.92	-221.02	2,712.95	2,659.93	53.02	51.168		
4,900.00	3,965.31	4,637.24	4,493.59	57.03	23.76	-147.29	1,337.29	-208.76	2,757.08	2,703.29	53.80	51.250		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,675.00	4,530.01	58.58	23.99	-147.46	1,343.16	-200.73	2,802.99	2,748.56	54.43	51.495		
5,100.00	4,109.56	4,731.80	4,584.99	60.12	24.30	-147.73	1,351.87	-189.45	2,850.23	2,795.04	55.19	51.642		
5,200.00	4,181.68	5,028.74	4,871.80	61.66	25.99	-149.18	1,388.53	-122.42	2,894.91	2,837.28	57.63	50.234		
5,300.00	4,253.81	5,082.49	4,923.40	63.20	26.30	-149.43	1,394.73	-108.71	2,936.99	2,878.62	58.36	50.322		
5,400.00	4,325.93	5,120.00	4,959.51	64.75	26.53	-149.61	1,399.07	-99.53	2,980.34	2,921.37	58.97	50.539		
5,500.00	4,398.06	5,183.75	5,021.02	66.29	26.89	-149.89	1,406.79	-84.68	3,024.81	2,965.06	59.75	50.627		
5,600.00	4,470.18	5,231.28	5,066.98	67.84	27.16	-150.10	1,412.96	-74.23	3,070.55	3,010.15	60.40	50.838		
5,700.00	4,542.31	5,276.24	5,110.55	69.38	27.41	-150.28	1,419.00	-64.92	3,117.54	3,056.52	61.02	51.092		
5,800.00	4,614.43	5,371.03	5,202.53	70.92	27.93	-150.66	1,432.03	-46.10	3,165.43	3,103.41	62.02	51.035		
5,900.00	4,686.56	5,512.24	5,338.85	72.47	28.73	-151.16	1,453.41	-16.13	3,212.32	3,148.87	63.44	50.633		
6,000.00	4,758.68	6,000.00	5,470.36	74.01	31.59	-151.66	1,472.15	15.39	3,257.32	3,190.88	66.43	49.031		
6,100.00	4,830.81	5,703.33	5,522.84	75.56	29.84	-151.85	1,479.87	28.14	3,302.45	3,236.96	65.49	50.426		
6,200.00	4,902.93	5,745.91	5,563.95	77.10	30.09	-151.99	1,485.87	37.43	3,348.89	3,282.80	66.09	50.672		
6,300.00	4,975.06	6,300.00	5,693.58	78.65	33.20	-152.48	1,502.55	66.36	3,395.63	3,326.38	69.24	49.040		
6,400.00	5,047.18	5,969.97	5,780.68	80.19	31.35	-152.80	1,513.66	86.97	3,441.23	3,372.94	68.29	50.389		
6,500.00	5,119.31	6,018.36	5,827.38	81.74	31.63	-152.95	1,520.50	97.64	3,487.70	3,418.78	68.93	50.600		
6,600.00	5,191.43	6,084.70	5,891.41	83.28	32.00	-153.14	1,530.57	111.78	3,534.96	3,465.24	69.72	50.705		
6,700.00	5,263.56	6,128.21	5,933.45	84.83	32.25	-153.27	1,537.37	120.73	3,582.98	3,512.68	70.30	50.966		
6,800.00	5,335.68	6,164.88	5,969.01	86.37	32.44	-153.37	1,542.83	127.75	3,632.23	3,561.43	70.81	51.297		
6,900.00	5,407.81	6,323.58	6,123.84	87.92	33.26	-153.94	1,559.54	158.06	3,681.60	3,609.40	72.20	50.995		
7,000.00	5,479.93	6,582.61	6,375.61	89.47	34.63	-154.96	1,577.90	215.81	3,728.19	3,654.12	74.07	50.335		
7,100.00	5,552.06	6,634.00	6,424.94	91.01	34.94	-155.10	1,584.68	228.52	3,772.80	3,698.08	74.72	50.494		
7,200.00	5,624.18	6,676.24	6,465.47	92.56	35.19	-155.19	1,591.09	238.53	3,818.45	3,743.14	75.31	50.704		
7,300.00	5,696.31	7,258.00	7,013.78	94.10	38.88	-156.90	1,648.76	410.64	3,853.45	3,774.22	79.23	48.635		
7,400.00	5,768.43	7,258.00	7,013.78	95.65	38.88	-156.90	1,648.76	410.64	3,889.57	3,809.92	79.65	48.833		
7,500.00	5,840.56	7,258.00	7,013.78	97.20	38.88	-156.90	1,648.76	410.64	3,927.91	3,847.88	80.02	49.085		
7,600.00	5,912.68	7,258.00	7,013.78	98.74	38.88	-156.90	1,648.76	410.64	3,968.39	3,888.04	80.35	49.389		
7,700.00	5,984.81	7,306.23	7,058.88	100.29	39.05	-157.25	1,638.96	424.59	4,009.15	3,928.56	80.58	49.751		
7,800.00	6,056.93	7,348.00	7,097.92	101.84	39.19	-157.59	1,627.54	434.03	4,053.35	3,972.58	80.76	50.188		
7,900.00	6,129.06	7,348.00	7,097.92	103.38	39.19	-157.59	1,627.54	434.03	4,098.18	4,017.18	81.00	50.596		
8,000.00	6,201.18	7,348.00	7,097.92	104.93	39.19	-157.59	1,627.54	434.03	4,144.94	4,063.75	81.19	51.050		
8,100.00	6,273.31	7,348.00	7,097.92	106.48	39.19	-157.59	1,627.54	434.03	4,193.56	4,112.21	81.35	51.547		
8,200.00	6,345.43	7,348.00	7,097.92	108.02	39.19	-157.59	1,627.54	434.03	4,243.99	4,162.51	81.48	52.086		
8,300.00	6,417.56	7,348.00	7,097.92	109.57	39.19	-157.59	1,627.54	434.03	4,296.15	4,214.57	81.58	52.663		
8,400.00	6,489.68	7,388.67	7,135.65	111.12	39.25	-157.96	1,614.08	440.99	4,348.82	4,267.25	81.56	53.317		
8,500.00	6,561.81	7,399.47	7,145.60	112.66	39.26	-158.06	1,610.16	442.50	4,403.54	4,321.95	81.59	53.970		
8,600.00	6,633.93	7,437.00	7,179.86	114.21	39.31	-158.42	1,595.42	446.64	4,460.22	4,378.69	81.53	54.708		
8,700.00	6,706.06	7,437.00	7,179.86	115.76	39.31	-158.42	1,595.42	446.64	4,517.41	4,435.87	81.54	55.398		
8,800.00	6,778.18	7,437.00	7,179.86	117.30	39.31	-158.42	1,595.42	446.64	4,576.08	4,494.54	81.54	56.121		
8,900.00	6,850.31	7,437.00	7,179.86	118.85	39.31	-158.42	1,595.42	446.64	4,636.16	4,554.64	81.51	56.875		
9,000.00	6,922.43	7,437.00	7,179.86	120.40	39.31	-158.42	1,595.42	446.64	4,697.60	4,616.13	81.47	57.659		
9,100.00	6,994.56	7,437.00	7,179.86	121.95	39.31	-158.42	1,595.42	446.64	4,760.35	4,678.94	81.41	58.471		
9,200.00	7,066.68	7,479.25	7,217.92	123.49	39.32	-158.85	1,577.36	449.67	4,823.51	4,742.26	81.25	59.368		
9,300.00	7,138.81	7,491.68	7,229.05	125.04	39.32	-158.97	1,571.84	450.32	4,888.14	4,807.00	81.14	60.241		
9,392.50	7,205.52	8,110.64	7,640.33	126.47	39.08	-166.62	1,144.20	521.75	4,945.97	4,868.27	77.69	63.663		
9,400.00	7,210.94	8,110.85	7,640.38	126.59	39.08	-167.97	1,144.00	521.79	4,950.57	4,872.88	77.69	63.724		
9,450.00	7,247.42	8,112.87	7,640.94	127.35	39.08	-177.13	1,142.09	522.14	4,981.33	4,903.67	77.67	64.137		
9,500.00	7,284.35	8,115.99	7,641.78	128.10	39.08	173.52	1,139.14	522.68	5,012.07	4,934.43	77.64	64.557		
9,550.00	7,321.43	8,149.00	7,650.10	128.83	39.07	163.81	1,107.64	528.03	5,042.84	4,965.45	77.39	65.161		
9,600.00	7,358.38	8,149.00	7,650.10	129.52	39.07	154.76	1,107.64	528.03	5,072.70	4,995.32	77.38	65.559		
9,650.00	7,394.93	8,149.00	7,650.10	130.16	39.07	146.11	1,107.64	528.03	5,101.83	5,024.47	77.36	65.950		
9,700.00	7,430.79	8,149.00	7,650.10	130.76	39.07	137.99	1,107.64	528.03	5,130.03	5,052.69	77.34	66.331		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	8,149.00	7,650.10	131.30	39.07	130.51	1,107.64	528.03	5,157.10	5,079.78	77.32	66.697		
9,800.00	7,499.38	8,149.00	7,650.10	131.78	39.07	123.73	1,107.64	528.03	5,182.85	5,105.54	77.31	67.043		
9,850.00	7,531.58	8,149.00	7,650.10	132.21	39.07	117.65	1,107.64	528.03	5,207.10	5,129.80	77.30	67.365		
9,900.00	7,562.06	8,149.00	7,650.10	132.57	39.07	112.26	1,107.64	528.03	5,229.70	5,152.40	77.30	67.656		
9,950.00	7,590.58	8,149.00	7,650.10	132.87	39.07	107.55	1,107.64	528.03	5,250.49	5,173.18	77.31	67.911		
10,000.00	7,616.93	8,183.29	7,657.71	133.11	39.03	103.33	1,074.56	532.81	5,268.76	5,191.66	77.10	68.335		
10,050.00	7,640.90	8,191.86	7,659.47	133.29	39.02	99.84	1,066.23	533.86	5,285.22	5,208.13	77.09	68.559		
10,100.00	7,662.32	8,200.70	7,661.22	133.42	39.01	96.91	1,057.63	534.89	5,299.42	5,222.32	77.10	68.735		
10,150.00	7,681.01	8,238.00	7,667.91	133.50	38.98	94.45	1,021.12	538.55	5,311.66	5,234.74	76.92	69.053		
10,200.00	7,696.85	8,238.00	7,667.91	133.52	38.98	92.57	1,021.12	538.55	5,320.85	5,243.80	77.05	69.055		
10,250.00	7,709.70	8,238.00	7,667.91	133.51	38.98	91.14	1,021.12	538.55	5,327.63	5,250.41	77.22	68.991		
10,300.00	7,719.47	8,238.00	7,667.91	133.46	38.98	90.14	1,021.12	538.55	5,331.95	5,254.52	77.43	68.857		
10,350.00	7,726.09	8,261.12	7,671.66	133.37	38.95	89.56	998.38	540.42	5,333.69	5,256.17	77.52	68.806		
10,400.00	7,729.50	8,284.78	7,675.40	133.26	38.93	89.43	975.09	542.23	5,332.70	5,255.07	77.64	68.689		
10,427.79	7,730.00	8,297.85	7,677.42	133.18	38.92	89.54	962.22	543.18	5,330.98	5,253.26	77.72	68.594		
10,500.00	7,730.00	8,327.00	7,681.80	132.98	38.89	89.59	933.46	545.18	5,325.70	5,247.70	77.99	68.286		
10,600.00	7,730.00	8,386.42	7,689.96	132.72	38.85	89.68	874.72	548.81	5,319.15	5,240.85	78.30	67.937		
10,700.00	7,730.00	8,417.00	7,693.68	132.47	38.84	89.72	844.41	550.46	5,313.56	5,234.75	78.81	67.419		
10,800.00	7,730.00	8,417.00	7,693.68	132.22	38.84	89.72	844.41	550.46	5,309.70	5,230.11	79.59	66.713		
10,900.00	7,730.00	8,458.24	7,697.78	131.99	38.80	89.76	803.40	551.83	5,306.77	5,226.66	80.11	66.243		
11,000.00	7,730.00	8,506.00	7,700.82	131.77	38.79	89.79	755.75	551.48	5,306.26	5,225.67	80.59	65.842		
11,044.02	7,730.00	8,506.00	7,700.82	131.67	38.79	89.79	755.75	551.48	5,306.08	5,225.10	80.97	65.528		
11,100.00	7,730.00	8,506.00	7,700.82	131.56	38.79	89.79	755.75	551.48	5,306.37	5,224.92	81.46	65.142		
11,200.00	7,730.00	8,506.00	7,700.82	131.36	38.79	89.79	755.75	551.48	5,308.37	5,226.00	82.37	64.447		
11,300.00	7,730.00	8,538.07	7,702.11	131.17	38.76	89.81	723.73	550.28	5,311.89	5,228.85	83.04	63.968		
11,400.00	7,730.00	8,595.00	7,703.72	130.99	38.73	89.82	666.93	546.85	5,317.11	5,233.57	83.54	63.644		
11,500.00	7,730.00	8,595.00	7,703.72	130.82	38.73	89.82	666.93	546.85	5,323.07	5,238.55	84.52	62.981		
11,600.00	7,730.00	9,091.78	7,716.31	130.66	39.65	89.96	170.88	528.13	5,327.50	5,243.58	83.92	63.483		
11,683.64	7,730.00	9,143.20	7,716.64	130.53	39.91	89.96	119.46	528.08	5,327.29	5,242.61	84.68	62.913		
11,700.00	7,730.00	9,152.49	7,716.71	130.51	39.96	89.96	110.18	528.04	5,327.31	5,242.48	84.83	62.803		
11,800.00	7,730.00	9,463.58	7,719.13	130.37	42.18	89.99	-200.83	530.78	5,327.29	5,240.13	87.16	61.122		
11,900.00	7,730.00	9,641.19	7,717.23	130.24	43.90	89.97	-378.28	538.19	5,322.77	5,233.38	89.39	59.547		
12,000.00	7,730.00	9,744.71	7,715.44	130.13	45.00	89.95	-481.65	543.34	5,317.45	5,226.34	91.11	58.366		
12,100.00	7,730.00	9,789.20	7,714.67	130.02	45.49	89.94	-526.08	545.36	5,312.64	5,220.42	92.22	57.608		
12,200.00	7,730.00	9,842.00	7,714.44	129.93	46.08	89.94	-578.86	547.03	5,308.99	5,215.53	93.46	56.806		
12,300.00	7,730.00	9,937.79	7,714.64	129.85	47.17	89.94	-674.62	549.59	5,305.96	5,210.69	95.27	55.693		
12,400.00	7,730.00	9,931.00	7,714.64	129.77	47.10	89.94	-667.83	549.39	5,303.75	5,207.94	95.82	55.354		
12,500.00	7,730.00	9,978.41	7,714.66	129.71	47.64	89.94	-715.23	550.07	5,302.50	5,205.44	97.06	54.630		
12,519.51	7,730.00	9,982.93	7,714.66	129.70	47.69	89.94	-719.75	550.06	5,302.48	5,205.23	97.25	54.524		
12,600.00	7,730.00	10,020.00	7,714.61	129.66	48.12	89.94	-756.82	549.50	5,303.08	5,204.84	98.25	53.978		
12,700.00	7,730.00	10,039.78	7,714.57	129.63	48.35	89.94	-776.59	548.98	5,304.81	5,205.64	99.17	53.492		
12,800.00	7,730.00	10,133.49	7,714.25	129.60	49.45	89.94	-870.27	546.44	5,307.18	5,206.11	101.07	52.512		
12,900.00	7,730.00	10,233.88	7,713.40	129.59	50.66	89.93	-970.61	543.55	5,309.73	5,206.61	103.12	51.491		
13,000.00	7,730.00	13,000.00	7,710.05	129.59	88.90	89.89	-1,186.73	540.05	5,310.93	5,168.38	142.55	37.256		
13,100.00	7,730.00	10,520.47	7,709.32	129.60	54.33	89.88	-1,257.13	539.67	5,311.23	5,202.37	108.86	48.791		
13,200.00	7,730.00	10,644.12	7,708.06	129.63	55.99	89.87	-1,380.76	537.97	5,312.37	5,200.77	111.60	47.601		
13,300.00	7,730.00	10,770.38	7,704.77	129.66	57.73	89.84	-1,506.97	537.66	5,312.24	5,197.76	114.49	46.400		
13,325.83	7,730.00	10,789.44	7,704.14	129.68	58.00	89.83	-1,526.02	537.60	5,312.23	5,197.23	114.99	46.197		
13,400.00	7,730.00	10,822.00	7,703.07	129.72	58.46	89.82	-1,558.57	537.46	5,312.42	5,196.41	116.01	45.792		
13,500.00	7,730.00	10,878.96	7,702.03	129.78	59.25	89.81	-1,615.51	536.76	5,313.45	5,195.79	117.66	45.160		
13,600.00	7,730.00	10,927.98	7,702.41	129.86	59.94	89.81	-1,664.51	535.54	5,315.56	5,196.39	119.17	44.605		
13,700.00	7,730.00	11,000.00	7,703.93	129.96	60.95	89.83	-1,736.48	533.17	5,318.47	5,197.32	121.15	43.899		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,730.00	11,320.30	7,714.50	130.07	65.59	89.94	-2,056.50	526.99	5,321.33	5,192.78	128.55	41.396		
13,900.00	7,730.00	11,409.93	7,716.15	130.19	66.94	89.96	-2,146.11	527.57	5,320.34	5,189.28	131.06	40.595		
14,000.00	7,730.00	11,512.10	7,717.56	130.33	68.48	89.97	-2,248.27	528.06	5,319.52	5,185.64	133.89	39.732		
14,100.00	7,730.00	11,621.50	7,718.69	130.49	70.15	89.99	-2,357.66	528.79	5,318.52	5,181.60	136.92	38.844		
14,200.00	7,730.00	11,692.42	7,719.02	130.67	71.24	89.99	-2,428.58	529.13	5,317.70	5,178.65	139.06	38.241		
14,282.55	7,730.00	11,746.57	7,718.99	130.83	72.07	89.99	-2,482.72	529.10	5,317.47	5,176.75	140.72	37.787		
14,300.00	7,730.00	11,757.58	7,718.96	130.86	72.24	89.99	-2,493.74	529.05	5,317.48	5,176.42	141.06	37.696		
14,400.00	7,730.00	14,400.00	7,718.37	131.07	113.89	89.98	-2,603.52	528.56	5,317.60	5,133.02	184.58	28.809		
14,500.00	7,730.00	11,980.00	7,717.09	131.30	75.69	89.97	-2,716.15	528.64	5,317.17	5,169.79	147.38	36.079		
14,600.00	7,730.00	12,065.51	7,715.64	131.55	77.03	89.95	-2,801.64	528.48	5,317.02	5,167.09	149.93	35.464		
14,700.00	7,730.00	12,228.99	7,712.63	131.82	79.61	89.92	-2,965.09	529.29	5,316.05	5,161.55	154.50	34.408		
14,800.00	7,730.00	12,316.27	7,710.74	132.11	81.00	89.90	-3,052.35	529.99	5,314.92	5,157.77	157.15	33.820		
14,900.00	7,730.00	12,369.51	7,709.31	132.42	81.85	89.88	-3,105.57	530.17	5,314.31	5,155.39	158.92	33.441		
14,909.78	7,730.00	12,373.74	7,709.21	132.45	81.92	89.88	-3,109.79	530.16	5,314.30	5,155.24	159.06	33.410		
15,000.00	7,730.00	12,426.00	7,708.09	132.75	82.75	89.87	-3,162.04	529.65	5,314.78	5,154.01	160.77	33.059		
15,100.00	7,730.00	12,471.03	7,707.37	133.10	83.46	89.86	-3,207.06	528.81	5,316.14	5,153.83	162.31	32.753		
15,200.00	7,730.00	12,568.73	7,706.91	133.48	85.01	89.86	-3,304.73	526.54	5,318.13	5,152.85	165.27	32.178		
15,300.00	7,730.00	12,960.00	7,710.43	133.88	91.34	89.90	-3,695.92	527.40	5,318.68	5,142.29	176.39	30.153		
15,400.00	7,730.00	13,014.73	7,710.60	134.31	92.24	89.90	-3,750.62	529.15	5,315.28	5,137.01	178.27	29.816		
15,500.00	7,730.00	13,049.00	7,710.59	134.76	92.81	89.90	-3,784.88	529.85	5,313.00	5,133.44	179.56	29.588		
15,600.00	7,730.00	13,110.56	7,710.54	135.23	93.82	89.90	-3,846.43	530.51	5,311.66	5,130.04	181.62	29.246		
15,700.00	7,730.00	15,700.00	7,710.45	135.73	136.71	89.90	-3,952.66	531.10	5,310.77	5,084.29	226.49	23.449		
15,800.00	7,730.00	13,274.06	7,710.63	136.26	96.50	89.90	-4,009.93	531.43	5,310.00	5,123.11	186.89	28.413		
15,815.67	7,730.00	13,279.99	7,710.71	136.34	96.60	89.90	-4,015.86	531.41	5,309.98	5,122.88	187.11	28.380		
15,900.00	7,730.00	13,317.00	7,711.51	136.81	97.21	89.91	-4,052.86	531.08	5,310.41	5,121.99	188.41	28.185		
16,000.00	7,730.00	13,404.41	7,714.19	137.39	98.64	89.94	-4,140.22	529.78	5,311.53	5,120.29	191.23	27.775		
16,100.00	7,730.00	13,532.45	7,718.20	138.00	100.74	89.98	-4,268.18	528.27	5,312.37	5,117.10	195.26	27.206		
16,200.00	7,730.00	13,791.14	7,724.78	138.63	105.05	90.05	-4,526.78	529.61	5,311.56	5,108.37	203.19	26.141		
16,300.00	7,730.00	13,923.69	7,727.22	139.30	107.27	90.08	-4,659.27	532.68	5,308.92	5,101.51	207.41	25.596		
16,400.00	7,730.00	13,940.00	7,727.43	139.99	107.55	90.08	-4,675.57	533.12	5,306.58	5,098.40	208.18	25.490		
16,500.00	7,730.00	13,997.15	7,728.07	140.70	108.50	90.09	-4,732.71	533.99	5,305.08	5,094.93	210.15	25.244		
16,600.00	7,730.00	14,187.25	7,729.93	141.45	111.70	90.11	-4,922.76	536.61	5,303.14	5,087.01	216.13	24.537		
16,700.00	7,730.00	14,239.24	7,730.32	142.22	112.58	90.11	-4,974.75	537.40	5,301.29	5,083.33	217.96	24.323		
16,800.00	7,730.00	14,297.00	7,730.67	143.03	113.55	90.12	-5,032.50	537.74	5,300.32	5,080.37	219.95	24.098		
16,832.29	7,730.00	14,297.00	7,730.67	143.29	113.55	90.12	-5,032.50	537.74	5,300.22	5,080.20	220.02	24.090		
16,900.00	7,730.00	14,326.83	7,730.79	143.86	114.04	90.12	-5,062.33	537.60	5,300.40	5,079.33	221.07	23.976		
17,000.00	7,730.00	14,386.00	7,730.83	144.71	115.03	90.12	-5,121.49	536.29	5,301.96	5,078.88	223.07	23.768		
17,100.00	7,730.00	14,401.40	7,730.80	145.60	115.29	90.12	-5,136.88	535.77	5,304.36	5,080.66	223.70	23.712		
17,200.00	7,730.00	14,558.59	7,730.61	146.51	117.90	90.11	-5,293.98	530.68	5,307.46	5,078.71	228.75	23.202		
17,300.00	7,730.00	14,776.55	7,730.28	147.44	121.56	90.11	-5,511.93	528.64	5,307.71	5,071.99	235.72	22.517		
17,400.00	7,730.00	17,400.00	7,729.38	148.40	166.40	90.10	-5,721.68	530.61	5,306.41	5,022.45	283.95	18.688		
17,500.00	7,730.00	15,061.71	7,729.04	149.39	126.40	90.10	-5,797.06	532.13	5,304.13	5,059.12	245.01	21.649		
17,600.00	7,730.00	15,108.50	7,728.76	150.40	127.20	90.09	-5,843.84	532.59	5,302.80	5,056.13	246.67	21.497		
17,700.00	7,730.00	15,163.00	7,728.33	151.44	128.12	90.09	-5,898.34	532.54	5,302.49	5,053.93	248.56	21.332		
17,741.62	7,730.00	15,379.16	7,731.55	151.87	131.82	90.12	-6,114.42	535.87	5,301.25	5,045.80	255.45	20.753		
17,800.00	7,730.00	15,417.04	7,732.35	152.50	132.47	90.13	-6,152.28	536.90	5,299.46	5,042.68	256.78	20.638		
17,900.00	7,730.00	15,506.81	7,734.14	153.58	134.01	90.15	-6,242.00	539.05	5,296.73	5,036.90	259.83	20.385		
18,000.00	7,730.00	18,000.00	7,736.32	154.68	176.98	90.18	-6,351.53	541.79	5,293.89	4,989.10	304.79	17.369		
18,100.00	7,730.00	15,677.05	7,737.59	155.80	136.93	90.19	-6,412.16	543.13	5,291.37	5,025.72	265.64	19.919		
18,200.00	7,730.00	15,732.52	7,738.73	156.95	137.89	90.20	-6,467.62	543.90	5,289.66	5,022.06	267.60	19.767		
18,300.00	7,730.00	15,786.00	7,739.84	158.11	138.80	90.21	-6,521.08	544.17	5,288.82	5,019.34	269.48	19.626		
18,351.94	7,730.00	15,808.86	7,740.30	158.72	139.19	90.22	-6,543.93	544.13	5,288.76	5,018.47	270.29	19.567		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,400.00	7,730.00	15,829.60	7,740.72	159.30	139.54	90.22	-6,564.67	543.97	5,288.96	5,017.94	271.02	19.515		
18,500.00	7,730.00	15,875.00	7,741.59	160.50	140.32	90.23	-6,610.06	543.26	5,290.17	5,017.58	272.59	19.407		
18,600.00	7,730.00	15,912.07	7,742.29	161.72	140.94	90.24	-6,647.11	542.27	5,292.49	5,018.63	273.86	19.325		
18,700.00	7,730.00	15,964.00	7,743.28	162.96	141.82	90.25	-6,698.99	540.20	5,296.00	5,020.39	275.60	19.216		
18,800.00	7,730.00	16,264.94	7,745.76	164.21	146.93	90.28	-6,999.80	533.20	5,298.16	5,012.51	285.65	18.548		
18,900.00	7,730.00	16,346.95	7,746.01	165.48	148.33	90.28	-7,081.81	532.82	5,298.30	5,009.86	288.44	18.369		
19,000.00	7,730.00	16,423.22	7,746.24	166.76	149.64	90.28	-7,158.08	532.08	5,298.92	5,007.88	291.04	18.207		
19,100.00	7,730.00	16,538.13	7,746.54	168.06	151.60	90.29	-7,272.98	531.03	5,299.48	5,004.57	294.91	17.970		
19,200.00	7,730.00	16,652.81	7,746.68	169.38	153.57	90.29	-7,387.66	530.10	5,299.97	5,001.19	298.79	17.738		
19,300.00	7,730.00	16,766.26	7,747.04	170.70	155.51	90.29	-7,501.11	529.64	5,300.04	4,997.41	302.63	17.513		
19,307.56	7,730.00	16,774.41	7,747.07	170.80	155.65	90.29	-7,509.26	529.61	5,300.04	4,997.13	302.90	17.497		
19,400.00	7,730.00	16,839.82	7,747.26	172.04	156.78	90.29	-7,574.67	529.22	5,300.27	4,995.12	305.15	17.369		
19,500.00	7,730.00	16,931.63	7,747.46	173.40	158.35	90.30	-7,666.47	528.36	5,300.87	4,992.59	308.27	17.195		
19,600.00	7,730.00	17,030.45	7,747.34	174.76	160.05	90.30	-7,765.29	527.38	5,301.52	4,989.88	311.63	17.012		
19,700.00	7,730.00	17,133.70	7,746.70	176.14	161.82	90.29	-7,868.53	526.39	5,302.14	4,987.00	315.14	16.825		
19,800.00	7,730.00	17,243.04	7,745.27	177.52	163.70	90.27	-7,977.86	525.35	5,302.75	4,983.91	318.85	16.631		
19,900.00	7,730.00	17,331.36	7,743.78	178.92	165.22	90.26	-8,066.16	524.84	5,303.02	4,981.16	321.86	16.476		
20,000.00	7,730.00	17,390.00	7,743.33	180.33	166.23	90.25	-8,124.79	523.88	5,304.21	4,980.35	323.86	16.378		
20,100.00	7,730.00	17,507.45	7,743.34	181.75	168.24	90.25	-8,242.22	521.97	5,305.50	4,977.64	327.86	16.182		
20,184.95	7,730.00	17,568.00	7,743.51	182.96	169.28	90.25	-8,302.77	520.92	5,306.66	4,976.73	329.93	16.084 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.68	787.25	-1,070.98	1,329.23					
100.00	100.00	83.16	83.16	0.13	0.14	-53.68	787.45	-1,071.09	1,329.42	1,329.15	0.27	4,859.209 ES		
200.00	199.98	175.53	175.52	0.49	0.29	-124.14	788.15	-1,071.50	1,331.20	1,330.42	0.78	1,696.911		
300.00	299.84	267.76	267.74	0.86	0.45	-124.22	789.34	-1,072.19	1,335.52	1,334.21	1.30	1,025.289		
400.00	399.45	361.39	361.36	1.23	0.69	-124.36	791.02	-1,073.18	1,342.35	1,340.43	1.92	700.455		
500.00	498.70	456.65	456.59	1.63	1.03	-124.59	792.95	-1,074.42	1,351.52	1,348.88	2.65	510.942		
600.00	597.47	551.36	551.26	2.05	1.37	-124.88	795.03	-1,075.86	1,363.03	1,359.65	3.39	402.298		
700.00	695.62	677.75	677.57	2.51	1.82	-125.36	799.17	-1,076.01	1,376.20	1,371.94	4.26	323.027		
800.00	793.06	826.78	825.93	3.00	2.36	-125.74	809.30	-1,066.75	1,388.17	1,382.92	5.25	264.526		
900.00	889.64	1,059.57	1,054.75	3.53	3.30	-126.07	830.86	-1,030.66	1,396.23	1,389.59	6.63	210.491		
1,000.00	985.27	1,220.66	1,209.80	4.12	4.09	-126.12	846.35	-989.89	1,397.51	1,389.64	7.87	177.573		
1,100.00	1,079.82	1,303.98	1,289.23	4.75	4.54	-126.11	856.01	-966.70	1,400.39	1,391.54	8.85	158.248		
1,200.00	1,173.17	1,371.29	1,353.60	5.44	4.91	-126.10	864.76	-949.06	1,407.38	1,397.58	9.80	143.572		
1,300.00	1,265.21	1,504.83	1,481.34	6.18	5.68	-126.31	882.20	-914.28	1,416.77	1,405.64	11.13	127.272		
1,400.00	1,355.84	1,605.50	1,576.87	6.99	6.29	-126.46	895.46	-885.40	1,425.94	1,413.58	12.36	115.343		
1,500.00	1,444.94	1,673.33	1,641.20	7.87	6.70	-126.51	905.47	-866.42	1,438.74	1,425.27	13.47	106.845		
1,600.00	1,532.39	1,741.86	1,706.53	8.80	7.12	-126.58	916.34	-848.81	1,456.04	1,441.44	14.60	99.710		
1,700.00	1,618.11	1,847.48	1,807.09	9.81	7.76	-126.87	934.07	-821.81	1,476.18	1,460.19	15.99	92.291		
1,800.00	1,701.97	1,964.25	1,918.01	10.89	8.49	-127.30	953.10	-790.63	1,497.31	1,479.82	17.49	85.589		
1,900.00	1,783.88	2,086.68	2,034.67	12.04	9.25	-127.96	970.07	-757.66	1,519.40	1,500.37	19.03	79.845		
2,000.00	1,863.74	2,153.35	2,098.41	13.26	9.65	-128.20	978.70	-740.11	1,543.93	1,523.67	20.26	76.214		
2,100.00	1,941.45	2,262.75	2,203.12	14.55	10.32	-128.91	992.91	-711.80	1,571.43	1,549.69	21.74	72.290		
2,200.00	2,016.92	2,323.30	2,261.18	15.92	10.68	-129.11	1,000.60	-696.42	1,601.71	1,578.76	22.95	69.801		
2,292.11	2,084.36	2,418.86	2,353.09	17.25	11.24	-129.79	1,012.50	-673.14	1,632.71	1,608.43	24.28	67.245		
2,300.00	2,090.06	2,429.22	2,363.05	17.36	11.30	-129.92	1,013.70	-670.55	1,635.40	1,610.99	24.41	67.007		
2,400.00	2,162.18	2,494.37	2,425.80	18.84	11.68	-130.75	1,021.14	-654.66	1,670.22	1,644.61	25.61	65.216		
2,500.00	2,234.31	2,558.07	2,487.37	20.33	12.04	-131.55	1,028.55	-640.14	1,706.99	1,680.22	26.77	63.769		
2,600.00	2,306.43	2,617.03	2,544.57	21.83	12.36	-132.29	1,035.38	-627.54	1,745.54	1,717.68	27.86	62.660		
2,700.00	2,378.56	2,667.06	2,593.30	23.33	12.62	-132.90	1,041.25	-617.86	1,786.32	1,757.47	28.85	61.918		
2,800.00	2,450.68	2,745.20	2,669.75	24.84	13.01	-133.88	1,049.79	-604.22	1,828.90	1,798.95	29.96	61.048		
2,900.00	2,522.81	2,841.91	2,764.70	26.36	13.48	-135.11	1,058.02	-587.76	1,871.75	1,840.63	31.12	60.151		
3,000.00	2,594.93	2,952.38	2,873.02	27.88	14.01	-136.45	1,066.91	-567.96	1,914.33	1,882.01	32.32	59.222		
3,100.00	2,667.06	3,058.75	2,976.88	29.40	14.56	-137.64	1,076.49	-547.12	1,956.34	1,922.82	33.52	58.359		
3,200.00	2,739.18	3,162.86	3,077.99	30.92	15.12	-138.67	1,087.88	-525.07	1,997.98	1,963.25	34.74	57.519		
3,300.00	2,811.31	3,273.65	3,185.35	32.45	15.73	-139.71	1,099.87	-500.48	2,039.13	2,003.15	35.98	56.675		
3,400.00	2,883.43	3,365.15	3,273.81	33.98	16.25	-140.53	1,109.83	-479.32	2,079.85	2,042.75	37.10	56.061		
3,500.00	2,955.56	3,433.98	3,340.32	35.51	16.64	-141.11	1,117.85	-463.51	2,121.23	2,083.16	38.07	55.712		
3,600.00	3,027.68	3,495.99	3,400.30	37.04	16.99	-141.60	1,125.66	-449.88	2,163.94	2,124.95	38.99	55.494		
3,700.00	3,099.81	3,565.73	3,467.83	38.57	17.37	-142.14	1,134.88	-435.12	2,207.73	2,167.78	39.95	55.262		
3,800.00	3,171.93	3,645.54	3,545.23	40.11	17.81	-142.74	1,145.35	-418.69	2,252.26	2,211.31	40.96	54.992		
3,900.00	3,244.06	3,757.07	3,653.54	41.64	18.41	-143.58	1,158.60	-395.66	2,296.80	2,254.65	42.14	54.499		
4,000.00	3,316.18	3,864.63	3,758.04	43.18	18.99	-144.40	1,169.37	-372.54	2,340.48	2,297.22	43.26	54.107		
4,100.00	3,388.31	3,949.88	3,840.81	44.71	19.46	-145.03	1,177.77	-353.97	2,384.17	2,339.95	44.22	53.917		
4,200.00	3,460.43	4,016.58	3,905.58	46.25	19.82	-145.50	1,184.64	-339.63	2,428.42	2,383.36	45.06	53.894		
4,300.00	3,532.56	4,087.63	3,974.72	47.79	20.20	-145.99	1,191.98	-324.98	2,473.66	2,427.75	45.91	53.878		
4,400.00	3,604.68	4,200.21	4,084.07	49.33	20.81	-146.70	1,204.93	-301.54	2,519.19	2,472.13	47.06	53.534		
4,500.00	3,676.81	4,332.64	4,211.80	50.87	21.57	-147.44	1,222.25	-271.16	2,563.09	2,514.71	48.38	52.980		
4,600.00	3,748.93	4,423.76	4,299.79	52.41	22.09	-147.96	1,232.65	-249.92	2,606.69	2,557.31	49.38	52.791		
4,700.00	3,821.06	4,714.57	4,576.20	53.95	23.95	-149.35	1,271.01	-168.68	2,645.59	2,593.85	51.75	51.125		
4,800.00	3,893.18	4,765.00	4,623.45	55.49	24.30	-149.55	1,278.96	-152.95	2,682.88	2,630.29	52.59	51.015		
4,900.00	3,965.31	4,804.84	4,660.99	57.03	24.56	-149.70	1,285.20	-141.18	2,721.85	2,668.53	53.32	51.043		
5,000.00	4,037.43	4,854.00	4,707.76	58.58	24.89	-149.89	1,292.88	-128.11	2,763.07	2,708.97	54.10	51.074		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,877.43	4,730.16	60.12	25.03	-149.99	1,296.53	-122.32	2,805.85	2,751.20	54.65	51.343		
5,200.00	4,181.68	4,943.00	4,793.03	61.66	25.42	-150.24	1,306.71	-106.72	2,850.09	2,794.59	55.50	51.354		
5,300.00	4,253.81	5,064.96	4,909.76	63.20	26.17	-150.70	1,326.03	-77.15	2,894.10	2,837.30	56.80	50.955		
5,400.00	4,325.93	5,142.67	4,983.88	64.75	26.65	-150.96	1,339.17	-57.84	2,937.73	2,879.97	57.76	50.861		
5,500.00	4,398.06	5,210.00	5,048.47	66.29	27.06	-151.21	1,349.24	-41.73	2,982.07	2,923.47	58.60	50.885		
5,600.00	4,470.18	5,259.07	5,095.80	67.84	27.34	-151.40	1,355.78	-30.53	3,027.36	2,968.09	59.27	51.080		
5,700.00	4,542.31	5,314.12	5,149.05	69.38	27.65	-151.63	1,362.91	-18.56	3,073.72	3,013.76	59.96	51.267		
5,800.00	4,614.43	5,375.03	5,208.20	70.92	27.98	-151.88	1,370.09	-5.91	3,120.96	3,060.30	60.66	51.450		
5,900.00	4,686.56	5,595.76	5,422.38	72.47	29.19	-152.84	1,392.61	42.34	3,167.94	3,105.48	62.46	50.720		
6,000.00	4,758.68	5,655.00	5,479.40	74.01	29.53	-153.06	1,399.76	56.72	3,212.34	3,149.16	63.18	50.848		
6,100.00	4,830.81	5,721.74	5,543.62	75.56	29.92	-153.29	1,408.79	72.48	3,257.48	3,193.52	63.96	50.928		
6,200.00	4,902.93	5,744.00	5,565.05	77.10	30.06	-153.36	1,411.93	77.59	3,303.79	3,239.40	64.39	51.311		
6,300.00	4,975.06	5,798.15	5,617.42	78.65	30.35	-153.54	1,419.30	89.23	3,351.19	3,286.14	65.04	51.521		
6,400.00	5,047.18	5,833.00	5,651.33	80.19	30.54	-153.66	1,423.68	95.97	3,400.20	3,334.68	65.52	51.893		
6,500.00	5,119.31	5,883.63	5,700.76	81.74	30.80	-153.84	1,429.66	105.13	3,450.37	3,384.27	66.10	52.198		
6,600.00	5,191.43	6,065.30	5,877.86	83.28	31.74	-154.49	1,450.04	140.06	3,499.44	3,431.73	67.71	51.681		
6,700.00	5,263.56	6,184.64	5,993.95	84.83	32.38	-154.90	1,462.93	164.47	3,547.84	3,479.02	68.81	51.557		
6,800.00	5,335.68	6,457.00	6,255.75	86.37	33.99	-155.73	1,495.74	231.03	3,591.45	3,520.36	71.10	50.515		
6,900.00	5,407.81	6,513.55	6,309.16	87.92	34.36	-155.82	1,506.66	246.02	3,634.65	3,562.77	71.88	50.563		
7,000.00	5,479.93	6,546.00	6,339.95	89.47	34.57	-155.87	1,512.98	254.11	3,679.23	3,606.79	72.44	50.790		
7,100.00	5,552.06	6,610.04	6,400.99	91.01	34.96	-155.98	1,524.86	269.40	3,724.75	3,651.49	73.26	50.845		
7,200.00	5,624.18	6,940.90	6,716.41	92.56	37.05	-156.73	1,572.88	356.55	3,768.37	3,692.27	76.10	49.518		
7,300.00	5,696.31	6,992.00	6,764.60	94.10	37.40	-156.83	1,580.95	371.48	3,809.02	3,732.20	76.82	49.586		
7,400.00	5,768.43	7,035.33	6,805.65	95.65	37.68	-156.92	1,587.60	383.68	3,850.72	3,773.27	77.45	49.719		
7,500.00	5,840.56	7,081.00	6,849.25	97.20	37.97	-157.02	1,593.64	395.85	3,893.69	3,815.62	78.07	49.874		
7,600.00	5,912.68	7,151.16	6,916.66	98.74	38.38	-157.23	1,600.41	414.02	3,937.48	3,858.68	78.80	49.969		
7,700.00	5,984.81	7,237.88	7,000.33	100.29	38.87	-157.54	1,604.62	436.43	3,981.41	3,901.87	79.54	50.056		
7,800.00	6,056.93	7,303.63	7,063.87	101.84	39.22	-157.80	1,605.71	453.27	4,025.63	3,945.53	80.11	50.254		
7,900.00	6,129.06	7,878.85	7,586.99	103.38	41.59	-162.05	1,464.76	624.07	4,064.75	3,985.05	79.69	51.005		
8,000.00	6,201.18	7,883.00	7,590.33	104.93	41.61	-162.09	1,462.70	625.42	4,101.13	4,021.08	80.05	51.234		
8,100.00	6,273.31	7,928.60	7,626.35	106.48	41.71	-162.58	1,438.59	639.57	4,138.89	4,058.78	80.11	51.665		
8,200.00	6,345.43	7,972.00	7,659.34	108.02	41.82	-163.08	1,413.19	651.77	4,178.73	4,098.59	80.14	52.141		
8,300.00	6,417.56	7,972.00	7,659.34	109.57	41.82	-163.08	1,413.19	651.77	4,219.92	4,139.50	80.42	52.472		
8,400.00	6,489.68	7,972.00	7,659.34	111.12	41.82	-163.08	1,413.19	651.77	4,263.07	4,182.40	80.67	52.848		
8,500.00	6,561.81	7,972.00	7,659.34	112.66	41.82	-163.08	1,413.19	651.77	4,308.10	4,227.23	80.88	53.269		
8,600.00	6,633.93	8,012.57	7,688.91	114.21	41.87	-163.56	1,387.34	661.94	4,354.21	4,273.41	80.80	53.887		
8,700.00	6,706.06	8,025.07	7,697.74	115.76	41.88	-163.71	1,378.98	664.79	4,402.29	4,321.41	80.88	54.431		
8,800.00	6,778.18	8,061.00	7,722.40	117.30	41.93	-164.16	1,353.95	672.30	4,452.23	4,371.46	80.78	55.116		
8,900.00	6,850.31	8,061.00	7,722.40	118.85	41.93	-164.16	1,353.95	672.30	4,503.26	4,422.37	80.89	55.675		
9,000.00	6,922.43	8,061.00	7,722.40	120.40	41.93	-164.16	1,353.95	672.30	4,555.91	4,474.94	80.97	56.269		
9,100.00	6,994.56	8,061.00	7,722.40	121.95	41.93	-164.16	1,353.95	672.30	4,610.13	4,529.10	81.02	56.899		
9,200.00	7,066.68	8,061.00	7,722.40	123.49	41.93	-164.16	1,353.95	672.30	4,665.86	4,584.80	81.06	57.562		
9,300.00	7,138.81	8,061.00	7,722.40	125.04	41.93	-164.16	1,353.95	672.30	4,723.05	4,641.97	81.07	58.256		
9,392.50	7,205.52	8,061.00	7,722.40	126.47	41.93	-164.16	1,353.95	672.30	4,777.20	4,696.13	81.07	58.926		
9,400.00	7,210.94	8,061.00	7,722.40	126.59	41.93	-165.47	1,353.95	672.30	4,781.64	4,700.57	81.07	58.981		
9,450.00	7,247.42	8,061.00	7,722.40	127.35	41.93	-174.42	1,353.95	672.30	4,811.45	4,730.38	81.07	59.351		
9,500.00	7,284.35	8,061.00	7,722.40	128.10	41.93	176.41	1,353.95	672.30	4,841.41	4,760.35	81.07	59.721		
9,550.00	7,321.43	8,061.00	7,722.40	128.83	41.93	167.20	1,353.95	672.30	4,871.30	4,790.23	81.07	60.090		
9,600.00	7,358.38	8,061.00	7,722.40	129.52	41.93	158.15	1,353.95	672.30	4,900.89	4,819.82	81.07	60.454		
9,650.00	7,394.93	8,099.25	7,747.74	130.16	41.93	149.19	1,326.02	678.65	4,928.73	4,847.86	80.87	60.947		
9,700.00	7,430.79	8,103.73	7,750.67	130.76	41.93	141.01	1,322.69	679.25	4,956.77	4,875.92	80.85	61.308		
9,750.00	7,465.70	8,108.43	7,753.73	131.30	41.93	133.45	1,319.18	679.86	4,983.83	4,902.99	80.84	61.654		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,150.00	7,780.38	131.78	41.93	126.45	1,287.52	683.79	5,010.85	4,930.23	80.63	62.148		
9,850.00	7,531.58	8,150.00	7,780.38	132.21	41.93	120.30	1,287.52	683.79	5,035.09	4,954.44	80.65	62.430		
9,900.00	7,562.06	8,150.00	7,780.38	132.57	41.93	114.84	1,287.52	683.79	5,057.84	4,977.15	80.69	62.682		
9,950.00	7,590.58	8,150.00	7,780.38	132.87	41.93	110.04	1,287.52	683.79	5,078.96	4,998.21	80.75	62.900		
10,000.00	7,616.93	8,150.00	7,780.38	133.11	41.93	105.85	1,287.52	683.79	5,098.29	5,017.46	80.83	63.077		
10,050.00	7,640.90	8,150.00	7,780.38	133.29	41.93	102.26	1,287.52	683.79	5,115.71	5,034.78	80.93	63.210		
10,100.00	7,662.32	8,150.00	7,780.38	133.42	41.93	99.21	1,287.52	683.79	5,131.12	5,050.05	81.07	63.292		
10,150.00	7,681.01	8,150.00	7,780.38	133.50	41.93	96.67	1,287.52	683.79	5,144.41	5,063.16	81.24	63.320		
10,200.00	7,696.85	8,150.00	7,780.38	133.52	41.93	94.61	1,287.52	683.79	5,155.49	5,074.03	81.46	63.290		
10,250.00	7,709.70	8,150.00	7,780.38	133.51	41.93	93.00	1,287.52	683.79	5,164.31	5,082.59	81.72	63.198		
10,300.00	7,719.47	8,184.60	7,801.60	133.46	41.89	92.00	1,260.26	685.68	5,170.34	5,088.55	81.78	63.219		
10,350.00	7,726.09	8,195.66	7,808.11	133.37	41.88	91.32	1,251.34	686.14	5,174.12	5,092.07	82.05	63.061		
10,400.00	7,729.50	8,206.50	7,814.38	133.26	41.87	91.05	1,242.50	686.53	5,175.44	5,093.08	82.36	62.840		
10,427.79	7,730.00	8,239.00	7,832.39	133.18	41.84	91.24	1,215.46	687.29	5,175.36	5,093.02	82.34	62.854		
10,500.00	7,730.00	8,239.00	7,832.39	132.98	41.84	91.24	1,215.46	687.29	5,173.69	5,090.71	82.98	62.350		
10,600.00	7,730.00	8,270.40	7,848.59	132.72	41.79	91.42	1,188.57	687.69	5,172.91	5,089.28	83.63	61.855		
10,625.49	7,730.00	8,287.26	7,856.76	132.65	41.77	91.51	1,173.82	687.86	5,172.88	5,089.16	83.72	61.788		
10,700.00	7,730.00	8,337.51	7,878.80	132.47	41.70	91.76	1,128.68	688.21	5,173.09	5,089.15	83.94	61.629		
10,800.00	7,730.00	8,402.12	7,900.46	132.22	41.60	92.00	1,067.86	688.13	5,174.05	5,089.83	84.22	61.435		
10,900.00	7,730.00	8,457.48	7,913.30	131.99	41.51	92.14	1,014.03	687.48	5,175.80	5,091.22	84.58	61.196		
11,000.00	7,730.00	8,596.00	7,934.99	131.77	41.33	92.38	877.31	684.56	5,178.43	5,094.33	84.10	61.578		
11,100.00	7,730.00	8,654.26	7,939.91	131.56	41.28	92.43	819.27	683.46	5,180.34	5,095.85	84.49	61.315		
11,200.00	7,730.00	8,949.47	7,940.35	131.36	41.35	92.44	524.24	681.18	5,180.79	5,097.40	83.39	62.126		
11,300.00	7,730.00	9,033.38	7,936.35	131.17	41.49	92.39	440.43	681.84	5,179.47	5,095.55	83.92	61.719		
11,397.42	7,730.00	9,071.92	7,935.00	130.99	41.57	92.38	401.91	681.91	5,178.88	5,094.27	84.62	61.205		
11,400.00	7,730.00	9,072.83	7,934.97	130.99	41.57	92.38	401.00	681.90	5,178.88	5,094.25	84.63	61.192		
11,500.00	7,730.00	9,130.00	7,933.76	130.82	41.70	92.37	343.85	681.06	5,179.68	5,094.34	85.34	60.697		
11,600.00	7,730.00	11,600.00	7,932.83	130.66	68.27	92.35	274.51	679.78	5,181.04	5,079.75	101.28	51.153		
11,700.00	7,730.00	9,286.15	7,932.12	130.51	42.18	92.35	187.74	678.32	5,182.38	5,095.47	86.91	59.629		
11,800.00	7,730.00	11,800.00	7,932.90	130.37	68.27	92.36	-143.37	681.04	5,179.79	5,068.98	110.81	46.745		
11,900.00	7,730.00	9,664.00	7,933.23	130.24	44.33	92.36	-190.01	682.12	5,177.31	5,087.39	89.92	57.579		
12,000.00	7,730.00	9,714.14	7,934.55	130.13	44.70	92.38	-240.12	683.20	5,175.56	5,084.58	90.98	56.886		
12,030.81	7,730.00	9,721.70	7,934.74	130.09	44.76	92.38	-247.68	683.22	5,175.39	5,084.14	91.26	56.712		
12,100.00	7,730.00	9,754.00	7,935.47	130.02	45.02	92.39	-279.97	682.93	5,175.62	5,083.64	91.98	56.269		
12,200.00	7,730.00	9,754.00	7,935.47	129.93	45.02	92.39	-279.97	682.93	5,176.99	5,084.29	92.70	55.849		
12,300.00	7,730.00	9,807.37	7,936.46	129.85	45.42	92.40	-333.31	681.50	5,179.57	5,085.74	93.83	55.199		
12,400.00	7,730.00	9,867.46	7,937.16	129.77	45.91	92.40	-393.34	678.96	5,183.38	5,088.33	95.04	54.536		
12,500.00	7,730.00	9,968.19	7,937.26	129.71	46.77	92.40	-494.00	675.02	5,186.95	5,090.31	96.64	53.670		
12,600.00	7,730.00	10,021.00	7,938.48	129.66	47.24	92.41	-546.73	672.47	5,191.47	5,093.60	97.87	53.046		
12,700.00	7,730.00	10,064.52	7,940.22	129.63	47.63	92.43	-590.14	669.97	5,196.96	5,097.93	99.03	52.477		
12,800.00	7,730.00	10,226.36	7,946.60	129.60	49.20	92.50	-751.54	660.21	5,203.12	5,101.57	101.55	51.238		
12,900.00	7,730.00	10,884.00	7,966.43	129.59	57.18	92.72	-1,408.19	660.44	5,204.71	5,091.93	112.78	46.149		
13,000.00	7,730.00	10,884.00	7,966.43	129.59	57.18	92.72	-1,408.19	660.44	5,199.76	5,086.51	113.25	45.914		
13,100.00	7,730.00	11,055.05	7,966.28	129.60	59.54	92.72	-1,579.08	667.80	5,195.15	5,078.01	117.13	44.353		
13,200.00	7,730.00	11,123.66	7,966.18	129.63	60.51	92.72	-1,647.61	671.07	5,190.05	5,071.05	119.00	43.612		
13,300.00	7,730.00	11,152.00	7,966.16	129.66	60.92	92.72	-1,675.93	672.28	5,185.83	5,065.79	120.04	43.200		
13,400.00	7,730.00	11,199.17	7,966.13	129.72	61.58	92.72	-1,723.07	673.73	5,182.70	5,061.22	121.48	42.662		
13,500.00	7,730.00	11,241.00	7,966.09	129.78	62.17	92.72	-1,764.90	674.19	5,181.06	5,058.24	122.82	42.185		
13,564.24	7,730.00	11,241.00	7,966.09	129.83	62.17	92.72	-1,764.90	674.19	5,180.66	5,057.55	123.11	42.081		
13,600.00	7,730.00	11,241.00	7,966.09	129.86	62.17	92.72	-1,764.90	674.19	5,180.78	5,057.51	123.27	42.027		
13,700.00	7,730.00	11,280.15	7,966.04	129.96	62.71	92.72	-1,804.05	673.79	5,181.83	5,057.28	124.55	41.603		
13,800.00	7,730.00	11,330.00	7,965.95	130.07	63.40	92.72	-1,853.86	671.93	5,184.68	5,058.63	126.06	41.130		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	11,686.00	7,965.24	130.19	68.53	92.71	-2,209.67	670.14	5,184.31	5,049.87	134.43	38.564		
14,000.00	7,730.00	11,915.81	7,963.06	130.33	72.02	92.69	-2,439.35	677.20	5,180.74	5,040.37	140.37	36.908		
14,100.00	7,730.00	11,980.97	7,961.83	130.49	73.02	92.68	-2,504.44	679.92	5,176.25	5,033.90	142.35	36.363		
14,200.00	7,730.00	12,016.87	7,961.15	130.67	73.57	92.67	-2,540.32	680.96	5,172.93	5,029.33	143.60	36.023		
14,300.00	7,730.00	12,043.00	7,960.66	130.86	73.97	92.67	-2,566.44	681.43	5,170.88	5,026.27	144.61	35.758		
14,400.00	7,730.00	12,079.44	7,959.97	131.07	74.53	92.66	-2,602.87	681.61	5,170.13	5,024.26	145.87	35.444		
14,403.06	7,730.00	12,080.32	7,959.96	131.08	74.54	92.66	-2,603.75	681.61	5,170.13	5,024.22	145.90	35.436		
14,500.00	7,730.00	12,132.00	7,958.98	131.30	75.32	92.65	-2,655.41	680.75	5,170.97	5,023.44	147.53	35.051		
14,600.00	7,730.00	12,299.77	7,955.79	131.55	77.89	92.61	-2,823.14	679.58	5,171.27	5,019.13	152.14	33.990		
14,700.00	7,730.00	12,578.11	7,952.87	131.82	82.26	92.58	-3,101.41	683.21	5,170.42	5,010.60	159.82	32.352		
14,800.00	7,730.00	12,651.16	7,952.62	132.11	83.42	92.58	-3,174.42	685.60	5,166.80	5,004.69	162.11	31.872		
14,900.00	7,730.00	12,763.62	7,952.23	132.42	85.22	92.58	-3,286.83	689.04	5,163.39	4,997.91	165.49	31.201		
15,000.00	7,730.00	12,838.51	7,952.09	132.75	86.43	92.58	-3,361.68	691.27	5,160.07	4,992.22	167.85	30.742		
15,100.00	7,730.00	12,844.00	7,952.09	133.10	86.52	92.58	-3,367.17	691.42	5,157.81	4,989.53	168.28	30.650		
15,200.00	7,730.00	12,899.83	7,952.05	133.48	87.41	92.58	-3,422.99	692.22	5,156.45	4,986.35	170.10	30.315		
15,212.18	7,730.00	12,903.35	7,952.05	133.53	87.46	92.58	-3,426.51	692.22	5,156.41	4,986.18	170.23	30.291		
15,300.00	7,730.00	12,934.00	7,952.01	133.88	87.95	92.58	-3,457.16	691.97	5,156.72	4,985.41	171.30	30.103		
15,400.00	7,730.00	12,960.95	7,951.98	134.31	88.37	92.58	-3,484.11	691.41	5,158.32	4,986.03	172.29	29.940		
15,500.00	7,730.00	12,993.83	7,951.93	134.76	88.89	92.58	-3,516.97	690.34	5,161.23	4,987.80	173.43	29.760		
15,600.00	7,730.00	13,040.40	7,951.84	135.23	89.62	92.58	-3,563.48	688.16	5,165.42	4,990.48	174.94	29.526		
15,700.00	7,730.00	13,194.88	7,951.51	135.73	92.04	92.57	-3,717.81	681.34	5,169.48	4,989.93	179.56	28.790		
15,800.00	7,730.00	13,282.86	7,951.40	136.26	93.44	92.57	-3,805.72	677.85	5,173.11	4,990.83	182.28	28.379		
15,900.00	7,730.00	13,408.31	7,951.04	136.81	95.43	92.56	-3,931.08	673.09	5,176.53	4,990.41	186.12	27.813		
16,000.00	7,730.00	13,512.85	7,950.80	137.39	97.10	92.56	-4,035.55	669.20	5,179.90	4,990.53	189.37	27.354		
16,100.00	7,730.00	14,030.35	7,957.27	138.00	105.61	92.63	-4,552.69	673.13	5,178.03	4,973.00	205.03	25.256		
16,200.00	7,730.00	14,092.00	7,958.64	138.63	106.64	92.65	-4,614.27	675.51	5,173.78	4,966.65	207.13	24.979		
16,300.00	7,730.00	14,125.93	7,959.20	139.30	107.21	92.65	-4,648.19	676.47	5,170.42	4,962.04	208.38	24.812		
16,400.00	7,730.00	14,181.00	7,960.11	139.99	108.13	92.66	-4,703.23	677.69	5,167.98	4,957.71	210.26	24.579		
16,500.00	7,730.00	14,242.62	7,961.14	140.70	109.16	92.68	-4,764.84	678.56	5,166.33	4,954.00	212.33	24.331		
16,600.00	7,730.00	14,299.57	7,962.08	141.45	110.10	92.69	-4,821.78	678.88	5,165.50	4,951.25	214.25	24.109		
16,647.46	7,730.00	14,325.95	7,962.52	141.81	110.54	92.69	-4,848.15	678.87	5,165.40	4,950.26	215.14	24.009		
16,700.00	7,730.00	14,359.00	7,963.07	142.22	111.09	92.70	-4,881.20	678.70	5,165.52	4,949.28	216.24	23.888		
16,800.00	7,730.00	14,404.07	7,963.82	143.03	111.84	92.71	-4,926.26	678.14	5,166.46	4,948.70	217.77	23.725		
16,900.00	7,730.00	14,605.54	7,966.96	143.86	115.18	92.74	-5,127.68	675.85	5,167.76	4,943.55	224.21	23.049		
17,000.00	7,730.00	14,702.79	7,968.39	144.71	116.81	92.76	-5,224.92	676.17	5,167.16	4,939.77	227.40	22.723		
17,100.00	7,730.00	14,782.63	7,969.52	145.60	118.14	92.77	-5,304.76	676.18	5,166.88	4,936.84	230.04	22.460		
17,200.00	7,730.00	14,901.42	7,971.28	146.51	120.13	92.79	-5,423.53	676.05	5,166.74	4,932.81	233.93	22.087		
17,300.00	7,730.00	15,021.08	7,973.03	147.44	122.15	92.81	-5,543.18	676.21	5,166.39	4,928.54	237.85	21.721		
17,400.00	7,730.00	15,119.45	7,974.03	148.40	123.80	92.82	-5,641.54	677.13	5,165.17	4,924.06	241.11	21.423		
17,484.39	7,730.00	15,163.00	7,973.54	149.23	124.54	92.81	-5,685.08	677.13	5,164.84	4,922.26	242.59	21.291		
17,500.00	7,730.00	15,163.00	7,973.54	149.39	124.54	92.81	-5,685.08	677.13	5,164.87	4,922.27	242.60	21.290		
17,600.00	7,730.00	15,217.84	7,972.55	150.40	125.46	92.80	-5,739.91	676.56	5,165.53	4,921.10	244.43	21.133		
17,700.00	7,730.00	15,277.41	7,971.57	151.44	126.45	92.79	-5,799.46	675.30	5,167.18	4,920.78	246.40	20.970		
17,800.00	7,730.00	15,365.47	7,969.37	152.50	127.92	92.77	-5,887.46	673.07	5,169.25	4,919.95	249.30	20.735		
17,900.00	7,730.00	15,446.65	7,968.10	153.58	129.28	92.75	-5,968.60	670.85	5,171.58	4,919.61	251.97	20.525		
18,000.00	7,730.00	16,269.42	7,983.10	154.68	143.36	92.94	-6,786.98	703.12	5,168.99	4,890.95	278.04	18.591		
18,100.00	7,730.00	16,321.00	7,988.08	155.80	144.27	93.00	-6,838.05	708.43	5,158.48	4,878.45	280.03	18.421		
18,200.00	7,730.00	16,321.00	7,988.08	156.95	144.27	93.00	-6,838.05	708.43	5,149.03	4,868.61	280.41	18.362		
18,300.00	7,730.00	16,321.00	7,988.08	158.11	144.27	93.00	-6,838.05	708.43	5,141.50	4,860.78	280.72	18.315		
18,400.00	7,730.00	16,361.68	7,991.92	159.30	144.98	93.04	-6,878.43	711.41	5,135.03	4,852.77	282.26	18.193		
18,500.00	7,730.00	16,410.00	7,995.72	160.50	145.82	93.08	-6,926.57	713.04	5,130.90	4,846.88	284.02	18.065		
18,600.00	7,730.00	16,410.00	7,995.72	161.72	145.82	93.08	-6,926.57	713.04	5,127.48	4,843.32	284.16	18.044		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,700.00	7,730.00	16,410.00	7,995.72	162.96	145.82	93.08	-6,926.57	713.04	5,126.00	4,841.78	284.22	18.035		
18,758.00	7,730.00	16,442.31	7,997.67	163.68	146.37	93.11	-6,958.82	713.22	5,125.74	4,840.42	285.32	17.965		
18,800.00	7,730.00	16,457.00	7,998.34	164.21	146.62	93.11	-6,973.50	713.17	5,125.86	4,840.04	285.82	17.934		
18,900.00	7,730.00	16,499.00	7,999.54	165.48	147.33	93.13	-7,015.47	712.55	5,127.04	4,839.83	287.21	17.851		
19,000.00	7,730.00	16,647.46	8,001.78	166.76	149.85	93.15	-7,163.90	710.20	5,128.42	4,836.19	292.24	17.549		
19,100.00	7,730.00	16,733.59	8,003.00	168.06	151.32	93.16	-7,250.01	709.37	5,129.15	4,834.01	295.14	17.379		
19,200.00	7,730.00	19,200.00	8,004.52	169.38	193.53	93.18	-7,359.00	708.09	5,130.06	4,790.59	339.47	15.112 SF		
19,300.00	7,730.00	16,969.92	8,006.23	170.70	155.35	93.20	-7,486.31	707.35	5,130.32	4,827.18	303.15	16.924		
19,400.00	7,730.00	17,085.75	8,007.80	172.04	157.34	93.22	-7,602.13	706.66	5,130.68	4,823.60	307.08	16.708		
19,462.40	7,730.00	17,146.83	8,008.66	172.89	158.38	93.23	-7,663.20	706.64	5,130.55	4,821.40	309.15	16.596		
19,500.00	7,730.00	17,166.79	8,008.94	173.40	158.72	93.23	-7,683.16	706.55	5,130.61	4,820.79	309.82	16.560		
19,600.00	7,730.00	17,212.00	8,009.58	174.76	159.50	93.24	-7,728.36	706.10	5,131.43	4,820.11	311.32	16.483		
19,700.00	7,730.00	17,252.97	8,009.99	176.14	160.19	93.24	-7,769.32	705.23	5,133.35	4,820.72	312.64	16.420		
19,800.00	7,730.00	17,301.00	8,010.05	177.52	161.01	93.24	-7,817.32	703.43	5,136.58	4,822.41	314.17	16.350		
19,900.00	7,730.00	17,325.66	8,009.93	178.92	161.42	93.24	-7,841.95	702.20	5,140.97	4,826.14	314.83	16.330		
20,000.00	7,730.00	17,363.38	8,009.60	180.33	162.05	93.23	-7,879.59	699.92	5,146.61	4,830.70	315.91	16.291		
20,100.00	7,730.00	17,390.00	8,009.27	181.75	162.50	93.23	-7,906.15	698.04	5,153.48	4,836.94	316.54	16.281		
20,184.95	7,730.00	17,423.62	8,008.78	182.96	163.06	93.22	-7,939.65	695.25	5,160.31	4,842.86	317.45	16.255		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.43	786.89	-1,060.90	1,320.90					
100.00	100.00	90.44	90.44	0.13	0.15	-53.43	787.04	-1,060.81	1,320.89	1,320.60	0.28	4,635.690	CC, ES	
200.00	199.98	189.80	189.80	0.49	0.32	-123.90	787.56	-1,060.50	1,321.93	1,321.12	0.81	1,639.208		
300.00	299.84	289.09	289.08	0.86	0.48	-123.99	788.45	-1,059.98	1,324.96	1,323.63	1.33	992.668		
400.00	399.45	386.98	386.96	1.23	0.78	-124.15	789.65	-1,059.32	1,330.04	1,328.04	2.00	663.817		
500.00	498.70	484.04	484.01	1.63	1.12	-124.39	791.06	-1,058.72	1,337.29	1,334.55	2.74	488.297		
600.00	597.47	580.67	580.62	2.05	1.47	-124.70	792.66	-1,058.17	1,346.74	1,343.25	3.49	385.916		
700.00	695.62	789.04	788.53	2.51	2.23	-125.55	796.56	-1,046.76	1,354.49	1,349.84	4.65	291.082		
800.00	793.06	954.32	951.60	3.00	2.89	-125.92	803.36	-1,021.05	1,356.93	1,351.21	5.73	236.976		
900.00	889.64	1,075.01	1,069.12	3.53	3.44	-126.00	813.39	-995.52	1,359.53	1,352.81	6.72	202.426		
1,000.00	985.27	1,169.89	1,160.25	4.12	3.92	-125.93	824.71	-971.73	1,362.84	1,355.15	7.68	177.359		
1,100.00	1,079.82	1,256.90	1,243.12	4.75	4.40	-125.78	838.26	-948.90	1,369.20	1,360.51	8.69	157.563		
1,200.00	1,173.17	1,378.06	1,357.30	5.44	5.12	-125.56	860.05	-914.81	1,377.31	1,367.34	9.97	138.170		
1,300.00	1,265.21	1,456.00	1,430.32	6.18	5.61	-125.38	875.32	-892.21	1,387.55	1,376.47	11.08	125.227		
1,400.00	1,355.84	1,637.96	1,600.13	6.99	6.82	-125.33	910.75	-837.38	1,399.92	1,387.02	12.90	108.551		
1,500.00	1,444.94	1,701.30	1,658.91	7.87	7.27	-125.27	922.21	-816.76	1,410.32	1,396.27	14.05	100.378		
1,600.00	1,532.39	1,786.10	1,737.77	8.80	7.86	-125.27	938.64	-790.27	1,424.58	1,409.20	15.38	92.625		
1,700.00	1,618.11	1,917.09	1,859.75	9.81	8.79	-125.55	962.58	-748.98	1,440.13	1,423.08	17.05	84.474		
1,800.00	1,701.97	2,005.63	1,942.58	10.89	9.41	-125.80	977.13	-721.28	1,456.98	1,438.52	18.46	78.932		
1,900.00	1,783.88	2,116.69	2,047.01	12.04	10.17	-126.33	993.61	-687.29	1,475.80	1,455.79	20.01	73.745		
2,000.00	1,863.74	2,205.81	2,131.17	13.26	10.76	-126.81	1,005.04	-660.32	1,496.24	1,474.81	21.43	69.816		
2,100.00	1,941.45	2,279.66	2,201.24	14.55	11.25	-127.18	1,014.72	-639.09	1,520.45	1,497.69	22.76	66.797		
2,200.00	2,016.92	2,373.41	2,290.64	15.92	11.84	-127.84	1,025.89	-613.15	1,547.58	1,523.39	24.19	63.964		
2,292.11	2,084.36	2,453.30	2,367.02	17.25	12.34	-128.42	1,034.57	-591.41	1,574.85	1,549.38	25.46	61.844		
2,300.00	2,090.06	2,458.91	2,372.38	17.36	12.37	-128.50	1,035.19	-589.90	1,577.30	1,551.74	25.57	61.692		
2,400.00	2,162.18	2,529.80	2,440.19	18.84	12.81	-129.41	1,043.52	-570.98	1,609.33	1,582.49	26.84	59.956		
2,500.00	2,234.31	2,599.94	2,507.30	20.33	13.24	-130.26	1,052.62	-552.72	1,643.00	1,614.91	28.09	58.482		
2,600.00	2,306.43	2,669.78	2,574.15	21.83	13.67	-131.08	1,062.46	-535.06	1,678.25	1,648.93	29.32	57.243		
2,700.00	2,378.56	2,754.44	2,655.20	23.33	14.19	-132.01	1,075.03	-514.08	1,714.68	1,684.06	30.62	55.998		
2,800.00	2,450.68	2,892.10	2,786.72	24.84	15.05	-133.47	1,094.58	-478.45	1,750.48	1,718.23	32.25	54.278		
2,900.00	2,522.81	3,000.02	2,889.34	26.36	15.75	-134.56	1,109.05	-448.36	1,784.68	1,751.01	33.66	53.013		
3,000.00	2,594.93	3,123.45	3,006.65	27.88	16.55	-135.77	1,124.35	-413.16	1,818.54	1,783.40	35.14	51.753		
3,100.00	2,667.06	3,235.08	3,111.77	29.40	17.32	-136.75	1,139.52	-378.81	1,851.10	1,814.53	36.57	50.623		
3,200.00	2,739.18	3,278.72	3,152.77	30.92	17.63	-137.09	1,146.56	-365.60	1,884.90	1,847.33	37.57	50.172		
3,300.00	2,811.31	3,375.23	3,243.39	32.45	18.30	-137.80	1,163.50	-337.08	1,920.32	1,881.39	38.93	49.326		
3,400.00	2,883.43	3,482.67	3,344.25	33.98	19.05	-138.58	1,180.88	-304.39	1,954.76	1,914.42	40.34	48.454		
3,500.00	2,955.56	3,569.98	3,425.87	35.51	19.68	-139.16	1,196.03	-277.35	1,989.28	1,947.66	41.62	47.793		
3,600.00	3,027.68	3,621.73	3,474.29	37.04	20.04	-139.49	1,205.51	-261.72	2,024.97	1,982.36	42.62	47.518		
3,700.00	3,099.81	3,681.87	3,531.05	38.57	20.45	-139.88	1,216.17	-244.96	2,062.67	2,019.04	43.63	47.275		
3,800.00	3,171.93	3,787.50	3,630.85	40.11	21.16	-140.56	1,234.36	-215.52	2,100.52	2,055.54	44.98	46.703		
3,900.00	3,244.06	3,862.55	3,701.88	41.64	21.66	-141.05	1,246.76	-194.70	2,138.59	2,092.53	46.06	46.434		
4,000.00	3,316.18	3,919.09	3,755.57	43.18	22.02	-141.41	1,256.22	-179.74	2,178.00	2,131.03	46.97	46.372		
4,100.00	3,388.31	3,978.65	3,812.33	44.71	22.40	-141.78	1,266.41	-164.84	2,218.94	2,171.06	47.88	46.345		
4,200.00	3,460.43	4,050.00	3,880.60	46.25	22.84	-142.23	1,278.23	-147.79	2,260.96	2,212.11	48.85	46.280		
4,300.00	3,532.56	4,190.82	4,015.81	47.79	23.69	-143.17	1,298.09	-113.82	2,302.53	2,252.23	50.30	45.777		
4,400.00	3,604.68	4,400.00	4,137.34	49.33	24.98	-144.02	1,313.67	-80.61	2,341.97	2,289.98	51.99	45.044		
4,500.00	3,676.81	4,373.08	4,190.33	50.87	24.80	-144.38	1,320.04	-66.13	2,381.80	2,329.45	52.35	45.493		
4,600.00	3,748.93	4,444.99	4,259.73	52.41	25.23	-144.87	1,327.71	-48.92	2,423.46	2,370.26	53.20	45.554		
4,700.00	3,821.06	4,568.21	4,378.12	53.95	25.97	-145.65	1,341.88	-17.86	2,464.37	2,409.96	54.41	45.296		
4,800.00	3,893.18	4,624.62	4,432.08	55.49	26.31	-145.97	1,349.61	-3.36	2,505.51	2,450.34	55.18	45.409		
4,900.00	3,965.31	4,673.00	4,478.63	57.03	26.60	-146.24	1,355.95	8.20	2,548.25	2,492.39	55.86	45.619		
5,000.00	4,037.43	4,888.27	4,684.70	58.58	27.92	-147.42	1,383.27	63.91	2,588.90	2,531.15	57.75	44.831		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,940.00	4,734.27	60.12	28.24	-147.71	1,388.80	77.63	2,629.13	2,570.68	58.45	44.982		
5,200.00	4,181.68	4,972.20	4,765.28	61.66	28.43	-147.89	1,392.22	85.60	2,671.02	2,612.04	58.98	45.284		
5,300.00	4,253.81	5,030.00	4,821.07	63.20	28.77	-148.20	1,399.09	99.03	2,714.68	2,655.00	59.68	45.485		
5,400.00	4,325.93	5,152.48	4,938.59	64.75	29.50	-148.76	1,416.80	128.60	2,758.13	2,697.19	60.94	45.260		
5,500.00	4,398.06	5,208.00	4,991.69	66.29	29.85	-148.99	1,425.53	142.27	2,801.47	2,739.80	61.68	45.423		
5,600.00	4,470.18	5,251.61	5,033.57	67.84	30.10	-149.17	1,432.28	152.40	2,846.16	2,783.88	62.28	45.699		
5,700.00	4,542.31	5,297.00	5,077.44	69.38	30.36	-149.36	1,438.92	161.95	2,892.55	2,829.67	62.87	46.005		
5,800.00	4,614.43	5,446.04	5,221.67	70.92	31.19	-150.04	1,458.39	194.05	2,938.64	2,874.35	64.28	45.714		
5,900.00	4,686.56	5,620.18	5,388.93	72.47	32.23	-150.78	1,480.65	236.99	2,981.43	2,915.55	65.87	45.259		
6,000.00	4,758.68	5,653.00	5,420.38	74.01	32.44	-150.91	1,485.10	245.28	3,024.78	2,958.40	66.38	45.565		
6,100.00	4,830.81	5,697.72	5,463.41	75.56	32.69	-151.09	1,491.06	255.86	3,069.58	3,002.63	66.96	45.845		
6,200.00	4,902.93	5,742.00	5,506.36	77.10	32.94	-151.27	1,496.63	265.11	3,116.30	3,048.80	67.50	46.169		
6,300.00	4,975.06	5,776.52	5,539.98	78.65	33.12	-151.42	1,500.65	271.79	3,164.35	3,096.43	67.92	46.586		
6,400.00	5,047.18	5,873.21	5,634.43	80.19	33.61	-151.86	1,510.28	290.10	3,213.14	3,144.33	68.81	46.694		
6,500.00	5,119.31	6,099.00	5,852.74	81.74	34.88	-152.69	1,539.62	339.47	3,259.44	3,188.59	70.84	46.008		
6,600.00	5,191.43	6,157.66	5,908.98	83.28	35.23	-152.87	1,548.67	353.48	3,304.38	3,232.83	71.55	46.181		
6,700.00	5,263.56	6,211.21	5,960.66	84.83	35.54	-153.05	1,555.96	365.46	3,350.53	3,278.34	72.19	46.415		
6,800.00	5,335.68	6,277.00	6,024.18	86.37	35.91	-153.26	1,565.28	379.80	3,397.33	3,324.42	72.92	46.592		
6,900.00	5,407.81	6,326.81	6,072.36	87.92	36.19	-153.41	1,572.41	390.25	3,444.96	3,371.46	73.50	46.870		
7,000.00	5,479.93	6,379.80	6,123.82	89.47	36.48	-153.59	1,579.50	400.70	3,493.63	3,419.54	74.09	47.154		
7,100.00	5,552.06	6,779.56	6,509.90	91.01	38.76	-154.89	1,627.25	491.86	3,542.44	3,465.06	77.38	45.781		
7,200.00	5,624.18	6,843.54	6,570.58	92.56	39.17	-155.05	1,636.54	509.89	3,583.80	3,505.66	78.14	45.861		
7,300.00	5,696.31	6,902.00	6,626.37	94.10	39.54	-155.20	1,645.02	525.15	3,626.75	3,547.89	78.86	45.991		
7,400.00	5,768.43	6,931.99	6,655.11	95.65	39.73	-155.28	1,649.25	532.62	3,670.61	3,591.30	79.32	46.277		
7,500.00	5,840.56	6,991.00	6,711.72	97.20	40.08	-155.44	1,657.01	547.36	3,715.07	3,635.08	79.99	46.442		
7,600.00	5,912.68	7,038.56	6,757.52	98.74	40.36	-155.57	1,662.78	558.80	3,760.46	3,679.92	80.54	46.688		
7,700.00	5,984.81	7,080.00	6,797.65	100.29	40.60	-155.69	1,667.48	568.00	3,807.24	3,726.21	81.03	46.986		
7,800.00	6,056.93	7,106.24	6,823.16	101.84	40.73	-155.77	1,670.29	573.47	3,855.25	3,773.88	81.36	47.383		
7,900.00	6,129.06	7,525.00	7,218.49	103.38	42.41	-158.51	1,614.13	673.33	3,898.06	3,815.96	82.10	47.480		
8,000.00	6,201.18	7,525.00	7,218.49	104.93	42.41	-158.51	1,614.13	673.33	3,941.12	3,858.80	82.32	47.876		
8,100.00	6,273.31	7,525.00	7,218.49	106.48	42.41	-158.51	1,614.13	673.33	3,986.23	3,903.73	82.50	48.319		
8,200.00	6,345.43	7,559.14	7,249.52	108.02	42.48	-158.83	1,602.13	680.97	4,032.86	3,950.34	82.53	48.868		
8,300.00	6,417.56	7,581.39	7,269.67	109.57	42.52	-159.05	1,593.90	685.59	4,081.06	3,998.49	82.57	49.427		
8,400.00	6,489.68	7,614.00	7,299.06	111.12	42.59	-159.37	1,581.23	691.85	4,130.80	4,048.25	82.55	50.041		
8,500.00	6,561.81	7,691.88	7,368.40	112.66	42.72	-160.15	1,548.90	706.44	4,181.65	4,099.31	82.34	50.787		
8,600.00	6,633.93	7,730.50	7,402.20	114.21	42.77	-160.55	1,531.73	713.77	4,232.94	4,150.69	82.25	51.464		
8,700.00	6,706.06	7,758.15	7,426.02	115.76	42.81	-160.84	1,518.61	718.74	4,285.51	4,203.33	82.18	52.148		
8,800.00	6,778.18	7,970.00	7,592.99	117.30	43.00	-163.34	1,394.99	757.82	4,338.73	4,257.67	81.06	53.528		
8,900.00	6,850.31	7,970.00	7,592.99	118.85	43.00	-163.34	1,394.99	757.82	4,391.73	4,310.62	81.10	54.151		
9,000.00	6,922.43	8,009.66	7,620.57	120.40	43.01	-163.85	1,367.60	765.56	4,445.75	4,364.87	80.88	54.969		
9,100.00	6,994.56	8,021.70	7,628.42	121.95	43.01	-164.01	1,358.73	767.72	4,501.46	4,420.66	80.80	55.709		
9,200.00	7,066.68	8,059.00	7,651.09	123.49	43.03	-164.53	1,329.75	773.79	4,558.88	4,478.35	80.53	56.611		
9,300.00	7,138.81	8,059.00	7,651.09	125.04	43.03	-164.53	1,329.75	773.79	4,617.21	4,536.70	80.50	57.355		
9,392.50	7,205.52	8,059.00	7,651.09	126.47	43.03	-164.53	1,329.75	773.79	4,672.42	4,591.96	80.46	58.070		
9,400.00	7,210.94	8,059.00	7,651.09	126.59	43.03	-165.85	1,329.75	773.79	4,676.95	4,596.49	80.46	58.129		
9,450.00	7,247.42	8,059.00	7,651.09	127.35	43.03	-174.91	1,329.75	773.79	4,707.31	4,626.88	80.44	58.523		
9,500.00	7,284.35	8,059.00	7,651.09	128.10	43.03	175.82	1,329.75	773.79	4,737.80	4,657.39	80.42	58.916		
9,550.00	7,321.43	8,059.00	7,651.09	128.83	43.03	166.51	1,329.75	773.79	4,768.19	4,687.79	80.40	59.306		
9,600.00	7,358.38	8,059.00	7,651.09	129.52	43.03	157.39	1,329.75	773.79	4,798.25	4,717.86	80.39	59.689		
9,650.00	7,394.93	8,059.00	7,651.09	130.16	43.03	148.62	1,329.75	773.79	4,827.75	4,747.37	80.38	60.064		
9,700.00	7,430.79	8,094.02	7,670.17	130.76	43.00	140.11	1,300.81	778.74	4,856.02	4,775.90	80.12	60.609		
9,750.00	7,465.70	8,103.70	7,675.09	131.30	42.99	132.46	1,292.57	779.99	4,883.48	4,803.44	80.05	61.008		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,113.81	7,680.07	131.78	42.99	125.50	1,283.86	781.25	4,909.69	4,829.72	79.98	61.390		
9,850.00	7,531.58	8,148.00	7,695.60	132.21	42.97	119.15	1,253.66	785.12	4,934.68	4,854.96	79.72	61.902		
9,900.00	7,562.06	8,148.00	7,695.60	132.57	42.97	113.69	1,253.66	785.12	4,957.66	4,877.91	79.75	62.167		
9,950.00	7,590.58	8,148.00	7,695.60	132.87	42.97	108.89	1,253.66	785.12	4,978.95	4,899.15	79.80	62.395		
10,000.00	7,616.93	8,168.87	7,704.28	133.11	42.94	104.68	1,234.80	787.25	4,998.32	4,918.62	79.70	62.715		
10,050.00	7,640.90	8,193.85	7,714.16	133.29	42.91	101.08	1,211.99	789.73	5,015.49	4,935.91	79.59	63.019		
10,100.00	7,662.32	8,219.29	7,723.66	133.42	42.88	98.08	1,188.52	792.15	5,030.35	4,950.86	79.49	63.281		
10,150.00	7,681.01	8,237.00	7,729.94	133.50	42.87	95.61	1,172.03	793.77	5,042.80	4,963.31	79.49	63.437		
10,200.00	7,696.85	8,265.15	7,739.47	133.52	42.83	93.66	1,145.66	796.23	5,052.75	4,973.30	79.45	63.595		
10,250.00	7,709.70	8,286.78	7,746.51	133.51	42.80	92.19	1,125.29	797.98	5,060.18	4,980.68	79.50	63.651		
10,300.00	7,719.47	8,327.00	7,758.92	133.46	42.76	91.20	1,087.14	800.94	5,065.10	4,985.67	79.43	63.771		
10,350.00	7,726.09	8,327.00	7,758.92	133.37	42.76	90.59	1,087.14	800.94	5,067.25	4,987.52	79.73	63.555		
10,400.00	7,729.50	8,327.00	7,758.92	133.26	42.76	90.37	1,087.14	800.94	5,067.00	4,986.91	80.08	63.271		
10,427.79	7,730.00	8,327.00	7,758.92	133.18	42.76	90.43	1,087.14	800.94	5,065.81	4,985.51	80.30	63.083		
10,500.00	7,730.00	8,371.46	7,771.28	132.98	42.71	90.57	1,044.52	803.53	5,061.61	4,981.10	80.51	62.866		
10,600.00	7,730.00	8,416.00	7,781.93	132.72	42.66	90.69	1,001.31	805.20	5,057.39	4,976.43	80.95	62.472		
10,700.00	7,730.00	8,416.00	7,781.93	132.47	42.66	90.69	1,001.31	805.20	5,054.47	4,972.63	81.84	61.761		
10,800.00	7,730.00	8,448.56	7,788.34	132.22	42.61	90.76	969.39	805.71	5,053.07	4,970.62	82.45	61.286		
10,838.04	7,730.00	8,457.20	7,789.80	132.13	42.60	90.78	960.87	805.73	5,052.96	4,970.23	82.73	61.077		
10,900.00	7,730.00	8,471.35	7,791.96	131.99	42.58	90.80	946.89	805.64	5,053.25	4,970.08	83.17	60.755		
11,000.00	7,730.00	11,000.00	7,803.85	131.77	230.37	90.94	651.47	805.38	5,054.62	4,940.13	114.48	44.151		
11,100.00	7,730.00	8,820.26	7,804.71	131.56	42.45	90.95	598.51	806.83	5,051.85	4,969.72	82.12	61.515		
11,200.00	7,730.00	8,861.00	7,804.98	131.36	42.49	90.95	557.78	807.14	5,050.58	4,967.81	82.77	61.021		
11,241.12	7,730.00	8,861.00	7,804.98	131.28	42.49	90.95	557.78	807.14	5,050.41	4,967.28	83.13	60.752		
11,300.00	7,730.00	8,861.00	7,804.98	131.17	42.49	90.95	557.78	807.14	5,050.75	4,967.11	83.65	60.380		
11,400.00	7,730.00	8,914.05	7,804.77	130.99	42.53	90.95	504.73	806.45	5,052.03	4,967.73	84.30	59.933		
11,500.00	7,730.00	8,950.00	7,804.26	130.82	42.57	90.94	468.81	805.29	5,054.81	4,969.77	85.04	59.442		
11,600.00	7,730.00	9,178.00	7,803.30	130.66	43.02	90.93	240.92	799.15	5,057.48	4,972.09	85.38	59.232		
11,700.00	7,730.00	9,336.06	7,802.98	130.51	43.62	90.93	82.87	797.93	5,058.00	4,971.61	86.39	58.546		
11,800.00	7,730.00	9,472.95	7,803.32	130.37	44.33	90.93	-54.02	798.41	5,057.33	4,969.66	87.67	57.686		
11,900.00	7,730.00	9,552.79	7,802.90	130.24	44.83	90.93	-133.85	798.85	5,056.43	4,967.60	88.83	56.924		
12,000.00	7,730.00	9,652.38	7,801.63	130.13	45.52	90.91	-233.44	799.07	5,055.86	4,965.67	90.18	56.061		
12,081.44	7,730.00	9,689.21	7,800.82	130.04	45.79	90.90	-270.26	799.06	5,055.64	4,964.61	91.03	55.537		
12,100.00	7,730.00	9,695.81	7,800.62	130.02	45.84	90.90	-276.86	799.01	5,055.71	4,964.50	91.21	55.430		
12,200.00	7,730.00	9,752.00	7,798.15	129.93	46.28	90.87	-332.98	797.95	5,056.94	4,964.61	92.33	54.768		
12,300.00	7,730.00	10,088.52	7,800.28	129.85	49.45	90.90	-669.20	802.66	5,053.46	4,956.87	96.59	52.317		
12,400.00	7,730.00	10,207.79	7,804.13	129.77	50.76	90.94	-788.34	806.40	5,050.06	4,951.22	98.84	51.093		
12,500.00	7,730.00	10,310.74	7,807.25	129.71	51.95	90.98	-891.18	810.05	5,046.23	4,945.27	100.96	49.983		
12,600.00	7,730.00	12,600.00	7,809.70	129.66	82.94	91.01	-1,032.79	815.41	5,042.17	4,909.03	133.14	37.870		
12,700.00	7,730.00	10,510.85	7,810.78	129.63	54.38	91.02	-1,091.09	818.04	5,037.63	4,932.33	105.30	47.840		
12,800.00	7,730.00	10,554.00	7,811.05	129.60	54.92	91.03	-1,134.23	819.08	5,034.62	4,928.07	106.55	47.253		
12,900.00	7,730.00	10,585.56	7,811.00	129.59	55.32	91.02	-1,165.79	819.44	5,032.80	4,925.20	107.60	46.772		
13,000.00	7,730.00	10,643.00	7,810.67	129.59	56.04	91.02	-1,223.23	819.76	5,031.92	4,922.81	109.11	46.116		
13,071.10	7,730.00	10,692.02	7,810.21	129.59	56.65	91.02	-1,272.25	819.71	5,031.75	4,921.40	110.35	45.598		
13,100.00	7,730.00	10,711.05	7,810.00	129.60	56.90	91.01	-1,291.27	819.62	5,031.78	4,920.95	110.83	45.400		
13,200.00	7,730.00	10,807.12	7,808.72	129.63	58.13	91.00	-1,387.33	818.95	5,032.11	4,919.02	113.09	44.498		
13,300.00	7,730.00	10,918.18	7,806.28	129.66	59.59	90.97	-1,498.36	818.35	5,032.28	4,916.60	115.67	43.504		
13,400.00	7,730.00	11,015.76	7,801.48	129.72	60.90	90.92	-1,595.82	817.80	5,032.42	4,914.37	118.04	42.632		
13,500.00	7,730.00	11,125.45	7,794.06	129.78	62.40	90.83	-1,705.25	817.31	5,032.42	4,911.73	120.69	41.697		
13,536.55	7,730.00	11,165.15	7,791.19	129.81	62.95	90.80	-1,744.85	817.18	5,032.38	4,910.72	121.67	41.362		
13,600.00	7,730.00	11,204.72	7,788.26	129.86	63.50	90.77	-1,784.31	816.94	5,032.48	4,909.72	122.76	40.996		
13,700.00	7,730.00	11,293.58	7,781.41	129.96	64.74	90.69	-1,872.90	816.05	5,033.02	4,907.98	125.04	40.250		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,730.00	11,396.76	7,773.11	130.07	66.20	90.59	-1,975.74	815.09	5,033.54	4,905.86	127.67	39.425		
13,900.00	7,730.00	11,531.76	7,760.52	130.19	68.15	90.45	-2,110.15	814.18	5,033.81	4,902.77	131.05	38.412		
14,000.00	7,730.00	11,627.45	7,750.67	130.33	69.54	90.34	-2,205.33	814.20	5,033.40	4,899.81	133.59	37.678		
14,008.84	7,730.00	11,632.12	7,750.29	130.35	69.61	90.33	-2,209.98	814.19	5,033.39	4,899.66	133.73	37.639		
14,100.00	7,730.00	14,100.00	7,745.63	130.49	107.32	90.28	-2,307.39	813.68	5,033.55	4,860.20	173.34	29.038		
14,200.00	7,730.00	11,834.48	7,743.10	130.67	72.61	90.25	-2,412.18	813.80	5,033.08	4,893.82	139.26	36.141		
14,219.13	7,730.00	11,845.75	7,743.04	130.70	72.77	90.25	-2,423.45	813.77	5,033.05	4,893.44	139.61	36.052		
14,300.00	7,730.00	11,904.88	7,743.36	130.86	73.66	90.25	-2,482.58	813.46	5,033.20	4,891.85	141.35	35.608		
14,400.00	7,730.00	12,017.14	7,745.62	131.07	75.34	90.28	-2,594.81	812.63	5,033.63	4,889.10	144.53	34.827		
14,500.00	7,730.00	12,178.71	7,749.44	131.30	77.81	90.32	-2,756.32	813.81	5,032.22	4,883.15	149.07	33.758		
14,600.00	7,730.00	12,294.94	7,754.51	131.55	79.61	90.38	-2,872.45	814.49	5,031.39	4,878.90	152.49	32.996		
14,700.00	7,730.00	12,447.18	7,761.11	131.82	81.99	90.46	-3,024.53	816.92	5,029.50	4,872.56	156.94	32.047		
14,800.00	7,730.00	12,532.24	7,764.64	132.11	83.33	90.50	-3,109.49	818.80	5,027.01	4,867.44	159.57	31.504		
14,900.00	7,730.00	12,646.74	7,770.51	132.42	85.15	90.56	-3,223.82	820.76	5,025.05	4,862.00	163.05	30.819		
15,000.00	7,730.00	12,704.75	7,773.41	132.75	86.07	90.60	-3,281.74	821.87	5,022.93	4,857.98	164.94	30.453		
15,100.00	7,730.00	12,755.44	7,776.26	133.10	86.88	90.63	-3,332.35	822.25	5,021.85	4,855.23	166.62	30.140		
15,200.00	7,730.00	15,200.00	7,785.20	133.48	126.63	90.73	-3,491.46	823.94	5,020.44	4,811.19	209.25	23.992		
15,300.00	7,730.00	12,980.91	7,789.04	133.88	90.48	90.78	-3,557.44	824.94	5,018.78	4,845.18	173.60	28.910		
15,400.00	7,730.00	13,066.52	7,794.42	134.31	91.85	90.84	-3,642.88	825.24	5,018.13	4,841.81	176.32	28.460		
15,500.00	7,730.00	13,196.00	7,801.74	134.76	93.95	90.92	-3,772.14	826.92	5,016.44	4,836.09	180.36	27.814		
15,600.00	7,730.00	13,260.19	7,804.93	135.23	94.98	90.96	-3,836.25	827.70	5,015.13	4,832.67	182.46	27.487		
15,659.31	7,730.00	13,285.00	7,806.01	135.52	95.39	90.97	-3,861.03	827.73	5,014.90	4,831.61	183.30	27.359		
15,700.00	7,730.00	13,307.62	7,806.89	135.73	95.75	90.98	-3,883.64	827.64	5,014.96	4,830.92	184.04	27.250		
15,800.00	7,730.00	13,374.00	7,808.61	136.26	96.82	91.00	-3,949.99	826.77	5,015.87	4,829.69	186.18	26.942		
15,900.00	7,730.00	13,447.91	7,809.25	136.81	98.00	91.01	-4,023.88	825.34	5,017.39	4,828.86	188.53	26.613		
16,000.00	7,730.00	13,908.00	7,810.83	137.39	105.54	91.03	-4,483.66	830.35	5,018.22	4,815.56	202.66	24.762		
16,100.00	7,730.00	13,966.65	7,811.92	138.00	106.53	91.04	-4,542.23	833.28	5,012.95	4,808.30	204.65	24.495		
16,200.00	7,730.00	13,997.00	7,812.30	138.63	107.04	91.05	-4,572.55	834.57	5,008.70	4,802.94	205.76	24.342		
16,300.00	7,730.00	14,032.87	7,812.60	139.30	107.63	91.05	-4,608.40	835.61	5,005.77	4,798.75	207.01	24.181		
16,400.00	7,730.00	14,086.00	7,812.81	139.99	108.51	91.05	-4,661.53	835.72	5,004.69	4,795.91	208.79	23.971		
16,460.30	7,730.00	14,086.00	7,812.81	140.41	108.51	91.05	-4,661.53	835.72	5,004.33	4,795.49	208.84	23.962		
16,500.00	7,730.00	14,086.00	7,812.81	140.70	108.51	91.05	-4,661.53	835.72	5,004.49	4,795.62	208.87	23.960		
16,600.00	7,730.00	14,126.34	7,812.59	141.45	109.17	91.05	-4,701.86	834.97	5,005.93	4,795.74	210.19	23.816		
16,700.00	7,730.00	14,176.00	7,811.61	142.22	109.98	91.04	-4,751.49	833.51	5,008.45	4,796.66	211.79	23.648		
16,800.00	7,730.00	14,346.97	7,811.73	143.03	112.78	91.04	-4,922.38	829.19	5,010.57	4,793.28	217.30	23.059		
16,900.00	7,730.00	14,491.20	7,812.34	143.86	115.16	91.04	-5,066.60	827.36	5,011.44	4,789.46	221.97	22.577		
17,000.00	7,730.00	14,616.75	7,814.25	144.71	117.24	91.07	-5,192.13	826.26	5,012.03	4,785.96	226.07	22.170		
17,100.00	7,730.00	14,804.02	7,816.37	145.60	120.37	91.09	-5,379.38	827.18	5,011.12	4,778.93	232.19	21.582		
17,200.00	7,730.00	14,871.05	7,817.56	146.51	121.50	91.10	-5,446.40	827.77	5,009.92	4,775.49	234.43	21.371		
17,300.00	7,730.00	14,989.49	7,819.55	147.44	123.49	91.13	-5,564.82	828.66	5,008.87	4,770.53	238.34	21.015		
17,400.00	7,730.00	15,058.08	7,821.47	148.40	124.64	91.15	-5,633.38	829.12	5,007.92	4,767.28	240.64	20.811		
17,500.00	7,730.00	15,199.58	7,826.53	149.39	127.03	91.21	-5,774.79	830.22	5,006.88	4,761.53	245.35	20.407		
17,600.00	7,730.00	15,301.20	7,828.74	150.40	128.75	91.23	-5,876.37	831.52	5,005.30	4,756.56	248.74	20.123		
17,700.00	7,730.00	15,386.80	7,830.03	151.44	130.19	91.25	-5,961.95	832.42	5,003.94	4,752.34	251.60	19.888		
17,800.00	7,730.00	15,454.10	7,831.07	152.50	131.33	91.26	-6,029.24	832.91	5,002.97	4,749.11	253.86	19.708		
17,854.55	7,730.00	15,480.63	7,831.61	153.08	131.78	91.27	-6,055.77	832.90	5,002.81	4,748.07	254.75	19.639		
17,900.00	7,730.00	15,519.00	7,832.58	153.58	132.43	91.28	-6,094.13	832.64	5,002.97	4,746.95	256.03	19.541		
18,000.00	7,730.00	15,614.19	7,835.32	154.68	134.03	91.31	-6,189.28	831.85	5,003.51	4,744.30	259.22	19.303		
18,100.00	7,730.00	15,808.55	7,841.48	155.80	137.33	91.38	-6,383.53	833.35	5,002.16	4,736.41	265.76	18.822		
18,200.00	7,730.00	15,925.52	7,844.98	156.95	139.33	91.42	-6,500.43	835.05	5,000.47	4,730.76	269.70	18.541		
18,300.00	7,730.00	16,001.04	7,847.16	158.11	140.61	91.45	-6,575.91	836.35	4,998.53	4,726.27	272.26	18.359		
18,400.00	7,730.00	16,053.00	7,848.41	159.30	141.50	91.46	-6,627.85	836.71	4,997.55	4,723.53	274.01	18.238		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,500.00	7,730.00	16,219.27	7,852.70	160.50	144.33	91.51	-6,794.06	837.51	4,997.09	4,717.45	279.64	17.870		
18,600.00	7,730.00	16,358.21	7,854.96	161.72	146.72	91.54	-6,932.93	841.01	4,994.06	4,709.72	284.33	17.564		
18,700.00	7,730.00	16,410.00	7,855.25	162.96	147.61	91.54	-6,984.72	841.88	4,991.97	4,705.87	286.10	17.448		
18,800.00	7,730.00	16,470.42	7,855.46	164.21	148.64	91.54	-7,045.14	842.37	4,990.78	4,702.65	288.14	17.321		
18,900.00	7,730.00	16,553.66	7,855.73	165.48	150.06	91.55	-7,128.37	842.64	4,990.13	4,699.18	290.94	17.151		
19,000.00	7,730.00	16,641.13	7,856.01	166.76	151.55	91.55	-7,215.84	842.73	4,989.69	4,695.79	293.90	16.978		
19,100.00	7,730.00	16,753.64	7,856.85	168.06	153.47	91.56	-7,328.35	842.72	4,989.39	4,691.67	297.72	16.759		
19,200.00	7,730.00	16,903.51	7,859.50	169.38	156.04	91.59	-7,478.19	843.72	4,988.48	4,685.65	302.83	16.473		
19,300.00	7,730.00	17,078.97	7,862.55	170.70	159.07	91.63	-7,653.58	847.35	4,986.08	4,677.27	308.81	16.146		
19,400.00	7,730.00	17,209.25	7,864.42	172.04	161.32	91.65	-7,783.78	851.40	4,982.66	4,669.41	313.25	15.906		
19,500.00	7,730.00	17,285.27	7,864.98	173.40	162.64	91.66	-7,859.77	853.77	4,979.23	4,663.36	315.87	15.764		
19,600.00	7,730.00	17,353.32	7,865.21	174.76	163.82	91.66	-7,927.80	855.51	4,976.35	4,658.15	318.20	15.639		
19,700.00	7,730.00	17,422.86	7,865.28	176.14	165.02	91.66	-7,997.33	856.82	4,974.13	4,653.56	320.58	15.516		
19,800.00	7,730.00	17,504.89	7,865.90	177.52	166.43	91.67	-8,079.35	857.93	4,972.45	4,649.07	323.38	15.377		
19,900.00	7,730.00	17,594.44	7,867.01	178.92	167.98	91.68	-8,168.88	859.08	4,970.87	4,644.44	326.43	15.228		
20,000.00	7,730.00	17,657.00	7,867.72	180.33	169.06	91.69	-8,231.44	859.51	4,969.88	4,641.34	328.55	15.127		
20,100.00	7,730.00	17,733.56	7,868.48	181.75	170.37	91.70	-8,307.99	859.56	4,969.51	4,638.37	331.14	15.007		
20,127.91	7,730.00	17,754.81	7,868.67	182.15	170.74	91.70	-8,329.24	859.51	4,969.49	4,637.63	331.86	14.975		
20,184.95	7,730.00	17,804.57	7,869.12	182.96	171.59	91.71	-8,379.00	859.30	4,969.55	4,636.00	333.55	14.899 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-38.37	218.94	-173.32	279.35				
100.00	100.00	94.42	94.42	0.13	0.16	-38.47	218.30	-173.46	278.84	278.55	0.29	950.746	
200.00	199.98	197.67	197.64	0.49	0.39	-109.67	216.06	-174.00	278.05	277.17	0.88	316.267	
300.00	299.84	299.39	299.19	0.86	0.77	-111.77	210.66	-176.21	277.24	275.63	1.62	171.559	
302.46	302.30	301.79	301.58	0.87	0.78	-111.84	210.50	-176.30	277.24	275.61	1.63	169.644	CC, ES
400.00	399.45	393.79	393.22	1.23	1.13	-114.94	203.86	-180.91	278.83	276.48	2.35	118.624	
500.00	498.70	485.43	484.44	1.63	1.49	-118.62	198.06	-187.46	285.20	282.10	3.10	91.910	
600.00	597.47	576.28	574.68	2.05	1.85	-122.78	192.39	-196.21	296.84	292.97	3.87	76.629	
700.00	695.62	664.30	661.72	2.51	2.22	-127.29	185.91	-207.55	314.53	309.88	4.65	67.624	
800.00	793.06	748.86	744.97	3.00	2.59	-131.74	179.24	-220.82	339.03	333.62	5.42	62.560	
900.00	889.64	829.09	823.45	3.53	2.97	-135.91	172.17	-235.91	370.89	364.73	6.16	60.236	
1,000.00	985.27	907.08	899.28	4.12	3.36	-139.71	165.07	-252.69	410.04	403.17	6.87	59.713	
1,100.00	1,079.82	1,000.20	989.78	4.75	3.83	-143.90	155.97	-272.61	453.83	446.18	7.65	59.312	
1,200.00	1,173.17	1,085.82	1,073.19	5.44	4.28	-147.25	147.26	-289.88	501.10	492.72	8.38	59.770	
1,300.00	1,265.21	1,166.23	1,151.41	6.18	4.69	-150.08	138.36	-306.23	552.70	543.62	9.08	60.898	
1,400.00	1,355.84	1,255.83	1,238.75	6.99	5.16	-152.91	128.37	-323.55	607.48	597.65	9.82	61.840	
1,500.00	1,444.94	1,340.26	1,321.32	7.87	5.59	-155.18	119.40	-338.72	664.89	654.36	10.53	63.125	
1,600.00	1,532.39	1,409.85	1,389.40	8.80	5.94	-156.74	112.05	-351.15	725.70	714.55	11.15	65.100	
1,700.00	1,618.11	1,474.45	1,452.47	9.81	6.27	-158.01	105.06	-363.25	790.42	778.69	11.73	67.399	
1,800.00	1,701.97	1,535.58	1,512.02	10.89	6.59	-159.04	98.56	-375.40	858.98	846.70	12.28	69.927	
1,900.00	1,783.88	1,597.56	1,572.31	12.04	6.92	-159.98	91.89	-388.15	930.86	918.01	12.85	72.449	
2,000.00	1,863.74	1,660.34	1,633.31	13.26	7.26	-160.85	84.92	-401.26	1,005.63	992.21	13.42	74.923	
2,100.00	1,941.45	1,723.31	1,694.49	14.55	7.60	-161.66	77.73	-414.31	1,082.83	1,068.83	14.00	77.345	
2,200.00	2,016.92	1,787.71	1,757.14	15.92	7.94	-162.38	70.76	-427.47	1,162.15	1,147.56	14.59	79.641	
2,292.11	2,084.36	1,849.06	1,816.95	17.25	8.26	-162.98	64.67	-439.73	1,236.85	1,221.70	15.16	81.605	
2,300.00	2,090.06	1,854.41	1,822.17	17.36	8.29	-163.09	64.15	-440.77	1,243.31	1,228.10	15.21	81.745	
2,400.00	2,162.18	1,921.49	1,887.71	18.84	8.64	-164.42	57.83	-453.58	1,324.95	1,309.13	15.82	83.774	
2,500.00	2,234.31	1,987.16	1,952.03	20.33	8.96	-165.47	52.91	-465.88	1,406.32	1,389.91	16.41	85.674	
2,600.00	2,306.43	2,037.36	2,001.23	21.83	9.21	-166.14	49.86	-475.35	1,487.72	1,470.82	16.90	88.045	
2,700.00	2,378.56	2,085.26	2,048.13	23.33	9.45	-166.72	47.01	-484.67	1,569.52	1,552.15	17.36	90.396	
2,800.00	2,450.68	2,129.08	2,090.98	24.84	9.67	-167.19	44.54	-493.51	1,651.75	1,633.96	17.80	92.813	
2,900.00	2,522.81	2,172.00	2,132.88	26.36	9.89	-167.60	42.34	-502.55	1,734.46	1,716.24	18.22	95.173	
3,000.00	2,594.93	2,219.36	2,179.05	27.88	10.13	-168.02	40.03	-512.83	1,817.55	1,798.86	18.69	97.249	
3,100.00	2,667.06	2,267.36	2,225.81	29.40	10.38	-168.41	37.52	-523.40	1,900.88	1,881.72	19.16	99.206	
3,200.00	2,739.18	2,319.35	2,276.42	30.92	10.65	-168.80	34.75	-534.96	1,984.39	1,964.72	19.67	100.899	
3,300.00	2,811.31	2,373.20	2,328.83	32.45	10.94	-169.17	32.03	-547.02	2,067.97	2,047.78	20.19	102.419	
3,400.00	2,883.43	2,441.60	2,395.45	33.98	11.29	-169.60	28.80	-562.16	2,151.39	2,130.56	20.84	103.238	
3,500.00	2,955.56	2,491.54	2,444.14	35.51	11.55	-169.88	26.45	-573.05	2,234.66	2,213.32	21.33	104.742	
3,600.00	3,027.68	2,533.79	2,485.27	37.04	11.78	-170.13	23.97	-582.35	2,318.22	2,296.45	21.76	106.512	
3,700.00	3,099.81	2,590.05	2,540.00	38.57	12.07	-170.46	20.07	-594.80	2,402.00	2,379.69	22.31	107.644	
3,800.00	3,171.93	2,661.18	2,609.27	40.11	12.45	-170.85	15.08	-610.15	2,485.52	2,462.52	22.99	108.099	
3,900.00	3,244.06	2,720.45	2,667.04	41.64	12.76	-171.17	10.78	-622.67	2,568.85	2,545.28	23.57	108.983	
4,000.00	3,316.18	2,796.51	2,741.26	43.18	13.16	-171.54	5.20	-638.37	2,651.95	2,627.66	24.29	109.168	
4,100.00	3,388.31	2,873.40	2,816.44	44.71	13.55	-171.88	-0.07	-653.64	2,734.55	2,709.53	25.02	109.288	
4,200.00	3,460.43	2,944.89	2,886.42	46.25	13.92	-172.18	-4.85	-667.43	2,816.83	2,791.13	25.71	109.581	
4,300.00	3,532.56	2,971.11	2,912.05	47.79	14.05	-172.28	-6.60	-672.67	2,899.38	2,873.37	26.01	111.480	
4,400.00	3,604.68	3,005.60	2,945.74	49.33	14.23	-172.40	-8.90	-679.72	2,982.33	2,955.95	26.38	113.053	
4,500.00	3,676.81	3,021.00	2,960.76	50.87	14.31	-172.46	-9.93	-682.95	3,065.76	3,039.18	26.59	115.319	
4,600.00	3,748.93	3,063.58	3,002.22	52.41	14.54	-172.61	-12.89	-692.20	3,149.53	3,122.50	27.03	116.528	
4,700.00	3,821.06	3,090.18	3,028.04	53.95	14.68	-172.70	-14.87	-698.24	3,233.84	3,206.51	27.33	118.328	
4,800.00	3,893.18	3,118.92	3,055.89	55.49	14.84	-172.79	-17.11	-704.98	3,318.60	3,290.95	27.65	120.024	
4,900.00	3,965.31	3,179.83	3,114.88	57.03	15.18	-172.99	-22.05	-719.33	3,403.48	3,375.22	28.26	120.443	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	5,000.00	3,206.33	58.58	25.13	-173.30	-29.92	-740.52	3,487.74	3,451.74	36.00	96.882		
5,100.00	4,109.56	5,100.00	3,323.43	60.12	25.28	-173.67	-39.75	-765.48	3,570.86	3,533.87	36.98	96.555		
5,200.00	4,181.68	3,441.14	3,369.28	61.66	16.58	-173.80	-43.49	-774.93	3,653.93	3,623.16	30.77	118.738		
5,300.00	4,253.81	3,470.79	3,398.18	63.20	16.74	-173.88	-45.88	-781.13	3,737.44	3,706.34	31.11	120.146		
5,400.00	4,325.93	3,490.00	3,416.87	64.75	16.84	-173.93	-47.44	-785.26	3,821.35	3,790.00	31.35	121.897		
5,500.00	4,398.06	3,524.33	3,450.23	66.29	17.03	-174.01	-50.20	-792.89	3,905.61	3,873.88	31.73	123.107		
5,600.00	4,470.18	3,549.27	3,474.42	67.84	17.17	-174.07	-52.14	-798.66	3,990.28	3,958.26	32.02	124.626		
5,700.00	4,542.31	3,584.00	3,508.02	69.38	17.36	-174.14	-54.77	-807.02	4,075.35	4,042.95	32.40	125.786		
5,800.00	4,614.43	3,617.00	3,538.02	70.92	17.55	-174.44	-57.44	-816.39	4,159.84	4,127.89	32.95	126.997		
5,900.00	4,686.56	3,646.30	3,568.14	72.47	17.74	-174.59	-60.14	-825.86	4,243.22	4,211.40	33.82	128.269		
6,000.00	4,758.68	3,676.42	3,598.26	74.01	17.93	-174.65	-62.87	-835.34	4,326.87	4,295.21	34.66	129.592		
6,100.00	4,830.81	3,706.54	3,628.38	75.56	18.12	-174.75	-65.54	-844.81	4,410.77	4,379.32	35.45	130.965		
6,200.00	4,902.93	3,736.66	3,658.50	77.10	18.31	-174.91	-68.24	-854.28	4,494.33	4,463.33	36.00	132.388		
6,300.00	4,975.06	3,766.78	3,688.62	78.65	18.50	-175.01	-70.94	-863.75	4,577.83	4,546.83	36.00	133.861		
6,400.00	5,047.18	3,796.90	3,718.74	80.19	18.69	-175.08	-73.64	-873.22	4,661.38	4,630.88	36.50	135.384		
6,500.00	5,119.31	3,827.02	3,748.86	81.74	18.88	-175.15	-76.34	-882.69	4,745.15	4,714.65	37.00	136.957		
6,600.00	5,191.43	3,857.14	3,778.98	83.28	19.07	-176.53	-79.04	-892.16	4,825.75	4,795.25	37.50	138.580		
6,700.00	5,263.56	3,887.26	3,809.10	84.83	19.26	-176.61	-81.74	-901.63	4,894.76	4,864.26	38.00	140.253		
6,800.00	5,335.68	3,917.38	3,839.22	86.37	19.45	-176.68	-84.44	-911.10	4,963.59	4,933.09	38.50	141.976		
6,900.00	5,407.81	3,947.50	3,869.34	87.92	19.64	-176.72	-87.14	-920.57	5,032.54	4,992.04	40.50	143.759		
7,000.00	5,479.93	3,977.62	3,899.46	89.47	19.83	-176.76	-89.84	-929.54	5,101.81	5,061.31	40.50	145.582		
7,100.00	5,552.06	4,007.74	3,929.58	91.01	20.02	-176.81	-92.54	-938.51	5,171.27	5,130.77	40.50	147.405		
7,200.00	5,624.18	4,037.86	3,959.70	92.56	20.21	-176.86	-95.24	-947.48	5,240.78	5,190.28	40.50	149.228		
7,300.00	5,696.31	4,067.98	3,989.82	94.10	20.40	-176.89	-97.94	-956.45	5,310.19	5,260.69	40.50	151.051		
7,400.00	5,768.43	4,098.10	4,019.94	95.65	20.59	-176.93	-100.64	-965.42	5,379.55	5,339.05	40.50	152.874		
7,500.00	5,840.56	4,128.22	4,050.06	97.20	20.78	-176.95	-103.34	-974.39	5,448.97	5,408.47	40.50	154.697		
7,600.00	5,912.68	4,158.34	4,080.18	98.74	20.97	-176.98	-106.04	-983.36	5,518.53	5,478.03	40.50	156.520		
7,700.00	5,984.81	4,188.46	4,110.30	100.29	21.16	-177.00	-108.74	-992.33	5,588.27	5,547.77	40.50	158.343		
7,800.00	6,056.93	4,218.58	4,140.42	101.84	21.35	-177.03	-111.44	-1,001.30	5,658.19	5,617.69	40.50	160.166		
7,900.00	6,129.06	4,248.70	4,170.54	103.38	21.54	-177.05	-114.14	-1,010.27	5,728.24	5,687.74	40.50	161.989		
8,000.00	6,201.18	4,278.82	4,200.66	104.93	21.73	-177.08	-116.84	-1,019.24	5,798.28	5,757.78	40.50	163.812		
8,100.00	6,273.31	4,308.94	4,230.78	106.48	21.92	-177.10	-119.54	-1,028.21	5,868.57	5,827.87	40.50	165.635		
8,200.00	6,345.43	4,339.06	4,260.90	108.02	22.11	-177.12	-122.24	-1,037.18	5,939.13	5,898.43	40.50	167.458		
8,300.00	6,417.56	4,369.18	4,291.02	109.57	22.30	-177.15	-124.94	-1,046.15	6,009.64	5,968.94	40.50	169.281		
8,400.00	6,489.68	4,399.30	4,321.14	111.12	22.49	-177.17	-127.64	-1,055.12	6,080.14	6,039.44	40.50	171.104		
8,500.00	6,561.81	4,429.42	4,351.26	112.66	22.68	-177.20	-130.34	-1,064.09	6,150.63	6,109.93	40.50	172.927		
8,600.00	6,633.93	4,459.54	4,381.38	114.21	22.87	-177.25	-133.04	-1,073.06	6,220.79	6,170.09	40.50	174.750		
8,700.00	6,706.06	4,489.66	4,411.50	115.76	23.06	-177.33	-135.74	-1,082.03	6,290.78	6,240.18	40.50	176.573		
8,800.00	6,778.18	4,519.78	4,441.62	117.30	23.25	-177.36	-138.44	-1,091.00	6,358.78	6,310.18	40.50	178.396		
8,900.00	6,850.31	4,549.90	4,471.74	118.85	23.44	-177.38	-141.14	-1,100.00	6,427.97	6,380.37	40.50	180.219		
9,000.00	6,922.43	4,580.02	4,501.86	120.40	23.63	-177.40	-143.84	-1,109.00	6,497.40	6,450.80	40.50	182.042		
9,100.00	6,994.56	4,610.14	4,531.98	121.95	23.82	-177.43	-146.54	-1,118.00	6,567.03	6,520.93	40.50	183.865		
9,200.00	7,066.68	4,640.26	4,562.10	123.49	24.01	-177.45	-149.24	-1,127.00	6,636.85	6,591.15	40.50	185.688		
9,300.00	7,138.81	4,670.38	4,592.22	125.04	24.20	-177.48	-151.94	-1,136.00	6,706.86	6,661.16	40.50	187.511		
9,392.50	7,205.52	4,700.50	4,622.34	126.47	24.39	-177.50	-154.64	-1,145.00	6,777.19	6,731.49	40.50	189.334		
9,400.00	7,210.94	4,705.92	4,627.76	126.59	24.40	-178.98	-155.58	-1,146.78	6,777.06	6,731.45	65.61	103.299		
9,450.00	7,247.42	4,736.04	4,657.88	127.35	24.59	171.15	-153.90	-1,061.18	6,811.75	6,745.84	65.91	103.345		
9,500.00	7,284.35	4,766.16	4,687.99	128.10	24.78	161.49	-154.51	-1,061.82	6,845.47	6,779.09	66.39	103.115		
9,550.00	7,321.43	4,796.28	4,718.06	128.83	24.97	152.20	-155.19	-1,062.23	6,877.88	6,811.05	66.83	102.913		
9,600.00	7,358.38	4,826.40	4,748.18	129.52	25.16	143.32	-155.64	-1,062.43	6,908.88	6,841.78	67.10	102.967		
9,650.00	7,394.93	4,856.52	4,778.30	130.16	25.35	135.04	-156.15	-1,062.65	6,938.29	6,870.94	67.35	103.012		
9,700.00	7,430.79	4,886.64	4,808.42	130.76	25.54	128.80	-160.96	-1,060.51	6,965.84	6,896.36	69.48	100.254		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,961.49	7,858.10	131.30	32.39	123.50	-157.48	-1,050.23	6,989.83	6,918.40	71.43	97.862		
9,800.00	7,499.38	9,800.00	7,875.65	131.78	36.97	117.56	-156.95	-1,049.30	7,010.80	6,933.72	77.09	90.949		
9,850.00	7,531.58	7,984.00	7,880.57	132.21	32.44	112.25	-156.82	-1,049.05	7,029.75	6,958.08	71.66	98.092		
9,900.00	7,562.06	8,020.35	7,916.87	132.57	32.54	107.83	-155.98	-1,047.20	7,046.29	6,974.35	71.94	97.944		
9,950.00	7,590.58	8,031.99	7,928.50	132.87	32.57	103.90	-155.83	-1,046.64	7,060.64	6,988.59	72.05	97.999		
10,000.00	7,616.93	8,042.82	7,939.31	133.11	32.59	100.58	-155.73	-1,046.12	7,072.60	7,000.46	72.14	98.034		
10,050.00	7,640.90	8,052.76	7,949.24	133.29	32.62	97.83	-155.69	-1,045.67	7,082.10	7,009.87	72.23	98.045		
10,100.00	7,662.32	8,077.00	7,973.45	133.42	32.68	95.71	-155.74	-1,044.59	7,089.13	7,016.71	72.42	97.887		
10,150.00	7,681.01	8,077.00	7,973.45	133.50	32.68	93.92	-155.74	-1,044.59	7,093.54	7,021.09	72.45	97.912		
10,200.00	7,696.85	8,077.00	7,973.45	133.52	32.68	92.60	-155.74	-1,044.59	7,095.41	7,022.92	72.48	97.893		
10,250.00	7,709.70	8,077.00	7,973.45	133.51	32.68	91.73	-155.74	-1,044.59	7,094.72	7,022.19	72.53	97.824		
10,300.00	7,719.47	8,077.00	7,973.45	133.46	32.68	91.29	-155.74	-1,044.59	7,091.48	7,018.89	72.58	97.701		
10,350.00	7,726.09	8,077.00	7,973.45	133.37	32.68	91.28	-155.74	-1,044.59	7,085.70	7,013.05	72.66	97.520		
10,400.00	7,729.50	8,077.00	7,973.45	133.26	32.68	91.68	-155.74	-1,044.59	7,077.44	7,004.68	72.75	97.278		
10,427.79	7,730.00	8,077.00	7,973.45	133.18	32.68	92.09	-155.74	-1,044.59	7,071.79	6,998.97	72.82	97.115		
10,500.00	7,730.00	8,077.00	7,973.45	132.98	32.68	92.09	-155.74	-1,044.59	7,056.49	6,983.48	73.00	96.659		
10,600.00	7,730.00	8,077.00	7,973.45	132.72	32.68	92.09	-155.74	-1,044.59	7,036.46	6,963.16	73.30	95.994		
10,700.00	7,730.00	8,095.21	7,991.64	132.47	32.73	92.24	-155.94	-1,043.82	7,017.76	6,943.98	73.78	95.119		
10,800.00	7,730.00	8,095.92	7,992.35	132.22	32.73	92.24	-155.95	-1,043.79	7,000.48	6,926.31	74.17	94.383		
10,900.00	7,730.00	8,096.66	7,993.09	131.99	32.73	92.25	-155.96	-1,043.76	6,984.59	6,909.98	74.61	93.618		
11,000.00	7,730.00	8,097.42	7,993.86	131.77	32.73	92.26	-155.97	-1,043.73	6,970.10	6,895.01	75.09	92.828		
11,100.00	7,730.00	8,098.22	7,994.66	131.56	32.74	92.26	-155.98	-1,043.70	6,957.02	6,881.41	75.61	92.016		
11,200.00	7,730.00	8,099.05	7,995.49	131.36	32.74	92.27	-156.00	-1,043.66	6,945.35	6,869.18	76.17	91.185		
11,300.00	7,730.00	8,099.92	7,996.35	131.17	32.74	92.28	-156.01	-1,043.63	6,935.10	6,858.33	76.77	90.340		
11,400.00	7,730.00	8,100.83	7,997.26	130.99	32.74	92.29	-156.03	-1,043.59	6,926.28	6,848.88	77.40	89.483		
11,500.00	7,730.00	8,101.77	7,998.20	130.82	32.75	92.29	-156.04	-1,043.55	6,918.90	6,840.82	78.08	88.618		
11,600.00	7,730.00	8,102.76	7,999.19	130.66	32.75	92.30	-156.06	-1,043.51	6,912.95	6,834.17	78.78	87.749		
11,700.00	7,730.00	8,103.79	8,000.22	130.51	32.75	92.31	-156.08	-1,043.47	6,908.45	6,828.93	79.52	86.879		
11,800.00	7,730.00	8,104.88	8,001.30	130.37	32.75	92.32	-156.09	-1,043.42	6,905.39	6,825.10	80.29	86.011		
11,900.00	7,730.00	8,106.01	8,002.44	130.24	32.76	92.33	-156.12	-1,043.38	6,903.78	6,822.70	81.08	85.148		
11,961.29	7,730.00	8,106.73	8,003.16	130.17	32.76	92.33	-156.13	-1,043.35	6,903.51	6,821.92	81.59	84.616		
12,000.00	7,730.00	8,107.20	8,003.63	130.13	32.76	92.34	-156.14	-1,043.33	6,903.61	6,821.71	81.90	84.293		
12,100.00	7,730.00	8,108.46	8,004.88	130.02	32.76	92.35	-156.16	-1,043.28	6,904.90	6,822.15	82.74	83.449		
12,200.00	7,730.00	8,109.77	8,006.20	129.93	32.77	92.36	-156.19	-1,043.22	6,907.63	6,824.02	83.61	82.618		
12,300.00	7,730.00	8,111.16	8,007.59	129.85	32.77	92.37	-156.21	-1,043.17	6,911.81	6,827.31	84.49	81.802		
12,400.00	7,730.00	8,112.63	8,009.05	129.77	32.78	92.38	-156.24	-1,043.11	6,917.43	6,832.03	85.40	81.003		
12,500.00	7,730.00	8,114.18	8,010.60	129.71	32.78	92.40	-156.28	-1,043.05	6,924.49	6,838.17	86.32	80.222		
12,600.00	7,730.00	8,115.82	8,012.24	129.66	32.78	92.41	-156.31	-1,042.98	6,932.98	6,845.73	87.25	79.462		
12,700.00	7,730.00	8,117.56	8,013.98	129.63	32.79	92.42	-156.35	-1,042.91	6,942.91	6,854.71	88.19	78.724		
12,800.00	7,730.00	8,119.41	8,015.83	129.60	32.79	92.44	-156.39	-1,042.84	6,954.25	6,865.10	89.15	78.008		
12,900.00	7,730.00	8,121.38	8,017.79	129.59	32.80	92.46	-156.44	-1,042.76	6,967.02	6,876.90	90.11	77.315		
13,000.00	7,730.00	8,123.48	8,019.89	129.59	32.80	92.47	-156.49	-1,042.68	6,981.19	6,890.11	91.08	76.647		
13,100.00	7,730.00	8,125.72	8,022.13	129.60	32.81	92.49	-156.55	-1,042.59	6,996.76	6,904.70	92.06	76.004		
13,200.00	7,730.00	8,128.12	8,024.53	129.63	32.82	92.51	-156.61	-1,042.50	7,013.72	6,920.69	93.04	75.386		
13,300.00	7,730.00	8,130.70	8,027.10	129.66	32.82	92.53	-156.68	-1,042.40	7,032.07	6,938.05	94.02	74.793		
13,400.00	7,730.00	8,133.48	8,029.88	129.72	32.83	92.56	-156.76	-1,042.29	7,051.78	6,956.78	95.00	74.227		
13,500.00	7,730.00	8,136.48	8,032.87	129.78	32.84	92.58	-156.85	-1,042.17	7,072.85	6,976.86	95.99	73.686		
13,600.00	7,730.00	8,139.73	8,036.12	129.86	32.85	92.61	-156.95	-1,042.05	7,095.26	6,998.30	96.97	73.171		
13,700.00	7,730.00	8,143.26	8,039.64	129.96	32.86	92.64	-157.06	-1,041.92	7,119.01	7,021.06	97.95	72.681		
13,800.00	7,730.00	8,147.10	8,043.48	130.07	32.87	92.67	-157.19	-1,041.77	7,144.08	7,045.16	98.93	72.217		
13,900.00	7,730.00	8,151.31	8,047.69	130.19	32.88	92.70	-157.33	-1,041.61	7,170.45	7,070.56	99.90	71.777		
14,000.00	7,730.00	8,155.94	8,052.31	130.33	32.89	92.74	-157.50	-1,041.44	7,198.12	7,097.25	100.87	71.363		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	8,161.06	8,057.42	130.49	32.91	92.78	-157.70	-1,041.26	7,227.06	7,125.23	101.83	70.972		
14,200.00	7,730.00	8,167.38	8,063.73	130.67	32.92	92.84	-157.95	-1,041.03	7,257.26	7,154.46	102.79	70.601		
14,300.00	7,730.00	8,174.64	8,070.98	130.86	32.94	92.90	-158.24	-1,040.76	7,288.70	7,184.95	103.75	70.252		
14,400.00	7,730.00	8,181.96	8,078.29	131.07	32.96	92.96	-158.54	-1,040.49	7,321.37	7,216.67	104.70	69.928		
14,500.00	7,730.00	8,189.35	8,085.67	131.30	32.98	93.02	-158.84	-1,040.22	7,355.25	7,249.61	105.63	69.629		
14,600.00	7,730.00	8,196.80	8,093.11	131.55	33.00	93.08	-159.15	-1,039.93	7,390.32	7,283.76	106.56	69.354		
14,700.00	7,730.00	8,204.32	8,100.61	131.82	33.03	93.14	-159.45	-1,039.65	7,426.57	7,319.10	107.47	69.102		
14,800.00	7,730.00	8,211.90	8,108.19	132.11	33.05	93.21	-159.77	-1,039.35	7,463.98	7,355.60	108.37	68.873		
14,900.00	7,730.00	8,219.55	8,115.83	132.42	33.07	93.27	-160.09	-1,039.06	7,502.53	7,393.27	109.26	68.666		
15,000.00	7,730.00	8,227.28	8,123.53	132.75	33.09	93.33	-160.41	-1,038.75	7,542.21	7,432.07	110.13	68.481		
15,100.00	7,730.00	8,235.07	8,131.31	133.10	33.11	93.40	-160.73	-1,038.44	7,582.99	7,471.99	111.00	68.318		
15,200.00	7,730.00	8,242.93	8,139.16	133.48	33.13	93.46	-161.07	-1,038.12	7,624.86	7,513.02	111.84	68.175		
15,300.00	7,730.00	8,250.86	8,147.08	133.88	33.15	93.53	-161.40	-1,037.80	7,667.81	7,555.13	112.67	68.053		
15,400.00	7,730.00	8,258.87	8,155.07	134.31	33.18	93.60	-161.74	-1,037.47	7,711.80	7,598.31	113.49	67.950		
15,500.00	7,730.00	8,266.95	8,163.14	134.76	33.20	93.66	-162.09	-1,037.13	7,756.84	7,642.54	114.30	67.866		
15,600.00	7,730.00	8,275.11	8,171.28	135.23	33.22	93.73	-162.43	-1,036.79	7,802.89	7,687.80	115.09	67.801		
15,700.00	7,730.00	15,700.00	8,144.61	135.73	54.80	93.51	-161.30	-1,037.88	7,849.95	7,711.25	138.71	56.594		
15,800.00	7,730.00	15,800.00	8,148.73	136.26	55.11	93.54	-161.48	-1,037.72	7,898.00	7,758.30	139.70	56.534 SF		
15,900.00	7,730.00	8,270.88	8,167.07	136.81	33.21	93.70	-162.25	-1,036.98	7,947.00	7,829.79	117.21	67.803		
16,000.00	7,730.00	8,273.50	8,169.68	137.39	33.22	93.72	-162.36	-1,036.87	7,996.96	7,879.05	117.91	67.824		
16,100.00	7,730.00	8,276.12	8,172.29	138.00	33.22	93.74	-162.47	-1,036.77	8,047.84	7,929.25	118.59	67.861		
16,200.00	7,730.00	8,278.72	8,174.89	138.63	33.23	93.76	-162.58	-1,036.67	8,099.65	7,980.38	119.27	67.913		
16,300.00	7,730.00	8,281.31	8,177.48	139.30	33.24	93.78	-162.69	-1,036.56	8,152.34	8,032.42	119.92	67.980		
16,400.00	7,730.00	8,283.90	8,180.06	139.99	33.25	93.80	-162.79	-1,036.46	8,205.92	8,085.36	120.57	68.062		
16,500.00	7,730.00	8,286.47	8,182.63	140.70	33.25	93.82	-162.90	-1,036.36	8,260.36	8,139.17	121.19	68.158		
16,600.00	7,730.00	8,289.04	8,185.19	141.45	33.26	93.85	-163.01	-1,036.26	8,315.64	8,193.84	121.81	68.268		
16,700.00	7,730.00	8,291.59	8,187.74	142.22	33.27	93.87	-163.11	-1,036.16	8,371.76	8,249.35	122.41	68.392		
16,800.00	7,730.00	8,294.14	8,190.28	143.03	33.27	93.89	-163.22	-1,036.06	8,428.68	8,305.68	123.00	68.528		
16,900.00	7,730.00	8,296.67	8,192.82	143.86	33.28	93.91	-163.32	-1,035.96	8,486.40	8,362.83	123.57	68.677		
17,000.00	7,730.00	8,299.20	8,195.34	144.71	33.29	93.93	-163.43	-1,035.86	8,544.90	8,420.77	124.13	68.838		
17,100.00	7,730.00	8,301.72	8,197.85	145.60	33.30	93.95	-163.53	-1,035.77	8,604.16	8,479.48	124.68	69.012		
17,200.00	7,730.00	8,304.23	8,200.36	146.51	33.30	93.97	-163.64	-1,035.67	8,664.17	8,538.96	125.21	69.196		
17,300.00	7,730.00	8,306.73	8,202.86	147.44	33.31	93.99	-163.74	-1,035.58	8,724.91	8,599.18	125.73	69.393		
17,400.00	7,730.00	8,309.22	8,205.34	148.40	33.32	94.01	-163.84	-1,035.48	8,786.37	8,660.13	126.24	69.600		
17,500.00	7,730.00	8,311.70	8,207.82	149.39	33.32	94.03	-163.94	-1,035.39	8,848.53	8,721.79	126.74	69.817		
17,600.00	7,730.00	8,314.18	8,210.29	150.40	33.33	94.05	-164.04	-1,035.30	8,911.38	8,784.15	127.22	70.046		
17,700.00	7,730.00	8,316.64	8,212.75	151.44	33.34	94.07	-164.14	-1,035.20	8,974.90	8,847.20	127.70	70.284		
17,800.00	7,730.00	8,319.10	8,215.20	152.50	33.34	94.09	-164.24	-1,035.11	9,039.08	8,910.92	128.16	70.531		
17,900.00	7,730.00	8,321.54	8,217.65	153.58	33.35	94.11	-164.34	-1,035.02	9,103.90	8,975.29	128.61	70.789		
18,000.00	7,730.00	8,323.98	8,220.08	154.68	33.36	94.14	-164.44	-1,034.93	9,169.36	9,040.31	129.05	71.055		
18,100.00	7,730.00	8,326.41	8,222.51	155.80	33.36	94.16	-164.54	-1,034.84	9,235.43	9,105.96	129.47	71.331		
18,200.00	7,730.00	8,328.83	8,224.92	156.95	33.37	94.18	-164.64	-1,034.76	9,302.11	9,172.22	129.89	71.615		
18,300.00	7,730.00	8,331.24	8,227.33	158.11	33.38	94.20	-164.74	-1,034.67	9,369.38	9,239.08	130.30	71.908		
18,400.00	7,730.00	8,333.65	8,229.73	159.30	33.38	94.22	-164.83	-1,034.58	9,437.23	9,306.54	130.69	72.208		
18,500.00	7,730.00	8,336.04	8,232.12	160.50	33.39	94.24	-164.93	-1,034.50	9,505.65	9,374.56	131.08	72.517		
18,600.00	7,730.00	8,338.43	8,234.51	161.72	33.40	94.25	-165.02	-1,034.41	9,574.62	9,443.16	131.46	72.834		
18,700.00	7,730.00	8,340.81	8,236.88	162.96	33.40	94.27	-165.12	-1,034.33	9,644.13	9,512.30	131.83	73.158		
18,800.00	7,730.00	8,343.18	8,239.25	164.21	33.41	94.29	-165.21	-1,034.24	9,714.17	9,581.99	132.19	73.489		
18,900.00	7,730.00	8,358.00	8,254.05	165.48	33.45	94.32	-165.80	-1,033.73	9,784.75	9,652.16	132.59	73.798		
19,000.00	7,730.00	8,358.00	8,254.05	166.76	33.45	94.42	-165.80	-1,033.73	9,855.82	9,722.90	132.92	74.149		
19,100.00	7,730.00	8,358.00	8,254.05	168.06	33.45	94.42	-165.80	-1,033.73	9,927.39	9,794.14	133.24	74.507		
19,200.00	7,730.00	8,358.00	8,254.05	169.38	33.45	94.42	-165.80	-1,033.73	9,999.44	9,865.89	133.56	74.871		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-42.99	218.94	-204.12	299.44					
100.00	100.00	90.88	90.87	0.13	0.15	-42.89	219.44	-203.83	299.50	299.22	0.28	1,059.647	ES	
200.00	199.98	183.23	183.20	0.49	0.39	-113.29	221.23	-203.39	301.33	300.45	0.88	340.540		
300.00	299.84	269.99	269.84	0.86	0.71	-113.68	225.41	-205.39	308.50	306.93	1.58	195.382		
400.00	399.45	357.19	356.67	1.23	1.04	-114.68	231.23	-210.73	321.15	318.87	2.27	141.192		
500.00	498.70	444.31	443.11	1.63	1.38	-116.01	239.02	-218.31	338.89	335.90	2.99	113.495		
600.00	597.47	530.45	528.19	2.05	1.74	-117.43	248.92	-227.39	361.55	357.85	3.70	97.629		
700.00	695.62	614.51	610.79	2.51	2.12	-118.80	260.82	-237.45	389.00	384.57	4.43	87.798		
800.00	793.06	694.27	688.61	3.00	2.50	-120.02	274.29	-248.52	421.64	416.48	5.16	81.744		
900.00	889.64	772.38	764.27	3.53	2.91	-121.22	288.97	-261.22	459.36	453.46	5.90	77.915		
1,000.00	985.27	845.74	834.74	4.12	3.32	-122.25	304.18	-274.83	502.12	495.49	6.63	75.731		
1,100.00	1,079.82	920.92	906.28	4.75	3.77	-123.19	321.43	-290.15	549.62	542.21	7.40	74.258		
1,200.00	1,173.17	1,003.95	984.97	5.44	4.28	-124.27	341.03	-307.96	600.50	592.26	8.24	72.858		
1,300.00	1,265.21	1,083.85	1,060.79	6.18	4.79	-125.24	359.65	-324.99	653.44	644.34	9.11	71.765		
1,400.00	1,355.84	1,160.21	1,132.98	6.99	5.28	-126.00	378.19	-341.58	709.38	699.40	9.97	71.127		
1,500.00	1,444.94	1,237.67	1,206.07	7.87	5.79	-126.67	397.68	-358.25	767.74	756.85	10.88	70.537		
1,600.00	1,532.39	1,310.38	1,274.58	8.80	6.27	-127.16	416.22	-374.06	828.59	816.80	11.79	70.296		
1,700.00	1,618.11	1,371.89	1,332.31	9.81	6.70	-127.30	432.37	-387.84	892.35	879.73	12.62	70.692		
1,800.00	1,701.97	1,431.38	1,387.75	10.89	7.12	-127.26	448.90	-401.66	959.24	945.77	13.47	71.225		
1,900.00	1,783.88	1,489.74	1,441.75	12.04	7.54	-127.06	466.23	-415.44	1,028.91	1,014.58	14.33	71.791		
2,000.00	1,863.74	1,535.32	1,483.62	13.26	7.89	-126.44	480.39	-426.57	1,101.40	1,086.31	15.09	72.982		
2,100.00	1,941.45	1,575.45	1,520.23	14.55	8.21	-125.58	492.99	-437.14	1,176.94	1,161.14	15.80	74.469		
2,200.00	2,016.92	1,628.13	1,568.03	15.92	8.63	-124.96	509.59	-451.78	1,255.10	1,238.42	16.68	75.264		
2,292.11	2,084.36	1,687.46	1,622.01	17.25	9.10	-124.64	527.99	-468.13	1,328.34	1,310.72	17.62	75.375		
2,300.00	2,090.06	1,692.47	1,626.58	17.36	9.14	-124.79	529.52	-469.50	1,334.67	1,316.96	17.71	75.379		
2,400.00	2,162.18	1,740.15	1,670.03	18.84	9.53	-126.08	544.08	-482.71	1,415.15	1,396.61	18.54	76.344		
2,500.00	2,234.31	1,788.45	1,714.02	20.33	9.92	-127.30	558.65	-496.31	1,496.20	1,476.84	19.37	77.261		
2,600.00	2,306.43	1,835.73	1,757.07	21.83	10.30	-128.41	572.69	-509.89	1,577.80	1,557.63	20.17	78.217		
2,700.00	2,378.56	1,883.02	1,800.14	23.33	10.68	-129.45	586.49	-523.72	1,659.89	1,638.92	20.97	79.152		
2,800.00	2,450.68	1,933.34	1,845.92	24.84	11.09	-130.48	601.18	-538.55	1,742.35	1,720.55	21.80	79.917		
2,900.00	2,522.81	1,991.43	1,898.73	26.36	11.57	-131.56	618.27	-555.69	1,825.07	1,802.34	22.73	80.298		
3,000.00	2,594.93	2,071.10	1,971.40	27.88	12.21	-132.90	641.64	-578.53	1,907.49	1,883.57	23.93	79.723		
3,100.00	2,667.06	2,176.69	2,068.53	29.40	13.04	-134.47	671.93	-606.71	1,988.80	1,963.37	25.43	78.192		
3,200.00	2,739.18	2,251.94	2,138.13	30.92	13.61	-135.46	693.35	-625.67	2,069.42	2,042.85	26.56	77.908		
3,300.00	2,811.31	2,317.23	2,198.60	32.45	14.11	-136.24	712.05	-641.70	2,149.80	2,122.23	27.57	77.981		
3,400.00	2,883.43	2,373.67	2,250.90	33.98	14.53	-136.87	728.25	-655.41	2,230.14	2,201.67	28.46	78.353		
3,500.00	2,955.56	2,424.06	2,297.63	35.51	14.91	-137.40	742.44	-667.82	2,310.73	2,281.45	29.28	78.928		
3,600.00	3,027.68	2,487.41	2,356.44	37.04	15.38	-138.05	760.00	-683.52	2,391.45	2,361.21	30.24	79.073		
3,700.00	3,099.81	2,551.89	2,416.37	38.57	15.86	-138.66	777.82	-699.29	2,472.06	2,440.83	31.22	79.173		
3,800.00	3,171.93	2,612.50	2,472.68	40.11	16.32	-139.19	794.76	-713.98	2,552.64	2,520.49	32.16	79.383		
3,900.00	3,244.06	2,668.28	2,524.48	41.64	16.73	-139.64	810.46	-727.46	2,633.27	2,600.24	33.03	79.728		
4,000.00	3,316.18	2,722.94	2,575.26	43.18	17.14	-140.07	825.72	-740.74	2,714.03	2,680.14	33.88	80.099		
4,100.00	3,388.31	2,776.84	2,625.36	44.71	17.54	-140.48	840.57	-753.93	2,794.91	2,760.19	34.72	80.491		
4,200.00	3,460.43	2,835.28	2,679.74	46.25	17.97	-140.90	856.42	-768.32	2,875.90	2,840.29	35.62	80.749		
4,300.00	3,532.56	2,900.61	2,740.63	47.79	18.45	-141.36	873.88	-784.31	2,956.83	2,920.24	36.59	80.812		
4,400.00	3,604.68	2,962.57	2,798.49	49.33	18.90	-141.78	890.14	-799.38	3,037.69	3,000.18	37.51	80.979		
4,500.00	3,676.81	3,018.53	2,850.82	50.87	19.31	-142.14	904.57	-812.97	3,118.54	3,080.18	38.36	81.305		
4,600.00	3,748.93	3,067.54	2,896.65	52.41	19.66	-142.45	917.11	-824.98	3,199.56	3,160.45	39.11	81.811		
4,700.00	3,821.06	3,118.76	2,944.50	53.95	20.04	-142.76	930.28	-837.65	3,280.76	3,240.86	39.89	82.239		
4,800.00	3,893.18	3,171.87	2,993.92	55.49	20.43	-143.05	944.60	-850.78	3,362.08	3,321.37	40.71	82.589		
4,900.00	3,965.31	3,240.20	3,057.33	57.03	20.94	-143.38	963.77	-867.56	3,443.39	3,401.66	41.74	82.506		
5,000.00	4,037.43	3,295.61	3,108.73	58.58	21.36	-143.63	979.49	-881.00	3,524.56	3,481.97	42.60	82.745		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,333.86	3,144.20	60.12	21.65	-143.80	990.29	-890.43	3,606.00	3,562.77	43.23	83.418		
5,200.00	4,181.68	3,374.20	3,181.56	61.66	21.95	-143.97	1,001.60	-900.60	3,687.77	3,643.88	43.88	84.033		
5,300.00	4,253.81	3,452.11	3,253.79	63.20	22.54	-144.29	1,023.26	-920.19	3,769.50	3,724.46	45.04	83.697		
5,400.00	4,325.93	3,515.64	3,312.80	64.75	23.02	-144.55	1,040.77	-935.93	3,851.03	3,805.04	46.00	83.725		
5,500.00	4,398.06	3,576.78	3,369.63	66.29	23.47	-144.79	1,057.49	-951.03	3,932.52	3,885.60	46.92	83.814		
5,600.00	4,470.18	3,637.84	3,426.47	67.84	23.93	-145.02	1,073.97	-966.07	4,013.98	3,966.14	47.84	83.907		
5,700.00	4,542.31	3,709.03	3,492.83	69.38	24.45	-145.29	1,092.97	-983.48	4,095.35	4,046.46	48.88	83.775		
5,800.00	4,614.43	3,862.59	3,636.81	70.92	25.54	-145.84	1,132.93	-1,018.83	4,175.65	4,124.68	50.97	81.926		
5,900.00	4,686.56	3,895.53	3,667.74	72.47	25.78	-145.95	1,141.54	-1,026.21	4,255.78	4,204.27	51.52	82.609		
6,000.00	4,758.68	3,930.00	3,700.00	74.01	26.02	-146.06	1,150.76	-1,034.13	4,336.30	4,284.22	52.08	83.255		
6,100.00	4,830.81	3,953.13	3,721.58	75.56	26.19	-146.13	1,157.04	-1,039.59	4,417.23	4,364.72	52.51	84.125		
6,200.00	4,902.93	3,977.32	3,744.09	77.10	26.37	-146.20	1,163.66	-1,045.46	4,498.61	4,445.67	52.94	84.972		
6,300.00	4,975.06	4,023.00	3,786.44	78.65	26.71	-146.33	1,176.30	-1,057.03	4,580.56	4,526.89	53.66	85.359		
6,400.00	5,047.18	4,023.00	3,786.44	80.19	26.71	-146.33	1,176.30	-1,057.03	4,662.67	4,608.91	53.76	86.723		
6,500.00	5,119.31	4,050.67	3,812.00	81.74	26.93	-146.41	1,183.96	-1,064.31	4,745.30	4,691.06	54.24	87.488		
6,600.00	5,191.43	4,076.41	3,835.77	83.28	27.13	-146.48	1,191.02	-1,071.25	4,828.29	4,773.60	54.68	88.294		
6,700.00	5,263.56	4,117.00	3,873.19	84.83	27.44	-146.59	1,201.99	-1,082.51	4,911.67	4,856.34	55.33	88.769		
6,800.00	5,335.68	4,131.49	3,886.53	86.37	27.56	-146.63	1,205.88	-1,086.61	4,995.28	4,939.67	55.62	89.816		
6,900.00	5,407.81	4,169.06	3,921.08	87.92	27.86	-146.73	1,216.06	-1,097.31	5,079.16	5,022.94	56.22	90.341		
7,000.00	5,479.93	7,000.00	4,001.68	89.47	50.26	-146.95	1,240.17	-1,122.20	5,163.01	5,088.18	74.83	68.994 SF		
7,100.00	5,552.06	7,100.00	4,051.76	91.01	51.06	-147.08	1,255.13	-1,137.43	5,246.64	5,170.67	75.97	69.058		
7,200.00	5,624.18	4,347.23	4,084.96	92.56	29.27	-147.16	1,264.84	-1,147.38	5,330.16	5,271.21	58.95	90.417		
7,300.00	5,696.31	4,367.28	4,103.41	94.10	29.42	-147.21	1,270.18	-1,153.13	5,414.17	5,354.86	59.31	91.286		
7,400.00	5,768.43	4,397.00	4,130.71	95.65	29.66	-147.29	1,278.01	-1,161.87	5,498.54	5,438.74	59.80	91.947		
7,500.00	5,840.56	4,416.00	4,148.14	97.20	29.81	-147.33	1,283.02	-1,167.56	5,583.17	5,523.02	60.14	92.828		
7,600.00	5,912.68	4,752.89	4,457.95	98.74	32.48	-148.01	1,375.88	-1,261.55	5,667.93	5,603.02	64.91	87.318		
7,700.00	5,984.81	4,770.00	4,473.79	100.29	32.61	-148.03	1,380.74	-1,265.83	5,750.07	5,684.82	65.25	88.126		
7,800.00	6,056.93	4,815.23	4,515.56	101.84	32.96	-148.11	1,393.73	-1,277.33	5,832.35	5,766.38	65.98	88.397		
7,900.00	6,129.06	4,840.03	4,538.37	103.38	33.16	-148.14	1,401.00	-1,283.81	5,915.02	5,848.60	66.42	89.049		
8,000.00	6,201.18	6,501.43	6,151.43	104.93	40.99	-153.12	1,632.28	-1,513.47	5,992.16	5,910.56	81.60	73.432		
8,100.00	6,273.31	6,548.00	6,198.00	106.48	41.08	-153.30	1,632.52	-1,513.91	6,057.99	5,975.87	82.12	73.771		
8,200.00	6,345.43	6,591.68	6,241.68	108.02	41.17	-153.47	1,632.87	-1,514.51	6,124.21	6,041.59	82.62	74.122		
8,300.00	6,417.56	6,641.00	6,290.98	109.57	41.28	-153.65	1,633.37	-1,515.38	6,190.80	6,107.65	83.15	74.452		
8,400.00	6,489.68	6,912.00	6,561.95	111.12	41.81	-154.63	1,635.11	-1,515.49	6,255.69	6,171.00	84.69	73.865		
8,500.00	6,561.81	6,962.17	6,612.12	112.66	41.90	-154.81	1,635.16	-1,514.93	6,320.38	6,235.16	85.22	74.169		
8,600.00	6,633.93	7,016.00	6,665.94	114.21	42.00	-155.00	1,635.01	-1,514.54	6,385.41	6,299.66	85.75	74.466		
8,700.00	6,706.06	7,056.26	6,706.20	115.76	42.07	-155.14	1,634.80	-1,514.41	6,450.81	6,364.59	86.22	74.819		
8,800.00	6,778.18	7,110.00	6,759.94	117.30	42.17	-155.32	1,634.43	-1,514.48	6,516.61	6,429.87	86.74	75.126		
8,900.00	6,850.31	7,146.16	6,796.09	118.85	42.24	-155.45	1,634.18	-1,514.67	6,582.77	6,495.58	87.19	75.503		
9,000.00	6,922.43	7,192.80	6,842.74	120.40	42.33	-155.61	1,633.92	-1,515.08	6,649.28	6,561.60	87.67	75.843		
9,100.00	6,994.56	7,240.04	6,889.98	121.95	42.42	-155.76	1,633.71	-1,515.67	6,716.12	6,627.96	88.16	76.181		
9,200.00	7,066.68	7,296.00	6,945.92	123.49	42.53	-155.95	1,633.43	-1,516.58	6,783.29	6,694.60	88.69	76.485		
9,300.00	7,138.81	7,334.09	6,984.01	125.04	42.61	-156.07	1,633.21	-1,517.34	6,850.76	6,761.63	89.13	76.866		
9,392.50	7,205.52	7,377.18	7,027.09	126.47	42.70	-156.21	1,632.95	-1,518.32	6,913.44	6,823.88	89.57	77.187		
9,400.00	7,210.94	7,390.00	7,039.90	126.59	42.73	-157.70	1,632.87	-1,518.64	6,918.56	6,828.91	89.65	77.174		
9,450.00	7,247.42	7,456.42	7,106.30	127.35	42.87	-167.73	1,632.35	-1,520.10	6,952.74	6,862.66	90.09	77.179		
9,500.00	7,284.35	7,502.62	7,152.49	128.10	42.96	-177.91	1,631.87	-1,520.90	6,986.93	6,896.53	90.40	77.293		
9,550.00	7,321.43	7,528.39	7,178.25	128.83	43.01	171.89	1,631.56	-1,521.36	7,021.10	6,930.53	90.58	77.516		
9,600.00	7,358.38	7,554.04	7,203.90	129.52	43.07	161.90	1,631.22	-1,521.86	7,055.02	6,964.29	90.73	77.760		
9,650.00	7,394.93	7,577.00	7,226.85	130.16	43.11	152.31	1,630.90	-1,522.34	7,088.43	6,997.59	90.84	78.033		
9,700.00	7,430.79	7,577.00	7,226.85	130.76	43.11	143.21	1,630.90	-1,522.34	7,121.17	7,030.36	90.81	78.419		
9,750.00	7,465.70	8,089.96	7,739.38	131.30	44.13	137.32	1,626.27	-1,517.91	7,150.61	7,057.40	93.21	76.719		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,113.75	7,763.16	131.78	44.17	130.11	1,626.12	-1,516.98	7,178.92	7,085.65	93.27	76.971		
9,850.00	7,531.58	8,138.00	7,787.39	132.21	44.22	123.64	1,626.01	-1,516.08	7,205.93	7,112.61	93.32	77.221		
9,900.00	7,562.06	8,164.09	7,813.46	132.57	44.27	117.90	1,625.94	-1,515.14	7,231.47	7,138.10	93.36	77.455		
9,950.00	7,590.58	8,190.30	7,839.65	132.87	44.32	112.87	1,625.92	-1,514.20	7,255.35	7,161.95	93.41	77.676		
10,000.00	7,616.93	8,214.36	7,863.70	133.11	44.37	108.49	1,625.96	-1,513.36	7,277.45	7,184.01	93.44	77.886		
10,050.00	7,640.90	8,237.15	7,886.47	133.29	44.41	104.72	1,626.05	-1,512.56	7,297.62	7,204.16	93.47	78.077		
10,100.00	7,662.32	8,261.43	7,910.74	133.42	44.46	101.54	1,626.17	-1,511.72	7,315.76	7,222.24	93.51	78.231		
10,150.00	7,681.01	8,282.53	7,931.83	133.50	44.50	98.88	1,626.29	-1,510.98	7,331.74	7,238.18	93.56	78.363		
10,200.00	7,696.85	8,300.29	7,949.58	133.52	44.53	96.69	1,626.40	-1,510.35	7,345.51	7,251.90	93.61	78.469		
10,250.00	7,709.70	8,314.59	7,963.87	133.51	44.56	94.95	1,626.49	-1,509.84	7,356.97	7,263.31	93.66	78.546		
10,300.00	7,719.47	8,325.33	7,974.59	133.46	44.58	93.63	1,626.57	-1,509.45	7,366.08	7,272.36	93.73	78.590		
10,350.00	7,726.09	8,332.43	7,981.70	133.37	44.60	92.71	1,626.63	-1,509.20	7,372.79	7,278.99	93.80	78.599		
10,400.00	7,729.50	8,335.88	7,985.14	133.26	44.60	92.18	1,626.65	-1,509.07	7,377.07	7,283.18	93.89	78.571		
10,427.79	7,730.00	8,336.20	7,985.47	133.18	44.61	92.05	1,626.65	-1,509.06	7,378.38	7,284.44	93.95	78.539		
10,500.00	7,730.00	8,335.58	7,984.84	132.98	44.60	92.04	1,626.65	-1,509.08	7,381.16	7,287.06	94.10	78.438		
10,600.00	7,730.00	8,334.72	7,983.98	132.72	44.60	92.04	1,626.64	-1,509.11	7,386.17	7,291.83	94.34	78.293		
10,700.00	7,730.00	8,333.87	7,983.13	132.47	44.60	92.03	1,626.64	-1,509.15	7,392.53	7,297.93	94.60	78.143		
10,800.00	7,730.00	8,333.02	7,982.29	132.22	44.60	92.02	1,626.63	-1,509.18	7,400.23	7,305.35	94.89	77.991		
10,900.00	7,730.00	8,332.18	7,981.45	131.99	44.60	92.02	1,626.62	-1,509.21	7,409.28	7,314.09	95.19	77.837		
11,000.00	7,730.00	8,331.35	7,980.61	131.77	44.60	92.01	1,626.62	-1,509.24	7,419.66	7,324.15	95.51	77.681		
11,100.00	7,730.00	8,330.52	7,979.79	131.56	44.59	92.00	1,626.61	-1,509.27	7,431.38	7,335.52	95.86	77.524		
11,200.00	7,730.00	8,329.70	7,978.96	131.36	44.59	92.00	1,626.60	-1,509.30	7,444.42	7,348.20	96.22	77.369		
11,300.00	7,730.00	8,328.88	7,978.15	131.17	44.59	91.99	1,626.60	-1,509.32	7,458.78	7,362.18	96.60	77.214		
11,400.00	7,730.00	8,328.07	7,977.34	130.99	44.59	91.98	1,626.59	-1,509.35	7,474.44	7,377.45	96.99	77.062		
11,500.00	7,730.00	8,327.27	7,976.53	130.82	44.59	91.98	1,626.59	-1,509.38	7,491.41	7,394.01	97.40	76.913		
11,600.00	7,730.00	8,326.47	7,975.73	130.66	44.59	91.97	1,626.58	-1,509.41	7,509.68	7,411.85	97.82	76.768		
11,700.00	7,730.00	8,325.67	7,974.94	130.51	44.58	91.97	1,626.57	-1,509.44	7,529.22	7,430.97	98.26	76.627		
11,800.00	7,730.00	8,324.88	7,974.15	130.37	44.58	91.96	1,626.57	-1,509.47	7,550.05	7,451.34	98.70	76.491		
11,900.00	7,730.00	8,324.10	7,973.37	130.24	44.58	91.95	1,626.56	-1,509.50	7,572.13	7,472.97	99.16	76.361		
12,000.00	7,730.00	8,323.32	7,972.59	130.13	44.58	91.95	1,626.56	-1,509.52	7,595.47	7,495.84	99.63	76.238		
12,100.00	7,730.00	8,322.55	7,971.82	130.02	44.58	91.94	1,626.55	-1,509.55	7,620.04	7,519.94	100.10	76.122		
12,200.00	7,730.00	8,321.78	7,971.05	129.93	44.58	91.94	1,626.55	-1,509.58	7,645.85	7,545.26	100.59	76.013		
12,300.00	7,730.00	8,321.02	7,970.29	129.85	44.57	91.93	1,626.54	-1,509.61	7,672.87	7,571.80	101.08	75.912		
12,400.00	7,730.00	8,320.27	7,969.54	129.77	44.57	91.92	1,626.54	-1,509.63	7,701.10	7,599.53	101.57	75.820		
12,500.00	7,730.00	8,319.51	7,968.79	129.71	44.57	91.92	1,626.53	-1,509.66	7,730.52	7,628.45	102.07	75.736		
12,600.00	7,730.00	8,318.77	7,968.04	129.66	44.57	91.91	1,626.52	-1,509.69	7,761.11	7,658.54	102.58	75.662		
12,700.00	7,730.00	8,318.03	7,967.30	129.63	44.57	91.91	1,626.52	-1,509.71	7,792.87	7,689.78	103.09	75.596		
12,800.00	7,730.00	8,317.29	7,966.56	129.60	44.57	91.90	1,626.51	-1,509.74	7,825.78	7,722.18	103.60	75.541		
12,900.00	7,730.00	8,316.56	7,965.83	129.59	44.57	91.89	1,626.51	-1,509.77	7,859.82	7,755.71	104.11	75.495		
13,000.00	7,730.00	8,315.83	7,965.11	129.59	44.56	91.89	1,626.50	-1,509.79	7,894.98	7,790.35	104.63	75.459		
13,100.00	7,730.00	8,315.11	7,964.39	129.60	44.56	91.88	1,626.50	-1,509.82	7,931.24	7,826.10	105.14	75.433		
13,200.00	7,730.00	8,314.39	7,963.67	129.63	44.56	91.88	1,626.49	-1,509.84	7,968.60	7,862.94	105.66	75.418		
13,300.00	7,730.00	8,313.68	7,962.96	129.66	44.56	91.87	1,626.49	-1,509.87	8,007.03	7,900.85	106.18	75.412		
13,400.00	7,730.00	8,312.97	7,962.25	129.72	44.56	91.87	1,626.48	-1,509.89	8,046.52	7,939.83	106.69	75.418		
13,500.00	7,730.00	8,312.27	7,961.55	129.78	44.56	91.86	1,626.48	-1,509.92	8,087.05	7,979.84	107.21	75.433		
13,600.00	7,730.00	8,311.57	7,960.85	129.86	44.56	91.86	1,626.47	-1,509.94	8,128.61	8,020.89	107.72	75.459		
13,700.00	7,730.00	8,310.88	7,960.16	129.96	44.55	91.85	1,626.47	-1,509.97	8,171.19	8,062.95	108.23	75.495		
13,800.00	7,730.00	8,310.19	7,959.47	130.07	44.55	91.85	1,626.46	-1,509.99	8,214.76	8,106.01	108.74	75.542		
13,900.00	7,730.00	8,309.50	7,958.78	130.19	44.55	91.84	1,626.46	-1,510.02	8,259.31	8,150.06	109.25	75.599		
14,000.00	7,730.00	8,308.82	7,958.10	130.33	44.55	91.83	1,626.45	-1,510.04	8,304.83	8,195.07	109.76	75.666		
14,100.00	7,730.00	8,308.15	7,957.43	130.49	44.55	91.83	1,626.45	-1,510.07	8,351.29	8,241.04	110.26	75.743		
14,200.00	7,730.00	8,307.48	7,956.76	130.67	44.55	91.82	1,626.45	-1,510.09	8,398.69	8,287.94	110.76	75.831		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	8,306.81	7,956.09	130.86	44.55	91.82	1,626.44	-1,510.11	8,447.01	8,335.76	111.25	75.928		
14,400.00	7,730.00	8,306.15	7,955.43	131.07	44.55	91.81	1,626.44	-1,510.14	8,496.23	8,384.49	111.74	76.035		
14,500.00	7,730.00	8,305.49	7,954.77	131.30	44.54	91.81	1,626.43	-1,510.16	8,546.34	8,434.11	112.23	76.152		
14,600.00	7,730.00	8,304.83	7,954.11	131.55	44.54	91.80	1,626.43	-1,510.18	8,597.31	8,484.60	112.71	76.279		
14,700.00	7,730.00	8,304.18	7,953.46	131.82	44.54	91.80	1,626.42	-1,510.21	8,649.15	8,535.96	113.19	76.415		
14,800.00	7,730.00	8,303.54	7,952.82	132.11	44.54	91.79	1,626.42	-1,510.23	8,701.82	8,588.16	113.66	76.560		
14,900.00	7,730.00	8,302.89	7,952.18	132.42	44.54	91.79	1,626.41	-1,510.25	8,755.32	8,641.19	114.13	76.715		
15,000.00	7,730.00	8,302.25	7,951.54	132.75	44.54	91.78	1,626.41	-1,510.28	8,809.63	8,695.04	114.59	76.879		
15,100.00	7,730.00	8,301.62	7,950.90	133.10	44.54	91.78	1,626.41	-1,510.30	8,864.73	8,749.68	115.05	77.052		
15,200.00	7,730.00	8,300.99	7,950.27	133.48	44.54	91.77	1,626.40	-1,510.32	8,920.62	8,805.11	115.50	77.233		
15,300.00	7,730.00	8,300.36	7,949.65	133.88	44.53	91.77	1,626.40	-1,510.34	8,977.27	8,861.32	115.95	77.423		
15,400.00	7,730.00	8,299.74	7,949.03	134.31	44.53	91.76	1,626.39	-1,510.37	9,034.67	8,918.28	116.39	77.621		
15,500.00	7,730.00	8,299.12	7,948.41	134.76	44.53	91.76	1,626.39	-1,510.39	9,092.81	8,975.98	116.83	77.828		
15,600.00	7,730.00	8,298.51	7,947.79	135.23	44.53	91.75	1,626.39	-1,510.41	9,151.67	9,034.41	117.26	78.043		
15,700.00	7,730.00	8,297.89	7,947.18	135.73	44.53	91.75	1,626.38	-1,510.43	9,211.25	9,093.55	117.69	78.266		
15,800.00	7,730.00	8,297.29	7,946.57	136.26	44.53	91.75	1,626.38	-1,510.45	9,271.51	9,153.40	118.11	78.497		
15,900.00	7,730.00	8,296.68	7,945.97	136.81	44.53	91.74	1,626.37	-1,510.47	9,332.46	9,213.93	118.53	78.736		
16,000.00	7,730.00	8,296.08	7,945.37	137.39	44.53	91.74	1,626.37	-1,510.50	9,394.08	9,275.14	118.94	78.982		
16,100.00	7,730.00	8,295.49	7,944.77	138.00	44.52	91.73	1,626.37	-1,510.52	9,456.36	9,337.01	119.35	79.235		
16,200.00	7,730.00	8,294.89	7,944.18	138.63	44.52	91.73	1,626.36	-1,510.54	9,519.28	9,399.53	119.75	79.496		
16,300.00	7,730.00	8,294.30	7,943.59	139.30	44.52	91.72	1,626.36	-1,510.56	9,582.83	9,462.69	120.14	79.763		
16,400.00	7,730.00	8,293.72	7,943.01	139.99	44.52	91.72	1,626.35	-1,510.58	9,646.99	9,526.46	120.53	80.038		
16,500.00	7,730.00	8,293.13	7,942.42	140.70	44.52	91.71	1,626.35	-1,510.60	9,711.77	9,590.85	120.91	80.320		
16,600.00	7,730.00	8,292.56	7,941.85	141.45	44.52	91.71	1,626.35	-1,510.62	9,777.13	9,655.84	121.29	80.608		
16,700.00	7,730.00	8,291.98	7,941.27	142.22	44.52	91.70	1,626.34	-1,510.64	9,843.08	9,721.42	121.67	80.902		
16,800.00	7,730.00	8,291.41	7,940.70	143.03	44.52	91.70	1,626.34	-1,510.66	9,909.60	9,787.57	122.03	81.203		
16,900.00	7,730.00	8,290.84	7,940.13	143.86	44.52	91.70	1,626.34	-1,510.68	9,976.68	9,854.28	122.40	81.511		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-40.12	218.94	-184.52	286.44					
100.00	100.00	91.20	91.20	0.13	0.15	-40.11	219.10	-184.53	286.45	286.17	0.28	1,013.464 ES		
200.00	199.98	190.34	190.33	0.49	0.41	-110.71	219.91	-184.23	287.50	286.59	0.90	318.753		
300.00	299.84	287.22	287.14	0.86	0.77	-110.89	222.90	-182.11	290.30	288.69	1.62	179.672		
400.00	399.45	385.38	385.05	1.23	1.13	-111.07	228.76	-178.41	295.50	293.15	2.35	125.536		
500.00	498.70	482.83	481.92	1.63	1.50	-111.08	237.32	-172.15	302.37	299.25	3.12	96.896		
600.00	597.47	576.72	574.72	2.05	1.88	-110.90	248.95	-164.08	311.80	307.88	3.92	79.514		
700.00	695.62	667.84	664.26	2.51	2.29	-110.70	263.52	-155.55	324.68	319.92	4.76	68.241		
800.00	793.06	763.61	757.88	3.00	2.73	-110.65	281.49	-146.32	340.68	335.02	5.66	60.144		
900.00	889.64	855.26	847.18	3.53	3.17	-110.85	300.06	-137.44	359.02	352.42	6.60	54.410		
1,000.00	985.27	946.44	935.67	4.12	3.63	-111.26	320.41	-129.15	380.52	372.94	7.58	50.211		
1,100.00	1,079.82	1,042.84	1,029.09	4.75	4.13	-112.03	342.72	-120.94	404.38	395.74	8.63	46.843		
1,200.00	1,173.17	1,143.69	1,126.94	5.44	4.65	-113.19	365.50	-112.10	429.17	419.41	9.77	43.948		
1,300.00	1,265.21	1,241.63	1,222.01	6.18	5.16	-114.53	387.08	-102.81	454.78	443.86	10.92	41.642		
1,400.00	1,355.84	1,339.55	1,317.46	6.99	5.65	-116.23	407.17	-94.16	481.77	469.67	12.10	39.823		
1,500.00	1,444.94	1,424.35	1,400.07	7.87	6.08	-117.71	424.94	-87.02	511.47	498.26	13.21	38.720		
1,600.00	1,532.39	1,521.99	1,494.70	8.80	6.60	-119.34	447.20	-77.96	543.88	529.41	14.47	37.594		
1,700.00	1,618.11	1,618.47	1,587.72	9.81	7.13	-120.79	470.34	-67.04	577.68	561.91	15.77	36.629		
1,800.00	1,701.97	1,713.29	1,678.99	10.89	7.66	-122.18	493.27	-55.38	613.15	596.05	17.09	35.868		
1,900.00	1,783.88	1,806.66	1,769.11	12.04	8.18	-123.66	514.82	-43.97	650.56	632.15	18.41	35.344		
2,000.00	1,863.74	1,898.67	1,858.34	13.26	8.67	-125.25	534.49	-33.08	690.11	670.43	19.69	35.052		
2,100.00	1,941.45	1,987.14	1,944.63	14.55	9.12	-126.91	551.36	-23.30	732.15	711.25	20.90	35.033 SF		
2,200.00	2,016.92	2,060.34	2,016.43	15.92	9.46	-128.25	563.79	-16.36	777.65	755.71	21.93	35.457		
2,292.11	2,084.36	2,139.21	2,094.13	17.25	9.82	-129.88	575.83	-10.22	823.04	800.11	22.93	35.892		
2,300.00	2,090.06	2,146.84	2,101.65	17.36	9.86	-130.11	576.98	-9.58	827.00	803.98	23.02	35.920		
2,400.00	2,162.18	2,234.73	2,188.17	18.84	10.26	-132.61	590.15	-1.50	877.31	853.22	24.10	36.410		
2,500.00	2,234.31	2,317.95	2,269.97	20.33	10.65	-134.69	603.05	6.65	928.37	903.25	25.12	36.959		
2,600.00	2,306.43	2,399.72	2,350.04	21.83	11.04	-136.44	617.18	15.29	980.09	953.95	26.14	37.495		
2,700.00	2,378.56	2,479.61	2,428.15	23.33	11.44	-137.95	631.65	23.77	1,032.60	1,005.46	27.14	38.044		
2,800.00	2,450.68	2,563.69	2,510.38	24.84	11.86	-139.40	646.77	32.73	1,085.58	1,057.41	28.17	38.540		
2,900.00	2,522.81	2,641.49	2,586.35	26.36	12.25	-140.59	661.30	41.06	1,139.09	1,109.96	29.14	39.095		
3,000.00	2,594.93	2,716.77	2,659.77	27.88	12.63	-141.62	675.99	48.96	1,193.31	1,163.22	30.09	39.664		
3,100.00	2,667.06	2,842.53	2,782.73	29.40	13.25	-143.29	698.14	63.07	1,247.14	1,215.69	31.45	39.655		
3,200.00	2,739.18	2,921.32	2,859.89	30.92	13.63	-144.29	710.50	73.13	1,299.58	1,267.23	32.36	40.164		
3,300.00	2,811.31	3,000.03	2,936.84	32.45	14.02	-145.19	723.63	83.20	1,352.44	1,319.16	33.28	40.643		
3,400.00	2,883.43	3,122.36	3,055.97	33.98	14.64	-146.39	745.52	100.25	1,404.85	1,370.25	34.60	40.600		
3,500.00	2,955.56	3,179.97	3,111.90	35.51	14.95	-146.88	756.50	108.67	1,456.86	1,421.48	35.38	41.183		
3,600.00	3,027.68	3,247.09	3,177.14	37.04	15.30	-147.41	769.49	117.60	1,510.17	1,473.95	36.22	41.697		
3,700.00	3,099.81	3,321.36	3,249.67	38.57	15.68	-148.03	782.60	126.75	1,564.32	1,527.22	37.10	42.169		
3,800.00	3,171.93	3,408.54	3,334.70	40.11	16.11	-148.69	798.50	137.51	1,618.65	1,580.56	38.10	42.486		
3,900.00	3,244.06	3,462.44	3,387.19	41.64	16.40	-149.04	809.10	143.74	1,673.82	1,635.02	38.80	43.144		
4,000.00	3,316.18	3,563.31	3,485.36	43.18	16.92	-149.65	829.41	154.80	1,729.74	1,689.77	39.97	43.271		
4,100.00	3,388.31	3,657.91	3,577.39	44.71	17.41	-150.20	847.84	166.60	1,784.35	1,743.27	41.08	43.435		
4,200.00	3,460.43	3,747.97	3,664.79	46.25	17.89	-150.66	866.22	178.20	1,838.78	1,796.63	42.16	43.618		
4,300.00	3,532.56	3,820.52	3,735.33	47.79	18.27	-151.03	880.37	187.55	1,893.24	1,850.20	43.04	43.990		
4,400.00	3,604.68	3,923.78	3,835.55	49.33	18.82	-151.49	901.61	200.49	1,948.20	1,903.94	44.26	44.019		
4,500.00	3,676.81	3,995.93	3,905.10	50.87	19.22	-151.74	917.95	210.59	2,002.03	1,956.84	45.19	44.306		
4,600.00	3,748.93	4,054.00	3,961.38	52.41	19.54	-151.95	930.44	217.46	2,057.45	2,011.50	45.94	44.781		
4,700.00	3,821.06	4,113.65	4,019.39	53.95	19.85	-152.19	942.83	223.82	2,113.87	2,067.18	46.70	45.269		
4,800.00	3,893.18	4,186.48	4,090.23	55.49	20.23	-152.46	957.86	231.56	2,170.50	2,122.92	47.58	45.615		
4,900.00	3,965.31	4,255.48	4,157.47	57.03	20.58	-152.72	971.75	238.37	2,227.76	2,179.34	48.42	46.012		
5,000.00	4,037.43	4,370.03	4,269.49	58.58	21.15	-153.19	992.60	250.15	2,284.73	2,235.04	49.69	45.981		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,462.11	4,359.69	60.12	21.59	-153.60	1,007.62	260.93	2,340.49	2,289.81	50.68	46.178		
5,200.00	4,181.68	4,522.00	4,418.46	61.66	21.88	-153.86	1,017.13	267.47	2,396.96	2,345.60	51.36	46.673		
5,300.00	4,253.81	4,567.68	4,463.38	63.20	22.09	-154.07	1,024.08	271.92	2,454.43	2,402.56	51.87	47.320		
5,400.00	4,325.93	4,615.00	4,510.07	64.75	22.30	-154.29	1,030.69	275.94	2,513.02	2,460.65	52.38	47.979		
5,500.00	4,398.06	4,668.42	4,562.94	66.29	22.52	-154.56	1,037.28	279.85	2,572.61	2,519.71	52.91	48.626		
5,600.00	4,470.18	4,709.00	4,603.20	67.84	22.69	-154.77	1,041.57	282.44	2,633.13	2,579.84	53.29	49.407		
5,700.00	4,542.31	4,764.98	4,658.88	69.38	22.89	-155.09	1,046.61	285.40	2,694.56	2,640.77	53.79	50.094		
5,800.00	4,614.43	4,811.26	4,704.98	70.92	23.06	-155.36	1,050.11	287.25	2,757.01	2,702.83	54.18	50.885		
5,900.00	4,686.56	4,862.78	4,756.37	72.47	23.23	-155.67	1,053.37	288.84	2,820.29	2,765.70	54.59	51.659		
6,000.00	4,758.68	4,915.33	4,808.84	74.01	23.39	-155.99	1,056.05	290.02	2,884.32	2,829.32	55.00	52.442		
6,100.00	4,830.81	4,970.67	4,864.14	75.56	23.56	-156.35	1,057.91	290.91	2,948.97	2,893.56	55.40	53.226		
6,200.00	4,902.93	5,039.52	4,932.98	77.10	23.76	-156.80	1,059.13	291.73	3,014.10	2,958.20	55.90	53.922		
6,300.00	4,975.06	5,111.09	5,004.54	78.65	23.95	-157.26	1,060.12	292.61	3,079.34	3,022.93	56.40	54.595		
6,400.00	5,047.18	5,176.12	5,069.56	80.19	24.12	-157.67	1,060.31	293.31	3,144.84	3,087.99	56.85	55.321		
6,500.00	5,119.31	5,214.93	5,108.37	81.74	24.22	-157.92	1,060.27	293.49	3,210.95	3,153.86	57.09	56.246		
6,600.00	5,191.43	5,252.76	5,146.20	83.28	24.32	-158.15	1,060.43	293.24	3,277.93	3,220.61	57.32	57.185		
6,700.00	5,263.56	5,304.15	5,197.58	84.83	24.45	-158.44	1,060.90	292.40	3,345.68	3,288.01	57.67	58.016		
6,800.00	5,335.68	5,368.72	5,262.14	86.37	24.62	-158.81	1,061.54	291.16	3,413.75	3,355.63	58.13	58.728		
6,900.00	5,407.81	5,452.31	5,345.71	87.92	24.83	-159.25	1,062.40	289.64	3,481.84	3,423.09	58.75	59.265		
7,000.00	5,479.93	5,531.74	5,425.12	89.47	25.04	-159.67	1,063.06	288.45	3,549.80	3,490.46	59.34	59.822		
7,100.00	5,552.06	5,591.85	5,485.23	91.01	25.20	-159.97	1,063.31	287.58	3,617.83	3,558.06	59.77	60.531		
7,200.00	5,624.18	5,646.06	5,539.43	92.56	25.34	-160.25	1,063.36	286.56	3,686.26	3,626.11	60.15	61.285		
7,300.00	5,696.31	5,728.80	5,622.16	94.10	25.55	-160.65	1,063.36	284.96	3,754.82	3,694.05	60.76	61.793		
7,400.00	5,768.43	5,797.89	5,691.23	95.65	25.73	-160.97	1,063.46	283.73	3,823.33	3,762.05	61.28	62.395		
7,500.00	5,840.56	5,897.36	5,790.69	97.20	25.99	-161.41	1,063.83	282.10	3,891.83	3,829.78	62.05	62.723		
7,600.00	5,912.68	5,963.50	5,858.83	98.74	26.17	-161.69	1,064.21	281.43	3,959.91	3,897.36	62.55	63.305		
7,700.00	5,984.81	6,018.00	5,911.32	100.29	26.31	-161.92	1,064.42	280.56	4,028.44	3,965.48	62.96	63.981		
7,800.00	6,056.93	6,128.49	6,021.80	101.84	26.61	-162.36	1,064.63	279.14	4,096.90	4,033.06	63.83	64.181		
7,900.00	6,129.06	6,201.56	6,094.86	103.38	26.81	-162.65	1,064.78	278.58	4,164.99	4,100.59	64.40	64.671		
8,000.00	6,201.18	6,251.63	6,144.94	104.93	26.95	-162.84	1,064.90	278.13	4,233.24	4,168.45	64.79	65.341		
8,100.00	6,273.31	6,300.74	6,194.04	106.48	27.08	-163.02	1,065.05	277.42	4,301.92	4,236.75	65.16	66.016		
8,200.00	6,345.43	6,393.86	6,287.15	108.02	27.34	-163.35	1,065.30	276.06	4,370.64	4,304.73	65.91	66.308		
8,300.00	6,417.56	6,476.34	6,369.62	109.57	27.57	-163.64	1,065.39	275.20	4,439.15	4,372.57	66.57	66.680		
8,400.00	6,489.68	6,527.27	6,442.54	111.12	27.97	-164.17	1,064.00	275.66	4,506.68	4,438.91	67.77	66.504		
8,500.00	6,561.81	6,598.44	6,591.70	112.66	28.17	-164.41	1,062.94	276.45	4,573.90	4,505.58	68.32	66.952		
8,600.00	6,633.93	6,759.97	6,653.22	114.21	28.33	-164.62	1,062.19	277.00	4,641.29	4,572.49	68.80	67.463		
8,700.00	6,706.06	6,829.45	6,722.70	115.76	28.52	-164.84	1,061.57	277.47	4,708.84	4,639.49	69.35	67.900		
8,800.00	6,778.18	6,915.27	6,808.51	117.30	28.76	-165.10	1,061.10	278.07	4,776.40	4,706.36	70.04	68.191		
8,900.00	6,850.31	6,995.82	6,889.05	118.85	29.00	-165.33	1,061.08	278.84	4,843.73	4,773.03	70.71	68.502		
9,000.00	6,922.43	7,065.23	6,958.46	120.40	29.20	-165.52	1,061.58	279.41	4,911.13	4,839.83	71.30	68.883		
9,100.00	6,994.56	7,137.73	7,030.96	121.95	29.42	-165.71	1,062.17	279.98	4,978.57	4,906.66	71.92	69.228		
9,200.00	7,066.68	7,304.98	7,198.18	123.49	29.94	-166.12	1,063.75	282.56	5,045.62	4,972.29	73.33	68.806		
9,300.00	7,138.81	7,397.17	7,290.33	125.04	30.22	-166.35	1,064.30	285.35	5,111.49	5,037.38	74.11	68.971		
9,392.50	7,205.52	7,455.49	7,348.62	126.47	30.40	-166.49	1,064.47	287.13	5,172.49	5,097.88	74.61	69.325		
9,400.00	7,210.94	7,459.77	7,352.90	126.59	30.42	-167.92	1,064.50	287.25	5,177.45	5,102.80	74.65	69.357		
9,450.00	7,247.42	7,488.53	7,381.64	127.35	30.51	-177.57	1,064.75	288.03	5,210.42	5,135.51	74.90	69.563		
9,500.00	7,284.35	7,518.75	7,411.85	128.10	30.60	172.73	1,065.15	288.77	5,243.10	5,167.93	75.17	69.750		
9,550.00	7,321.43	7,562.01	7,455.09	128.83	30.74	163.21	1,065.84	289.81	5,275.20	5,199.65	75.55	69.823		
9,600.00	7,358.38	7,605.09	7,498.15	129.52	30.88	154.06	1,066.60	290.88	5,306.44	5,230.51	75.93	69.886		
9,650.00	7,394.93	7,648.59	7,541.63	130.16	31.02	145.45	1,067.36	292.01	5,336.60	5,260.28	76.31	69.931		
9,700.00	7,430.79	7,691.48	7,584.50	130.76	31.15	137.48	1,067.99	293.20	5,365.48	5,288.79	76.69	69.966		
9,750.00	7,465.70	7,703.00	7,596.02	131.30	31.19	130.02	1,068.13	293.53	5,392.98	5,316.19	76.80	70.223		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,737.18	7,630.18	131.78	31.30	123.46	1,068.51	294.44	5,418.93	5,341.83	77.10	70.284		
9,850.00	7,531.58	7,755.74	7,648.74	132.21	31.36	117.52	1,068.68	294.87	5,443.27	5,366.00	77.28	70.437		
9,900.00	7,562.06	7,773.26	7,666.25	132.57	31.41	112.29	1,068.81	295.24	5,465.83	5,388.38	77.45	70.568		
9,950.00	7,590.58	7,797.00	7,689.99	132.87	31.49	107.80	1,068.95	295.67	5,486.48	5,408.79	77.69	70.616		
10,000.00	7,616.93	7,806.37	7,699.35	133.11	31.51	103.83	1,069.00	295.82	5,505.09	5,427.26	77.83	70.733		
10,050.00	7,640.90	7,823.03	7,716.01	133.29	31.57	100.52	1,069.09	296.08	5,521.55	5,443.51	78.04	70.750		
10,100.00	7,662.32	7,837.86	7,730.84	133.42	31.61	97.74	1,069.16	296.28	5,535.79	5,457.53	78.26	70.732		
10,150.00	7,681.01	7,850.75	7,743.73	133.50	31.65	95.46	1,069.23	296.45	5,547.73	5,469.23	78.50	70.674		
10,200.00	7,696.85	7,861.61	7,754.59	133.52	31.69	93.65	1,069.29	296.58	5,557.32	5,478.58	78.74	70.576		
10,250.00	7,709.70	7,870.38	7,763.36	133.51	31.71	92.26	1,069.33	296.67	5,564.51	5,485.50	79.00	70.433		
10,300.00	7,719.47	7,877.00	7,769.98	133.46	31.73	91.29	1,069.37	296.74	5,569.27	5,489.99	79.28	70.244		
10,350.00	7,726.09	7,881.41	7,774.39	133.37	31.75	90.71	1,069.39	296.79	5,571.59	5,492.00	79.59	70.008		
10,400.00	7,729.50	7,890.00	7,782.98	133.26	31.77	90.58	1,069.43	296.87	5,571.45	5,491.49	79.96	69.676		
10,427.79	7,730.00	7,890.00	7,782.98	133.18	31.77	90.63	1,069.43	296.87	5,570.32	5,490.17	80.15	69.500		
10,500.00	7,730.00	7,890.00	7,782.98	132.98	31.77	90.63	1,069.43	296.87	5,566.85	5,486.19	80.66	69.015		
10,600.00	7,730.00	7,890.00	7,782.98	132.72	31.77	90.63	1,069.43	296.87	5,563.60	5,482.19	81.41	68.343		
10,700.00	7,730.00	7,890.00	7,782.98	132.47	31.77	90.63	1,069.43	296.87	5,562.14	5,479.95	82.19	67.673		
10,731.20	7,730.00	7,890.00	7,782.98	132.39	31.77	90.63	1,069.43	296.87	5,562.05	5,479.60	82.45	67.461		
10,800.00	7,730.00	7,890.00	7,782.98	132.22	31.77	90.63	1,069.43	296.87	5,562.47	5,479.46	83.01	67.010		
10,900.00	7,730.00	7,890.00	7,782.98	131.99	31.77	90.63	1,069.43	296.87	5,564.61	5,480.75	83.86	66.356		
11,000.00	7,730.00	7,881.79	7,774.77	131.77	31.75	90.54	1,069.39	296.79	5,568.53	5,483.86	84.67	65.768		
11,100.00	7,730.00	7,881.43	7,774.41	131.56	31.75	90.54	1,069.39	296.79	5,574.25	5,488.68	85.57	65.142		
11,200.00	7,730.00	7,881.07	7,774.05	131.36	31.75	90.54	1,069.39	296.78	5,581.76	5,495.27	86.49	64.533		
11,300.00	7,730.00	7,880.71	7,773.69	131.17	31.74	90.53	1,069.38	296.78	5,591.05	5,503.61	87.44	63.943		
11,400.00	7,730.00	7,880.35	7,773.33	130.99	31.74	90.53	1,069.38	296.78	5,602.10	5,513.71	88.40	63.375		
11,500.00	7,730.00	7,879.99	7,772.97	130.82	31.74	90.53	1,069.38	296.77	5,614.92	5,525.55	89.37	62.829		
11,600.00	7,730.00	7,879.63	7,772.61	130.66	31.74	90.52	1,069.38	296.77	5,629.48	5,539.13	90.35	62.307		
11,700.00	7,730.00	7,879.27	7,772.25	130.51	31.74	90.52	1,069.38	296.77	5,645.78	5,554.44	91.34	61.810		
11,800.00	7,730.00	7,878.91	7,771.89	130.37	31.74	90.51	1,069.38	296.76	5,663.79	5,571.46	92.34	61.339		
11,900.00	7,730.00	7,878.55	7,771.53	130.24	31.74	90.51	1,069.37	296.76	5,683.51	5,590.18	93.33	60.895		
12,000.00	7,730.00	7,878.19	7,771.17	130.13	31.74	90.51	1,069.37	296.75	5,704.91	5,610.58	94.33	60.478		
12,100.00	7,730.00	7,877.84	7,770.81	130.02	31.74	90.50	1,069.37	296.75	5,727.98	5,632.66	95.33	60.089		
12,200.00	7,730.00	7,877.48	7,770.45	129.93	31.73	90.50	1,069.37	296.75	5,752.70	5,656.38	96.32	59.727		
12,300.00	7,730.00	7,877.12	7,770.10	129.85	31.73	90.50	1,069.37	296.74	5,779.04	5,681.74	97.30	59.393		
12,400.00	7,730.00	7,876.76	7,769.74	129.77	31.73	90.49	1,069.36	296.74	5,806.98	5,708.70	98.28	59.087		
12,500.00	7,730.00	7,876.40	7,769.38	129.71	31.73	90.49	1,069.36	296.74	5,836.50	5,737.26	99.25	58.808		
12,600.00	7,730.00	7,876.04	7,769.02	129.66	31.73	90.48	1,069.36	296.73	5,867.58	5,767.38	100.20	58.556		
12,700.00	7,730.00	7,875.68	7,768.66	129.63	31.73	90.48	1,069.36	296.73	5,900.19	5,799.04	101.15	58.332		
12,800.00	7,730.00	7,875.32	7,768.30	129.60	31.73	90.48	1,069.36	296.73	5,934.31	5,832.23	102.08	58.133		
12,900.00	7,730.00	7,874.96	7,767.94	129.59	31.73	90.47	1,069.35	296.72	5,969.90	5,866.91	103.00	57.961		
13,000.00	7,730.00	7,874.60	7,767.58	129.59	31.73	90.47	1,069.35	296.72	6,006.95	5,903.05	103.90	57.814		
13,100.00	7,730.00	7,874.24	7,767.22	129.60	31.72	90.47	1,069.35	296.71	6,045.43	5,940.64	104.79	57.693		
13,200.00	7,730.00	7,873.88	7,766.86	129.63	31.72	90.46	1,069.35	296.71	6,085.31	5,979.65	105.66	57.595		
13,300.00	7,730.00	7,873.52	7,766.50	129.66	31.72	90.46	1,069.35	296.71	6,126.56	6,020.05	106.51	57.522		
13,400.00	7,730.00	7,873.17	7,766.14	129.72	31.72	90.45	1,069.35	296.70	6,169.15	6,061.81	107.34	57.472		
13,500.00	7,730.00	7,872.81	7,765.79	129.78	31.72	90.45	1,069.34	296.70	6,213.07	6,104.91	108.16	57.444		
13,600.00	7,730.00	7,872.45	7,765.43	129.86	31.72	90.45	1,069.34	296.70	6,258.27	6,149.31	108.96	57.438		
13,700.00	7,730.00	7,872.09	7,765.07	129.96	31.72	90.44	1,069.34	296.69	6,304.74	6,195.00	109.74	57.454		
13,800.00	7,730.00	7,871.73	7,764.71	130.07	31.72	90.44	1,069.34	296.69	6,352.44	6,241.94	110.50	57.490		
13,900.00	7,730.00	7,871.37	7,764.35	130.19	31.72	90.44	1,069.34	296.68	6,401.34	6,290.11	111.24	57.547		
14,000.00	7,730.00	7,871.01	7,763.99	130.33	31.71	90.43	1,069.33	296.68	6,451.43	6,339.47	111.96	57.623		
14,100.00	7,730.00	7,870.65	7,763.63	130.49	31.71	90.43	1,069.33	296.68	6,502.67	6,390.00	112.66	57.718		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,870.29	7,763.27	130.67	31.71	90.43	1,069.33	296.67	6,555.03	6,441.68	113.35	57.832		
14,300.00	7,730.00	7,869.93	7,762.91	130.86	31.71	90.42	1,069.33	296.67	6,608.49	6,494.48	114.01	57.963		
14,400.00	7,730.00	7,869.58	7,762.56	131.07	31.71	90.42	1,069.33	296.66	6,663.02	6,548.36	114.66	58.112		
14,500.00	7,730.00	7,869.22	7,762.20	131.30	31.71	90.41	1,069.33	296.66	6,718.60	6,603.31	115.29	58.277		
14,600.00	7,730.00	7,868.86	7,761.84	131.55	31.71	90.41	1,069.32	296.66	6,775.20	6,659.30	115.90	58.458		
14,700.00	7,730.00	7,868.50	7,761.48	131.82	31.71	90.41	1,069.32	296.65	6,832.80	6,716.30	116.49	58.655		
14,800.00	7,730.00	7,868.14	7,761.12	132.11	31.71	90.40	1,069.32	296.65	6,891.36	6,774.29	117.07	58.867		
14,900.00	7,730.00	7,867.78	7,760.76	132.42	31.70	90.40	1,069.32	296.65	6,950.87	6,833.24	117.62	59.094		
15,000.00	7,730.00	7,867.42	7,760.40	132.75	31.70	90.40	1,069.32	296.64	7,011.30	6,893.13	118.17	59.334		
15,100.00	7,730.00	7,867.06	7,760.04	133.10	31.70	90.39	1,069.31	296.64	7,072.63	6,953.94	118.69	59.589		
15,200.00	7,730.00	7,866.71	7,759.69	133.48	31.70	90.39	1,069.31	296.63	7,134.83	7,015.63	119.20	59.856		
15,300.00	7,730.00	7,866.35	7,759.33	133.88	31.70	90.38	1,069.31	296.63	7,197.88	7,078.19	119.69	60.137		
15,400.00	7,730.00	7,865.99	7,758.97	134.31	31.70	90.38	1,069.31	296.63	7,261.77	7,141.60	120.17	60.429		
15,500.00	7,730.00	7,865.63	7,758.61	134.76	31.70	90.38	1,069.31	296.62	7,326.46	7,205.83	120.63	60.734		
15,600.00	7,730.00	7,865.27	7,758.25	135.23	31.70	90.37	1,069.30	296.62	7,391.94	7,270.86	121.08	61.050		
15,700.00	7,730.00	7,864.91	7,757.89	135.73	31.70	90.37	1,069.30	296.61	7,458.18	7,336.67	121.51	61.378		
15,800.00	7,730.00	7,864.56	7,757.53	136.26	31.69	90.37	1,069.30	296.61	7,525.17	7,403.24	121.93	61.716		
15,900.00	7,730.00	7,864.20	7,757.18	136.81	31.69	90.36	1,069.30	296.61	7,592.89	7,470.55	122.34	62.064		
16,000.00	7,730.00	7,863.84	7,756.82	137.39	31.69	90.36	1,069.30	296.60	7,661.31	7,538.58	122.73	62.423		
16,100.00	7,730.00	7,863.48	7,756.46	138.00	31.69	90.35	1,069.30	296.60	7,730.42	7,607.31	123.11	62.791		
16,200.00	7,730.00	7,863.12	7,756.10	138.63	31.69	90.35	1,069.29	296.59	7,800.20	7,676.72	123.48	63.169		
16,300.00	7,730.00	7,862.76	7,755.74	139.30	31.69	90.35	1,069.29	296.59	7,870.63	7,746.79	123.84	63.556		
16,400.00	7,730.00	7,862.40	7,755.38	139.99	31.69	90.34	1,069.29	296.59	7,941.70	7,817.52	124.18	63.952		
16,500.00	7,730.00	7,862.05	7,755.03	140.70	31.69	90.34	1,069.29	296.58	8,013.38	7,888.87	124.51	64.357		
16,600.00	7,730.00	7,861.69	7,754.67	141.45	31.69	90.34	1,069.29	296.58	8,085.67	7,960.83	124.84	64.770		
16,700.00	7,730.00	7,861.33	7,754.31	142.22	31.68	90.33	1,069.28	296.57	8,158.54	8,033.39	125.15	65.190		
16,800.00	7,730.00	7,860.97	7,753.95	143.03	31.68	90.33	1,069.28	296.57	8,231.98	8,106.53	125.45	65.619		
16,900.00	7,730.00	7,860.61	7,753.59	143.86	31.68	90.33	1,069.28	296.56	8,305.98	8,180.23	125.74	66.055		
17,000.00	7,730.00	7,860.26	7,753.24	144.71	31.68	90.32	1,069.28	296.56	8,380.51	8,254.48	126.03	66.498		
17,100.00	7,730.00	7,859.90	7,752.88	145.60	31.68	90.32	1,069.28	296.56	8,455.57	8,329.27	126.30	66.948		
17,200.00	7,730.00	7,859.54	7,752.52	146.51	31.68	90.31	1,069.27	296.55	8,531.14	8,404.58	126.56	67.406		
17,300.00	7,730.00	7,859.18	7,752.16	147.44	31.68	90.31	1,069.27	296.55	8,607.21	8,480.39	126.82	67.869		
17,400.00	7,730.00	7,858.82	7,751.80	148.40	31.68	90.31	1,069.27	296.54	8,683.77	8,556.70	127.07	68.339		
17,500.00	7,730.00	7,858.46	7,751.44	149.39	31.68	90.30	1,069.27	296.54	8,760.80	8,633.49	127.31	68.816		
17,600.00	7,730.00	7,858.11	7,751.09	150.40	31.67	90.30	1,069.27	296.54	8,838.29	8,710.75	127.54	69.298		
17,700.00	7,730.00	7,857.75	7,750.73	151.44	31.67	90.30	1,069.27	296.53	8,916.22	8,788.46	127.77	69.786		
17,800.00	7,730.00	7,857.39	7,750.37	152.50	31.67	90.29	1,069.26	296.53	8,994.60	8,866.61	127.98	70.280		
17,900.00	7,730.00	7,857.03	7,750.01	153.58	31.67	90.29	1,069.26	296.52	9,073.40	8,945.20	128.19	70.779		
18,000.00	7,730.00	7,856.67	7,749.66	154.68	31.67	90.28	1,069.26	296.52	9,152.61	9,024.21	128.40	71.283		
18,100.00	7,730.00	7,856.32	7,749.30	155.80	31.67	90.28	1,069.26	296.51	9,232.22	9,103.63	128.60	71.793		
18,200.00	7,730.00	7,855.96	7,748.94	156.95	31.67	90.28	1,069.26	296.51	9,312.23	9,183.45	128.79	72.308		
18,300.00	7,730.00	7,855.60	7,748.58	158.11	31.67	90.27	1,069.25	296.51	9,392.62	9,263.65	128.97	72.827		
18,400.00	7,730.00	7,855.24	7,748.22	159.30	31.67	90.27	1,069.25	296.50	9,473.39	9,344.24	129.15	73.351		
18,500.00	7,730.00	7,854.89	7,747.87	160.50	31.66	90.27	1,069.25	296.50	9,554.52	9,425.19	129.33	73.880		
18,600.00	7,730.00	7,854.53	7,747.51	161.72	31.66	90.26	1,069.25	296.49	9,636.00	9,506.51	129.49	74.413		
18,700.00	7,730.00	7,854.17	7,747.15	162.96	31.66	90.26	1,069.25	296.49	9,717.83	9,588.18	129.66	74.950		
18,800.00	7,730.00	7,853.81	7,746.79	164.21	31.66	90.26	1,069.25	296.48	9,800.00	9,670.18	129.82	75.491		
18,900.00	7,730.00	7,853.45	7,746.44	165.48	31.66	90.25	1,069.24	296.48	9,882.50	9,752.53	129.97	76.036		
19,000.00	7,730.00	7,853.10	7,746.08	166.76	31.66	90.25	1,069.24	296.48	9,965.31	9,835.19	130.12	76.586		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-35.07	218.94	-153.72	267.63				
100.00	100.00	90.95	90.95	0.13	0.15	-35.05	219.15	-153.73	267.70	267.41	0.28	947.907	
200.00	199.98	190.29	190.28	0.49	0.41	-105.77	219.78	-153.80	268.72	267.82	0.90	297.910	
300.00	299.84	289.79	289.79	0.86	0.77	-106.74	220.49	-153.98	270.87	269.25	1.62	167.061	
400.00	399.45	394.08	394.07	1.23	1.13	-108.44	220.84	-153.81	273.70	271.34	2.36	116.031	
500.00	498.70	503.77	503.71	1.63	1.51	-111.03	218.54	-151.84	275.07	271.95	3.12	88.141	
600.00	597.47	615.30	614.97	2.05	1.90	-114.45	212.65	-146.75	274.12	270.21	3.91	70.058	
700.00	695.62	727.04	725.92	2.51	2.32	-118.63	203.13	-137.72	270.84	266.12	4.73	57.320	
800.00	793.06	838.37	835.70	3.00	2.77	-123.49	190.70	-124.08	265.72	260.18	5.55	47.901	
900.00	889.64	946.18	941.04	3.53	3.25	-129.08	175.57	-106.92	259.66	253.29	6.37	40.766	
1,000.00	985.27	1,044.39	1,036.52	4.12	3.73	-134.89	160.69	-89.36	255.96	248.76	7.20	35.550	
1,037.06	1,020.44	1,081.77	1,072.79	4.35	3.91	-137.27	154.79	-82.53	255.70	248.18	7.51	34.038 CC, ES	
1,100.00	1,079.82	1,142.51	1,131.60	4.75	4.22	-141.36	144.70	-71.17	256.65	248.62	8.03	31.961	
1,200.00	1,173.17	1,233.17	1,219.62	5.44	4.69	-147.43	130.48	-54.80	264.28	255.40	8.88	29.777	
1,300.00	1,265.21	1,323.48	1,307.61	6.18	5.15	-153.30	116.82	-39.73	279.81	270.09	9.72	28.793	
1,400.00	1,355.84	1,415.43	1,397.32	6.99	5.61	-158.87	102.91	-25.11	302.47	291.90	10.57	28.626 SF	
1,500.00	1,444.94	1,509.92	1,489.36	7.87	6.10	-164.09	88.16	-9.65	330.72	319.29	11.44	28.918	
1,600.00	1,532.39	1,602.32	1,579.06	8.80	6.59	-168.73	72.77	6.31	363.84	351.51	12.33	29.520	
1,700.00	1,618.11	1,691.17	1,665.30	9.81	7.07	-172.59	58.08	21.89	401.89	388.67	13.22	30.403	
1,800.00	1,701.97	1,777.15	1,748.89	10.89	7.53	-175.72	44.47	36.67	444.74	430.63	14.11	31.525	
1,900.00	1,783.88	1,860.45	1,830.02	12.04	7.96	-178.27	31.63	50.53	492.09	477.10	14.99	32.835	
2,000.00	1,863.74	1,939.18	1,906.92	13.26	8.37	179.74	20.07	62.83	543.80	527.96	15.83	34.349	
2,100.00	1,941.45	2,019.46	1,985.66	14.55	8.76	178.14	9.49	74.32	599.51	582.83	16.68	35.944	
2,200.00	2,016.92	2,093.06	2,058.05	15.92	9.11	176.97	0.67	84.30	658.58	641.12	17.47	37.703	
2,292.11	2,084.36	2,154.26	2,118.33	17.25	9.40	176.09	-6.89	91.69	716.65	698.52	18.14	39.513	
2,300.00	2,090.06	2,160.41	2,124.39	17.36	9.43	176.02	-7.68	92.40	721.77	703.56	18.21	39.642	
2,400.00	2,162.18	2,238.33	2,200.97	18.84	9.80	175.08	-18.44	101.89	786.53	767.49	19.04	41.305	
2,500.00	2,234.31	2,319.64	2,280.51	20.33	10.21	174.08	-31.24	112.86	851.05	831.10	19.95	42.665	
2,600.00	2,306.43	2,402.29	2,361.05	21.83	10.64	173.11	-45.21	125.07	915.15	894.26	20.89	43.801	
2,700.00	2,378.56	2,487.83	2,444.43	23.33	11.09	172.27	-59.10	138.23	978.73	956.86	21.88	44.736	
2,800.00	2,450.68	2,576.72	2,531.10	24.84	11.55	171.55	-72.66	152.53	1,041.59	1,018.69	22.90	45.481	
2,900.00	2,522.81	2,665.22	2,617.31	26.36	12.02	170.93	-85.78	167.69	1,103.64	1,079.71	23.93	46.119	
3,000.00	2,594.93	2,749.13	2,699.11	27.88	12.46	170.44	-97.33	182.34	1,165.14	1,140.23	24.91	46.768	
3,100.00	2,667.06	2,822.96	2,771.11	29.40	12.85	170.06	-107.32	195.28	1,226.57	1,200.77	25.80	47.543	
3,200.00	2,739.18	2,882.44	2,829.14	30.92	13.16	169.78	-115.82	205.18	1,288.91	1,262.37	26.54	48.562	
3,300.00	2,811.31	2,955.09	2,900.03	32.45	13.54	169.44	-126.78	216.72	1,352.08	1,324.66	27.43	49.299	
3,400.00	2,883.43	3,034.52	2,977.47	33.98	13.96	169.09	-139.02	229.46	1,415.30	1,386.90	28.39	49.848	
3,500.00	2,955.56	3,109.54	3,050.51	35.51	14.35	168.76	-150.87	241.81	1,478.40	1,449.08	29.32	50.423	
3,600.00	3,027.68	3,174.16	3,113.49	37.04	14.69	168.51	-161.11	252.00	1,542.01	1,511.88	30.13	51.174	
3,700.00	3,099.81	3,273.00	3,210.02	38.57	15.21	168.21	-175.83	267.38	1,605.45	1,574.13	31.31	51.272	
3,800.00	3,171.93	3,342.46	3,277.91	40.11	15.56	168.03	-185.62	278.25	1,668.54	1,636.38	32.16	51.876	
3,900.00	3,244.06	3,417.03	3,350.81	41.64	15.94	167.85	-196.34	289.73	1,731.93	1,698.85	33.07	52.364	
4,000.00	3,316.18	3,493.06	3,425.08	43.18	16.34	167.66	-207.51	301.53	1,795.35	1,761.35	34.01	52.795	
4,100.00	3,388.31	3,568.34	3,498.67	44.71	16.72	167.50	-218.44	313.04	1,858.88	1,823.95	34.93	53.218	
4,200.00	3,460.43	3,645.45	3,574.06	46.25	17.12	167.35	-229.57	324.77	1,922.44	1,886.57	35.87	53.591	
4,300.00	3,532.56	3,718.07	3,645.18	47.79	17.48	167.24	-239.62	335.49	1,986.10	1,949.34	36.75	54.038	
4,400.00	3,604.68	3,805.71	3,731.12	49.33	17.92	167.13	-251.20	348.17	2,049.73	2,011.93	37.80	54.232	
4,500.00	3,676.81	3,903.21	3,826.40	50.87	18.42	166.97	-264.93	363.65	2,112.72	2,073.75	38.97	54.211	
4,600.00	3,748.93	3,985.02	3,906.21	52.41	18.84	166.83	-276.60	377.35	2,175.19	2,135.21	39.98	54.406	
4,700.00	3,821.06	4,068.81	3,988.25	53.95	19.27	166.75	-287.21	390.69	2,237.64	2,196.65	40.99	54.588	
4,800.00	3,893.18	4,143.40	4,061.15	55.49	19.65	166.66	-296.98	403.02	2,299.83	2,257.92	41.91	54.873	
4,900.00	3,965.31	4,198.60	4,114.88	57.03	19.95	166.55	-305.51	412.40	2,362.62	2,319.98	42.64	55.411	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,259.97	4,174.48	58.58	20.28	166.42	-315.89	422.71	2,426.07	2,382.62	43.45	55.842		
5,100.00	4,109.56	4,304.00	4,217.36	60.12	20.52	166.35	-323.03	429.69	2,490.06	2,446.03	44.04	56.545		
5,200.00	4,181.68	4,356.50	4,268.69	61.66	20.78	166.28	-331.15	437.13	2,554.88	2,510.18	44.70	57.156		
5,300.00	4,253.81	4,397.00	4,308.46	63.20	20.98	166.25	-337.12	441.93	2,620.82	2,575.61	45.21	57.971		
5,400.00	4,325.93	4,479.32	4,389.63	64.75	21.35	166.25	-347.86	450.40	2,687.17	2,641.01	46.16	58.217		
5,500.00	4,398.06	4,538.08	4,447.79	66.29	21.60	166.29	-354.29	455.74	2,753.55	2,706.74	46.81	58.822		
5,600.00	4,470.18	4,594.54	4,503.82	67.84	21.83	166.36	-359.84	460.02	2,820.47	2,773.05	47.42	59.475		
5,700.00	4,542.31	4,665.64	4,574.48	69.38	22.11	166.46	-366.08	464.72	2,887.64	2,839.48	48.16	59.956		
5,800.00	4,614.43	4,734.76	4,643.28	70.92	22.37	166.59	-371.38	468.77	2,954.91	2,906.05	48.86	60.474		
5,900.00	4,686.56	4,798.30	4,706.61	72.47	22.59	166.72	-375.54	471.93	3,022.34	2,972.85	49.49	61.071		
6,000.00	4,758.68	4,855.74	4,763.92	74.01	22.79	166.85	-378.60	474.10	3,090.13	3,040.10	50.04	61.754		
6,100.00	4,830.81	4,910.82	4,818.92	75.56	22.97	167.00	-381.15	475.61	3,158.33	3,107.78	50.55	62.476		
6,200.00	4,902.93	4,958.00	4,866.04	77.10	23.12	167.12	-383.40	476.66	3,226.98	3,175.99	50.99	63.285		
6,300.00	4,975.06	5,009.34	4,917.31	78.65	23.28	167.25	-385.94	477.43	3,296.14	3,244.68	51.46	64.050		
6,400.00	5,047.18	5,052.00	4,959.91	80.19	23.41	167.35	-388.14	477.72	3,365.90	3,314.05	51.85	64.915		
6,500.00	5,119.31	5,107.88	5,015.70	81.74	23.58	167.49	-391.29	477.83	3,436.14	3,383.77	52.36	65.620		
6,600.00	5,191.43	5,270.70	5,178.35	83.28	24.07	167.89	-398.04	478.54	3,505.84	3,452.01	53.83	65.130		
6,700.00	5,263.56	5,329.64	5,237.29	84.83	24.23	168.07	-398.62	478.64	3,574.54	3,520.21	54.33	65.791		
6,800.00	5,335.68	5,395.21	5,302.85	86.37	24.40	168.27	-398.91	478.34	3,643.47	3,588.60	54.87	66.401		
6,900.00	5,407.81	5,460.47	5,368.11	87.92	24.56	168.47	-398.94	477.79	3,712.55	3,657.15	55.40	67.011		
7,000.00	5,479.93	5,525.64	5,433.28	89.47	24.72	168.67	-399.06	477.16	3,781.78	3,725.85	55.93	67.614		
7,100.00	5,552.06	5,595.00	5,502.64	91.01	24.90	168.87	-399.16	476.39	3,851.12	3,794.62	56.50	68.163		
7,200.00	5,624.18	5,668.72	5,576.35	92.56	25.08	169.08	-399.19	475.53	3,920.49	3,863.39	57.10	68.659		
7,300.00	5,696.31	5,745.31	5,652.93	94.10	25.27	169.28	-399.24	474.73	3,989.80	3,932.08	57.73	69.112		
7,400.00	5,768.43	5,821.80	5,729.42	95.65	25.46	169.48	-399.24	474.03	4,059.04	4,000.68	58.36	69.550		
7,500.00	5,840.56	5,894.84	5,802.46	97.20	25.65	169.67	-399.20	473.40	4,128.25	4,069.28	58.97	70.010		
7,600.00	5,912.68	5,966.70	5,874.32	98.74	25.83	169.84	-399.06	472.74	4,197.47	4,137.90	59.56	70.470		
7,700.00	5,984.81	6,033.41	5,941.03	100.29	26.00	170.00	-398.84	472.06	4,266.73	4,206.61	60.12	70.970		
7,800.00	6,056.93	6,099.66	6,007.27	101.84	26.17	170.16	-398.66	471.29	4,336.12	4,275.44	60.68	71.465		
7,900.00	6,129.06	6,170.66	6,078.26	103.38	26.35	170.32	-398.40	470.39	4,405.56	4,344.29	61.27	71.905		
8,000.00	6,201.18	6,248.63	6,156.23	104.93	26.55	170.50	-397.97	469.39	4,474.98	4,413.06	61.92	72.270		
8,100.00	6,273.31	6,332.00	6,239.59	106.48	26.77	170.68	-397.41	468.46	4,544.27	4,481.66	62.62	72.572		
8,200.00	6,345.43	6,403.37	6,310.95	108.02	26.96	170.83	-396.96	467.83	4,613.45	4,550.22	63.22	72.973		
8,300.00	6,417.56	6,469.07	6,376.64	109.57	27.13	170.96	-396.57	467.16	4,682.73	4,618.95	63.78	73.417		
8,400.00	6,489.68	6,541.65	6,449.22	111.12	27.32	171.11	-396.21	466.42	4,752.06	4,687.66	64.40	73.788		
8,500.00	6,561.81	6,640.65	6,548.22	112.66	27.59	171.29	-395.80	465.76	4,821.21	4,755.97	65.24	73.898		
8,600.00	6,633.93	6,710.56	6,618.13	114.21	27.78	171.42	-395.57	465.54	4,890.16	4,824.31	65.85	74.263		
8,700.00	6,706.06	6,784.75	6,692.32	115.76	27.99	171.54	-395.46	465.37	4,959.14	4,892.64	66.50	74.572		
8,800.00	6,778.18	6,862.29	6,769.86	117.30	28.21	171.66	-395.60	465.38	5,028.06	4,960.87	67.19	74.830		
8,900.00	6,850.31	6,940.50	6,848.06	118.85	28.45	171.77	-396.16	465.69	5,096.91	5,029.01	67.91	75.058		
9,000.00	6,922.43	7,018.08	6,925.64	120.40	28.69	171.88	-396.90	466.19	5,165.69	5,097.07	68.62	75.280		
9,100.00	6,994.56	7,090.47	6,998.03	121.95	28.92	171.97	-397.76	466.77	5,234.44	5,165.15	69.29	75.539		
9,200.00	7,066.68	7,154.55	7,062.10	123.49	29.13	172.05	-398.72	467.34	5,303.24	5,233.34	69.90	75.868		
9,300.00	7,138.81	7,218.36	7,125.89	125.04	29.33	172.12	-399.81	467.83	5,372.19	5,301.68	70.51	76.195		
9,392.50	7,205.52	7,290.73	7,198.25	126.47	29.56	172.20	-401.08	468.39	5,435.97	5,364.78	71.19	76.364		
9,400.00	7,210.94	7,296.61	7,204.13	126.59	29.58	170.79	-401.18	468.44	5,441.13	5,369.89	71.24	76.377		
9,450.00	7,247.42	7,335.78	7,243.29	127.35	29.70	161.52	-401.86	468.78	5,474.73	5,403.13	71.60	76.459		
9,500.00	7,284.35	7,375.51	7,283.02	128.10	29.83	152.54	-402.53	469.14	5,506.84	5,434.88	71.97	76.521		
9,550.00	7,321.43	7,418.29	7,325.78	128.83	29.97	143.96	-403.23	469.54	5,537.22	5,464.88	72.35	76.538		
9,600.00	7,358.38	7,462.78	7,370.27	129.52	30.11	135.89	-403.91	470.00	5,565.65	5,492.92	72.73	76.521		
9,650.00	7,394.93	7,531.54	7,439.02	130.16	30.33	128.58	-404.76	470.83	5,591.90	5,518.58	73.32	76.266		
9,700.00	7,430.79	9,700.00	7,475.14	130.76	37.36	121.76	-405.02	471.44	5,615.65	5,535.09	80.56	69.712		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,602.67	7,510.14	131.30	30.56	115.63	-405.26	471.98	5,637.07	5,563.19	73.88	76.301		
9,800.00	7,499.38	7,618.45	7,525.91	131.78	30.61	110.09	-405.36	472.15	5,656.12	5,582.15	73.97	76.470		
9,850.00	7,531.58	7,633.45	7,540.92	132.21	30.66	105.24	-405.45	472.27	5,672.68	5,598.65	74.03	76.627		
9,900.00	7,562.06	7,647.59	7,555.06	132.57	30.70	101.07	-405.54	472.33	5,686.66	5,612.59	74.07	76.772		
9,950.00	7,590.58	7,672.00	7,579.46	132.87	30.78	97.62	-405.69	472.34	5,698.01	5,623.82	74.19	76.803		
10,000.00	7,616.93	7,672.00	7,579.46	133.11	30.78	94.56	-405.69	472.34	5,706.61	5,632.53	74.08	77.031		
10,050.00	7,640.90	7,687.88	7,595.35	133.29	30.82	92.21	-405.80	472.28	5,712.48	5,638.38	74.10	77.090		
10,100.00	7,662.32	7,701.00	7,608.46	133.42	30.86	90.35	-405.89	472.21	5,715.57	5,641.48	74.09	77.143		
10,150.00	7,681.01	7,712.47	7,619.93	133.50	30.90	88.98	-405.97	472.14	5,715.88	5,641.82	74.06	77.178		
10,200.00	7,696.85	7,722.22	7,629.68	133.52	30.92	88.06	-406.05	472.06	5,713.42	5,639.41	74.02	77.191		
10,250.00	7,709.70	7,730.17	7,637.63	133.51	30.95	87.57	-406.11	472.00	5,708.23	5,634.27	73.96	77.179		
10,300.00	7,719.47	7,736.27	7,643.73	133.46	30.97	87.51	-406.15	471.94	5,700.35	5,626.45	73.90	77.137		
10,350.00	7,726.09	7,740.48	7,647.94	133.37	30.98	87.86	-406.19	471.89	5,689.83	5,616.00	73.83	77.063		
10,400.00	7,729.50	7,742.78	7,650.24	133.26	30.99	88.63	-406.21	471.87	5,676.76	5,602.99	73.77	76.952		
10,427.79	7,730.00	7,743.21	7,650.67	133.18	30.99	89.24	-406.21	471.87	5,668.42	5,594.68	73.74	76.873		
10,500.00	7,730.00	7,743.57	7,651.03	132.98	30.99	89.24	-406.21	471.86	5,646.18	5,572.51	73.67	76.643		
10,600.00	7,730.00	7,744.06	7,651.52	132.72	30.99	89.25	-406.22	471.86	5,616.77	5,543.15	73.62	76.292		
10,700.00	7,730.00	7,744.55	7,652.01	132.47	30.99	89.25	-406.22	471.85	5,588.99	5,515.36	73.63	75.903		
10,800.00	7,730.00	7,745.05	7,652.51	132.22	30.99	89.26	-406.22	471.85	5,562.88	5,489.17	73.70	75.475		
10,900.00	7,730.00	7,745.54	7,653.00	131.99	30.99	89.27	-406.23	471.84	5,538.44	5,464.60	73.84	75.010		
11,000.00	7,730.00	7,746.04	7,653.50	131.77	31.00	89.27	-406.23	471.84	5,515.71	5,441.68	74.03	74.507		
11,100.00	7,730.00	7,746.54	7,654.00	131.56	31.00	89.28	-406.24	471.83	5,494.71	5,420.43	74.28	73.970		
11,200.00	7,730.00	7,747.04	7,654.50	131.36	31.00	89.28	-406.24	471.82	5,475.45	5,400.85	74.60	73.399		
11,300.00	7,730.00	7,747.54	7,655.00	131.17	31.00	89.29	-406.25	471.82	5,457.96	5,382.99	74.97	72.799		
11,400.00	7,730.00	7,748.04	7,655.50	130.99	31.00	89.29	-406.25	471.81	5,442.25	5,366.84	75.41	72.172		
11,500.00	7,730.00	7,748.54	7,656.00	130.82	31.00	89.30	-406.25	471.81	5,428.33	5,352.44	75.90	71.523		
11,600.00	7,730.00	7,749.05	7,656.51	130.66	31.00	89.30	-406.26	471.80	5,416.23	5,339.79	76.44	70.854		
11,700.00	7,730.00	7,749.56	7,657.02	130.51	31.01	89.31	-406.26	471.80	5,405.95	5,328.91	77.04	70.171		
11,800.00	7,730.00	7,750.06	7,657.52	130.37	31.01	89.31	-406.27	471.79	5,397.50	5,319.82	77.69	69.478		
11,900.00	7,730.00	7,750.57	7,658.03	130.24	31.01	89.32	-406.27	471.79	5,390.90	5,312.52	78.38	68.779		
12,000.00	7,730.00	7,751.08	7,658.54	130.13	31.01	89.32	-406.27	471.78	5,386.14	5,307.02	79.12	68.078		
12,100.00	7,730.00	7,751.60	7,659.05	130.02	31.01	89.33	-406.28	471.77	5,383.24	5,303.34	79.89	67.379		
12,200.00	7,730.00	7,752.11	7,659.57	129.93	31.01	89.34	-406.28	471.77	5,382.19	5,301.48	80.71	66.686		
12,206.32	7,730.00	7,752.14	7,659.60	129.92	31.01	89.34	-406.28	471.77	5,382.19	5,301.42	80.76	66.642		
12,300.00	7,730.00	7,752.62	7,660.08	129.85	31.02	89.34	-406.29	471.76	5,383.00	5,301.45	81.56	66.003		
12,400.00	7,730.00	7,753.14	7,660.60	129.77	31.02	89.35	-406.29	471.76	5,385.67	5,303.24	82.43	65.333		
12,500.00	7,730.00	7,753.66	7,661.12	129.71	31.02	89.35	-406.30	471.75	5,390.19	5,306.86	83.34	64.679		
12,600.00	7,730.00	7,754.18	7,661.64	129.66	31.02	89.36	-406.30	471.74	5,396.57	5,312.30	84.26	64.043		
12,700.00	7,730.00	7,766.00	7,673.46	129.63	31.05	89.48	-406.40	471.60	5,404.80	5,319.48	85.32	63.345		
12,800.00	7,730.00	7,766.00	7,673.46	129.60	31.05	89.48	-406.40	471.60	5,414.85	5,328.57	86.28	62.759		
12,900.00	7,730.00	7,766.00	7,673.46	129.59	31.05	89.48	-406.40	471.60	5,426.72	5,339.47	87.25	62.198		
13,000.00	7,730.00	7,766.00	7,673.46	129.59	31.05	89.48	-406.40	471.60	5,440.40	5,352.17	88.23	61.661		
13,100.00	7,730.00	7,766.00	7,673.46	129.60	31.05	89.48	-406.40	471.60	5,455.89	5,366.67	89.22	61.152		
13,200.00	7,730.00	7,766.00	7,673.46	129.63	31.05	89.48	-406.40	471.60	5,473.16	5,382.94	90.21	60.670		
13,300.00	7,730.00	7,766.00	7,673.46	129.66	31.05	89.48	-406.40	471.60	5,492.19	5,400.98	91.21	60.216		
13,400.00	7,730.00	7,766.00	7,673.46	129.72	31.05	89.48	-406.40	471.60	5,512.97	5,420.77	92.20	59.791		
13,500.00	7,730.00	7,766.00	7,673.46	129.78	31.05	89.48	-406.40	471.60	5,535.48	5,442.29	93.20	59.395		
13,600.00	7,730.00	7,766.00	7,673.46	129.86	31.05	89.48	-406.40	471.60	5,559.70	5,465.52	94.19	59.029		
13,700.00	7,730.00	7,766.00	7,673.46	129.96	31.05	89.48	-406.40	471.60	5,585.61	5,490.44	95.17	58.691		
13,800.00	7,730.00	7,766.00	7,673.46	130.07	31.05	89.48	-406.40	471.60	5,613.17	5,517.03	96.15	58.382		
13,900.00	7,730.00	7,766.00	7,673.46	130.19	31.05	89.48	-406.40	471.60	5,642.38	5,545.27	97.11	58.102		
14,000.00	7,730.00	7,766.00	7,673.46	130.33	31.05	89.48	-406.40	471.60	5,673.19	5,575.13	98.07	57.850		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,766.00	7,673.46	130.49	31.05	89.48	-406.40	471.60	5,705.60	5,606.59	99.01	57.627		
14,200.00	7,730.00	7,766.00	7,673.46	130.67	31.05	89.48	-406.40	471.60	5,739.56	5,639.62	99.94	57.430		
14,300.00	7,730.00	7,766.00	7,673.46	130.86	31.05	89.48	-406.40	471.60	5,775.06	5,674.20	100.86	57.261		
14,400.00	7,730.00	7,766.00	7,673.46	131.07	31.05	89.48	-406.40	471.60	5,812.06	5,710.30	101.76	57.118		
14,500.00	7,730.00	7,766.00	7,673.46	131.30	31.05	89.48	-406.40	471.60	5,850.53	5,747.89	102.64	57.000		
14,600.00	7,730.00	7,766.00	7,673.46	131.55	31.05	89.48	-406.40	471.60	5,890.45	5,786.94	103.51	56.908		
14,700.00	7,730.00	7,766.00	7,673.46	131.82	31.05	89.48	-406.40	471.60	5,931.79	5,827.43	104.36	56.840		
14,800.00	7,730.00	7,766.00	7,673.46	132.11	31.05	89.48	-406.40	471.60	5,974.52	5,869.32	105.19	56.796		
14,900.00	7,730.00	7,766.73	7,674.19	132.42	31.06	89.49	-406.41	471.59	6,018.60	5,912.59	106.01	56.772		
15,000.00	7,730.00	7,767.50	7,674.95	132.75	31.06	89.50	-406.41	471.58	6,064.01	5,957.20	106.82	56.771		
15,100.00	7,730.00	7,768.25	7,675.71	133.10	31.06	89.51	-406.42	471.57	6,110.73	6,003.13	107.60	56.791		
15,200.00	7,730.00	7,769.00	7,676.45	133.48	31.06	89.52	-406.42	471.56	6,158.71	6,050.34	108.37	56.833		
15,300.00	7,730.00	7,769.73	7,677.19	133.88	31.07	89.52	-406.43	471.55	6,207.93	6,098.82	109.11	56.895		
15,400.00	7,730.00	7,770.46	7,677.92	134.31	31.07	89.53	-406.44	471.54	6,258.36	6,148.52	109.84	56.977		
15,500.00	7,730.00	7,771.18	7,678.64	134.76	31.07	89.54	-406.44	471.53	6,309.98	6,199.43	110.55	57.079		
15,600.00	7,730.00	7,771.89	7,679.35	135.23	31.07	89.55	-406.45	471.52	6,362.74	6,251.51	111.24	57.199		
15,700.00	7,730.00	7,772.59	7,680.05	135.73	31.07	89.55	-406.45	471.51	6,416.64	6,304.73	111.91	57.337		
15,800.00	7,730.00	7,773.29	7,680.75	136.26	31.08	89.56	-406.46	471.50	6,471.62	6,359.06	112.56	57.493		
15,900.00	7,730.00	7,773.98	7,681.43	136.81	31.08	89.57	-406.46	471.49	6,527.68	6,414.48	113.20	57.665		
16,000.00	7,730.00	7,774.66	7,682.11	137.39	31.08	89.58	-406.47	471.48	6,584.78	6,470.96	113.82	57.854		
16,100.00	7,730.00	7,775.33	7,682.78	138.00	31.08	89.58	-406.48	471.47	6,642.89	6,528.48	114.42	58.059		
16,200.00	7,730.00	7,775.99	7,683.45	138.63	31.08	89.59	-406.48	471.46	6,701.99	6,586.99	115.00	58.278		
16,300.00	7,730.00	7,776.65	7,684.11	139.30	31.09	89.60	-406.49	471.46	6,762.06	6,646.49	115.57	58.513		
16,400.00	7,730.00	7,777.30	7,684.76	139.99	31.09	89.60	-406.49	471.45	6,823.06	6,706.94	116.11	58.761		
16,500.00	7,730.00	7,777.94	7,685.40	140.70	31.09	89.61	-406.50	471.44	6,884.97	6,768.32	116.65	59.024		
16,600.00	7,730.00	7,778.58	7,686.03	141.45	31.09	89.62	-406.50	471.43	6,947.77	6,830.60	117.16	59.299		
16,700.00	7,730.00	7,779.21	7,686.66	142.22	31.09	89.62	-406.51	471.42	7,011.43	6,893.77	117.67	59.588		
16,800.00	7,730.00	7,779.83	7,687.28	143.03	31.10	89.63	-406.51	471.41	7,075.94	6,957.78	118.15	59.888		
16,900.00	7,730.00	7,780.44	7,687.90	143.86	31.10	89.64	-406.52	471.41	7,141.26	7,022.63	118.62	60.201		
17,000.00	7,730.00	7,781.05	7,688.51	144.71	31.10	89.64	-406.52	471.40	7,207.38	7,088.29	119.08	60.525		
17,100.00	7,730.00	7,781.66	7,689.11	145.60	31.10	89.65	-406.52	471.39	7,274.27	7,154.74	119.52	60.860		
17,200.00	7,730.00	7,782.25	7,689.71	146.51	31.10	89.66	-406.53	471.38	7,341.91	7,221.96	119.95	61.206		
17,300.00	7,730.00	7,782.84	7,690.30	147.44	31.10	89.66	-406.53	471.37	7,410.29	7,289.91	120.37	61.562		
17,400.00	7,730.00	7,783.43	7,690.88	148.40	31.11	89.67	-406.54	471.37	7,479.37	7,358.60	120.77	61.929		
17,500.00	7,730.00	7,784.00	7,691.46	149.39	31.11	89.67	-406.54	471.36	7,549.15	7,427.99	121.17	62.304		
17,600.00	7,730.00	7,784.58	7,692.03	150.40	31.11	89.68	-406.55	471.35	7,619.61	7,498.06	121.54	62.690		
17,700.00	7,730.00	7,785.14	7,692.60	151.44	31.11	89.69	-406.55	471.35	7,690.71	7,568.80	121.91	63.084		
17,800.00	7,730.00	7,785.70	7,693.16	152.50	31.11	89.69	-406.55	471.34	7,762.46	7,640.19	122.27	63.487		
17,900.00	7,730.00	7,786.26	7,693.71	153.58	31.11	89.70	-406.56	471.33	7,834.82	7,712.21	122.61	63.899		
18,000.00	7,730.00	7,786.81	7,694.26	154.68	31.12	89.70	-406.56	471.32	7,907.79	7,784.84	122.95	64.319		
18,100.00	7,730.00	7,787.35	7,694.80	155.80	31.12	89.71	-406.57	471.32	7,981.34	7,858.07	123.27	64.746		
18,200.00	7,730.00	7,787.89	7,695.34	156.95	31.12	89.72	-406.57	471.31	8,055.46	7,931.88	123.59	65.181		
18,300.00	7,730.00	7,788.42	7,695.87	158.11	31.12	89.72	-406.57	471.30	8,130.14	8,006.25	123.89	65.624		
18,400.00	7,730.00	7,788.95	7,696.40	159.30	31.12	89.73	-406.58	471.30	8,205.35	8,081.17	124.19	66.074		
18,500.00	7,730.00	7,789.47	7,696.92	160.50	31.12	89.73	-406.58	471.29	8,281.09	8,156.62	124.47	66.530		
18,600.00	7,730.00	7,789.99	7,697.44	161.72	31.12	89.74	-406.58	471.28	8,357.34	8,232.59	124.75	66.993		
18,700.00	7,730.00	7,790.50	7,697.95	162.96	31.13	89.74	-406.59	471.28	8,434.09	8,309.07	125.02	67.463		
18,800.00	7,730.00	7,791.01	7,698.46	164.21	31.13	89.75	-406.59	471.27	8,511.32	8,386.04	125.28	67.939		
18,900.00	7,730.00	7,791.51	7,698.96	165.48	31.13	89.75	-406.59	471.26	8,589.02	8,463.49	125.53	68.421		
19,000.00	7,730.00	7,792.00	7,699.46	166.76	31.13	89.76	-406.60	471.26	8,667.17	8,541.40	125.78	68.909		
19,100.00	7,730.00	7,792.50	7,699.95	168.06	31.13	89.77	-406.60	471.25	8,745.77	8,619.76	126.02	69.403		
19,200.00	7,730.00	7,792.99	7,700.44	169.38	31.13	89.77	-406.60	471.24	8,824.81	8,698.56	126.25	69.902		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,793.47	7,700.92	170.70	31.13	89.78	-406.61	471.24	8,904.26	8,777.79	126.47	70.406	
19,400.00	7,730.00	7,793.95	7,701.40	172.04	31.14	89.78	-406.61	471.23	8,984.13	8,857.44	126.69	70.915	
19,500.00	7,730.00	7,794.42	7,701.88	173.40	31.14	89.79	-406.61	471.23	9,064.39	8,937.49	126.90	71.430	
19,600.00	7,730.00	7,794.89	7,702.35	174.76	31.14	89.79	-406.62	471.22	9,145.05	9,017.94	127.10	71.949	
19,700.00	7,730.00	7,795.36	7,702.81	176.14	31.14	89.80	-406.62	471.21	9,226.08	9,098.78	127.30	72.473	
19,800.00	7,730.00	7,795.82	7,703.27	177.52	31.14	89.80	-406.62	471.21	9,307.48	9,179.99	127.50	73.001	
19,900.00	7,730.00	7,796.27	7,703.73	178.92	31.14	89.81	-406.63	471.20	9,389.24	9,261.56	127.69	73.534	
20,000.00	7,730.00	7,796.73	7,704.18	180.33	31.14	89.81	-406.63	471.20	9,471.36	9,343.49	127.87	74.071	
20,100.00	7,730.00	7,797.18	7,704.63	181.75	31.15	89.82	-406.63	471.19	9,553.81	9,425.76	128.05	74.612	
20,184.95	7,730.00	7,797.55	7,705.01	182.96	31.15	89.82	-406.64	471.19	9,624.12	9,495.92	128.19	75.075	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-41.80	218.94	-195.72	293.78					
100.00	100.00	92.18	92.18	0.13	0.15	-41.90	218.56	-196.10	293.64	293.35	0.28	1,030.718		
104.81	104.81	97.00	97.00	0.15	0.16	-112.37	218.52	-196.14	293.64	293.33	0.31	947.450	CC, ES	
200.00	199.98	189.36	189.35	0.49	0.40	-112.86	217.94	-197.05	294.50	293.60	0.90	328.851		
300.00	299.84	280.99	280.94	0.86	0.73	-113.36	220.26	-197.30	298.62	297.04	1.59	188.166		
400.00	399.45	372.28	372.00	1.23	1.06	-113.78	226.62	-197.44	307.29	304.99	2.29	134.033		
500.00	498.70	463.61	462.82	1.63	1.40	-114.16	236.30	-197.21	319.75	316.73	3.02	105.820		
600.00	597.47	552.99	551.34	2.05	1.75	-114.63	248.57	-197.56	336.35	332.58	3.77	89.171		
700.00	695.62	640.61	637.62	2.51	2.13	-115.04	263.86	-198.11	357.22	352.68	4.55	78.551		
800.00	793.06	726.76	721.82	3.00	2.53	-115.40	281.99	-199.09	382.45	377.09	5.35	71.431		
900.00	889.64	811.28	803.74	3.53	2.95	-115.67	302.73	-200.37	411.83	405.64	6.19	66.481		
1,000.00	985.27	895.93	884.94	4.12	3.40	-115.84	326.63	-201.82	445.30	438.22	7.08	62.863		
1,100.00	1,079.82	987.43	972.33	4.75	3.91	-116.21	353.62	-203.74	481.42	473.35	8.06	59.694		
1,200.00	1,173.17	1,079.89	1,060.74	5.44	4.44	-116.79	380.67	-205.60	518.94	509.83	9.11	56.976		
1,300.00	1,265.21	1,164.51	1,141.31	6.18	4.93	-117.29	406.45	-207.34	558.93	548.79	10.14	55.124		
1,400.00	1,355.84	1,254.75	1,227.13	6.99	5.47	-117.96	434.28	-209.42	601.06	589.80	11.26	53.359		
1,500.00	1,444.94	1,344.19	1,312.24	7.87	6.01	-118.71	461.69	-211.47	644.92	632.50	12.43	51.903		
1,600.00	1,532.39	1,427.82	1,391.65	8.80	6.52	-119.35	487.84	-213.22	690.89	677.31	13.58	50.867		
1,700.00	1,618.11	1,511.62	1,470.94	9.81	7.05	-119.95	514.93	-214.74	739.13	724.35	14.79	49.981		
1,800.00	1,701.97	1,591.06	1,545.87	10.89	7.55	-120.42	541.29	-216.12	789.69	773.70	15.99	49.374		
1,900.00	1,783.88	1,669.77	1,619.99	12.04	8.06	-120.87	567.72	-217.84	842.73	825.51	17.23	48.923		
2,000.00	1,863.74	1,747.85	1,693.55	13.26	8.56	-121.33	593.79	-219.93	898.07	879.59	18.48	48.604		
2,100.00	1,941.45	1,824.34	1,765.76	14.55	9.05	-121.79	618.93	-222.41	955.64	935.91	19.73	48.433		
2,200.00	2,016.92	1,898.86	1,836.23	15.92	9.52	-122.21	642.98	-225.20	1,015.45	994.47	20.98	48.406		
2,292.11	2,084.36	1,969.81	1,903.55	17.25	9.96	-122.66	665.20	-228.14	1,072.39	1,050.24	22.16	48.403	SF	
2,300.00	2,090.06	1,975.80	1,909.24	17.36	10.00	-122.81	667.03	-228.40	1,077.34	1,055.09	22.26	48.404		
2,400.00	2,162.18	2,046.23	1,976.33	18.84	10.43	-124.45	688.24	-231.63	1,140.47	1,117.03	23.44	48.649		
2,500.00	2,234.31	2,122.71	2,049.31	20.33	10.89	-126.09	710.77	-235.49	1,204.35	1,179.67	24.67	48.811		
2,600.00	2,306.43	2,211.29	2,134.03	21.83	11.42	-127.82	736.35	-239.22	1,268.04	1,242.01	26.02	48.728		
2,700.00	2,378.56	2,298.25	2,217.41	23.33	11.93	-129.36	760.89	-242.00	1,331.31	1,303.98	27.34	48.700		
2,800.00	2,450.68	2,381.40	2,297.33	24.84	12.41	-130.71	783.76	-244.20	1,394.46	1,365.87	28.59	48.775		
2,900.00	2,522.81	2,472.83	2,385.43	26.36	12.93	-132.09	808.15	-245.94	1,457.27	1,427.36	29.91	48.717		
3,000.00	2,594.93	2,544.27	2,454.31	27.88	13.33	-133.08	827.04	-247.07	1,520.13	1,489.12	31.01	49.027		
3,100.00	2,667.06	2,620.45	2,527.77	29.40	13.76	-134.06	847.19	-248.25	1,583.27	1,551.12	32.14	49.258		
3,200.00	2,739.18	2,695.41	2,600.09	30.92	14.18	-134.96	866.86	-249.38	1,646.61	1,613.36	33.25	49.518		
3,300.00	2,811.31	2,789.67	2,691.16	32.45	14.70	-136.02	891.17	-250.65	1,710.04	1,675.48	34.56	49.475		
3,400.00	2,883.43	2,880.94	2,779.29	33.98	15.21	-136.94	914.90	-250.32	1,772.37	1,736.53	35.84	49.448		
3,500.00	2,955.56	2,950.09	2,846.06	35.51	15.59	-137.59	932.90	-250.06	1,834.94	1,798.07	36.87	49.762		
3,600.00	3,027.68	3,014.19	2,907.99	37.04	15.94	-138.17	949.40	-250.21	1,898.09	1,860.25	37.84	50.164		
3,700.00	3,099.81	3,096.41	2,987.32	38.57	16.40	-138.85	971.02	-250.47	1,961.53	1,922.53	39.01	50.284		
3,800.00	3,171.93	3,163.94	3,052.15	40.11	16.80	-139.33	989.91	-250.35	2,025.02	1,984.99	40.04	50.581		
3,900.00	3,244.06	3,242.87	3,127.55	41.64	17.26	-139.82	1,013.23	-250.37	2,088.98	2,047.77	41.22	50.684		
4,000.00	3,316.18	3,335.73	3,216.28	43.18	17.82	-140.35	1,040.62	-249.46	2,152.22	2,109.65	42.57	50.556		
4,100.00	3,388.31	3,405.65	3,283.08	44.71	18.24	-140.73	1,061.26	-248.85	2,215.65	2,172.01	43.64	50.768		
4,200.00	3,460.43	3,516.80	3,389.05	46.25	18.91	-141.26	1,094.73	-246.77	2,278.43	2,233.19	45.23	50.371		
4,300.00	3,532.56	3,584.00	3,453.21	47.79	19.31	-141.57	1,114.63	-245.14	2,340.84	2,294.57	46.28	50.585		
4,400.00	3,604.68	3,627.54	3,494.84	49.33	19.57	-141.77	1,127.39	-244.50	2,404.08	2,357.06	47.01	51.137		
4,500.00	3,676.81	3,677.00	3,542.07	50.87	19.87	-141.99	1,142.07	-244.77	2,468.69	2,420.87	47.81	51.632		
4,600.00	3,748.93	3,727.36	3,590.23	52.41	20.16	-142.22	1,156.74	-245.62	2,534.13	2,485.52	48.61	52.137		
4,700.00	3,821.06	3,804.29	3,664.19	53.95	20.61	-142.59	1,177.89	-247.02	2,599.67	2,549.96	49.71	52.296		
4,800.00	3,893.18	3,884.66	3,741.60	55.49	21.07	-142.98	1,199.43	-248.52	2,665.23	2,614.39	50.84	52.420		
4,900.00	3,965.31	3,979.87	3,833.16	57.03	21.61	-143.39	1,225.51	-249.59	2,730.34	2,678.17	52.17	52.337		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,054.36	3,904.78	58.58	22.04	-143.69	1,246.00	-250.21	2,795.30	2,742.06	53.24	52.503		
5,100.00	4,109.56	4,166.56	4,012.92	60.12	22.68	-144.15	1,275.89	-250.45	2,859.74	2,804.98	54.76	52.227		
5,200.00	4,181.68	4,248.25	4,091.47	61.66	23.14	-144.44	1,298.29	-250.00	2,923.75	2,867.84	55.91	52.291		
5,300.00	4,253.81	4,331.44	4,171.30	63.20	23.62	-144.71	1,321.69	-249.28	2,987.64	2,930.53	57.11	52.318		
5,400.00	4,325.93	4,385.22	4,222.93	64.75	23.94	-144.88	1,336.76	-248.95	3,051.73	2,993.80	57.93	52.682		
5,500.00	4,398.06	4,428.00	4,264.01	66.29	24.18	-145.01	1,348.71	-249.00	3,116.47	3,057.86	58.60	53.179		
5,600.00	4,470.18	4,481.51	4,315.43	67.84	24.49	-145.18	1,363.49	-249.55	3,181.86	3,122.46	59.40	53.564		
5,700.00	4,542.31	4,547.09	4,378.53	69.38	24.87	-145.39	1,381.28	-250.93	3,247.98	3,187.63	60.35	53.820		
5,800.00	4,614.43	4,724.53	4,548.67	70.92	25.91	-145.86	1,431.64	-251.03	3,312.57	3,249.83	62.74	52.795		
5,900.00	4,686.56	4,783.21	4,604.73	72.47	26.26	-145.99	1,448.97	-250.43	3,376.59	3,312.94	63.65	53.050		
6,000.00	4,758.68	4,858.96	4,677.19	74.01	26.71	-146.16	1,471.05	-249.78	3,440.75	3,375.99	64.76	53.131		
6,100.00	4,830.81	4,928.40	4,743.97	75.56	27.11	-146.34	1,490.06	-249.32	3,504.94	3,439.18	65.76	53.297		
6,200.00	4,902.93	4,989.00	4,802.43	77.10	27.45	-146.50	1,506.00	-249.21	3,569.44	3,502.80	66.64	53.566		
6,300.00	4,975.06	5,043.29	4,854.93	78.65	27.74	-146.65	1,519.84	-249.44	3,634.35	3,566.94	67.41	53.911		
6,400.00	5,047.18	5,098.72	4,908.64	80.19	28.04	-146.82	1,533.53	-250.04	3,699.72	3,631.53	68.19	54.253		
6,500.00	5,119.31	5,158.57	4,966.68	81.74	28.36	-146.99	1,548.08	-250.98	3,765.46	3,696.44	69.02	54.558		
6,600.00	5,191.43	5,227.36	5,033.54	83.28	28.72	-147.20	1,564.21	-252.32	3,831.46	3,761.53	69.93	54.792		
6,700.00	5,263.56	5,308.48	5,112.87	84.83	29.12	-147.48	1,581.04	-254.09	3,897.50	3,826.57	70.93	54.949		
6,800.00	5,335.68	5,399.20	5,202.15	86.37	29.52	-147.84	1,597.01	-255.95	3,963.31	3,891.35	71.96	55.073		
6,900.00	5,407.81	5,481.92	5,283.98	87.92	29.86	-148.20	1,609.03	-257.56	4,028.93	3,956.08	72.85	55.305		
7,000.00	5,479.93	5,555.88	5,357.40	89.47	30.14	-148.55	1,617.72	-259.08	4,094.56	4,020.95	73.60	55.632		
7,100.00	5,552.06	5,629.24	5,430.40	91.01	30.39	-148.91	1,624.90	-260.66	4,160.26	4,085.96	74.30	55.991		
7,200.00	5,624.18	5,691.73	5,492.66	92.56	30.60	-149.23	1,630.00	-262.12	4,226.14	4,151.25	74.89	56.435		
7,300.00	5,696.31	5,769.63	5,570.40	94.10	30.83	-149.65	1,634.47	-264.22	4,292.29	4,216.75	75.54	56.818		
7,400.00	5,768.43	5,948.40	5,749.07	95.65	31.30	-150.64	1,639.69	-266.53	4,357.39	4,280.60	76.79	56.745		
7,500.00	5,840.56	6,014.49	5,815.15	97.20	31.46	-151.00	1,640.94	-266.70	4,421.91	4,344.60	77.30	57.203		
7,600.00	5,912.68	6,067.46	5,868.10	98.74	31.59	-151.29	1,641.67	-266.99	4,486.76	4,409.04	77.72	57.728		
7,700.00	5,984.81	6,121.04	5,921.69	100.29	31.72	-151.59	1,641.79	-267.54	4,552.07	4,473.93	78.13	58.259		
7,800.00	6,056.93	6,188.29	5,988.93	101.84	31.87	-151.95	1,641.86	-268.39	4,617.67	4,539.05	78.62	58.735		
7,900.00	6,129.06	6,273.78	6,074.42	103.38	32.07	-152.40	1,642.29	-269.39	4,683.36	4,604.14	79.22	59.119		
8,000.00	6,201.18	6,340.69	6,141.32	104.93	32.23	-152.73	1,642.70	-270.03	4,749.01	4,669.30	79.71	59.576		
8,100.00	6,273.31	6,401.48	6,202.10	106.48	32.38	-153.03	1,643.15	-270.79	4,814.97	4,734.80	80.17	60.056		
8,200.00	6,345.43	6,500.68	6,301.30	108.02	32.62	-153.50	1,644.14	-271.80	4,880.89	4,800.01	80.88	60.349		
8,300.00	6,417.56	6,566.18	6,366.79	109.57	32.78	-153.81	1,644.50	-272.36	4,946.80	4,865.43	81.37	60.797		
8,400.00	6,489.68	6,631.00	6,431.51	111.12	32.94	-154.25	1,644.66	-272.81	5,012.50	4,926.29	81.86	61.145		
8,500.00	6,561.81	6,704.51	6,502.11	112.66	33.27	-154.70	1,645.37	-272.74	5,077.89	4,995.13	82.76	61.358		
8,600.00	6,633.93	6,776.97	6,573.57	114.21	33.40	-154.92	1,646.08	-272.72	5,143.45	5,060.27	83.19	61.830		
8,700.00	6,706.06	6,849.39	6,645.07	115.76	33.54	-155.13	1,646.98	-272.93	5,209.40	5,125.78	83.62	62.299		
8,800.00	6,778.18	6,921.86	6,716.44	117.30	33.71	-155.38	1,648.18	-273.35	5,275.63	5,191.52	84.11	62.720		
8,900.00	6,850.31	7,017.33	6,817.89	118.85	33.94	-155.71	1,650.05	-273.98	5,341.98	5,257.20	84.78	63.008		
9,000.00	6,922.43	7,096.96	6,897.50	120.40	34.16	-156.00	1,651.89	-274.30	5,408.15	5,322.74	85.41	63.321		
9,100.00	6,994.56	7,165.53	6,966.05	121.95	34.35	-156.26	1,653.23	-274.57	5,474.40	5,388.44	85.96	63.688		
9,200.00	7,066.68	7,232.31	7,032.82	123.49	34.53	-156.50	1,654.47	-274.90	5,540.79	5,454.29	86.49	64.061		
9,300.00	7,138.81	7,322.51	7,122.99	125.04	34.79	-156.81	1,656.66	-275.27	5,607.17	5,519.97	87.20	64.302		
9,392.50	7,205.52	7,477.08	7,277.46	126.47	35.23	-157.30	1,662.06	-274.16	5,667.63	5,579.26	88.37	64.136		
9,400.00	7,210.94	7,482.85	7,283.23	126.59	35.25	-158.72	1,662.12	-274.09	5,672.53	5,584.12	88.41	64.159		
9,450.00	7,247.42	7,521.46	7,321.83	127.35	35.35	-168.39	1,662.06	-273.53	5,705.38	5,616.68	88.70	64.319		
9,500.00	7,284.35	7,541.23	7,341.59	128.10	35.39	-178.27	1,661.80	-273.27	5,738.47	5,649.62	88.86	64.582		
9,550.00	7,321.43	7,563.74	7,364.09	128.83	35.45	171.80	1,661.36	-273.03	5,771.59	5,682.57	89.01	64.839		
9,600.00	7,358.38	7,586.14	7,386.50	129.52	35.50	162.05	1,660.80	-272.83	5,804.47	5,715.31	89.16	65.101		
9,650.00	7,394.93	7,608.00	7,408.33	130.16	35.50	152.86	1,658.56	-272.05	5,836.69	5,742.75	89.94	62.130		
9,700.00	7,430.79	7,731.40	7,531.67	130.76	35.82	144.37	1,656.24	-270.84	5,867.97	5,778.00	89.97	65.218		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,757.64	7,557.89	131.30	35.88	136.37	1,655.51	-270.35	5,898.13	5,808.01	90.12	65.447		
9,800.00	7,499.38	7,782.95	7,583.19	131.78	35.94	129.10	1,654.84	-269.91	5,927.15	5,836.89	90.26	65.667		
9,850.00	7,531.58	7,817.10	7,617.32	132.21	36.01	122.64	1,653.97	-269.36	5,954.85	5,864.40	90.45	65.836		
9,900.00	7,562.06	9,900.00	7,959.77	132.57	40.37	119.24	1,639.60	-254.99	5,980.53	5,884.73	95.80	62.425		
9,950.00	7,590.58	8,171.00	7,970.48	132.87	36.78	114.21	1,638.97	-254.24	6,003.40	5,911.13	92.27	65.065		
10,000.00	7,616.93	8,171.00	7,970.48	133.11	36.78	109.73	1,638.97	-254.24	6,024.69	5,932.38	92.31	65.266		
10,050.00	7,640.90	8,171.00	7,970.48	133.29	36.78	105.84	1,638.97	-254.24	6,044.26	5,951.90	92.36	65.439		
10,100.00	7,662.32	8,204.06	8,003.42	133.42	36.86	102.79	1,637.20	-252.08	6,061.64	5,969.04	92.60	65.460		
10,150.00	7,681.01	8,209.64	8,008.98	133.50	36.87	100.03	1,636.96	-251.76	6,077.27	5,984.55	92.73	65.541		
10,200.00	7,696.85	8,214.39	8,013.72	133.52	36.88	97.76	1,636.76	-251.51	6,090.84	5,997.96	92.87	65.582		
10,250.00	7,709.70	8,218.29	8,017.61	133.51	36.89	95.93	1,636.61	-251.30	6,102.25	6,009.21	93.05	65.583		
10,300.00	7,719.47	8,221.33	8,020.65	133.46	36.90	94.54	1,636.50	-251.15	6,111.45	6,018.20	93.25	65.540		
10,350.00	7,726.09	8,223.51	8,022.83	133.37	36.90	93.56	1,636.42	-251.04	6,118.37	6,024.89	93.48	65.451		
10,400.00	7,729.50	8,224.84	8,024.15	133.26	36.90	92.98	1,636.37	-250.98	6,122.98	6,029.24	93.74	65.316		
10,427.79	7,730.00	8,225.21	8,024.52	133.18	36.91	92.83	1,636.36	-250.96	6,124.53	6,030.63	93.90	65.221		
10,500.00	7,730.00	8,225.82	8,025.13	132.98	36.91	92.84	1,636.34	-250.93	6,128.04	6,033.70	94.34	64.956		
10,600.00	7,730.00	8,226.65	8,025.96	132.72	36.91	92.85	1,636.31	-250.89	6,134.30	6,039.34	94.96	64.596		
10,700.00	7,730.00	8,227.45	8,026.76	132.47	36.91	92.85	1,636.28	-250.85	6,142.18	6,046.58	95.60	64.246		
10,800.00	7,730.00	8,228.24	8,027.55	132.22	36.91	92.86	1,636.26	-250.82	6,151.68	6,055.42	96.26	63.907		
10,900.00	7,730.00	8,229.01	8,028.32	131.99	36.91	92.87	1,636.23	-250.78	6,162.79	6,065.85	96.93	63.579		
11,000.00	7,730.00	8,229.77	8,029.07	131.77	36.92	92.88	1,636.21	-250.75	6,175.49	6,077.88	97.61	63.264		
11,100.00	7,730.00	8,264.00	8,063.27	131.56	36.99	93.20	1,635.40	-249.46	6,190.18	6,091.69	98.49	62.853		
11,200.00	7,730.00	8,264.00	8,063.27	131.36	36.99	93.20	1,635.40	-249.46	6,206.04	6,106.85	99.18	62.571		
11,300.00	7,730.00	8,264.00	8,063.27	131.17	36.99	93.20	1,635.40	-249.46	6,223.46	6,123.57	99.89	62.304		
11,400.00	7,730.00	8,264.00	8,063.27	130.99	36.99	93.20	1,635.40	-249.46	6,242.44	6,141.84	100.60	62.053		
11,500.00	7,730.00	8,264.00	8,063.27	130.82	36.99	93.20	1,635.40	-249.46	6,262.96	6,161.64	101.31	61.818		
11,600.00	7,730.00	8,264.00	8,063.27	130.66	36.99	93.20	1,635.40	-249.46	6,285.00	6,182.97	102.03	61.600		
11,700.00	7,730.00	8,264.00	8,063.27	130.51	36.99	93.20	1,635.40	-249.46	6,308.55	6,205.80	102.75	61.400		
11,800.00	7,730.00	8,264.00	8,063.27	130.37	36.99	93.20	1,635.40	-249.46	6,333.59	6,230.13	103.46	61.217		
11,900.00	7,730.00	8,264.00	8,063.27	130.24	36.99	93.20	1,635.40	-249.46	6,360.11	6,255.93	104.18	61.052		
12,000.00	7,730.00	8,264.00	8,063.27	130.13	36.99	93.20	1,635.40	-249.46	6,388.08	6,283.19	104.89	60.905		
12,100.00	7,730.00	8,264.00	8,063.27	130.02	36.99	93.20	1,635.40	-249.46	6,417.49	6,311.89	105.59	60.776		
12,200.00	7,730.00	8,264.00	8,063.27	129.93	36.99	93.20	1,635.40	-249.46	6,448.31	6,342.02	106.29	60.665		
12,300.00	7,730.00	8,264.00	8,063.27	129.85	36.99	93.20	1,635.40	-249.46	6,480.53	6,373.54	106.99	60.572		
12,400.00	7,730.00	8,264.00	8,063.27	129.77	36.99	93.20	1,635.40	-249.46	6,514.13	6,406.45	107.68	60.497		
12,500.00	7,730.00	8,264.00	8,063.27	129.71	36.99	93.20	1,635.40	-249.46	6,549.08	6,440.73	108.36	60.440		
12,600.00	7,730.00	8,264.00	8,063.27	129.66	36.99	93.20	1,635.40	-249.46	6,585.37	6,476.34	109.03	60.401		
12,700.00	7,730.00	8,264.00	8,063.27	129.63	36.99	93.20	1,635.40	-249.46	6,622.96	6,513.27	109.69	60.379		
12,800.00	7,730.00	8,264.00	8,063.27	129.60	36.99	93.20	1,635.40	-249.46	6,661.85	6,551.51	110.34	60.375		
12,900.00	7,730.00	8,264.00	8,063.27	129.59	36.99	93.20	1,635.40	-249.46	6,702.00	6,591.02	110.98	60.388		
13,000.00	7,730.00	8,264.00	8,063.27	129.59	36.99	93.20	1,635.40	-249.46	6,743.40	6,631.78	111.61	60.417		
13,100.00	7,730.00	8,264.00	8,063.27	129.60	36.99	93.20	1,635.40	-249.46	6,786.01	6,673.78	112.23	60.463		
13,200.00	7,730.00	8,264.00	8,063.27	129.63	36.99	93.20	1,635.40	-249.46	6,829.83	6,716.99	112.84	60.526		
13,300.00	7,730.00	8,264.00	8,063.27	129.66	36.99	93.20	1,635.40	-249.46	6,874.82	6,761.38	113.44	60.604		
13,400.00	7,730.00	8,264.00	8,063.27	129.72	36.99	93.20	1,635.40	-249.46	6,920.96	6,806.94	114.02	60.698		
13,500.00	7,730.00	8,264.00	8,063.27	129.78	36.99	93.20	1,635.40	-249.46	6,968.24	6,853.64	114.60	60.807		
13,600.00	7,730.00	8,264.00	8,063.27	129.86	36.99	93.20	1,635.40	-249.46	7,016.62	6,901.46	115.16	60.932		
13,700.00	7,730.00	8,264.00	8,063.27	129.96	36.99	93.20	1,635.40	-249.46	7,066.08	6,950.38	115.70	61.071		
13,800.00	7,730.00	8,264.00	8,063.27	130.07	36.99	93.20	1,635.40	-249.46	7,116.60	7,000.37	116.24	61.224		
13,900.00	7,730.00	8,264.00	8,063.27	130.19	36.99	93.20	1,635.40	-249.46	7,168.17	7,051.41	116.76	61.392		
14,000.00	7,730.00	8,264.00	8,063.27	130.33	36.99	93.20	1,635.40	-249.46	7,220.75	7,103.48	117.27	61.573		
14,100.00	7,730.00	8,264.00	8,063.27	130.49	36.99	93.20	1,635.40	-249.46	7,274.33	7,156.56	117.77	61.767		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	8,264.00	8,063.27	130.67	36.99	93.20	1,635.40	-249.46	7,328.87	7,210.62	118.26	61.974		
14,300.00	7,730.00	8,264.00	8,063.27	130.86	36.99	93.20	1,635.40	-249.46	7,384.37	7,265.64	118.73	62.194		
14,400.00	7,730.00	8,264.00	8,063.27	131.07	36.99	93.20	1,635.40	-249.46	7,440.80	7,321.61	119.19	62.427		
14,500.00	7,730.00	8,264.00	8,063.27	131.30	36.99	93.20	1,635.40	-249.46	7,498.14	7,378.50	119.64	62.671		
14,600.00	7,730.00	8,264.00	8,063.27	131.55	36.99	93.20	1,635.40	-249.46	7,556.37	7,436.29	120.08	62.927		
14,700.00	7,730.00	8,264.00	8,063.27	131.82	36.99	93.20	1,635.40	-249.46	7,615.47	7,494.96	120.51	63.195		
14,800.00	7,730.00	8,264.00	8,063.27	132.11	36.99	93.20	1,635.40	-249.46	7,675.41	7,554.49	120.92	63.473		
14,900.00	7,730.00	8,264.00	8,063.27	132.42	36.99	93.20	1,635.40	-249.46	7,736.18	7,614.85	121.33	63.763		
15,000.00	7,730.00	8,264.00	8,063.27	132.75	36.99	93.20	1,635.40	-249.46	7,797.76	7,676.04	121.72	64.062		
15,100.00	7,730.00	8,264.00	8,063.27	133.10	36.99	93.20	1,635.40	-249.46	7,860.13	7,738.03	122.10	64.372		
15,200.00	7,730.00	8,264.00	8,063.27	133.48	36.99	93.20	1,635.40	-249.46	7,923.27	7,800.80	122.48	64.692		
15,300.00	7,730.00	8,264.00	8,063.27	133.88	36.99	93.20	1,635.40	-249.46	7,987.17	7,864.33	122.84	65.022		
15,400.00	7,730.00	8,264.00	8,063.27	134.31	36.99	93.20	1,635.40	-249.46	8,051.80	7,928.60	123.19	65.361		
15,500.00	7,730.00	8,264.00	8,063.27	134.76	36.99	93.20	1,635.40	-249.46	8,117.14	7,993.61	123.53	65.709		
15,600.00	7,730.00	8,264.00	8,063.27	135.23	36.99	93.20	1,635.40	-249.46	8,183.19	8,059.32	123.86	66.065		
15,700.00	7,730.00	8,264.00	8,063.27	135.73	36.99	93.20	1,635.40	-249.46	8,249.92	8,125.73	124.19	66.431		
15,800.00	7,730.00	8,264.00	8,063.27	136.26	36.99	93.20	1,635.40	-249.46	8,317.32	8,192.81	124.50	66.805		
15,900.00	7,730.00	8,264.00	8,063.27	136.81	36.99	93.20	1,635.40	-249.46	8,385.36	8,260.56	124.81	67.186		
16,000.00	7,730.00	8,264.00	8,063.27	137.39	36.99	93.20	1,635.40	-249.46	8,454.05	8,328.94	125.10	67.576		
16,100.00	7,730.00	8,264.00	8,063.27	138.00	36.99	93.20	1,635.40	-249.46	8,523.35	8,397.96	125.39	67.974		
16,200.00	7,730.00	8,264.00	8,063.27	138.63	36.99	93.20	1,635.40	-249.46	8,593.26	8,467.59	125.67	68.378		
16,300.00	7,730.00	8,264.00	8,063.27	139.30	36.99	93.20	1,635.40	-249.46	8,663.76	8,537.81	125.94	68.790		
16,400.00	7,730.00	8,264.00	8,063.27	139.99	36.99	93.20	1,635.40	-249.46	8,734.83	8,608.62	126.21	69.209		
16,500.00	7,730.00	8,264.00	8,063.27	140.70	36.99	93.20	1,635.40	-249.46	8,806.46	8,680.00	126.47	69.635		
16,600.00	7,730.00	8,264.00	8,063.27	141.45	36.99	93.20	1,635.40	-249.46	8,878.65	8,751.93	126.71	70.068		
16,700.00	7,730.00	8,264.00	8,063.27	142.22	36.99	93.20	1,635.40	-249.46	8,951.37	8,824.41	126.96	70.507		
16,800.00	7,730.00	8,264.00	8,063.27	143.03	36.99	93.20	1,635.40	-249.46	9,024.61	8,897.42	127.19	70.952		
16,900.00	7,730.00	8,264.00	8,063.27	143.86	36.99	93.20	1,635.40	-249.46	9,098.36	8,970.94	127.42	71.403		
17,000.00	7,730.00	8,264.00	8,063.27	144.71	36.99	93.20	1,635.40	-249.46	9,172.61	9,044.96	127.64	71.860		
17,100.00	7,730.00	8,264.00	8,063.27	145.60	36.99	93.20	1,635.40	-249.46	9,247.34	9,119.48	127.86	72.323		
17,200.00	7,730.00	8,264.00	8,063.27	146.51	36.99	93.20	1,635.40	-249.46	9,322.55	9,194.48	128.07	72.792		
17,300.00	7,730.00	8,264.00	8,063.27	147.44	36.99	93.20	1,635.40	-249.46	9,398.22	9,269.94	128.28	73.266		
17,400.00	7,730.00	8,264.00	8,063.27	148.40	36.99	93.20	1,635.40	-249.46	9,474.34	9,345.86	128.47	73.745		
17,500.00	7,730.00	8,264.00	8,063.27	149.39	36.99	93.20	1,635.40	-249.46	9,550.90	9,422.23	128.67	74.229		
17,600.00	7,730.00	8,264.00	8,063.27	150.40	36.99	93.20	1,635.40	-249.46	9,627.89	9,499.03	128.86	74.718		
17,700.00	7,730.00	8,264.00	8,063.27	151.44	36.99	93.20	1,635.40	-249.46	9,705.30	9,576.26	129.04	75.212		
17,800.00	7,730.00	8,264.00	8,063.27	152.50	36.99	93.20	1,635.40	-249.46	9,783.12	9,653.90	129.22	75.711		
17,900.00	7,730.00	8,264.00	8,063.27	153.58	36.99	93.20	1,635.40	-249.46	9,861.34	9,731.95	129.39	76.214		
18,000.00	7,730.00	8,264.00	8,063.27	154.68	36.99	93.20	1,635.40	-249.46	9,939.95	9,810.39	129.56	76.722		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-36.99	218.94	-164.92	274.22				
100.00	100.00	91.26	91.26	0.13	0.14	-37.02	218.94	-165.12	274.23	273.95	0.28	985.186	
200.00	199.98	191.80	191.80	0.49	0.47	-107.92	218.79	-165.67	274.97	274.00	0.96	285.806	
300.00	299.84	294.48	294.47	0.86	0.84	-109.17	217.84	-166.25	276.26	274.57	1.69	163.518	
400.00	399.45	403.31	403.22	1.23	1.23	-111.57	213.84	-166.44	276.57	274.12	2.45	112.803	
500.00	498.70	508.73	508.33	1.63	1.62	-115.21	205.80	-166.87	276.07	272.85	3.22	85.629	
600.00	597.47	614.92	613.78	2.05	2.03	-120.23	193.42	-167.61	275.88	271.85	4.03	68.480	
618.85	616.02	635.17	633.84	2.14	2.11	-121.31	190.62	-167.58	275.87	271.68	4.19	65.903	
700.00	695.62	721.97	719.48	2.51	2.48	-126.41	176.57	-166.85	276.12	271.25	4.87	56.695 ES	
800.00	793.06	823.11	818.39	3.00	2.94	-133.48	155.53	-165.56	278.66	272.92	5.74	48.577	
900.00	889.64	916.50	909.02	3.53	3.40	-140.70	133.03	-164.40	286.88	280.26	6.62	43.316	
1,000.00	985.27	1,006.09	995.45	4.12	3.87	-147.83	109.43	-164.01	303.21	295.71	7.51	40.387	
1,100.00	1,079.82	1,093.84	1,079.87	4.75	4.35	-154.46	85.49	-163.91	327.99	319.61	8.38	39.141	
1,200.00	1,173.17	1,179.29	1,161.71	5.44	4.84	-160.46	60.95	-164.00	360.71	351.48	9.22	39.104 SF	
1,300.00	1,265.21	1,264.05	1,242.71	6.18	5.33	-165.78	36.00	-164.20	400.61	390.56	10.05	39.850	
1,400.00	1,355.84	1,351.71	1,326.40	6.99	5.85	-170.60	9.88	-163.55	445.90	435.00	10.90	40.902	
1,500.00	1,444.94	1,432.83	1,403.55	7.87	6.35	-174.55	-15.13	-162.30	496.09	484.37	11.71	42.359	
1,600.00	1,532.39	1,512.60	1,479.33	8.80	6.84	-177.96	-39.98	-160.91	550.91	538.38	12.52	43.989	
1,700.00	1,618.11	1,588.77	1,551.73	9.81	7.31	-179.22	-63.61	-159.56	609.80	596.48	13.32	45.778	
1,800.00	1,701.97	1,666.97	1,625.92	10.89	7.80	-176.64	-88.29	-158.01	672.35	658.20	14.15	47.506	
1,900.00	1,783.88	1,746.42	1,701.54	12.04	8.30	-174.39	-112.59	-156.02	737.56	722.55	15.02	49.117	
2,000.00	1,863.74	1,822.65	1,774.24	13.26	8.76	-172.50	-135.41	-153.76	805.27	789.41	15.87	50.755	
2,100.00	1,941.45	1,895.35	1,843.59	14.55	9.21	-170.86	-157.08	-151.31	875.46	858.76	16.70	52.423	
2,200.00	2,016.92	1,976.25	1,920.98	15.92	9.70	-169.28	-180.45	-148.20	947.68	930.05	17.63	53.760	
2,292.11	2,084.36	2,043.16	1,985.30	17.25	10.09	-168.14	-198.65	-145.43	1,015.69	997.28	18.41	55.161	
2,300.00	2,090.06	2,048.64	1,990.58	17.36	10.12	-168.09	-200.11	-145.21	1,021.60	1,003.11	18.48	55.275	
2,400.00	2,162.18	2,113.26	2,052.88	18.84	10.50	-167.53	-217.07	-142.66	1,096.37	1,077.12	19.25	56.952	
2,500.00	2,234.31	2,171.39	2,108.96	20.33	10.83	-167.10	-232.29	-140.73	1,171.53	1,151.57	19.96	58.700	
2,600.00	2,306.43	2,234.57	2,169.95	21.83	11.19	-166.71	-248.66	-139.07	1,247.01	1,226.30	20.72	60.191	
2,700.00	2,378.56	2,292.97	2,226.46	23.33	11.52	-166.43	-263.35	-137.90	1,322.65	1,301.22	21.43	61.723	
2,800.00	2,450.68	2,341.86	2,273.76	24.84	11.79	-166.23	-275.73	-137.42	1,398.92	1,376.88	22.04	63.478	
2,900.00	2,522.81	2,389.90	2,320.19	26.36	12.06	-166.05	-288.05	-137.49	1,475.93	1,453.30	22.63	65.206	
3,000.00	2,594.93	2,437.21	2,365.93	27.88	12.33	-165.91	-300.14	-138.14	1,553.61	1,530.39	23.22	66.906	
3,100.00	2,667.06	2,489.48	2,416.47	29.40	12.62	-165.79	-313.38	-139.50	1,631.87	1,608.02	23.86	68.405	
3,200.00	2,739.18	2,547.07	2,472.25	30.92	12.94	-165.70	-327.59	-141.43	1,710.36	1,685.81	24.55	69.678	
3,300.00	2,811.31	2,647.54	2,569.53	32.45	13.50	-165.52	-352.56	-143.70	1,788.35	1,762.63	25.72	69.531	
3,400.00	2,883.43	2,726.55	2,645.85	33.98	13.95	-165.31	-373.02	-143.57	1,865.30	1,838.62	26.68	69.903	
3,500.00	2,955.56	2,784.47	2,701.65	35.51	14.29	-165.14	-388.50	-142.94	1,942.03	1,914.60	27.43	70.811	
3,600.00	3,027.68	2,841.34	2,756.24	37.04	14.62	-164.96	-404.44	-142.24	2,019.11	1,990.94	28.16	71.693	
3,700.00	3,099.81	2,949.70	2,860.22	38.57	15.27	-164.60	-434.78	-139.29	2,095.24	2,065.72	29.52	70.972	
3,800.00	3,171.93	3,006.99	2,915.21	40.11	15.61	-164.43	-450.75	-137.37	2,171.12	2,140.84	30.28	71.692	
3,900.00	3,244.06	3,061.05	2,967.03	41.64	15.94	-164.26	-466.06	-135.66	2,247.28	2,216.26	31.01	72.461	
4,000.00	3,316.18	3,114.00	3,017.63	43.18	16.26	-164.10	-481.56	-134.01	2,323.77	2,292.04	31.73	73.226	
4,100.00	3,388.31	3,155.32	3,057.06	44.71	16.52	-163.97	-493.86	-132.93	2,400.74	2,368.42	32.31	74.293	
4,200.00	3,460.43	3,196.13	3,096.01	46.25	16.77	-163.85	-506.04	-132.28	2,478.29	2,445.41	32.89	75.362	
4,300.00	3,532.56	3,269.84	3,166.44	47.79	17.23	-163.68	-527.74	-131.64	2,556.13	2,522.27	33.86	75.495	
4,400.00	3,604.68	3,367.62	3,260.24	49.33	17.81	-163.49	-555.33	-130.39	2,633.33	2,598.21	35.12	74.985	
4,500.00	3,676.81	3,445.72	3,335.20	50.87	18.28	-163.35	-577.18	-128.53	2,709.82	2,673.68	36.14	74.974	
4,600.00	3,748.93	3,490.00	3,377.62	52.41	18.55	-163.26	-589.81	-127.23	2,786.30	2,749.54	36.76	75.796	
4,700.00	3,821.06	3,540.15	3,425.56	53.95	18.86	-163.15	-604.48	-125.88	2,863.13	2,825.68	37.46	76.437	
4,800.00	3,893.18	3,584.00	3,467.35	55.49	19.14	-163.06	-617.74	-125.03	2,940.64	2,902.57	38.08	77.230	
4,900.00	3,965.31	3,611.30	3,493.33	57.03	19.31	-163.00	-626.12	-124.73	3,018.70	2,980.22	38.48	78.446	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,645.31	3,525.71	58.58	19.52	162.94	-636.53	-124.69	3,097.35	3,058.38	38.97	79.484		
5,100.00	4,109.56	3,679.75	3,558.50	60.12	19.74	162.88	-647.06	-125.02	3,176.54	3,137.09	39.46	80.506		
5,200.00	4,181.68	3,737.09	3,613.13	61.66	20.10	162.80	-664.43	-125.97	3,256.02	3,215.79	40.23	80.929		
5,300.00	4,253.81	3,803.65	3,676.64	63.20	20.51	162.72	-684.30	-127.29	3,335.53	3,294.40	41.12	81.109		
5,400.00	4,325.93	3,886.99	3,756.27	64.75	21.02	162.63	-708.86	-128.69	3,414.75	3,372.52	42.23	80.869		
5,500.00	4,398.06	3,986.40	3,851.33	66.29	21.63	162.53	-737.91	-129.52	3,493.47	3,449.94	43.53	80.252		
5,600.00	4,470.18	4,164.41	4,022.43	67.84	22.69	162.39	-786.98	-128.52	3,571.00	3,525.21	45.78	78.001		
5,700.00	4,542.31	4,197.55	4,054.42	69.38	22.88	162.38	-795.62	-128.29	3,647.67	3,601.43	46.25	78.872		
5,800.00	4,614.43	4,242.00	4,097.36	70.92	23.13	162.36	-807.14	-128.18	3,724.66	3,677.81	46.85	79.503		
5,900.00	4,686.56	4,273.27	4,127.54	72.47	23.31	162.36	-815.31	-128.31	3,802.09	3,754.80	47.29	80.399		
6,000.00	4,758.68	4,303.01	4,156.20	74.01	23.49	162.35	-823.25	-128.63	3,880.06	3,832.35	47.71	81.325		
6,100.00	4,830.81	4,335.00	4,186.98	75.56	23.67	162.34	-831.95	-129.21	3,958.56	3,910.41	48.16	82.204		
6,200.00	4,902.93	4,393.35	4,243.09	77.10	24.01	162.32	-847.89	-130.50	4,037.35	3,988.42	48.92	82.526		
6,300.00	4,975.06	4,446.29	4,294.04	78.65	24.32	162.31	-862.22	-131.75	4,116.13	4,066.50	49.62	82.949		
6,400.00	5,047.18	4,484.24	4,330.51	80.19	24.55	162.30	-872.66	-132.75	4,195.19	4,145.05	50.14	83.669		
6,500.00	5,119.31	4,522.00	4,366.73	81.74	24.77	162.29	-883.28	-133.84	4,274.60	4,223.94	50.66	84.385		
6,600.00	5,191.43	4,600.00	4,499.14	83.28	27.39	162.22	-922.96	-136.60	4,353.87	4,290.62	63.25	68.839		
6,700.00	5,263.56	5,012.52	4,840.07	84.83	27.58	162.19	-1,011.08	-134.22	4,430.53	4,373.87	56.66	78.198		
6,800.00	5,335.68	5,099.93	4,925.47	86.37	28.02	162.22	-1,029.57	-132.06	4,504.58	4,446.86	57.71	78.051		
6,900.00	5,407.81	5,162.34	4,986.74	87.92	28.33	162.27	-1,041.41	-131.29	4,578.56	4,520.09	58.47	78.308		
7,000.00	5,479.93	5,709.08	5,530.92	89.47	30.14	163.60	-1,083.91	-132.42	4,651.22	4,588.40	62.82	74.038		
7,100.00	5,552.06	5,774.19	5,596.02	91.01	30.28	163.81	-1,083.75	-131.64	4,718.12	4,654.73	63.39	74.428		
7,200.00	5,624.18	5,842.39	5,664.22	92.56	30.43	164.02	-1,083.44	-130.98	4,785.13	4,721.16	63.98	74.797		
7,300.00	5,696.31	5,903.87	5,725.70	94.10	30.56	164.20	-1,083.13	-130.53	4,852.32	4,787.81	64.52	75.212		
7,400.00	5,768.43	5,972.61	5,794.43	95.65	30.71	164.41	-1,082.82	-130.15	4,919.68	4,854.58	65.10	75.574		
7,500.00	5,840.56	6,044.36	5,866.18	97.20	30.86	164.62	-1,082.50	-129.76	4,987.09	4,921.39	65.70	75.911		
7,600.00	5,912.68	6,114.54	5,936.36	98.74	31.01	164.82	-1,082.13	-129.46	5,054.56	4,988.28	66.29	76.254		
7,700.00	5,984.81	6,181.01	6,002.83	100.29	31.15	165.01	-1,081.72	-129.26	5,122.13	5,055.28	66.85	76.622		
7,800.00	6,056.93	6,243.39	6,065.21	101.84	31.28	165.18	-1,081.29	-129.20	5,189.84	5,122.45	67.39	77.015		
7,900.00	6,129.06	6,299.00	6,120.82	103.38	31.40	165.33	-1,080.93	-129.28	5,257.75	5,189.87	67.88	77.453		
8,000.00	6,201.18	6,355.43	6,177.24	104.93	31.53	165.48	-1,080.60	-129.52	5,325.92	5,257.53	68.38	77.882		
8,100.00	6,273.31	6,435.40	6,257.22	106.48	31.70	165.69	-1,080.30	-129.95	5,394.21	5,325.18	69.03	78.143		
8,200.00	6,345.43	6,546.83	6,368.65	108.02	31.95	165.98	-1,079.47	-130.21	5,462.24	5,392.38	69.86	78.185		
8,300.00	6,417.56	6,604.40	6,426.21	109.57	32.07	166.12	-1,078.93	-130.21	5,530.09	5,459.72	70.37	78.582		
8,400.00	6,489.68	6,670.84	6,492.65	111.12	32.22	166.28	-1,078.44	-130.35	5,598.16	5,527.22	70.94	78.916		
8,500.00	6,561.81	6,763.85	6,585.65	112.66	32.43	166.50	-1,077.44	-130.53	5,666.13	5,594.47	71.66	79.065		
8,600.00	6,633.93	6,861.45	6,683.24	114.21	32.64	166.73	-1,076.17	-130.35	5,733.80	5,661.38	72.42	79.173		
8,700.00	6,706.06	6,962.13	6,783.91	115.76	32.88	166.95	-1,075.20	-129.53	5,801.24	5,728.03	73.21	79.240		
8,800.00	6,778.18	7,055.43	6,877.20	117.30	33.10	167.14	-1,074.43	-128.07	5,868.23	5,794.26	73.97	79.335		
8,900.00	6,850.31	7,111.00	6,932.76	118.85	33.23	167.25	-1,074.12	-127.12	5,935.30	5,860.81	74.49	79.679		
9,000.00	6,922.43	7,167.77	6,989.53	120.40	33.37	167.36	-1,073.93	-126.27	6,002.59	5,927.57	75.02	80.010		
9,100.00	6,994.56	7,218.12	7,039.87	121.95	33.50	167.45	-1,073.85	-125.71	6,070.19	5,994.67	75.51	80.386		
9,200.00	7,066.68	7,269.79	7,091.54	123.49	33.63	167.55	-1,073.77	-125.34	6,138.06	6,062.05	76.01	80.755		
9,300.00	7,138.81	7,318.03	7,139.78	125.04	33.75	167.64	-1,073.69	-125.18	6,206.21	6,129.73	76.48	81.147		
9,392.50	7,205.52	7,358.88	7,180.63	126.47	33.86	167.72	-1,073.76	-125.18	6,269.55	6,192.65	76.89	81.536		
9,400.00	7,210.94	7,362.19	7,183.94	126.59	33.87	166.34	-1,073.77	-125.18	6,274.68	6,197.75	76.93	81.567		
9,450.00	7,247.42	7,391.00	7,212.75	127.35	33.94	157.27	-1,073.91	-125.25	6,308.06	6,230.87	77.20	81.714		
9,500.00	7,284.35	7,500.00	7,276.85	128.10	39.73	148.63	-1,074.31	-125.03	6,339.53	6,256.00	83.53	75.895		
9,550.00	7,321.43	7,556.30	7,378.03	128.83	34.40	140.57	-1,075.10	-123.95	6,368.88	6,290.36	78.51	81.118		
9,600.00	7,358.38	7,596.64	7,418.37	129.52	34.51	132.77	-1,075.58	-123.19	6,395.95	6,317.07	78.89	81.078		
9,650.00	7,394.93	7,625.92	7,447.64	130.16	34.60	125.48	-1,076.00	-122.64	6,420.77	6,341.59	79.18	81.090		
9,700.00	7,430.79	7,654.73	7,476.44	130.76	34.68	118.83	-1,076.48	-122.10	6,443.18	6,363.71	79.47	81.081		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,672.00	7,493.70	131.30	34.73	112.80	-1,076.79	-121.78	6,463.07	6,383.41	79.66	81.132		
9,800.00	7,499.38	7,701.87	7,523.56	131.78	34.82	107.55	-1,077.36	-121.28	6,480.31	6,400.37	79.94	81.066		
9,850.00	7,531.58	7,722.27	7,543.95	132.21	34.88	102.94	-1,077.76	-120.99	6,494.84	6,414.71	80.13	81.050		
9,900.00	7,562.06	7,741.58	7,563.26	132.57	34.93	98.99	-1,078.14	-120.74	6,506.58	6,426.27	80.31	81.021		
9,950.00	7,590.58	7,766.00	7,587.68	132.87	35.01	95.72	-1,078.64	-120.49	6,515.47	6,434.97	80.50	80.933		
10,000.00	7,616.93	7,766.00	7,587.68	133.11	35.01	92.86	-1,078.64	-120.49	6,521.48	6,440.97	80.51	81.007		
10,050.00	7,640.90	7,766.00	7,587.68	133.29	35.01	90.56	-1,078.64	-120.49	6,524.63	6,444.14	80.49	81.062		
10,100.00	7,662.32	7,794.05	7,615.71	133.42	35.09	89.00	-1,079.26	-120.30	6,524.78	6,444.11	80.67	80.880		
10,150.00	7,681.01	7,802.65	7,624.32	133.50	35.12	87.80	-1,079.46	-120.27	6,522.09	6,441.40	80.70	80.822		
10,200.00	7,696.85	7,810.04	7,631.71	133.52	35.14	87.05	-1,079.64	-120.26	6,516.54	6,435.84	80.70	80.747		
10,250.00	7,709.70	7,816.16	7,637.82	133.51	35.16	86.76	-1,079.79	-120.25	6,508.18	6,427.48	80.69	80.653		
10,300.00	7,719.47	7,820.95	7,642.61	133.46	35.17	86.91	-1,079.91	-120.25	6,497.05	6,416.38	80.67	80.537		
10,350.00	7,726.09	7,824.39	7,646.05	133.37	35.18	87.49	-1,080.00	-120.26	6,483.25	6,402.61	80.64	80.397		
10,400.00	7,729.50	7,826.44	7,648.10	133.26	35.19	88.53	-1,080.05	-120.26	6,466.86	6,386.26	80.60	80.229		
10,427.79	7,730.00	7,826.98	7,648.64	133.18	35.19	89.30	-1,080.07	-120.26	6,456.67	6,376.09	80.58	80.123		
10,500.00	7,730.00	7,827.80	7,649.46	132.98	35.19	89.30	-1,080.09	-120.26	6,429.57	6,349.03	80.54	79.831		
10,600.00	7,730.00	7,828.95	7,650.61	132.72	35.20	89.32	-1,080.12	-120.26	6,393.20	6,312.69	80.51	79.408		
10,700.00	7,730.00	7,830.11	7,651.77	132.47	35.20	89.33	-1,080.15	-120.27	6,358.19	6,277.67	80.52	78.961		
10,800.00	7,730.00	7,831.28	7,652.94	132.22	35.20	89.34	-1,080.18	-120.27	6,324.57	6,243.99	80.58	78.490		
10,900.00	7,730.00	7,832.46	7,654.11	131.99	35.21	89.35	-1,080.21	-120.27	6,292.35	6,211.67	80.68	77.995		
11,000.00	7,730.00	7,833.64	7,655.30	131.77	35.21	89.36	-1,080.24	-120.27	6,261.57	6,180.75	80.82	77.476		
11,100.00	7,730.00	7,834.84	7,656.49	131.56	35.22	89.37	-1,080.27	-120.28	6,232.24	6,151.23	81.01	76.934		
11,200.00	7,730.00	7,836.04	7,657.70	131.36	35.22	89.38	-1,080.31	-120.28	6,204.38	6,123.14	81.24	76.370		
11,300.00	7,730.00	7,837.25	7,658.91	131.17	35.22	89.39	-1,080.34	-120.29	6,178.01	6,096.49	81.52	75.784		
11,400.00	7,730.00	7,859.00	7,680.65	130.99	35.29	89.60	-1,080.94	-120.41	6,153.23	6,071.20	82.03	75.007		
11,500.00	7,730.00	7,859.00	7,680.65	130.82	35.29	89.60	-1,080.94	-120.41	6,129.90	6,047.50	82.40	74.394		
11,600.00	7,730.00	7,859.00	7,680.65	130.66	35.29	89.60	-1,080.94	-120.41	6,108.12	6,025.31	82.81	73.764		
11,700.00	7,730.00	7,859.00	7,680.65	130.51	35.29	89.60	-1,080.94	-120.41	6,087.90	6,004.64	83.26	73.120		
11,800.00	7,730.00	7,859.00	7,680.65	130.37	35.29	89.60	-1,080.94	-120.41	6,069.26	5,985.50	83.75	72.465		
11,900.00	7,730.00	7,859.00	7,680.65	130.24	35.29	89.60	-1,080.94	-120.41	6,052.22	5,967.92	84.29	71.800		
12,000.00	7,730.00	7,859.00	7,680.65	130.13	35.29	89.60	-1,080.94	-120.41	6,036.78	5,951.91	84.87	71.128		
12,100.00	7,730.00	7,859.00	7,680.65	130.02	35.29	89.60	-1,080.94	-120.41	6,022.97	5,937.48	85.49	70.453		
12,200.00	7,730.00	7,859.00	7,680.65	129.93	35.29	89.60	-1,080.94	-120.41	6,010.78	5,924.64	86.14	69.776		
12,300.00	7,730.00	7,859.00	7,680.65	129.85	35.29	89.60	-1,080.94	-120.41	6,000.24	5,913.41	86.83	69.100		
12,400.00	7,730.00	7,859.00	7,680.65	129.77	35.29	89.60	-1,080.94	-120.41	5,991.36	5,903.80	87.56	68.428		
12,500.00	7,730.00	7,859.00	7,680.65	129.71	35.29	89.60	-1,080.94	-120.41	5,984.12	5,895.81	88.31	67.762		
12,600.00	7,730.00	7,859.00	7,680.65	129.66	35.29	89.60	-1,080.94	-120.41	5,978.56	5,889.46	89.09	67.105		
12,700.00	7,730.00	7,859.00	7,680.65	129.63	35.29	89.60	-1,080.94	-120.41	5,974.66	5,884.76	89.90	66.459		
12,800.00	7,730.00	7,859.00	7,680.65	129.60	35.29	89.60	-1,080.94	-120.41	5,972.43	5,881.70	90.73	65.825		
12,882.97	7,730.00	7,859.00	7,680.65	129.59	35.29	89.60	-1,080.94	-120.41	5,971.86	5,880.42	91.44	65.309		
12,900.00	7,730.00	7,859.00	7,680.65	129.59	35.29	89.60	-1,080.94	-120.41	5,971.88	5,880.30	91.58	65.207		
13,000.00	7,730.00	7,859.00	7,680.65	129.59	35.29	89.60	-1,080.94	-120.41	5,973.00	5,880.55	92.45	64.605		
13,100.00	7,730.00	7,859.00	7,680.65	129.60	35.29	89.60	-1,080.94	-120.41	5,975.80	5,882.46	93.34	64.022		
13,200.00	7,730.00	7,859.00	7,680.65	129.63	35.29	89.60	-1,080.94	-120.41	5,980.27	5,886.03	94.24	63.458		
13,300.00	7,730.00	7,859.00	7,680.65	129.66	35.29	89.60	-1,080.94	-120.41	5,986.40	5,891.25	95.15	62.915		
13,400.00	7,730.00	7,859.00	7,680.65	129.72	35.29	89.60	-1,080.94	-120.41	5,994.20	5,898.13	96.07	62.394		
13,500.00	7,730.00	7,859.00	7,680.65	129.78	35.29	89.60	-1,080.94	-120.41	6,003.65	5,906.65	97.00	61.895		
13,600.00	7,730.00	7,859.00	7,680.65	129.86	35.29	89.60	-1,080.94	-120.41	6,014.75	5,916.82	97.93	61.420		
13,700.00	7,730.00	7,859.00	7,680.65	129.96	35.29	89.60	-1,080.94	-120.41	6,027.49	5,928.63	98.86	60.969		
13,800.00	7,730.00	7,859.00	7,680.65	130.07	35.29	89.60	-1,080.94	-120.41	6,041.86	5,942.06	99.79	60.543		
13,900.00	7,730.00	7,859.00	7,680.65	130.19	35.29	89.60	-1,080.94	-120.41	6,057.84	5,957.11	100.73	60.141		
14,000.00	7,730.00	7,859.00	7,680.65	130.33	35.29	89.60	-1,080.94	-120.41	6,075.43	5,973.77	101.66	59.764		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,859.00	7,680.65	130.49	35.29	89.60	-1,080.94	-120.41	6,094.61	5,992.03	102.58	59.413		
14,200.00	7,730.00	7,859.00	7,680.65	130.67	35.29	89.60	-1,080.94	-120.41	6,115.36	6,011.86	103.50	59.086		
14,300.00	7,730.00	7,859.00	7,680.65	130.86	35.29	89.60	-1,080.94	-120.41	6,137.67	6,033.26	104.41	58.785		
14,400.00	7,730.00	7,859.00	7,680.65	131.07	35.29	89.60	-1,080.94	-120.41	6,161.53	6,056.22	105.31	58.508		
14,500.00	7,730.00	7,859.00	7,680.65	131.30	35.29	89.60	-1,080.94	-120.41	6,186.91	6,080.71	106.20	58.256		
14,600.00	7,730.00	7,859.00	7,680.65	131.55	35.29	89.60	-1,080.94	-120.41	6,213.80	6,106.71	107.08	58.028		
14,700.00	7,730.00	7,859.00	7,680.65	131.82	35.29	89.60	-1,080.94	-120.41	6,242.17	6,134.22	107.95	57.824		
14,800.00	7,730.00	7,859.00	7,680.65	132.11	35.29	89.60	-1,080.94	-120.41	6,272.01	6,163.20	108.80	57.645		
14,900.00	7,730.00	7,859.00	7,680.65	132.42	35.29	89.60	-1,080.94	-120.41	6,303.29	6,193.65	109.65	57.488		
15,000.00	7,730.00	7,859.00	7,680.65	132.75	35.29	89.60	-1,080.94	-120.41	6,336.00	6,225.53	110.47	57.354		
15,100.00	7,730.00	7,883.86	7,705.49	133.10	35.37	89.84	-1,081.68	-120.67	6,369.99	6,258.52	111.47	57.144		
15,200.00	7,730.00	7,885.11	7,706.74	133.48	35.37	89.85	-1,081.72	-120.69	6,405.47	6,293.19	112.28	57.051		
15,300.00	7,730.00	7,886.36	7,707.99	133.88	35.37	89.87	-1,081.76	-120.71	6,442.30	6,329.24	113.06	56.981		
15,400.00	7,730.00	7,887.62	7,709.26	134.31	35.38	89.88	-1,081.80	-120.73	6,480.47	6,366.64	113.83	56.931		
15,500.00	7,730.00	7,888.90	7,710.53	134.76	35.38	89.89	-1,081.83	-120.75	6,519.95	6,405.37	114.58	56.902		
15,600.00	7,730.00	7,890.17	7,711.80	135.23	35.38	89.90	-1,081.87	-120.77	6,560.71	6,445.40	115.32	56.892		
15,700.00	7,730.00	15,700.00	8,150.39	135.73	63.41	94.11	-1,103.49	-115.63	6,602.74	6,459.32	143.41	46.040		
15,800.00	7,730.00	8,347.02	8,167.86	136.26	36.90	94.27	-1,104.85	-114.95	6,645.62	6,525.67	119.95	55.402		
15,900.00	7,730.00	8,350.91	8,171.73	136.81	36.91	94.31	-1,105.14	-114.80	6,689.76	6,569.14	120.62	55.460		
16,000.00	7,730.00	8,354.75	8,175.56	137.39	36.93	94.35	-1,105.43	-114.66	6,735.09	6,613.81	121.28	55.534		
16,100.00	7,730.00	8,358.55	8,179.34	138.00	36.94	94.38	-1,105.71	-114.52	6,781.59	6,659.67	121.91	55.626		
16,200.00	7,730.00	8,362.30	8,183.08	138.63	36.95	94.42	-1,105.99	-114.38	6,829.23	6,706.69	122.53	55.734		
16,300.00	7,730.00	8,366.00	8,186.77	139.30	36.97	94.45	-1,106.26	-114.25	6,877.99	6,754.85	123.13	55.858		
16,400.00	7,730.00	8,369.66	8,190.41	139.99	36.98	94.49	-1,106.52	-114.12	6,927.85	6,804.13	123.72	55.997		
16,500.00	7,730.00	8,373.27	8,194.02	140.70	36.99	94.52	-1,106.78	-113.99	6,978.78	6,854.49	124.29	56.151		
16,600.00	7,730.00	8,376.84	8,197.58	141.45	37.01	94.56	-1,107.04	-113.86	7,030.76	6,905.92	124.84	56.320		
16,700.00	7,730.00	8,380.37	8,201.09	142.22	37.02	94.59	-1,107.29	-113.74	7,083.76	6,958.39	125.37	56.503		
16,800.00	7,730.00	8,383.86	8,204.57	143.03	37.03	94.63	-1,107.54	-113.62	7,137.77	7,011.89	125.89	56.700		
16,900.00	7,730.00	8,387.30	8,208.01	143.86	37.04	94.66	-1,107.78	-113.50	7,192.77	7,066.38	126.39	56.911		
17,000.00	7,730.00	8,390.71	8,211.40	144.71	37.06	94.69	-1,108.02	-113.39	7,248.72	7,121.84	126.87	57.134		
17,100.00	7,730.00	8,394.08	8,214.76	145.60	37.07	94.72	-1,108.26	-113.27	7,305.60	7,178.26	127.34	57.370		
17,200.00	7,730.00	8,397.40	8,218.07	146.51	37.08	94.75	-1,108.49	-113.16	7,363.41	7,235.61	127.80	57.618		
17,300.00	7,730.00	8,400.00	8,240.61	147.44	37.16	94.97	-1,110.02	-112.44	7,422.16	7,293.80	128.36	57.824		
17,400.00	7,730.00	8,420.00	8,240.61	148.40	37.16	94.97	-1,110.02	-112.44	7,481.71	7,352.95	128.76	58.105		
17,500.00	7,730.00	8,420.00	8,240.61	149.39	37.16	94.97	-1,110.02	-112.44	7,542.12	7,412.97	129.15	58.396		
17,600.00	7,730.00	8,420.00	8,240.61	150.40	37.16	94.97	-1,110.02	-112.44	7,603.37	7,473.84	129.53	58.698		
17,700.00	7,730.00	8,420.00	8,240.61	151.44	37.16	94.97	-1,110.02	-112.44	7,665.43	7,535.53	129.90	59.011		
17,800.00	7,730.00	8,420.00	8,240.61	152.50	37.16	94.97	-1,110.02	-112.44	7,728.29	7,598.03	130.25	59.333		
17,900.00	7,730.00	8,420.00	8,240.61	153.58	37.16	94.97	-1,110.02	-112.44	7,791.92	7,661.33	130.59	59.665		
18,000.00	7,730.00	8,420.00	8,240.61	154.68	37.16	94.97	-1,110.02	-112.44	7,856.31	7,725.39	130.92	60.006		
18,100.00	7,730.00	8,420.00	8,240.61	155.80	37.16	94.97	-1,110.02	-112.44	7,921.44	7,790.20	131.24	60.357		
18,200.00	7,730.00	8,420.00	8,240.61	156.95	37.16	94.97	-1,110.02	-112.44	7,987.29	7,855.74	131.55	60.716		
18,300.00	7,730.00	8,420.00	8,240.61	158.11	37.16	94.97	-1,110.02	-112.44	8,053.84	7,922.00	131.85	61.084		
18,400.00	7,730.00	8,420.00	8,240.61	159.30	37.16	94.97	-1,110.02	-112.44	8,121.08	7,988.95	132.13	61.461		
18,500.00	7,730.00	8,420.00	8,240.61	160.50	37.16	94.97	-1,110.02	-112.44	8,188.99	8,056.58	132.41	61.845		
18,600.00	7,730.00	8,420.00	8,240.61	161.72	37.16	94.97	-1,110.02	-112.44	8,257.55	8,124.88	132.68	62.238		
18,700.00	7,730.00	8,420.00	8,240.61	162.96	37.16	94.97	-1,110.02	-112.44	8,326.75	8,193.82	132.94	62.638		
18,800.00	7,730.00	8,420.00	8,240.61	164.21	37.16	94.97	-1,110.02	-112.44	8,396.57	8,263.39	133.18	63.045		
18,900.00	7,730.00	8,446.22	8,266.77	165.48	37.25	95.22	-1,111.71	-111.67	8,466.89	8,333.32	133.57	63.390		
19,000.00	7,730.00	8,448.73	8,269.26	166.76	37.26	95.24	-1,111.87	-111.60	8,537.89	8,404.07	133.81	63.805		
19,100.00	7,730.00	8,451.20	8,271.73	168.06	37.27	95.27	-1,112.02	-111.53	8,609.45	8,475.41	134.05	64.226		
19,200.00	7,730.00	8,453.65	8,274.18	169.38	37.28	95.29	-1,112.18	-111.47	8,681.58	8,547.31	134.28	64.655		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	8,456.08	8,276.60	170.70	37.29	95.31	-1,112.33	-111.40	8,754.26	8,619.76	134.50	65.089	
19,400.00	7,730.00	8,458.48	8,278.99	172.04	37.29	95.34	-1,112.47	-111.34	8,827.47	8,692.76	134.71	65.530	
19,500.00	7,730.00	8,460.85	8,281.36	173.40	37.30	95.36	-1,112.62	-111.27	8,901.19	8,766.28	134.91	65.977	
19,600.00	7,730.00	8,463.21	8,283.71	174.76	37.31	95.38	-1,112.76	-111.21	8,975.43	8,840.32	135.11	66.430	
19,700.00	7,730.00	8,465.53	8,286.03	176.14	37.32	95.40	-1,112.90	-111.15	9,050.16	8,914.86	135.30	66.888	
19,800.00	7,730.00	8,467.84	8,288.33	177.52	37.33	95.43	-1,113.04	-111.10	9,125.37	8,989.88	135.49	67.352	
19,900.00	7,730.00	8,470.12	8,290.61	178.92	37.33	95.45	-1,113.18	-111.04	9,201.05	9,065.39	135.66	67.822	
20,000.00	7,730.00	8,472.38	8,292.86	180.33	37.34	95.47	-1,113.31	-110.98	9,277.19	9,141.35	135.84	68.297	
20,100.00	7,730.00	8,474.62	8,295.10	181.75	37.35	95.49	-1,113.45	-110.93	9,353.78	9,217.78	136.00	68.776	
20,184.95	7,730.00	8,476.50	8,296.98	182.96	37.36	95.51	-1,113.56	-110.88	9,419.19	9,283.05	136.14	69.188	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-33.57	218.94	-145.32	262.90				
100.00	100.00	90.01	90.01	0.13	0.15	-33.51	219.39	-145.25	263.12	262.84	0.28	932.960	
200.00	199.98	193.22	193.21	0.49	0.42	-104.06	220.62	-144.59	264.21	263.30	0.91	290.474	
300.00	299.84	302.82	302.73	0.86	0.81	-104.60	220.36	-140.58	263.26	261.60	1.67	158.103	
400.00	399.45	412.20	411.71	1.23	1.22	-105.30	218.54	-131.65	259.51	257.07	2.44	106.358	
500.00	498.70	518.30	516.89	1.63	1.64	-105.93	216.57	-117.88	253.80	250.56	3.24	78.430	
600.00	597.47	627.05	624.15	2.05	2.11	-107.15	212.42	-100.48	245.71	241.63	4.08	60.288	
700.00	695.62	730.20	725.19	2.51	2.60	-108.58	207.99	-80.20	236.16	231.23	4.94	47.852	
800.00	793.06	824.82	817.17	3.00	3.08	-109.68	206.38	-58.16	227.65	221.82	5.83	39.065	
900.00	889.64	921.24	910.40	3.53	3.59	-110.33	210.42	-33.94	223.71	216.91	6.80	32.886	
1,000.00	985.27	1,025.59	1,011.25	4.12	4.15	-112.03	213.57	-7.30	219.93	212.10	7.84	28.066	
1,100.00	1,079.82	1,126.94	1,108.98	4.75	4.72	-114.63	215.45	19.43	216.31	207.44	8.87	24.376	
1,200.00	1,173.17	1,225.00	1,203.39	5.44	5.28	-117.87	217.41	45.87	214.40	204.50	9.90	21.647	
1,206.09	1,178.81	1,230.62	1,208.81	5.48	5.31	-118.08	217.54	47.36	214.39	204.42	9.97	21.511	CC, ES
1,300.00	1,265.21	1,317.44	1,292.75	6.18	5.80	-121.64	220.35	69.35	216.97	206.08	10.89	19.931	
1,400.00	1,355.84	1,413.90	1,385.88	6.99	6.34	-125.53	226.25	93.74	224.42	212.56	11.87	18.910	
1,500.00	1,444.94	1,512.09	1,480.54	7.87	6.89	-129.55	233.31	118.87	235.44	222.61	12.83	18.348	
1,600.00	1,532.39	1,610.59	1,575.29	8.80	7.46	-133.63	240.61	144.79	249.45	235.69	13.76	18.130	SF
1,700.00	1,618.11	1,704.82	1,665.74	9.81	8.01	-137.23	249.00	169.84	267.51	252.86	14.65	18.259	
1,800.00	1,701.97	1,797.78	1,755.18	10.89	8.54	-140.71	257.59	193.67	290.32	274.83	15.49	18.739	
1,900.00	1,783.88	1,891.10	1,845.14	12.04	9.07	-144.10	265.96	217.03	317.51	301.22	16.29	19.486	
2,000.00	1,863.74	1,982.38	1,933.49	13.26	9.58	-147.51	272.14	239.07	349.06	332.04	17.02	20.512	
2,100.00	1,941.45	2,073.90	2,022.22	14.55	10.09	-150.75	277.46	260.91	384.88	367.16	17.72	21.722	
2,200.00	2,016.92	2,166.53	2,111.83	15.92	10.61	-153.60	283.29	283.64	424.14	405.70	18.44	22.997	
2,292.11	2,084.36	2,247.65	2,190.19	17.25	11.07	-155.74	288.93	303.81	463.45	444.34	19.11	24.249	
2,300.00	2,090.06	2,253.59	2,195.94	17.36	11.11	-155.91	289.35	305.27	466.97	447.81	19.17	24.364	
2,400.00	2,162.18	2,333.39	2,273.25	18.84	11.55	-158.13	294.40	324.37	512.62	492.78	19.84	25.837	
2,500.00	2,234.31	2,416.84	2,354.33	20.33	12.00	-160.16	299.16	343.51	559.81	539.27	20.54	27.257	
2,600.00	2,306.43	2,502.19	2,437.32	21.83	12.46	-161.90	304.28	362.76	607.83	586.56	21.27	28.581	
2,700.00	2,378.56	2,601.90	2,534.12	23.33	13.01	-163.68	309.81	386.05	655.59	633.49	22.10	29.665	
2,800.00	2,450.68	2,687.72	2,617.19	24.84	13.49	-165.14	313.09	407.37	702.52	679.68	22.84	30.759	
2,900.00	2,522.81	2,778.88	2,705.45	26.36	14.01	-166.50	316.47	429.91	749.88	726.25	23.63	31.739	
3,000.00	2,594.93	2,868.17	2,791.74	27.88	14.52	-167.65	320.24	452.51	796.92	772.50	24.42	32.634	
3,100.00	2,667.06	2,956.17	2,876.77	29.40	15.03	-168.73	322.90	475.01	844.12	818.91	25.21	33.488	
3,200.00	2,739.18	3,047.97	2,965.42	30.92	15.56	-169.74	325.82	498.70	891.30	865.27	26.03	34.238	
3,300.00	2,811.31	3,133.53	3,047.95	32.45	16.06	-170.50	329.70	520.91	938.29	911.45	26.83	34.967	
3,400.00	2,883.43	3,217.06	3,128.65	33.98	16.54	-171.09	334.76	541.86	985.90	958.27	27.63	35.677	
3,500.00	2,955.56	3,300.49	3,209.29	35.51	17.01	-171.60	340.10	562.58	1,033.76	1,005.32	28.44	36.352	
3,600.00	3,027.68	3,378.57	3,284.92	37.04	17.45	-172.04	345.12	581.34	1,082.37	1,053.17	29.20	37.067	
3,700.00	3,099.81	3,465.56	3,369.26	38.57	17.93	-172.49	350.52	601.99	1,131.35	1,101.31	30.04	37.666	
3,800.00	3,171.93	3,542.69	3,444.11	40.11	18.36	-172.91	354.40	620.16	1,180.76	1,149.97	30.79	38.352	
3,900.00	3,244.06	3,639.21	3,537.78	41.64	18.89	-173.45	358.05	643.15	1,230.28	1,198.58	31.70	38.811	
4,000.00	3,316.18	3,715.87	3,612.14	43.18	19.31	-173.85	360.99	661.53	1,279.71	1,247.26	32.45	39.437	
4,100.00	3,388.31	3,808.10	3,701.72	44.71	19.82	-174.27	364.88	683.16	1,329.56	1,296.23	33.34	39.883	
4,200.00	3,460.43	3,892.49	3,783.57	46.25	20.29	-174.65	368.20	703.43	1,379.03	1,344.88	34.16	40.371	
4,300.00	3,532.56	3,975.59	3,864.26	47.79	20.75	-174.98	371.67	722.99	1,428.90	1,393.93	34.97	40.856	
4,400.00	3,604.68	4,056.79	3,943.14	49.33	21.19	-175.27	375.29	741.95	1,478.92	1,443.14	35.77	41.340	
4,500.00	3,676.81	4,134.14	4,018.40	50.87	21.60	-175.48	379.84	759.20	1,529.50	1,492.96	36.54	41.854	
4,600.00	3,748.93	4,223.04	4,104.93	52.41	22.08	-175.71	384.62	779.02	1,580.24	1,542.82	37.41	42.236	
4,700.00	3,821.06	4,318.42	4,197.67	53.95	22.59	-175.96	389.76	800.67	1,630.64	1,592.30	38.35	42.525	
4,800.00	3,893.18	4,374.50	4,252.32	55.49	22.89	-176.08	392.88	812.87	1,681.75	1,642.83	38.92	43.208	
4,900.00	3,965.31	4,484.06	4,359.16	57.03	23.46	-176.35	398.11	836.56	1,733.35	1,693.36	39.98	43.351	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,566.50	4,439.33	58.58	23.91	-176.57	401.35	855.51	1,783.93	1,743.13	40.80	43.720		
5,100.00	4,109.56	4,651.70	4,522.24	60.12	24.37	-176.77	405.16	874.74	1,834.73	1,793.09	41.65	44.052		
5,200.00	4,181.68	4,736.83	4,605.09	61.66	24.82	-176.95	409.16	893.91	1,885.55	1,843.05	42.50	44.371		
5,300.00	4,253.81	4,803.50	4,670.00	63.20	25.17	-177.10	411.69	908.90	1,936.68	1,893.51	43.17	44.860		
5,400.00	4,325.93	4,864.00	4,729.08	64.75	25.49	-177.26	412.83	921.84	1,989.11	1,945.32	43.78	45.430		
5,500.00	4,398.06	4,904.71	4,768.97	66.29	25.68	-177.38	413.19	929.97	2,042.94	1,998.75	44.19	46.227		
5,600.00	4,470.18	4,958.00	4,821.38	67.84	25.94	-177.52	413.61	939.60	2,098.37	2,053.65	44.72	46.926		
5,700.00	4,542.31	5,001.14	4,863.93	69.38	26.13	-177.62	413.91	946.68	2,155.14	2,110.01	45.12	47.762		
5,800.00	4,614.43	5,052.00	4,914.21	70.92	26.35	-177.73	414.22	954.37	2,213.09	2,167.49	45.60	48.531		
5,900.00	4,686.56	5,107.91	4,969.58	72.47	26.57	-177.84	414.50	962.12	2,272.06	2,225.94	46.13	49.258		
6,000.00	4,758.68	5,162.20	5,023.43	74.01	26.79	-177.95	414.73	969.04	2,331.94	2,285.31	46.63	50.009		
6,100.00	4,830.81	5,214.43	5,075.31	75.56	26.99	-178.04	414.89	975.09	2,392.72	2,345.62	47.11	50.794		
6,200.00	4,902.93	5,260.92	5,121.54	77.10	27.15	-178.11	415.01	979.92	2,454.46	2,406.94	47.52	51.656		
6,300.00	4,975.06	5,302.04	5,162.50	78.65	27.30	-178.17	415.10	983.57	2,517.32	2,469.47	47.86	52.599		
6,400.00	5,047.18	5,332.00	5,192.37	80.19	27.40	-178.21	415.17	985.83	2,581.36	2,533.29	48.07	53.700		
6,500.00	5,119.31	5,390.10	5,250.36	81.74	27.58	-178.27	415.29	989.44	2,646.24	2,597.65	48.59	54.456		
6,600.00	5,191.43	5,438.01	5,298.21	83.28	27.72	-178.32	415.39	991.77	2,712.02	2,663.02	49.00	55.345		
6,700.00	5,263.56	5,495.29	5,355.44	84.83	27.89	-178.37	415.46	994.11	2,778.40	2,728.88	49.51	56.112		
6,800.00	5,335.68	5,557.16	5,417.28	86.37	28.06	-178.42	415.50	996.26	2,845.21	2,795.13	50.08	56.812		
6,900.00	5,407.81	5,613.00	5,473.09	87.92	28.22	-178.46	415.61	998.00	2,912.29	2,861.71	50.58	57.580		
7,000.00	5,479.93	5,668.58	5,528.66	89.47	28.37	-178.50	415.78	999.35	2,979.83	2,928.76	51.07	58.346		
7,100.00	5,552.06	5,717.25	5,577.32	91.01	28.50	-178.52	415.94	1,000.05	3,048.00	2,996.52	51.49	59.201		
7,200.00	5,624.18	5,769.50	5,629.57	92.56	28.63	-178.54	416.09	1,000.42	3,116.71	3,064.77	51.94	60.010		
7,300.00	5,696.31	5,828.15	5,688.22	94.10	28.78	-178.57	416.21	1,000.46	3,185.86	3,133.40	52.46	60.732		
7,400.00	5,768.43	5,896.63	5,756.70	95.65	28.94	-178.59	416.46	1,000.34	3,255.16	3,202.07	53.09	61.317		
7,500.00	5,840.56	5,964.72	5,824.79	97.20	29.10	-178.61	416.67	1,000.14	3,324.54	3,270.83	53.71	61.900		
7,600.00	5,912.68	6,031.62	5,891.69	98.74	29.26	-178.63	416.78	999.89	3,394.02	3,339.70	54.32	62.487		
7,700.00	5,984.81	6,098.29	5,958.35	100.29	29.41	-178.65	416.96	999.51	3,463.61	3,408.69	54.92	63.065		
7,800.00	6,056.93	6,166.18	6,026.24	101.84	29.57	-178.67	417.17	999.01	3,533.29	3,477.75	55.54	63.615		
7,900.00	6,129.06	6,237.32	6,097.38	103.38	29.74	-178.69	417.34	998.46	3,603.02	3,546.82	56.20	64.113		
8,000.00	6,201.18	6,302.49	6,162.55	104.93	29.89	-178.70	417.37	997.97	3,672.78	3,615.99	56.79	64.673		
8,100.00	6,273.31	6,362.67	6,222.73	106.48	30.03	-178.72	417.40	997.33	3,742.75	3,685.42	57.33	65.286		
8,200.00	6,345.43	6,425.41	6,285.45	108.02	30.18	-178.73	417.53	996.46	3,812.91	3,755.01	57.90	65.857		
8,300.00	6,417.56	6,490.42	6,350.46	109.57	30.33	-178.74	417.77	995.38	3,883.21	3,824.72	58.49	66.390		
8,400.00	6,489.68	6,557.02	6,417.05	111.12	30.48	-178.75	417.90	994.23	3,953.59	3,894.49	59.10	66.893		
8,500.00	6,561.81	6,619.63	6,479.65	112.66	30.63	-178.77	417.76	993.13	4,024.10	3,964.42	59.67	67.435		
8,600.00	6,633.93	6,707.86	6,567.86	114.21	30.84	-178.79	417.27	991.69	4,094.60	4,034.08	60.52	67.656		
8,700.00	6,706.06	6,858.38	6,718.38	115.76	31.22	-178.82	417.63	990.78	4,164.25	4,102.21	62.04	67.121		
8,800.00	6,778.18	6,964.08	6,824.07	117.30	31.51	-178.84	418.33	991.64	4,232.76	4,169.67	63.09	67.088		
8,900.00	6,850.31	7,041.20	6,901.18	118.85	31.73	-178.86	418.80	992.58	4,301.05	4,237.20	63.84	67.369		
9,000.00	6,922.43	7,111.99	6,971.97	120.40	31.93	-178.87	419.34	993.39	4,369.33	4,304.81	64.53	67.713		
9,100.00	6,994.56	7,213.98	7,073.95	121.95	32.23	-178.89	420.21	994.87	4,437.40	4,371.86	65.54	67.705		
9,200.00	7,066.68	7,283.74	7,143.69	123.49	32.44	-178.90	420.83	996.05	4,505.28	4,439.07	66.22	68.039		
9,300.00	7,138.81	7,342.49	7,202.43	125.04	32.61	-178.91	421.48	996.92	4,573.27	4,506.49	66.78	68.488		
9,392.50	7,205.52	7,391.00	7,250.93	126.47	32.75	-178.91	422.25	997.38	4,636.40	4,569.17	67.23	68.962		
9,400.00	7,210.94	7,391.00	7,250.93	126.59	32.75	179.65	422.25	997.38	4,641.53	4,574.30	67.23	69.043		
9,450.00	7,247.42	7,419.31	7,279.23	127.35	32.83	170.06	422.71	997.53	4,675.25	4,607.76	67.49	69.275		
9,500.00	7,284.35	7,442.35	7,302.28	128.10	32.89	160.61	423.01	997.60	4,708.06	4,640.37	67.69	69.556		
9,550.00	7,321.43	7,465.36	7,325.28	128.83	32.95	151.45	423.25	997.62	4,739.73	4,671.85	67.88	69.827		
9,600.00	7,358.38	7,489.83	7,349.76	129.52	33.02	142.76	423.43	997.58	4,770.03	4,701.96	68.08	70.069		
9,650.00	7,394.93	7,521.22	7,381.14	130.16	33.11	134.69	423.63	997.49	4,798.74	4,730.40	68.34	70.223		
9,700.00	7,430.79	7,551.95	7,411.87	130.76	33.19	127.30	423.80	997.38	4,825.64	4,757.06	68.58	70.364		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,581.52	7,441.45	131.30	33.27	120.63	423.96	997.24	4,850.59	4,781.78	68.81	70.495		
9,800.00	7,499.38	7,608.13	7,468.05	131.78	33.34	114.69	424.10	997.09	4,873.45	4,804.45	69.00	70.633		
9,850.00	7,531.58	7,633.46	7,493.38	132.21	33.41	109.47	424.24	996.90	4,894.11	4,824.94	69.17	70.756		
9,900.00	7,562.06	7,657.33	7,517.25	132.57	33.47	104.95	424.38	996.69	4,912.47	4,843.14	69.32	70.862		
9,950.00	7,590.58	7,682.36	7,542.27	132.87	33.54	101.10	424.53	996.43	4,928.43	4,858.94	69.49	70.918		
10,000.00	7,616.93	7,710.46	7,570.38	133.11	33.61	97.91	424.69	996.16	4,941.91	4,872.20	69.70	70.899		
10,050.00	7,640.90	7,736.10	7,596.01	133.29	33.68	95.27	424.81	995.92	4,952.84	4,882.94	69.90	70.860		
10,100.00	7,662.32	7,759.06	7,618.97	133.42	33.74	93.14	424.90	995.72	4,961.19	4,891.12	70.08	70.798		
10,150.00	7,681.01	7,779.16	7,639.07	133.50	33.79	91.48	424.96	995.56	4,966.96	4,896.72	70.24	70.709		
10,200.00	7,696.85	7,795.56	7,655.48	133.52	33.83	90.25	425.01	995.44	4,970.14	4,899.74	70.40	70.599		
10,250.00	7,709.70	7,809.09	7,669.00	133.51	33.87	89.43	425.05	995.33	4,970.74	4,900.19	70.55	70.453		
10,300.00	7,719.47	7,819.35	7,679.26	133.46	33.90	89.01	425.08	995.26	4,968.78	4,898.08	70.71	70.273		
10,350.00	7,726.09	7,826.25	7,686.16	133.37	33.92	88.96	425.10	995.21	4,964.30	4,893.44	70.86	70.054		
10,400.00	7,729.50	7,829.75	7,689.66	133.26	33.93	89.28	425.11	995.19	4,957.33	4,886.30	71.03	69.796		
10,427.79	7,730.00	7,830.21	7,690.12	133.18	33.93	89.62	425.11	995.18	4,952.40	4,881.28	71.12	69.635		
10,500.00	7,730.00	7,830.01	7,689.92	132.98	33.93	89.62	425.11	995.18	4,939.12	4,867.73	71.39	69.187		
10,600.00	7,730.00	7,829.73	7,689.64	132.72	33.93	89.62	425.11	995.19	4,922.43	4,850.60	71.83	68.528		
10,700.00	7,730.00	7,829.45	7,689.36	132.47	33.92	89.62	425.11	995.19	4,907.72	4,835.36	72.35	67.830		
10,800.00	7,730.00	7,829.17	7,689.08	132.22	33.92	89.61	425.11	995.19	4,895.00	4,822.05	72.95	67.097		
10,900.00	7,730.00	7,828.89	7,688.80	131.99	33.92	89.61	425.10	995.19	4,884.30	4,810.67	73.63	66.335		
11,000.00	7,730.00	7,828.61	7,688.52	131.77	33.92	89.61	425.10	995.19	4,875.63	4,801.25	74.38	65.552		
11,100.00	7,730.00	7,828.33	7,688.24	131.56	33.92	89.60	425.10	995.20	4,869.00	4,793.80	75.19	64.753		
11,200.00	7,730.00	7,828.05	7,687.96	131.36	33.92	89.60	425.10	995.20	4,864.41	4,788.34	76.07	63.946		
11,300.00	7,730.00	7,827.76	7,687.67	131.17	33.92	89.60	425.10	995.20	4,861.88	4,784.87	77.01	63.136		
11,373.17	7,730.00	7,827.56	7,687.47	131.03	33.92	89.59	425.10	995.20	4,861.33	4,783.60	77.73	62.540		
11,400.00	7,730.00	7,827.48	7,687.39	130.99	33.92	89.59	425.10	995.20	4,861.40	4,783.41	78.00	62.329		
11,500.00	7,730.00	7,827.20	7,687.11	130.82	33.92	89.59	425.10	995.20	4,862.98	4,783.95	79.03	61.531		
11,600.00	7,730.00	7,826.91	7,686.82	130.66	33.92	89.59	425.10	995.21	4,866.62	4,786.51	80.11	60.747		
11,700.00	7,730.00	7,826.63	7,686.54	130.51	33.92	89.58	425.10	995.21	4,872.30	4,791.07	81.23	59.981		
11,800.00	7,730.00	7,826.34	7,686.25	130.37	33.92	89.58	425.10	995.21	4,880.03	4,797.65	82.38	59.237		
11,900.00	7,730.00	7,826.05	7,685.96	130.24	33.92	89.58	425.10	995.21	4,889.79	4,806.23	83.56	58.519		
12,000.00	7,730.00	7,825.77	7,685.68	130.13	33.91	89.57	425.10	995.21	4,901.57	4,816.82	84.76	57.829		
12,100.00	7,730.00	7,825.48	7,685.39	130.02	33.91	89.57	425.10	995.22	4,915.36	4,829.38	85.98	57.170		
12,200.00	7,730.00	7,825.19	7,685.10	129.93	33.91	89.57	425.09	995.22	4,931.14	4,843.93	87.21	56.542		
12,300.00	7,730.00	7,824.90	7,684.81	129.85	33.91	89.56	425.09	995.22	4,948.89	4,860.44	88.45	55.949		
12,400.00	7,730.00	7,824.61	7,684.52	129.77	33.91	89.56	425.09	995.22	4,968.59	4,878.89	89.70	55.390		
12,500.00	7,730.00	7,824.32	7,684.23	129.71	33.91	89.55	425.09	995.22	4,990.22	4,899.27	90.95	54.867		
12,600.00	7,730.00	7,824.03	7,683.94	129.66	33.91	89.55	425.09	995.23	5,013.74	4,921.54	92.20	54.379		
12,700.00	7,730.00	7,823.74	7,683.65	129.63	33.91	89.55	425.09	995.23	5,039.15	4,945.70	93.44	53.928		
12,800.00	7,730.00	7,823.44	7,683.35	129.60	33.91	89.54	425.09	995.23	5,066.39	4,971.72	94.68	53.512		
12,900.00	7,730.00	7,823.15	7,683.06	129.59	33.91	89.54	425.09	995.23	5,095.46	4,999.56	95.90	53.131		
13,000.00	7,730.00	7,822.86	7,682.77	129.59	33.91	89.54	425.09	995.23	5,126.31	5,029.20	97.11	52.786		
13,100.00	7,730.00	7,822.56	7,682.47	129.60	33.91	89.53	425.09	995.24	5,158.92	5,060.61	98.31	52.475		
13,200.00	7,730.00	7,822.27	7,682.18	129.63	33.91	89.53	425.09	995.24	5,193.25	5,093.76	99.49	52.198		
13,300.00	7,730.00	7,821.97	7,681.88	129.66	33.90	89.53	425.09	995.24	5,229.26	5,128.61	100.65	51.953		
13,400.00	7,730.00	7,821.67	7,681.58	129.72	33.90	89.52	425.09	995.24	5,266.93	5,165.14	101.79	51.741		
13,500.00	7,730.00	7,821.38	7,681.29	129.78	33.90	89.52	425.08	995.24	5,306.21	5,203.30	102.91	51.560		
13,600.00	7,730.00	7,821.08	7,680.99	129.86	33.90	89.52	425.08	995.25	5,347.08	5,243.07	104.01	51.409		
13,700.00	7,730.00	7,820.78	7,680.69	129.96	33.90	89.51	425.08	995.25	5,389.49	5,284.41	105.08	51.288		
13,800.00	7,730.00	7,820.48	7,680.39	130.07	33.90	89.51	425.08	995.25	5,433.41	5,327.28	106.13	51.195		
13,900.00	7,730.00	7,820.18	7,680.09	130.19	33.90	89.51	425.08	995.25	5,478.81	5,371.65	107.15	51.130		
14,000.00	7,730.00	7,819.88	7,679.79	130.33	33.90	89.50	425.08	995.26	5,525.64	5,417.49	108.15	51.091		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,819.58	7,679.49	130.49	33.90	89.50	425.08	995.26	5,573.87	5,464.75	109.13	51.078		
14,200.00	7,730.00	7,819.27	7,679.19	130.67	33.90	89.50	425.08	995.26	5,623.47	5,513.40	110.07	51.089		
14,300.00	7,730.00	7,818.97	7,678.88	130.86	33.90	89.49	425.08	995.26	5,674.40	5,563.41	110.99	51.124		
14,400.00	7,730.00	7,818.67	7,678.58	131.07	33.90	89.49	425.08	995.26	5,726.62	5,614.73	111.89	51.182		
14,500.00	7,730.00	7,818.36	7,678.27	131.30	33.90	89.48	425.08	995.27	5,780.10	5,667.34	112.76	51.262		
14,600.00	7,730.00	7,818.06	7,677.97	131.55	33.89	89.48	425.08	995.27	5,834.80	5,721.20	113.60	51.364		
14,700.00	7,730.00	7,817.75	7,677.66	131.82	33.89	89.48	425.07	995.27	5,890.69	5,776.28	114.42	51.485		
14,800.00	7,730.00	7,817.45	7,677.36	132.11	33.89	89.47	425.07	995.27	5,947.74	5,832.53	115.21	51.626		
14,900.00	7,730.00	7,817.14	7,677.05	132.42	33.89	89.47	425.07	995.28	6,005.91	5,889.94	115.97	51.787		
15,000.00	7,730.00	7,816.83	7,676.74	132.75	33.89	89.47	425.07	995.28	6,065.17	5,948.46	116.72	51.965		
15,100.00	7,730.00	7,816.52	7,676.43	133.10	33.89	89.46	425.07	995.28	6,125.50	6,008.06	117.44	52.160		
15,200.00	7,730.00	7,816.21	7,676.12	133.48	33.89	89.46	425.07	995.28	6,186.85	6,068.71	118.13	52.373		
15,300.00	7,730.00	7,815.90	7,675.81	133.88	33.89	89.46	425.07	995.28	6,249.19	6,130.39	118.80	52.601		
15,400.00	7,730.00	7,815.59	7,675.50	134.31	33.89	89.45	425.07	995.29	6,312.51	6,193.06	119.45	52.845		
15,500.00	7,730.00	7,815.28	7,675.19	134.76	33.89	89.45	425.07	995.29	6,376.77	6,256.68	120.08	53.103		
15,600.00	7,730.00	7,814.97	7,674.88	135.23	33.89	89.44	425.07	995.29	6,441.93	6,321.24	120.69	53.376		
15,700.00	7,730.00	7,814.65	7,674.57	135.73	33.89	89.44	425.07	995.29	6,507.98	6,386.71	121.27	53.663		
15,800.00	7,730.00	7,814.34	7,674.25	136.26	33.88	89.44	425.07	995.30	6,574.89	6,453.05	121.84	53.963		
15,900.00	7,730.00	7,814.03	7,673.94	136.81	33.88	89.43	425.06	995.30	6,642.63	6,520.25	122.39	54.275		
16,000.00	7,730.00	7,813.71	7,673.62	137.39	33.88	89.43	425.06	995.30	6,711.18	6,588.26	122.92	54.600		
16,100.00	7,730.00	7,813.39	7,673.30	138.00	33.88	89.43	425.06	995.30	6,780.51	6,657.08	123.42	54.937		
16,200.00	7,730.00	7,813.08	7,672.99	138.63	33.88	89.42	425.06	995.31	6,850.60	6,726.68	123.92	55.284		
16,300.00	7,730.00	7,812.76	7,672.67	139.30	33.88	89.42	425.06	995.31	6,921.42	6,797.03	124.39	55.643		
16,400.00	7,730.00	7,812.44	7,672.35	139.99	33.88	89.41	425.06	995.31	6,992.95	6,868.10	124.85	56.012		
16,500.00	7,730.00	7,812.12	7,672.03	140.70	33.88	89.41	425.06	995.31	7,065.18	6,939.89	125.29	56.391		
16,600.00	7,730.00	7,811.80	7,671.71	141.45	33.88	89.41	425.06	995.31	7,138.07	7,012.36	125.72	56.780		
16,700.00	7,730.00	7,811.48	7,671.39	142.22	33.88	89.40	425.06	995.32	7,211.62	7,085.49	126.13	57.178		
16,800.00	7,730.00	7,811.16	7,671.07	143.03	33.88	89.40	425.06	995.32	7,285.79	7,159.27	126.52	57.585		
16,900.00	7,730.00	7,810.84	7,670.75	143.86	33.88	89.40	425.06	995.32	7,360.58	7,233.68	126.91	58.000		
17,000.00	7,730.00	7,810.51	7,670.43	144.71	33.87	89.39	425.05	995.32	7,435.96	7,308.69	127.28	58.424		
17,100.00	7,730.00	7,810.19	7,670.10	145.60	33.87	89.39	425.05	995.33	7,511.92	7,384.28	127.63	58.856		
17,200.00	7,730.00	7,809.87	7,669.78	146.51	33.87	89.38	425.05	995.33	7,588.43	7,460.45	127.98	59.296		
17,300.00	7,730.00	7,809.54	7,669.45	147.44	33.87	89.38	425.05	995.33	7,665.48	7,537.17	128.31	59.743		
17,400.00	7,730.00	7,809.21	7,669.12	148.40	33.87	89.38	425.05	995.33	7,743.06	7,614.43	128.63	60.197		
17,500.00	7,730.00	7,808.89	7,668.80	149.39	33.87	89.37	425.05	995.34	7,821.14	7,692.21	128.94	60.659		
17,600.00	7,730.00	7,808.56	7,668.47	150.40	33.87	89.37	425.05	995.34	7,899.73	7,770.49	129.24	61.126		
17,700.00	7,730.00	7,808.23	7,668.14	151.44	33.87	89.37	425.05	995.34	7,978.79	7,849.26	129.52	61.601		
17,800.00	7,730.00	7,807.90	7,667.81	152.50	33.87	89.36	425.05	995.34	8,058.31	7,928.51	129.80	62.081		
17,900.00	7,730.00	7,807.57	7,667.48	153.58	33.87	89.36	425.05	995.35	8,138.29	8,008.22	130.07	62.568		
18,000.00	7,730.00	7,807.24	7,667.15	154.68	33.87	89.35	425.05	995.35	8,218.70	8,088.37	130.33	63.060		
18,100.00	7,730.00	7,806.91	7,666.82	155.80	33.86	89.35	425.04	995.35	8,299.54	8,168.96	130.58	63.558		
18,200.00	7,730.00	7,806.57	7,666.49	156.95	33.86	89.35	425.04	995.35	8,380.80	8,249.98	130.82	64.062		
18,300.00	7,730.00	7,806.24	7,666.15	158.11	33.86	89.34	425.04	995.36	8,462.46	8,331.40	131.06	64.570		
18,400.00	7,730.00	7,805.91	7,665.82	159.30	33.86	89.34	425.04	995.36	8,544.50	8,413.22	131.28	65.084		
18,500.00	7,730.00	7,805.57	7,665.48	160.50	33.86	89.33	425.04	995.36	8,626.93	8,495.42	131.50	65.602		
18,600.00	7,730.00	7,805.24	7,665.15	161.72	33.86	89.33	425.04	995.36	8,709.72	8,578.00	131.72	66.125		
18,700.00	7,730.00	7,804.90	7,664.81	162.96	33.86	89.33	425.04	995.37	8,792.87	8,660.95	131.92	66.653		
18,800.00	7,730.00	7,804.56	7,664.47	164.21	33.86	89.32	425.04	995.37	8,876.37	8,744.25	132.12	67.185		
18,900.00	7,730.00	7,804.22	7,664.13	165.48	33.86	89.32	425.04	995.37	8,960.21	8,827.90	132.31	67.721		
19,000.00	7,730.00	7,803.88	7,663.80	166.76	33.86	89.31	425.04	995.37	9,044.37	8,911.88	132.50	68.262		
19,100.00	7,730.00	7,803.54	7,663.46	168.06	33.86	89.31	425.03	995.38	9,128.85	8,996.18	132.67	68.806		
19,200.00	7,730.00	7,803.20	7,663.11	169.38	33.86	89.31	425.03	995.38	9,213.65	9,080.80	132.85	69.354		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,802.86	7,662.77	170.70	33.85	89.30	425.03	995.38	9,298.75	9,165.73	133.02	69.906	
19,400.00	7,730.00	7,802.52	7,662.43	172.04	33.85	89.30	425.03	995.38	9,384.14	9,250.96	133.18	70.462	
19,500.00	7,730.00	7,802.17	7,662.09	173.40	33.85	89.29	425.03	995.39	9,469.82	9,336.48	133.34	71.021	
19,600.00	7,730.00	7,801.83	7,661.74	174.76	33.85	89.29	425.03	995.39	9,555.77	9,422.28	133.49	71.583	
19,700.00	7,730.00	7,801.49	7,661.40	176.14	33.85	89.29	425.03	995.39	9,642.00	9,508.36	133.64	72.149	
19,800.00	7,730.00	7,801.14	7,661.05	177.52	33.85	89.28	425.03	995.39	9,728.49	9,594.70	133.78	72.718	
19,900.00	7,730.00	7,800.79	7,660.70	178.92	33.85	89.28	425.03	995.40	9,815.23	9,681.31	133.92	73.289	
20,000.00	7,730.00	7,800.44	7,660.36	180.33	33.85	89.27	425.03	995.40	9,902.23	9,768.17	134.06	73.864	
20,100.00	7,730.00	7,800.10	7,660.01	181.75	33.85	89.27	425.02	995.40	9,989.47	9,855.28	134.19	74.442	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,353.00	7,799.48	0.00	138.96	67.96	1,835.52	4,533.77	9,325.21					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	67.96	1,835.52	4,533.77	9,240.22	9,152.39	87.82	105.216		
200.00	199.98	15,353.00	7,799.48	0.49	138.96	-2.64	1,835.52	4,533.77	9,154.61	9,066.38	88.24	103.750		
300.00	299.84	15,353.00	7,799.48	0.86	138.96	-2.81	1,835.52	4,533.77	9,067.53	8,978.85	88.68	102.253		
400.00	399.45	15,353.00	7,799.48	1.23	138.96	-3.00	1,835.52	4,533.77	8,979.03	8,889.92	89.12	100.758		
500.00	498.70	15,353.00	7,799.48	1.63	138.96	-3.23	1,835.52	4,533.77	8,889.19	8,799.64	89.55	99.269		
600.00	597.47	15,353.00	7,799.48	2.05	138.96	-3.49	1,835.52	4,533.77	8,798.06	8,708.09	89.97	97.790		
700.00	695.62	15,353.00	7,799.48	2.51	138.96	-3.79	1,835.52	4,533.77	8,705.73	8,615.35	90.38	96.327		
800.00	793.06	15,353.00	7,799.48	3.00	138.96	-4.16	1,835.52	4,533.77	8,612.26	8,521.49	90.77	94.881		
900.00	889.64	15,353.00	7,799.48	3.53	138.96	-4.60	1,835.52	4,533.77	8,517.75	8,426.61	91.14	93.455		
1,000.00	985.27	15,353.00	7,799.48	4.12	138.96	-5.14	1,835.52	4,533.77	8,422.26	8,330.77	91.49	92.052		
1,100.00	1,079.82	15,353.00	7,799.48	4.75	138.96	-5.83	1,835.52	4,533.77	8,325.89	8,234.07	91.82	90.674		
1,200.00	1,173.17	15,353.00	7,799.48	5.44	138.96	-6.73	1,835.52	4,533.77	8,228.72	8,136.60	92.12	89.322		
1,300.00	1,265.21	15,353.00	7,799.48	6.18	138.96	-7.96	1,835.52	4,533.77	8,130.85	8,038.45	92.40	87.999		
1,400.00	1,355.84	15,353.00	7,799.48	6.99	138.96	-9.70	1,835.52	4,533.77	8,032.37	7,939.73	92.64	86.706		
1,500.00	1,444.94	15,353.00	7,799.48	7.87	138.96	-12.38	1,835.52	4,533.77	7,933.37	7,840.53	92.85	85.444		
1,600.00	1,532.39	15,353.00	7,799.48	8.80	138.96	-17.01	1,835.52	4,533.77	7,833.97	7,740.95	93.02	84.216		
1,700.00	1,618.11	15,353.00	7,799.48	9.81	138.96	-26.60	1,835.52	4,533.77	7,734.28	7,641.12	93.16	83.021		
1,800.00	1,701.97	15,353.00	7,799.48	10.89	138.96	-53.56	1,835.52	4,533.77	7,634.39	7,541.13	93.26	81.862		
1,900.00	1,783.88	15,353.00	7,799.48	12.04	138.96	-116.79	1,835.52	4,533.77	7,534.44	7,441.12	93.32	80.739		
2,000.00	1,863.74	15,353.00	7,799.48	13.26	138.96	-149.99	1,835.52	4,533.77	7,434.53	7,341.20	93.34	79.654		
2,100.00	1,941.45	15,353.00	7,799.48	14.55	138.96	-161.21	1,835.52	4,533.77	7,334.81	7,241.49	93.31	78.606		
2,200.00	2,016.92	15,353.00	7,799.48	15.92	138.96	-166.38	1,835.52	4,533.77	7,235.39	7,142.15	93.24	77.597		
2,292.11	2,084.36	15,353.00	7,799.48	17.25	138.96	-169.12	1,835.52	4,533.77	7,144.21	7,051.07	93.14	76.701		
2,300.00	2,090.06	15,353.00	7,799.48	17.36	138.96	-169.12	1,835.52	4,533.77	7,136.42	7,043.29	93.13	76.628		
2,400.00	2,162.18	15,353.00	7,799.48	18.84	138.96	-169.12	1,835.52	4,533.77	7,037.69	6,944.68	93.01	75.665		
2,500.00	2,234.31	15,353.00	7,799.48	20.33	138.96	-169.12	1,835.52	4,533.77	6,939.00	6,846.11	92.89	74.699		
2,600.00	2,306.43	15,353.00	7,799.48	21.83	138.96	-169.12	1,835.52	4,533.77	6,840.35	6,747.57	92.78	73.729		
2,700.00	2,378.56	15,353.00	7,799.48	23.33	138.96	-169.12	1,835.52	4,533.77	6,741.74	6,649.07	92.66	72.755		
2,800.00	2,450.68	15,353.00	7,799.48	24.84	138.96	-169.12	1,835.52	4,533.77	6,643.17	6,550.62	92.55	71.779		
2,900.00	2,522.81	15,353.00	7,799.48	26.36	138.96	-169.12	1,835.52	4,533.77	6,544.64	6,452.20	92.44	70.798		
3,000.00	2,594.93	15,353.00	7,799.48	27.88	138.96	-169.12	1,835.52	4,533.77	6,446.16	6,353.83	92.33	69.815		
3,100.00	2,667.06	15,353.00	7,799.48	29.40	138.96	-169.12	1,835.52	4,533.77	6,347.72	6,255.50	92.22	68.830		
3,200.00	2,739.18	15,353.00	7,799.48	30.92	138.96	-169.12	1,835.52	4,533.77	6,249.34	6,157.22	92.12	67.841		
3,300.00	2,811.31	15,353.00	7,799.48	32.45	138.96	-169.12	1,835.52	4,533.77	6,151.01	6,058.99	92.01	66.850		
3,400.00	2,883.43	15,353.00	7,799.48	33.98	138.96	-169.12	1,835.52	4,533.77	6,052.73	5,960.82	91.91	65.857		
3,500.00	2,955.56	15,353.00	7,799.48	35.51	138.96	-169.12	1,835.52	4,533.77	5,954.51	5,862.70	91.80	64.862		
3,600.00	3,027.68	15,353.00	7,799.48	37.04	138.96	-169.12	1,835.52	4,533.77	5,856.35	5,764.65	91.70	63.865		
3,700.00	3,099.81	15,353.00	7,799.48	38.57	138.96	-169.12	1,835.52	4,533.77	5,758.25	5,666.65	91.59	62.867		
3,800.00	3,171.93	15,353.00	7,799.48	40.11	138.96	-169.12	1,835.52	4,533.77	5,660.22	5,568.73	91.49	61.867		
3,900.00	3,244.06	15,353.00	7,799.48	41.64	138.96	-169.12	1,835.52	4,533.77	5,562.26	5,470.87	91.38	60.866		
4,000.00	3,316.18	15,353.00	7,799.48	43.18	138.96	-169.12	1,835.52	4,533.77	5,464.37	5,373.09	91.28	59.865		
4,100.00	3,388.31	15,353.00	7,799.48	44.71	138.96	-169.12	1,835.52	4,533.77	5,366.56	5,275.39	91.17	58.862		
4,200.00	3,460.43	15,353.00	7,799.48	46.25	138.96	-169.12	1,835.52	4,533.77	5,268.84	5,177.77	91.06	57.859		
4,300.00	3,532.56	15,353.00	7,799.48	47.79	138.96	-169.12	1,835.52	4,533.77	5,171.20	5,080.24	90.95	56.855		
4,400.00	3,604.68	15,353.00	7,799.48	49.33	138.96	-169.12	1,835.52	4,533.77	5,073.65	4,982.81	90.84	55.851		
4,500.00	3,676.81	15,353.00	7,799.48	50.87	138.96	-169.12	1,835.52	4,533.77	4,976.20	4,885.47	90.73	54.847		
4,600.00	3,748.93	15,353.00	7,799.48	52.41	138.96	-169.12	1,835.52	4,533.77	4,878.85	4,788.24	90.61	53.843		
4,700.00	3,821.06	15,353.00	7,799.48	53.95	138.96	-169.12	1,835.52	4,533.77	4,781.62	4,691.12	90.49	52.839		
4,800.00	3,893.18	15,353.00	7,799.48	55.49	138.96	-169.12	1,835.52	4,533.77	4,684.49	4,594.12	90.37	51.835		
4,900.00	3,965.31	15,353.00	7,799.48	57.03	138.96	-169.12	1,835.52	4,533.77	4,587.50	4,497.25	90.25	50.832		
5,000.00	4,037.43	15,353.00	7,799.48	58.58	138.96	-169.12	1,835.52	4,533.77	4,490.63	4,400.51	90.12	49.829		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	15,353.00	7,799.48	60.12	138.96	-169.12	1,835.52	4,533.77	4,393.91	4,303.92	89.99	48.827		
5,200.00	4,181.68	15,353.00	7,799.48	61.66	138.96	-169.12	1,835.52	4,533.77	4,297.33	4,207.48	89.85	47.826		
5,300.00	4,253.81	15,353.00	7,799.48	63.20	138.96	-169.12	1,835.52	4,533.77	4,200.92	4,111.20	89.71	46.825		
5,400.00	4,325.93	15,353.00	7,799.48	64.75	138.96	-169.12	1,835.52	4,533.77	4,104.67	4,015.10	89.57	45.826		
5,500.00	4,398.06	15,353.00	7,799.48	66.29	138.96	-169.12	1,835.52	4,533.77	4,008.61	3,919.19	89.42	44.827		
5,600.00	4,470.18	15,353.00	7,799.48	67.84	138.96	-169.12	1,835.52	4,533.77	3,912.75	3,823.48	89.27	43.829		
5,700.00	4,542.31	15,353.00	7,799.48	69.38	138.96	-169.12	1,835.52	4,533.77	3,817.10	3,727.99	89.12	42.833		
5,800.00	4,614.43	15,353.00	7,799.48	70.92	138.96	-169.12	1,835.52	4,533.77	3,721.68	3,632.72	88.96	41.837		
5,900.00	4,686.56	15,353.00	7,799.48	72.47	138.96	-169.12	1,835.52	4,533.77	3,626.51	3,537.71	88.79	40.843		
6,000.00	4,758.68	15,353.00	7,799.48	74.01	138.96	-169.12	1,835.52	4,533.77	3,531.60	3,442.98	88.62	39.849		
6,100.00	4,830.81	15,353.00	7,799.48	75.56	138.96	-169.12	1,835.52	4,533.77	3,436.98	3,348.53	88.45	38.857		
6,200.00	4,902.93	15,353.00	7,799.48	77.10	138.96	-169.12	1,835.52	4,533.77	3,342.67	3,254.40	88.28	37.865		
6,300.00	4,975.06	15,353.00	7,799.48	78.65	138.96	-169.12	1,835.52	4,533.77	3,248.71	3,160.61	88.10	36.875		
6,400.00	5,047.18	15,353.00	7,799.48	80.19	138.96	-169.12	1,835.52	4,533.77	3,155.12	3,067.19	87.92	35.884		
6,500.00	5,119.31	15,353.00	7,799.48	81.74	138.96	-169.12	1,835.52	4,533.77	3,061.93	2,974.18	87.75	34.894		
6,600.00	5,191.43	15,353.00	7,799.48	83.28	138.96	-169.12	1,835.52	4,533.77	2,969.18	2,881.61	87.58	33.904		
6,700.00	5,263.56	15,353.00	7,799.48	84.83	138.96	-169.12	1,835.52	4,533.77	2,876.92	2,789.51	87.41	32.914		
6,800.00	5,335.68	15,353.00	7,799.48	86.37	138.96	-169.12	1,835.52	4,533.77	2,785.20	2,697.95	87.25	31.922		
6,900.00	5,407.81	15,353.00	7,799.48	87.92	138.96	-169.12	1,835.52	4,533.77	2,694.06	2,606.95	87.11	30.928		
7,000.00	5,479.93	15,353.00	7,799.48	89.47	138.96	-169.12	1,835.52	4,533.77	2,603.58	2,516.59	86.98	29.932		
7,100.00	5,552.06	15,353.00	7,799.48	91.01	138.96	-169.12	1,835.52	4,533.77	2,513.81	2,426.92	86.89	28.932		
7,200.00	5,624.18	15,353.00	7,799.48	92.56	138.96	-169.12	1,835.52	4,533.77	2,424.85	2,338.02	86.83	27.926		
7,300.00	5,696.31	15,353.00	7,799.48	94.10	138.96	-169.12	1,835.52	4,533.77	2,336.78	2,249.95	86.83	26.913		
7,400.00	5,768.43	15,353.00	7,799.48	95.65	138.96	-169.12	1,835.52	4,533.77	2,249.71	2,162.81	86.89	25.890		
7,500.00	5,840.56	15,353.00	7,799.48	97.20	138.96	-169.12	1,835.52	4,533.77	2,163.75	2,076.70	87.05	24.856		
7,600.00	5,912.68	15,353.00	7,799.48	98.74	138.96	-169.12	1,835.52	4,533.77	2,079.05	1,991.72	87.33	23.807		
7,700.00	5,984.81	15,353.00	7,799.48	100.29	138.96	-169.12	1,835.52	4,533.77	1,995.77	1,908.00	87.77	22.739		
7,800.00	6,056.93	15,353.00	7,799.48	101.84	138.96	-169.12	1,835.52	4,533.77	1,914.09	1,825.68	88.41	21.650		
7,900.00	6,129.06	15,353.00	7,799.48	103.38	138.96	-169.12	1,835.52	4,533.77	1,834.23	1,744.91	89.32	20.536		
8,000.00	6,201.18	15,353.00	7,799.48	104.93	138.96	-169.12	1,835.52	4,533.77	1,756.42	1,665.86	90.56	19.395		
8,100.00	6,273.31	15,353.00	7,799.48	106.48	138.96	-169.12	1,835.52	4,533.77	1,680.97	1,588.75	92.23	18.227		
8,200.00	6,345.43	15,353.00	7,799.48	108.02	138.96	-169.12	1,835.52	4,533.77	1,608.20	1,513.80	94.41	17.035		
8,300.00	6,417.56	15,353.00	7,799.48	109.57	138.96	-169.12	1,835.52	4,533.77	1,538.49	1,441.29	97.21	15.827		
8,400.00	6,489.68	15,353.00	7,799.48	111.12	138.96	-169.12	1,835.52	4,533.77	1,472.28	1,371.55	100.72	14.617		
8,500.00	6,561.81	15,353.00	7,799.48	112.66	138.96	-169.12	1,835.52	4,533.77	1,410.05	1,305.00	105.05	13.423		
8,600.00	6,633.93	15,353.00	7,799.48	114.21	138.96	-169.12	1,835.52	4,533.77	1,352.36	1,242.14	110.22	12.269		
8,700.00	6,706.06	15,353.00	7,799.48	115.76	138.96	-169.12	1,835.52	4,533.77	1,299.82	1,183.56	116.26	11.180		
8,800.00	6,778.18	15,353.00	7,799.48	117.30	138.96	-169.12	1,835.52	4,533.77	1,253.06	1,129.98	123.08	10.181		
8,900.00	6,850.31	15,353.00	7,799.48	118.85	138.96	-169.12	1,835.52	4,533.77	1,212.77	1,082.20	130.57	9.289		
9,000.00	6,922.43	15,353.00	7,799.48	120.40	138.96	-169.12	1,835.52	4,533.77	1,179.60	1,041.10	138.49	8.517		
9,100.00	6,994.56	15,353.00	7,799.48	121.95	138.96	-169.12	1,835.52	4,533.77	1,154.16	1,007.57	146.59	7.873		
9,200.00	7,066.68	15,340.44	7,799.59	123.49	138.74	-168.50	1,848.08	4,533.56	1,136.91	982.06	154.85	7.342		
9,300.00	7,138.81	15,317.70	7,799.80	125.04	138.34	-167.37	1,870.81	4,533.18	1,127.88	964.88	163.01	6.919		
9,357.55	7,180.31	15,305.69	7,799.91	125.93	138.13	-166.78	1,882.82	4,532.99	1,126.48	959.06	167.41	6.729 CC		
9,392.50	7,205.52	15,296.43	7,799.99	126.47	137.97	-166.32	1,892.08	4,532.83	1,126.98	956.96	170.03	6.628		
9,400.00	7,210.94	15,294.48	7,800.01	126.59	137.94	-167.00	1,894.03	4,532.80	1,127.23	956.65	170.58	6.608		
9,450.00	7,247.42	15,284.24	7,800.11	127.35	137.76	-172.01	1,904.27	4,532.65	1,130.02	955.87	174.16	6.489 ES		
9,500.00	7,284.35	15,278.96	7,800.16	128.10	137.67	-177.68	1,909.54	4,532.58	1,134.93	957.39	177.54	6.393		
9,550.00	7,321.43	15,278.86	7,800.16	128.83	137.67	176.10	1,909.65	4,532.58	1,141.93	961.28	180.66	6.321		
9,600.00	7,358.38	15,284.10	7,800.11	129.52	137.76	169.45	1,904.41	4,532.65	1,150.95	967.48	183.47	6.273		
9,650.00	7,394.93	15,294.82	7,800.01	130.16	137.94	162.54	1,893.68	4,532.80	1,161.80	975.86	185.94	6.248		
9,700.00	7,430.79	15,311.13	7,799.86	130.76	138.23	155.51	1,877.38	4,533.09	1,174.25	986.19	188.06	6.244 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	15,325.64	7,799.73	131.30	138.48	148.84	1,862.88	4,533.31	1,188.04	997.93	190.11	6.249		
9,800.00	7,499.38	15,346.84	7,799.53	131.78	138.85	142.23	1,841.68	4,533.67	1,202.82	1,011.05	191.77	6.272		
9,850.00	7,531.58	15,353.00	7,799.48	132.21	138.96	136.66	1,835.52	4,533.77	1,218.40	1,024.52	193.88	6.284		
9,900.00	7,562.06	15,353.00	7,799.48	132.57	138.96	131.71	1,835.52	4,533.77	1,234.89	1,038.76	196.13	6.296		
9,950.00	7,590.58	15,353.00	7,799.48	132.87	138.96	127.10	1,835.52	4,533.77	1,252.15	1,053.87	198.28	6.315		
10,000.00	7,616.93	15,353.00	7,799.48	133.11	138.96	122.83	1,835.52	4,533.77	1,270.01	1,069.68	200.33	6.340		
10,050.00	7,640.90	15,353.00	7,799.48	133.29	138.96	118.88	1,835.52	4,533.77	1,288.31	1,086.03	202.28	6.369		
10,100.00	7,662.32	15,353.00	7,799.48	133.42	138.96	115.24	1,835.52	4,533.77	1,306.91	1,102.77	204.14	6.402		
10,150.00	7,681.01	15,353.00	7,799.48	133.50	138.96	111.92	1,835.52	4,533.77	1,325.65	1,119.77	205.89	6.439		
10,200.00	7,696.85	15,353.00	7,799.48	133.52	138.96	108.90	1,835.52	4,533.77	1,344.39	1,136.87	207.52	6.478		
10,250.00	7,709.70	15,353.00	7,799.48	133.51	138.96	106.19	1,835.52	4,533.77	1,362.98	1,153.95	209.03	6.520		
10,300.00	7,719.47	15,353.00	7,799.48	133.46	138.96	103.77	1,835.52	4,533.77	1,381.29	1,170.89	210.41	6.565		
10,350.00	7,726.09	15,353.00	7,799.48	133.37	138.96	101.65	1,835.52	4,533.77	1,399.21	1,187.57	211.64	6.611		
10,400.00	7,729.50	15,353.00	7,799.48	133.26	138.96	99.84	1,835.52	4,533.77	1,416.60	1,203.88	212.72	6.659		
10,427.79	7,730.00	15,353.00	7,799.48	133.18	138.96	98.97	1,835.52	4,533.77	1,426.00	1,212.75	213.25	6.687		
10,500.00	7,730.00	15,353.00	7,799.48	132.98	138.96	98.97	1,835.52	4,533.77	1,451.75	1,237.38	214.36	6.772		
10,600.00	7,730.00	15,353.00	7,799.48	132.72	138.96	98.97	1,835.52	4,533.77	1,492.45	1,277.14	215.31	6.932		
10,700.00	7,730.00	15,353.00	7,799.48	132.47	138.96	98.97	1,835.52	4,533.77	1,538.59	1,322.97	215.62	7.136		
10,800.00	7,730.00	15,353.00	7,799.48	132.22	138.96	98.97	1,835.52	4,533.77	1,589.68	1,374.30	215.39	7.381		
10,900.00	7,730.00	15,353.00	7,799.48	131.99	138.96	98.97	1,835.52	4,533.77	1,645.28	1,430.58	214.70	7.663		
11,000.00	7,730.00	15,353.00	7,799.48	131.77	138.96	98.97	1,835.52	4,533.77	1,704.93	1,491.28	213.65	7.980		
11,100.00	7,730.00	15,353.00	7,799.48	131.56	138.96	98.97	1,835.52	4,533.77	1,768.22	1,555.91	212.31	8.328		
11,200.00	7,730.00	15,353.00	7,799.48	131.36	138.96	98.97	1,835.52	4,533.77	1,834.79	1,624.02	210.77	8.705		
11,300.00	7,730.00	15,353.00	7,799.48	131.17	138.96	98.97	1,835.52	4,533.77	1,904.29	1,695.21	209.07	9.108		
11,400.00	7,730.00	15,353.00	7,799.48	130.99	138.96	98.97	1,835.52	4,533.77	1,976.40	1,769.12	207.28	9.535		
11,500.00	7,730.00	15,353.00	7,799.48	130.82	138.96	98.97	1,835.52	4,533.77	2,050.85	1,845.43	205.42	9.984		
11,600.00	7,730.00	15,353.00	7,799.48	130.66	138.96	98.97	1,835.52	4,533.77	2,127.40	1,923.86	203.54	10.452		
11,700.00	7,730.00	15,353.00	7,799.48	130.51	138.96	98.97	1,835.52	4,533.77	2,205.83	2,004.17	201.65	10.939		
11,800.00	7,730.00	15,353.00	7,799.48	130.37	138.96	98.97	1,835.52	4,533.77	2,285.94	2,086.16	199.78	11.442		
11,900.00	7,730.00	15,353.00	7,799.48	130.24	138.96	98.97	1,835.52	4,533.77	2,367.56	2,169.62	197.94	11.961		
12,000.00	7,730.00	15,353.00	7,799.48	130.13	138.96	98.97	1,835.52	4,533.77	2,450.55	2,254.40	196.15	12.493		
12,100.00	7,730.00	15,353.00	7,799.48	130.02	138.96	98.97	1,835.52	4,533.77	2,534.76	2,340.36	194.40	13.039		
12,200.00	7,730.00	15,353.00	7,799.48	129.93	138.96	98.97	1,835.52	4,533.77	2,620.09	2,427.38	192.71	13.596		
12,300.00	7,730.00	15,353.00	7,799.48	129.85	138.96	98.97	1,835.52	4,533.77	2,706.42	2,515.34	191.08	14.164		
12,400.00	7,730.00	15,353.00	7,799.48	129.77	138.96	98.97	1,835.52	4,533.77	2,793.66	2,604.15	189.51	14.741		
12,500.00	7,730.00	15,353.00	7,799.48	129.71	138.96	98.97	1,835.52	4,533.77	2,881.73	2,693.73	188.00	15.328		
12,600.00	7,730.00	15,353.00	7,799.48	129.66	138.96	98.97	1,835.52	4,533.77	2,970.56	2,784.01	186.55	15.924		
12,700.00	7,730.00	15,353.00	7,799.48	129.63	138.96	98.97	1,835.52	4,533.77	3,060.08	2,874.92	185.16	16.527		
12,800.00	7,730.00	15,353.00	7,799.48	129.60	138.96	98.97	1,835.52	4,533.77	3,150.23	2,966.39	183.83	17.137		
12,900.00	7,730.00	15,353.00	7,799.48	129.59	138.96	98.97	1,835.52	4,533.77	3,240.95	3,058.39	182.56	17.753		
13,000.00	7,730.00	15,353.00	7,799.48	129.59	138.96	98.97	1,835.52	4,533.77	3,332.21	3,150.87	181.34	18.376		
13,100.00	7,730.00	15,353.00	7,799.48	129.60	138.96	98.97	1,835.52	4,533.77	3,423.95	3,243.78	180.17	19.004		
13,200.00	7,730.00	15,353.00	7,799.48	129.63	138.96	98.97	1,835.52	4,533.77	3,516.15	3,337.09	179.05	19.637		
13,300.00	7,730.00	15,353.00	7,799.48	129.66	138.96	98.97	1,835.52	4,533.77	3,608.76	3,430.77	177.99	20.275		
13,400.00	7,730.00	15,353.00	7,799.48	129.72	138.96	98.97	1,835.52	4,533.77	3,701.75	3,524.78	176.97	20.918		
13,500.00	7,730.00	15,353.00	7,799.48	129.78	138.96	98.97	1,835.52	4,533.77	3,795.10	3,619.11	175.99	21.564		
13,600.00	7,730.00	15,353.00	7,799.48	129.86	138.96	98.97	1,835.52	4,533.77	3,888.79	3,713.73	175.06	22.214		
13,700.00	7,730.00	15,353.00	7,799.48	129.96	138.96	98.97	1,835.52	4,533.77	3,982.77	3,808.61	174.17	22.868		
13,800.00	7,730.00	15,353.00	7,799.48	130.07	138.96	98.97	1,835.52	4,533.77	4,077.05	3,903.74	173.31	23.524		
13,900.00	7,730.00	15,353.00	7,799.48	130.19	138.96	98.97	1,835.52	4,533.77	4,171.59	3,999.10	172.50	24.184		
14,000.00	7,730.00	15,353.00	7,799.48	130.33	138.96	98.97	1,835.52	4,533.77	4,266.38	4,094.67	171.71	24.846		
14,100.00	7,730.00	15,353.00	7,799.48	130.49	138.96	98.97	1,835.52	4,533.77	4,361.41	4,190.44	170.96	25.511		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,353.00	7,799.48	130.67	138.96	98.97	1,835.52	4,533.77	4,456.65	4,286.40	170.25	26.177		
14,300.00	7,730.00	15,353.00	7,799.48	130.86	138.96	98.97	1,835.52	4,533.77	4,552.09	4,382.53	169.56	26.846		
14,400.00	7,730.00	15,353.00	7,799.48	131.07	138.96	98.97	1,835.52	4,533.77	4,647.73	4,478.83	168.90	27.517		
14,500.00	7,730.00	15,353.00	7,799.48	131.30	138.96	98.97	1,835.52	4,533.77	4,743.55	4,575.28	168.27	28.190		
14,600.00	7,730.00	15,353.00	7,799.48	131.55	138.96	98.97	1,835.52	4,533.77	4,839.53	4,671.87	167.66	28.865		
14,700.00	7,730.00	15,353.00	7,799.48	131.82	138.96	98.97	1,835.52	4,533.77	4,935.68	4,768.59	167.08	29.540		
14,800.00	7,730.00	15,353.00	7,799.48	132.11	138.96	98.97	1,835.52	4,533.77	5,031.97	4,865.45	166.52	30.218		
14,900.00	7,730.00	15,353.00	7,799.48	132.42	138.96	98.97	1,835.52	4,533.77	5,128.41	4,962.42	165.99	30.896		
15,000.00	7,730.00	15,353.00	7,799.48	132.75	138.96	98.97	1,835.52	4,533.77	5,224.98	5,059.51	165.47	31.576		
15,100.00	7,730.00	15,353.00	7,799.48	133.10	138.96	98.97	1,835.52	4,533.77	5,321.68	5,156.70	164.98	32.256		
15,200.00	7,730.00	15,353.00	7,799.48	133.48	138.96	98.97	1,835.52	4,533.77	5,418.50	5,253.99	164.51	32.938		
15,300.00	7,730.00	15,353.00	7,799.48	133.88	138.96	98.97	1,835.52	4,533.77	5,515.43	5,351.38	164.05	33.621		
15,400.00	7,730.00	15,353.00	7,799.48	134.31	138.96	98.97	1,835.52	4,533.77	5,612.47	5,448.86	163.61	34.304		
15,500.00	7,730.00	15,353.00	7,799.48	134.76	138.96	98.97	1,835.52	4,533.77	5,709.61	5,546.42	163.19	34.988		
15,600.00	7,730.00	15,353.00	7,799.48	135.23	138.96	98.97	1,835.52	4,533.77	5,806.85	5,644.07	162.78	35.673		
15,700.00	7,730.00	15,353.00	7,799.48	135.73	138.96	98.97	1,835.52	4,533.77	5,904.18	5,741.79	162.39	36.358		
15,800.00	7,730.00	15,353.00	7,799.48	136.26	138.96	98.97	1,835.52	4,533.77	6,001.60	5,839.58	162.01	37.044		
15,900.00	7,730.00	15,353.00	7,799.48	136.81	138.96	98.97	1,835.52	4,533.77	6,099.10	5,937.45	161.65	37.730		
16,000.00	7,730.00	15,353.00	7,799.48	137.39	138.96	98.97	1,835.52	4,533.77	6,196.68	6,035.38	161.30	38.417		
16,100.00	7,730.00	15,353.00	7,799.48	138.00	138.96	98.97	1,835.52	4,533.77	6,294.34	6,133.37	160.96	39.104		
16,200.00	7,730.00	15,353.00	7,799.48	138.63	138.96	98.97	1,835.52	4,533.77	6,392.07	6,231.43	160.64	39.792		
16,300.00	7,730.00	15,353.00	7,799.48	139.30	138.96	98.97	1,835.52	4,533.77	6,489.87	6,329.54	160.33	40.479		
16,400.00	7,730.00	15,353.00	7,799.48	139.99	138.96	98.97	1,835.52	4,533.77	6,587.73	6,427.71	160.02	41.167		
16,500.00	7,730.00	15,353.00	7,799.48	140.70	138.96	98.97	1,835.52	4,533.77	6,685.66	6,525.93	159.73	41.856		
16,600.00	7,730.00	15,353.00	7,799.48	141.45	138.96	98.97	1,835.52	4,533.77	6,783.65	6,624.20	159.45	42.544		
16,700.00	7,730.00	15,353.00	7,799.48	142.22	138.96	98.97	1,835.52	4,533.77	6,881.70	6,722.52	159.18	43.233		
16,800.00	7,730.00	15,353.00	7,799.48	143.03	138.96	98.97	1,835.52	4,533.77	6,979.80	6,820.88	158.92	43.921		
16,900.00	7,730.00	15,353.00	7,799.48	143.86	138.96	98.97	1,835.52	4,533.77	7,077.95	6,919.29	158.66	44.610		
17,000.00	7,730.00	15,353.00	7,799.48	144.71	138.96	98.97	1,835.52	4,533.77	7,176.16	7,017.74	158.42	45.299		
17,100.00	7,730.00	15,353.00	7,799.48	145.60	138.96	98.97	1,835.52	4,533.77	7,274.41	7,116.23	158.18	45.988		
17,200.00	7,730.00	15,353.00	7,799.48	146.51	138.96	98.97	1,835.52	4,533.77	7,372.72	7,214.76	157.95	46.677		
17,300.00	7,730.00	15,353.00	7,799.48	147.44	138.96	98.97	1,835.52	4,533.77	7,471.06	7,313.33	157.73	47.365		
17,400.00	7,730.00	15,353.00	7,799.48	148.40	138.96	98.97	1,835.52	4,533.77	7,569.45	7,411.93	157.52	48.054		
17,500.00	7,730.00	15,353.00	7,799.48	149.39	138.96	98.97	1,835.52	4,533.77	7,667.88	7,510.57	157.31	48.743		
17,600.00	7,730.00	15,353.00	7,799.48	150.40	138.96	98.97	1,835.52	4,533.77	7,766.36	7,609.24	157.11	49.432		
17,700.00	7,730.00	15,353.00	7,799.48	151.44	138.96	98.97	1,835.52	4,533.77	7,864.87	7,707.95	156.92	50.120		
17,800.00	7,730.00	15,353.00	7,799.48	152.50	138.96	98.97	1,835.52	4,533.77	7,963.42	7,806.68	156.73	50.809		
17,900.00	7,730.00	15,353.00	7,799.48	153.58	138.96	98.97	1,835.52	4,533.77	8,062.00	7,905.45	156.55	51.497		
18,000.00	7,730.00	15,353.00	7,799.48	154.68	138.96	98.97	1,835.52	4,533.77	8,160.62	8,004.24	156.38	52.186		
18,100.00	7,730.00	15,353.00	7,799.48	155.80	138.96	98.97	1,835.52	4,533.77	8,259.27	8,103.06	156.21	52.874		
18,200.00	7,730.00	15,353.00	7,799.48	156.95	138.96	98.97	1,835.52	4,533.77	8,357.95	8,201.91	156.04	53.562		
18,300.00	7,730.00	15,353.00	7,799.48	158.11	138.96	98.97	1,835.52	4,533.77	8,456.67	8,300.78	155.88	54.250		
18,400.00	7,730.00	15,353.00	7,799.48	159.30	138.96	98.97	1,835.52	4,533.77	8,555.41	8,399.68	155.73	54.937		
18,500.00	7,730.00	15,353.00	7,799.48	160.50	138.96	98.97	1,835.52	4,533.77	8,654.18	8,498.60	155.58	55.625		
18,600.00	7,730.00	15,353.00	7,799.48	161.72	138.96	98.97	1,835.52	4,533.77	8,752.98	8,597.55	155.44	56.312		
18,700.00	7,730.00	15,353.00	7,799.48	162.96	138.96	98.97	1,835.52	4,533.77	8,851.81	8,696.51	155.30	56.999		
18,800.00	7,730.00	15,353.00	7,799.48	164.21	138.96	98.97	1,835.52	4,533.77	8,950.66	8,795.50	155.16	57.686		
18,900.00	7,730.00	15,353.00	7,799.48	165.48	138.96	98.97	1,835.52	4,533.77	9,049.54	8,894.51	155.03	58.372		
19,000.00	7,730.00	15,353.00	7,799.48	166.76	138.96	98.97	1,835.52	4,533.77	9,148.45	8,993.54	154.90	59.059		
19,100.00	7,730.00	15,353.00	7,799.48	168.06	138.96	98.97	1,835.52	4,533.77	9,247.37	9,092.59	154.78	59.745		
19,200.00	7,730.00	15,353.00	7,799.48	169.38	138.96	98.97	1,835.52	4,533.77	9,346.32	9,191.66	154.66	60.431		
19,300.00	7,730.00	15,353.00	7,799.48	170.70	138.96	98.97	1,835.52	4,533.77	9,445.30	9,290.75	154.55	61.116		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		16-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	7,730.00	15,353.00	7,799.48	172.04	138.96	98.97	1,835.52	4,533.77	9,544.29	9,389.85	154.43	61.802	
19,500.00	7,730.00	15,353.00	7,799.48	173.40	138.96	98.97	1,835.52	4,533.77	9,643.30	9,488.98	154.33	62.487	
19,600.00	7,730.00	15,353.00	7,799.48	174.76	138.96	98.97	1,835.52	4,533.77	9,742.34	9,588.12	154.22	63.172	
19,700.00	7,730.00	15,353.00	7,799.48	176.14	138.96	98.97	1,835.52	4,533.77	9,841.39	9,687.27	154.12	63.856	
19,800.00	7,730.00	15,353.00	7,799.48	177.52	138.96	98.97	1,835.52	4,533.77	9,940.46	9,786.44	154.02	64.540	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,243.00	7,668.35	0.00	138.66	69.25	1,844.94	4,869.46	9,385.40					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.25	1,844.94	4,869.46	9,302.37	9,211.74	90.63	102.636		
200.00	199.98	15,243.00	7,668.35	0.49	138.66	-1.27	1,844.94	4,869.46	9,218.71	9,127.62	91.09	101.209		
300.00	299.84	15,243.00	7,668.35	0.86	138.66	-1.34	1,844.94	4,869.46	9,133.49	9,041.92	91.57	99.749		
400.00	399.45	15,243.00	7,668.35	1.23	138.66	-1.43	1,844.94	4,869.46	9,046.77	8,954.73	92.04	98.287		
500.00	498.70	15,243.00	7,668.35	1.63	138.66	-1.53	1,844.94	4,869.46	8,958.62	8,866.10	92.52	96.830		
600.00	597.47	15,243.00	7,668.35	2.05	138.66	-1.64	1,844.94	4,869.46	8,869.11	8,776.12	92.99	95.381		
700.00	695.62	15,243.00	7,668.35	2.51	138.66	-1.76	1,844.94	4,869.46	8,778.29	8,684.85	93.44	93.944		
800.00	793.06	15,243.00	7,668.35	3.00	138.66	-1.92	1,844.94	4,869.46	8,686.26	8,592.37	93.88	92.523		
900.00	889.64	15,243.00	7,668.35	3.53	138.66	-2.10	1,844.94	4,869.46	8,593.07	8,498.76	94.31	91.120		
1,000.00	985.27	15,243.00	7,668.35	4.12	138.66	-2.31	1,844.94	4,869.46	8,498.80	8,404.10	94.71	89.737		
1,100.00	1,079.82	15,243.00	7,668.35	4.75	138.66	-2.58	1,844.94	4,869.46	8,403.55	8,308.46	95.09	88.377		
1,200.00	1,173.17	15,243.00	7,668.35	5.44	138.66	-2.92	1,844.94	4,869.46	8,307.38	8,211.94	95.44	87.041		
1,300.00	1,265.21	15,243.00	7,668.35	6.18	138.66	-3.35	1,844.94	4,869.46	8,210.40	8,114.63	95.77	85.731		
1,400.00	1,355.84	15,243.00	7,668.35	6.99	138.66	-3.94	1,844.94	4,869.46	8,112.68	8,016.61	96.07	84.449		
1,500.00	1,444.94	15,243.00	7,668.35	7.87	138.66	-4.76	1,844.94	4,869.46	8,014.33	7,917.99	96.33	83.195		
1,600.00	1,532.39	15,243.00	7,668.35	8.80	138.66	-6.02	1,844.94	4,869.46	7,915.43	7,818.87	96.56	81.971		
1,700.00	1,618.11	15,243.00	7,668.35	9.81	138.66	-8.14	1,844.94	4,869.46	7,816.11	7,719.35	96.76	80.779		
1,800.00	1,701.97	15,243.00	7,668.35	10.89	138.66	-12.46	1,844.94	4,869.46	7,716.45	7,619.53	96.92	79.619		
1,900.00	1,783.88	15,243.00	7,668.35	12.04	138.66	-25.63	1,844.94	4,869.46	7,616.58	7,519.54	97.03	78.493		
2,000.00	1,863.74	15,243.00	7,668.35	13.26	138.66	-108.20	1,844.94	4,869.46	7,516.60	7,419.49	97.11	77.402		
2,100.00	1,941.45	15,243.00	7,668.35	14.55	138.66	-159.74	1,844.94	4,869.46	7,416.64	7,319.50	97.14	76.347		
2,200.00	2,016.92	15,243.00	7,668.35	15.92	138.66	-168.81	1,844.94	4,869.46	7,316.83	7,219.69	97.13	75.328		
2,292.11	2,084.36	15,243.00	7,668.35	17.25	138.66	-172.07	1,844.94	4,869.46	7,225.13	7,128.04	97.08	74.423		
2,300.00	2,090.06	15,243.00	7,668.35	17.36	138.66	-172.07	1,844.94	4,869.46	7,217.28	7,120.21	97.07	74.348		
2,400.00	2,162.18	15,243.00	7,668.35	18.84	138.66	-172.07	1,844.94	4,869.46	7,117.89	7,020.89	97.00	73.377		
2,500.00	2,234.31	15,243.00	7,668.35	20.33	138.66	-172.07	1,844.94	4,869.46	7,018.53	6,921.59	96.94	72.404		
2,600.00	2,306.43	15,243.00	7,668.35	21.83	138.66	-172.07	1,844.94	4,869.46	6,919.18	6,822.31	96.87	71.429		
2,700.00	2,378.56	15,243.00	7,668.35	23.33	138.66	-172.07	1,844.94	4,869.46	6,819.85	6,723.05	96.80	70.452		
2,800.00	2,450.68	15,243.00	7,668.35	24.84	138.66	-172.07	1,844.94	4,869.46	6,720.54	6,623.80	96.74	69.473		
2,900.00	2,522.81	15,243.00	7,668.35	26.36	138.66	-172.07	1,844.94	4,869.46	6,621.25	6,524.57	96.67	68.492		
3,000.00	2,594.93	15,243.00	7,668.35	27.88	138.66	-172.07	1,844.94	4,869.46	6,521.98	6,425.37	96.61	67.510		
3,100.00	2,667.06	15,243.00	7,668.35	29.40	138.66	-172.07	1,844.94	4,869.46	6,422.73	6,326.19	96.54	66.527		
3,200.00	2,739.18	15,243.00	7,668.35	30.92	138.66	-172.07	1,844.94	4,869.46	6,323.51	6,227.03	96.48	65.542		
3,300.00	2,811.31	15,243.00	7,668.35	32.45	138.66	-172.07	1,844.94	4,869.46	6,224.31	6,127.90	96.42	64.555		
3,400.00	2,883.43	15,243.00	7,668.35	33.98	138.66	-172.07	1,844.94	4,869.46	6,125.14	6,028.79	96.36	63.568		
3,500.00	2,955.56	15,243.00	7,668.35	35.51	138.66	-172.07	1,844.94	4,869.46	6,026.00	5,929.71	96.29	62.580		
3,600.00	3,027.68	15,243.00	7,668.35	37.04	138.66	-172.07	1,844.94	4,869.46	5,926.88	5,830.65	96.23	61.591		
3,700.00	3,099.81	15,243.00	7,668.35	38.57	138.66	-172.07	1,844.94	4,869.46	5,827.80	5,731.63	96.17	60.601		
3,800.00	3,171.93	15,243.00	7,668.35	40.11	138.66	-172.07	1,844.94	4,869.46	5,728.75	5,632.65	96.10	59.611		
3,900.00	3,244.06	15,243.00	7,668.35	41.64	138.66	-172.07	1,844.94	4,869.46	5,629.73	5,533.69	96.04	58.621		
4,000.00	3,316.18	15,243.00	7,668.35	43.18	138.66	-172.07	1,844.94	4,869.46	5,530.75	5,434.77	95.97	57.630		
4,100.00	3,388.31	15,243.00	7,668.35	44.71	138.66	-172.07	1,844.94	4,869.46	5,431.80	5,335.90	95.90	56.639		
4,200.00	3,460.43	15,243.00	7,668.35	46.25	138.66	-172.07	1,844.94	4,869.46	5,332.89	5,237.06	95.83	55.648		
4,300.00	3,532.56	15,243.00	7,668.35	47.79	138.66	-172.07	1,844.94	4,869.46	5,234.03	5,138.26	95.76	54.657		
4,400.00	3,604.68	15,243.00	7,668.35	49.33	138.66	-172.07	1,844.94	4,869.46	5,135.20	5,039.52	95.69	53.666		
4,500.00	3,676.81	15,243.00	7,668.35	50.87	138.66	-172.07	1,844.94	4,869.46	5,036.43	4,940.82	95.61	52.676		
4,600.00	3,748.93	15,243.00	7,668.35	52.41	138.66	-172.07	1,844.94	4,869.46	4,937.70	4,842.17	95.53	51.686		
4,700.00	3,821.06	15,243.00	7,668.35	53.95	138.66	-172.07	1,844.94	4,869.46	4,839.03	4,743.58	95.45	50.697		
4,800.00	3,893.18	15,243.00	7,668.35	55.49	138.66	-172.07	1,844.94	4,869.46	4,740.41	4,645.05	95.37	49.708		
4,900.00	3,965.31	15,243.00	7,668.35	57.03	138.66	-172.07	1,844.94	4,869.46	4,641.85	4,546.58	95.28	48.720		
5,000.00	4,037.43	15,243.00	7,668.35	58.58	138.66	-172.07	1,844.94	4,869.46	4,543.36	4,448.17	95.18	47.733		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	15,243.00	7,668.35	60.12	138.66	-172.07	1,844.94	4,869.46	4,444.93	4,349.84	95.09	46.746		
5,200.00	4,181.68	15,243.00	7,668.35	61.66	138.66	-172.07	1,844.94	4,869.46	4,346.57	4,251.59	94.98	45.761		
5,300.00	4,253.81	15,243.00	7,668.35	63.20	138.66	-172.07	1,844.94	4,869.46	4,248.29	4,153.41	94.88	44.777		
5,400.00	4,325.93	15,243.00	7,668.35	64.75	138.66	-172.07	1,844.94	4,869.46	4,150.09	4,055.33	94.76	43.794		
5,500.00	4,398.06	15,243.00	7,668.35	66.29	138.66	-172.07	1,844.94	4,869.46	4,051.98	3,957.34	94.64	42.813		
5,600.00	4,470.18	15,243.00	7,668.35	67.84	138.66	-172.07	1,844.94	4,869.46	3,953.97	3,859.45	94.52	41.833		
5,700.00	4,542.31	15,243.00	7,668.35	69.38	138.66	-172.07	1,844.94	4,869.46	3,856.05	3,761.67	94.39	40.854		
5,800.00	4,614.43	15,243.00	7,668.35	70.92	138.66	-172.07	1,844.94	4,869.46	3,758.25	3,664.00	94.25	39.877		
5,900.00	4,686.56	15,243.00	7,668.35	72.47	138.66	-172.07	1,844.94	4,869.46	3,660.57	3,566.47	94.10	38.901		
6,000.00	4,758.68	15,243.00	7,668.35	74.01	138.66	-172.07	1,844.94	4,869.46	3,563.01	3,469.07	93.94	37.927		
6,100.00	4,830.81	15,243.00	7,668.35	75.56	138.66	-172.07	1,844.94	4,869.46	3,465.59	3,371.81	93.78	36.955		
6,200.00	4,902.93	15,243.00	7,668.35	77.10	138.66	-172.07	1,844.94	4,869.46	3,368.33	3,274.72	93.61	35.984		
6,300.00	4,975.06	15,243.00	7,668.35	78.65	138.66	-172.07	1,844.94	4,869.46	3,271.23	3,177.80	93.42	35.016		
6,400.00	5,047.18	15,243.00	7,668.35	80.19	138.66	-172.07	1,844.94	4,869.46	3,174.31	3,081.08	93.23	34.049		
6,500.00	5,119.31	15,243.00	7,668.35	81.74	138.66	-172.07	1,844.94	4,869.46	3,077.58	2,984.56	93.02	33.084		
6,600.00	5,191.43	15,243.00	7,668.35	83.28	138.66	-172.07	1,844.94	4,869.46	2,981.07	2,888.27	92.81	32.121		
6,700.00	5,263.56	15,243.00	7,668.35	84.83	138.66	-172.07	1,844.94	4,869.46	2,884.80	2,792.23	92.58	31.160		
6,800.00	5,335.68	15,243.00	7,668.35	86.37	138.66	-172.07	1,844.94	4,869.46	2,788.80	2,696.46	92.34	30.202		
6,900.00	5,407.81	15,243.00	7,668.35	87.92	138.66	-172.07	1,844.94	4,869.46	2,693.08	2,600.99	92.09	29.245		
7,000.00	5,479.93	15,243.00	7,668.35	89.47	138.66	-172.07	1,844.94	4,869.46	2,597.69	2,505.86	91.82	28.290		
7,100.00	5,552.06	15,243.00	7,668.35	91.01	138.66	-172.07	1,844.94	4,869.46	2,502.65	2,411.10	91.55	27.337		
7,200.00	5,624.18	15,243.00	7,668.35	92.56	138.66	-172.07	1,844.94	4,869.46	2,408.02	2,316.76	91.26	26.385		
7,300.00	5,696.31	15,243.00	7,668.35	94.10	138.66	-172.07	1,844.94	4,869.46	2,313.84	2,222.87	90.97	25.435		
7,400.00	5,768.43	15,243.00	7,668.35	95.65	138.66	-172.07	1,844.94	4,869.46	2,220.17	2,129.50	90.67	24.486		
7,500.00	5,840.56	15,243.00	7,668.35	97.20	138.66	-172.07	1,844.94	4,869.46	2,127.08	2,036.71	90.37	23.537		
7,600.00	5,912.68	15,243.00	7,668.35	98.74	138.66	-172.07	1,844.94	4,869.46	2,034.64	1,944.56	90.08	22.588		
7,700.00	5,984.81	15,243.00	7,668.35	100.29	138.66	-172.07	1,844.94	4,869.46	1,942.95	1,853.16	89.79	21.638		
7,800.00	6,056.93	15,243.00	7,668.35	101.84	138.66	-172.07	1,844.94	4,869.46	1,852.12	1,762.58	89.54	20.685		
7,900.00	6,129.06	15,243.00	7,668.35	103.38	138.66	-172.07	1,844.94	4,869.46	1,762.28	1,672.95	89.33	19.728		
8,000.00	6,201.18	15,243.00	7,668.35	104.93	138.66	-172.07	1,844.94	4,869.46	1,673.60	1,584.40	89.20	18.763		
8,100.00	6,273.31	15,243.00	7,668.35	106.48	138.66	-172.07	1,844.94	4,869.46	1,586.26	1,497.08	89.18	17.788		
8,200.00	6,345.43	15,243.00	7,668.35	108.02	138.66	-172.07	1,844.94	4,869.46	1,500.51	1,411.17	89.33	16.796		
8,300.00	6,417.56	15,243.00	7,668.35	109.57	138.66	-172.07	1,844.94	4,869.46	1,416.62	1,326.87	89.75	15.784		
8,400.00	6,489.68	15,243.00	7,668.35	111.12	138.66	-172.07	1,844.94	4,869.46	1,334.96	1,244.41	90.55	14.744		
8,500.00	6,561.81	15,243.00	7,668.35	112.66	138.66	-172.07	1,844.94	4,869.46	1,255.95	1,164.07	91.88	13.669		
8,600.00	6,633.93	15,243.00	7,668.35	114.21	138.66	-172.07	1,844.94	4,869.46	1,180.13	1,086.16	93.97	12.558		
8,700.00	6,706.06	15,243.00	7,668.35	115.76	138.66	-172.07	1,844.94	4,869.46	1,108.15	1,011.07	97.08	11.415		
8,800.00	6,778.18	15,243.00	7,668.35	117.30	138.66	-172.07	1,844.94	4,869.46	1,040.81	939.32	101.49	10.255		
8,900.00	6,850.31	15,243.00	7,668.35	118.85	138.66	-172.07	1,844.94	4,869.46	979.07	871.62	107.46	9.111		
9,000.00	6,922.43	15,243.00	7,668.35	120.40	138.66	-172.07	1,844.94	4,869.46	924.06	808.95	115.11	8.028		
9,100.00	6,994.56	15,244.15	7,668.36	121.95	138.68	-172.15	1,843.79	4,869.49	877.02	752.69	124.34	7.054		
9,200.00	7,066.68	15,223.01	7,668.20	123.49	138.31	-170.67	1,864.93	4,869.01	839.09	703.80	135.29	6.202		
9,300.00	7,138.81	15,201.86	7,668.04	125.04	137.94	-169.17	1,886.07	4,868.53	811.22	664.12	147.10	5.515		
9,392.50	7,205.52	15,182.57	7,667.89	126.47	137.61	-167.81	1,905.35	4,868.10	795.32	637.27	158.05	5.032		
9,400.00	7,210.94	15,181.10	7,667.88	126.59	137.58	-168.38	1,906.83	4,868.07	794.47	635.55	158.91	4.999		
9,450.00	7,247.42	15,173.50	7,667.84	127.35	137.45	-172.66	1,914.42	4,867.91	790.44	625.83	164.62	4.802		
9,491.42	7,277.99	15,170.28	7,667.82	127.98	137.39	-176.82	1,917.65	4,867.84	789.39	620.23	169.16	4.667 CC		
9,500.00	7,284.35	15,169.96	7,667.82	128.10	137.39	-177.75	1,917.96	4,867.84	789.43	619.36	170.07	4.642		
9,550.00	7,321.43	15,170.65	7,667.83	128.83	137.40	-176.47	1,917.27	4,867.85	791.51	616.37	175.14	4.519 ES		
9,600.00	7,358.38	15,175.71	7,667.85	129.52	137.49	-170.13	1,912.22	4,867.96	796.63	616.94	179.69	4.433		
9,650.00	7,394.93	15,185.25	7,667.91	130.16	137.65	-163.38	1,902.68	4,868.16	804.61	620.95	183.65	4.381		
9,700.00	7,430.79	15,199.35	7,668.03	130.76	137.90	-156.37	1,888.58	4,868.49	815.15	628.16	186.98	4.359 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	15,217.03	7,668.15	131.30	138.21	149.31	1,870.90	4,868.88	827.87	638.12	189.75	4.363		
9,800.00	7,499.38	15,238.98	7,668.32	131.78	138.59	142.29	1,848.96	4,869.37	842.31	650.37	191.95	4.388		
9,850.00	7,531.58	15,243.00	7,668.35	132.21	138.66	136.70	1,844.94	4,869.46	858.27	663.39	194.88	4.404		
9,900.00	7,562.06	15,243.00	7,668.35	132.57	138.66	131.62	1,844.94	4,869.46	875.88	678.08	197.81	4.428		
9,950.00	7,590.58	15,243.00	7,668.35	132.87	138.66	126.79	1,844.94	4,869.46	894.95	694.44	200.51	4.463		
10,000.00	7,616.93	15,243.00	7,668.35	133.11	138.66	122.23	1,844.94	4,869.46	915.23	712.23	203.00	4.509		
10,050.00	7,640.90	15,243.00	7,668.35	133.29	138.66	117.93	1,844.94	4,869.46	936.50	731.22	205.28	4.562		
10,100.00	7,662.32	15,243.00	7,668.35	133.42	138.66	113.89	1,844.94	4,869.46	958.53	751.19	207.34	4.623		
10,150.00	7,681.01	15,243.00	7,668.35	133.50	138.66	110.13	1,844.94	4,869.46	981.11	771.92	209.19	4.690		
10,200.00	7,696.85	15,243.00	7,668.35	133.52	138.66	106.64	1,844.94	4,869.46	1,004.04	793.23	210.81	4.763		
10,250.00	7,709.70	15,243.00	7,668.35	133.51	138.66	103.44	1,844.94	4,869.46	1,027.13	814.93	212.20	4.840		
10,300.00	7,719.47	15,243.00	7,668.35	133.46	138.66	100.53	1,844.94	4,869.46	1,050.20	836.84	213.36	4.922		
10,350.00	7,726.09	15,243.00	7,668.35	133.37	138.66	97.93	1,844.94	4,869.46	1,073.07	858.80	214.27	5.008		
10,400.00	7,729.50	15,243.00	7,668.35	133.26	138.66	95.65	1,844.94	4,869.46	1,095.59	880.66	214.93	5.097		
10,427.79	7,730.00	15,243.00	7,668.35	133.18	138.66	94.52	1,844.94	4,869.46	1,107.91	892.71	215.19	5.148		
10,500.00	7,730.00	15,243.00	7,668.35	132.98	138.66	94.52	1,844.94	4,869.46	1,141.53	926.04	215.48	5.298		
10,600.00	7,730.00	15,243.00	7,668.35	132.72	138.66	94.52	1,844.94	4,869.46	1,193.75	978.70	215.05	5.551		
10,700.00	7,730.00	15,243.00	7,668.35	132.47	138.66	94.52	1,844.94	4,869.46	1,251.79	1,037.95	213.84	5.854		
10,800.00	7,730.00	15,243.00	7,668.35	132.22	138.66	94.52	1,844.94	4,869.46	1,314.89	1,102.81	212.08	6.200		
10,900.00	7,730.00	15,243.00	7,668.35	131.99	138.66	94.52	1,844.94	4,869.46	1,382.35	1,172.41	209.94	6.585		
11,000.00	7,730.00	15,243.00	7,668.35	131.77	138.66	94.52	1,844.94	4,869.46	1,453.56	1,246.00	207.56	7.003		
11,100.00	7,730.00	15,243.00	7,668.35	131.56	138.66	94.52	1,844.94	4,869.46	1,528.01	1,322.94	205.06	7.451		
11,200.00	7,730.00	15,243.00	7,668.35	131.36	138.66	94.52	1,844.94	4,869.46	1,605.23	1,402.71	202.52	7.926		
11,300.00	7,730.00	15,243.00	7,668.35	131.17	138.66	94.52	1,844.94	4,869.46	1,684.85	1,484.85	199.99	8.425		
11,400.00	7,730.00	15,243.00	7,668.35	130.99	138.66	94.52	1,844.94	4,869.46	1,766.54	1,569.02	197.52	8.944		
11,500.00	7,730.00	15,243.00	7,668.35	130.82	138.66	94.52	1,844.94	4,869.46	1,850.03	1,654.90	195.13	9.481		
11,600.00	7,730.00	15,243.00	7,668.35	130.66	138.66	94.52	1,844.94	4,869.46	1,935.09	1,742.25	192.84	10.035		
11,700.00	7,730.00	15,243.00	7,668.35	130.51	138.66	94.52	1,844.94	4,869.46	2,021.51	1,830.86	190.66	10.603		
11,800.00	7,730.00	15,243.00	7,668.35	130.37	138.66	94.52	1,844.94	4,869.46	2,109.14	1,920.56	188.58	11.184		
11,900.00	7,730.00	15,243.00	7,668.35	130.24	138.66	94.52	1,844.94	4,869.46	2,197.82	2,011.20	186.62	11.777		
12,000.00	7,730.00	15,243.00	7,668.35	130.13	138.66	94.52	1,844.94	4,869.46	2,287.44	2,102.67	184.77	12.380		
12,100.00	7,730.00	15,243.00	7,668.35	130.02	138.66	94.52	1,844.94	4,869.46	2,377.88	2,194.85	183.03	12.992		
12,200.00	7,730.00	15,243.00	7,668.35	129.93	138.66	94.52	1,844.94	4,869.46	2,469.07	2,287.68	181.39	13.612		
12,300.00	7,730.00	15,243.00	7,668.35	129.85	138.66	94.52	1,844.94	4,869.46	2,560.91	2,381.06	179.85	14.239		
12,400.00	7,730.00	15,243.00	7,668.35	129.77	138.66	94.52	1,844.94	4,869.46	2,653.34	2,474.94	178.40	14.873		
12,500.00	7,730.00	15,243.00	7,668.35	129.71	138.66	94.52	1,844.94	4,869.46	2,746.30	2,569.26	177.04	15.513		
12,600.00	7,730.00	15,243.00	7,668.35	129.66	138.66	94.52	1,844.94	4,869.46	2,839.74	2,663.98	175.76	16.157		
12,700.00	7,730.00	15,243.00	7,668.35	129.63	138.66	94.52	1,844.94	4,869.46	2,933.61	2,759.06	174.55	16.807		
12,800.00	7,730.00	15,243.00	7,668.35	129.60	138.66	94.52	1,844.94	4,869.46	3,027.87	2,854.45	173.42	17.460		
12,900.00	7,730.00	15,243.00	7,668.35	129.59	138.66	94.52	1,844.94	4,869.46	3,122.49	2,950.14	172.36	18.117		
13,000.00	7,730.00	15,243.00	7,668.35	129.59	138.66	94.52	1,844.94	4,869.46	3,217.44	3,046.08	171.35	18.777		
13,100.00	7,730.00	15,243.00	7,668.35	129.60	138.66	94.52	1,844.94	4,869.46	3,312.68	3,142.27	170.41	19.439		
13,200.00	7,730.00	15,243.00	7,668.35	129.63	138.66	94.52	1,844.94	4,869.46	3,408.20	3,238.68	169.52	20.105		
13,300.00	7,730.00	15,243.00	7,668.35	129.66	138.66	94.52	1,844.94	4,869.46	3,503.96	3,335.28	168.68	20.772		
13,400.00	7,730.00	15,243.00	7,668.35	129.72	138.66	94.52	1,844.94	4,869.46	3,599.96	3,432.07	167.89	21.442		
13,500.00	7,730.00	15,243.00	7,668.35	129.78	138.66	94.52	1,844.94	4,869.46	3,696.17	3,529.02	167.15	22.113		
13,600.00	7,730.00	15,243.00	7,668.35	129.86	138.66	94.52	1,844.94	4,869.46	3,792.58	3,626.13	166.45	22.786		
13,700.00	7,730.00	15,243.00	7,668.35	129.96	138.66	94.52	1,844.94	4,869.46	3,889.16	3,723.38	165.78	23.460		
13,800.00	7,730.00	15,243.00	7,668.35	130.07	138.66	94.52	1,844.94	4,869.46	3,985.92	3,820.77	165.15	24.135		
13,900.00	7,730.00	15,243.00	7,668.35	130.19	138.66	94.52	1,844.94	4,869.46	4,082.83	3,918.27	164.56	24.811		
14,000.00	7,730.00	15,243.00	7,668.35	130.33	138.66	94.52	1,844.94	4,869.46	4,179.88	4,015.89	163.99	25.488		
14,100.00	7,730.00	15,243.00	7,668.35	130.49	138.66	94.52	1,844.94	4,869.46	4,277.08	4,113.62	163.46	26.166		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,243.00	7,668.35	130.67	138.66	94.52	1,844.94	4,869.46	4,374.40	4,211.44	162.96	26.844		
14,300.00	7,730.00	15,243.00	7,668.35	130.86	138.66	94.52	1,844.94	4,869.46	4,471.83	4,309.36	162.48	27.523		
14,400.00	7,730.00	15,243.00	7,668.35	131.07	138.66	94.52	1,844.94	4,869.46	4,569.38	4,407.36	162.02	28.202		
14,500.00	7,730.00	15,243.00	7,668.35	131.30	138.66	94.52	1,844.94	4,869.46	4,667.03	4,505.44	161.59	28.882		
14,600.00	7,730.00	15,243.00	7,668.35	131.55	138.66	94.52	1,844.94	4,869.46	4,764.78	4,603.60	161.18	29.562		
14,700.00	7,730.00	15,243.00	7,668.35	131.82	138.66	94.52	1,844.94	4,869.46	4,862.62	4,701.83	160.79	30.242		
14,800.00	7,730.00	15,243.00	7,668.35	132.11	138.66	94.52	1,844.94	4,869.46	4,960.55	4,800.13	160.42	30.922		
14,900.00	7,730.00	15,243.00	7,668.35	132.42	138.66	94.52	1,844.94	4,869.46	5,058.56	4,898.49	160.07	31.603		
15,000.00	7,730.00	15,243.00	7,668.35	132.75	138.66	94.52	1,844.94	4,869.46	5,156.64	4,996.91	159.73	32.283		
15,100.00	7,730.00	15,243.00	7,668.35	133.10	138.66	94.52	1,844.94	4,869.46	5,254.80	5,095.39	159.41	32.964		
15,200.00	7,730.00	15,243.00	7,668.35	133.48	138.66	94.52	1,844.94	4,869.46	5,353.02	5,193.92	159.11	33.644		
15,300.00	7,730.00	15,243.00	7,668.35	133.88	138.66	94.52	1,844.94	4,869.46	5,451.31	5,292.50	158.82	34.325		
15,400.00	7,730.00	15,243.00	7,668.35	134.31	138.66	94.52	1,844.94	4,869.46	5,549.66	5,391.13	158.54	35.005		
15,500.00	7,730.00	15,243.00	7,668.35	134.76	138.66	94.52	1,844.94	4,869.46	5,648.07	5,489.80	158.28	35.685		
15,600.00	7,730.00	15,243.00	7,668.35	135.23	138.66	94.52	1,844.94	4,869.46	5,746.54	5,588.51	158.02	36.365		
15,700.00	7,730.00	15,243.00	7,668.35	135.73	138.66	94.52	1,844.94	4,869.46	5,845.05	5,687.27	157.78	37.045		
15,800.00	7,730.00	15,243.00	7,668.35	136.26	138.66	94.52	1,844.94	4,869.46	5,943.62	5,786.07	157.55	37.725		
15,900.00	7,730.00	15,243.00	7,668.35	136.81	138.66	94.52	1,844.94	4,869.46	6,042.23	5,884.90	157.33	38.404		
16,000.00	7,730.00	15,243.00	7,668.35	137.39	138.66	94.52	1,844.94	4,869.46	6,140.89	5,983.77	157.12	39.083		
16,100.00	7,730.00	15,243.00	7,668.35	138.00	138.66	94.52	1,844.94	4,869.46	6,239.59	6,082.67	156.92	39.763		
16,200.00	7,730.00	15,243.00	7,668.35	138.63	138.66	94.52	1,844.94	4,869.46	6,338.33	6,181.60	156.73	40.441		
16,300.00	7,730.00	15,243.00	7,668.35	139.30	138.66	94.52	1,844.94	4,869.46	6,437.11	6,280.56	156.54	41.120		
16,400.00	7,730.00	15,243.00	7,668.35	139.99	138.66	94.52	1,844.94	4,869.46	6,535.92	6,379.56	156.37	41.798		
16,500.00	7,730.00	15,243.00	7,668.35	140.70	138.66	94.52	1,844.94	4,869.46	6,634.78	6,478.58	156.20	42.476		
16,600.00	7,730.00	15,243.00	7,668.35	141.45	138.66	94.52	1,844.94	4,869.46	6,733.66	6,577.62	156.04	43.154		
16,700.00	7,730.00	15,243.00	7,668.35	142.22	138.66	94.52	1,844.94	4,869.46	6,832.58	6,676.70	155.88	43.831		
16,800.00	7,730.00	15,243.00	7,668.35	143.03	138.66	94.52	1,844.94	4,869.46	6,931.53	6,775.80	155.74	44.508		
16,900.00	7,730.00	15,243.00	7,668.35	143.86	138.66	94.52	1,844.94	4,869.46	7,030.51	6,874.92	155.59	45.185		
17,000.00	7,730.00	15,243.00	7,668.35	144.71	138.66	94.52	1,844.94	4,869.46	7,129.52	6,974.06	155.46	45.862		
17,100.00	7,730.00	15,243.00	7,668.35	145.60	138.66	94.52	1,844.94	4,869.46	7,228.55	7,073.23	155.33	46.538		
17,200.00	7,730.00	15,243.00	7,668.35	146.51	138.66	94.52	1,844.94	4,869.46	7,327.61	7,172.41	155.20	47.214		
17,300.00	7,730.00	15,243.00	7,668.35	147.44	138.66	94.52	1,844.94	4,869.46	7,426.70	7,271.62	155.08	47.889		
17,400.00	7,730.00	15,243.00	7,668.35	148.40	138.66	94.52	1,844.94	4,869.46	7,525.81	7,370.85	154.97	48.564		
17,500.00	7,730.00	15,243.00	7,668.35	149.39	138.66	94.52	1,844.94	4,869.46	7,624.95	7,470.09	154.85	49.239		
17,600.00	7,730.00	15,243.00	7,668.35	150.40	138.66	94.52	1,844.94	4,869.46	7,724.10	7,569.35	154.75	49.914		
17,700.00	7,730.00	15,243.00	7,668.35	151.44	138.66	94.52	1,844.94	4,869.46	7,823.28	7,668.63	154.65	50.588		
17,800.00	7,730.00	15,243.00	7,668.35	152.50	138.66	94.52	1,844.94	4,869.46	7,922.48	7,767.93	154.55	51.262		
17,900.00	7,730.00	15,243.00	7,668.35	153.58	138.66	94.52	1,844.94	4,869.46	8,021.70	7,867.24	154.45	51.936		
18,000.00	7,730.00	15,243.00	7,668.35	154.68	138.66	94.52	1,844.94	4,869.46	8,120.93	7,966.57	154.36	52.609		
18,100.00	7,730.00	15,243.00	7,668.35	155.80	138.66	94.52	1,844.94	4,869.46	8,220.19	8,065.91	154.28	53.282		
18,200.00	7,730.00	15,243.00	7,668.35	156.95	138.66	94.52	1,844.94	4,869.46	8,319.46	8,165.27	154.20	53.954		
18,300.00	7,730.00	15,243.00	7,668.35	158.11	138.66	94.52	1,844.94	4,869.46	8,418.75	8,264.64	154.12	54.626		
18,400.00	7,730.00	15,243.00	7,668.35	159.30	138.66	94.52	1,844.94	4,869.46	8,518.06	8,364.02	154.04	55.298		
18,500.00	7,730.00	15,243.00	7,668.35	160.50	138.66	94.52	1,844.94	4,869.46	8,617.39	8,463.42	153.97	55.970		
18,600.00	7,730.00	15,243.00	7,668.35	161.72	138.66	94.52	1,844.94	4,869.46	8,716.72	8,562.83	153.90	56.641		
18,700.00	7,730.00	15,243.00	7,668.35	162.96	138.66	94.52	1,844.94	4,869.46	8,816.08	8,662.25	153.83	57.311		
18,800.00	7,730.00	15,243.00	7,668.35	164.21	138.66	94.52	1,844.94	4,869.46	8,915.45	8,761.68	153.76	57.982		
18,900.00	7,730.00	15,243.00	7,668.35	165.48	138.66	94.52	1,844.94	4,869.46	9,014.83	8,861.13	153.70	58.652		
19,000.00	7,730.00	15,243.00	7,668.35	166.76	138.66	94.52	1,844.94	4,869.46	9,114.22	8,960.58	153.64	59.322		
19,100.00	7,730.00	15,243.00	7,668.35	168.06	138.66	94.52	1,844.94	4,869.46	9,213.63	9,060.05	153.58	59.991		
19,200.00	7,730.00	15,243.00	7,668.35	169.38	138.66	94.52	1,844.94	4,869.46	9,313.06	9,159.53	153.53	60.660		
19,300.00	7,730.00	15,243.00	7,668.35	170.70	138.66	94.52	1,844.94	4,869.46	9,412.49	9,259.01	153.48	61.329		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		16-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	7,730.00	15,243.00	7,668.35	172.04	138.66	94.52	1,844.94	4,869.46	9,511.93	9,358.51	153.43	61.997	
19,500.00	7,730.00	15,243.00	7,668.35	173.40	138.66	94.52	1,844.94	4,869.46	9,611.39	9,458.01	153.38	62.665	
19,600.00	7,730.00	15,243.00	7,668.35	174.76	138.66	94.52	1,844.94	4,869.46	9,710.86	9,557.53	153.33	63.333	
19,700.00	7,730.00	15,243.00	7,668.35	176.14	138.66	94.52	1,844.94	4,869.46	9,810.34	9,657.05	153.29	64.000	
19,800.00	7,730.00	15,243.00	7,668.35	177.52	138.66	94.52	1,844.94	4,869.46	9,909.83	9,756.58	153.24	64.667	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,134.00	7,566.57	0.00	139.08	65.27	1,824.40	3,961.19	8,854.99					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.27	1,824.40	3,961.19	8,768.09	8,682.94	85.15	102.973		
200.00	199.98	15,134.00	7,566.57	0.49	139.08	-5.52	1,824.40	3,961.19	8,680.63	8,595.10	85.53	101.497		
300.00	299.84	15,134.00	7,566.57	0.86	139.08	-5.90	1,824.40	3,961.19	8,591.78	8,505.86	85.92	99.995		
400.00	399.45	15,134.00	7,566.57	1.23	139.08	-6.35	1,824.40	3,961.19	8,501.61	8,415.30	86.31	98.497		
500.00	498.70	15,134.00	7,566.57	1.63	139.08	-6.87	1,824.40	3,961.19	8,410.20	8,323.51	86.70	97.007		
600.00	597.47	15,134.00	7,566.57	2.05	139.08	-7.48	1,824.40	3,961.19	8,317.62	8,230.55	87.07	95.529		
700.00	695.62	15,134.00	7,566.57	2.51	139.08	-8.21	1,824.40	3,961.19	8,223.93	8,136.50	87.43	94.067		
800.00	793.06	15,134.00	7,566.57	3.00	139.08	-9.10	1,824.40	3,961.19	8,129.22	8,041.46	87.77	92.624		
900.00	889.64	15,134.00	7,566.57	3.53	139.08	-10.20	1,824.40	3,961.19	8,033.58	7,945.49	88.09	91.202		
1,000.00	985.27	15,134.00	7,566.57	4.12	139.08	-11.59	1,824.40	3,961.19	7,937.07	7,848.69	88.38	89.805		
1,100.00	1,079.82	15,134.00	7,566.57	4.75	139.08	-13.41	1,824.40	3,961.19	7,839.80	7,751.15	88.65	88.433		
1,200.00	1,173.17	15,134.00	7,566.57	5.44	139.08	-15.87	1,824.40	3,961.19	7,741.86	7,652.96	88.90	87.089		
1,300.00	1,265.21	15,134.00	7,566.57	6.18	139.08	-19.35	1,824.40	3,961.19	7,643.33	7,554.22	89.11	85.775		
1,400.00	1,355.84	15,134.00	7,566.57	6.99	139.08	-24.63	1,824.40	3,961.19	7,544.32	7,455.03	89.29	84.491		
1,500.00	1,444.94	15,134.00	7,566.57	7.87	139.08	-33.33	1,824.40	3,961.19	7,444.94	7,355.50	89.44	83.240		
1,600.00	1,532.39	15,134.00	7,566.57	8.80	139.08	-49.04	1,824.40	3,961.19	7,345.29	7,255.74	89.55	82.023		
1,700.00	1,618.11	15,134.00	7,566.57	9.81	139.08	-77.44	1,824.40	3,961.19	7,245.48	7,155.86	89.63	80.841		
1,800.00	1,701.97	15,134.00	7,566.57	10.89	139.08	-112.48	1,824.40	3,961.19	7,145.64	7,055.98	89.66	79.694		
1,900.00	1,783.88	15,134.00	7,566.57	12.04	139.08	-136.15	1,824.40	3,961.19	7,045.88	6,956.22	89.66	78.584		
2,000.00	1,863.74	15,134.00	7,566.57	13.26	139.08	-148.91	1,824.40	3,961.19	6,946.34	6,856.72	89.62	77.511		
2,100.00	1,941.45	15,134.00	7,566.57	14.55	139.08	-156.17	1,824.40	3,961.19	6,847.14	6,757.60	89.53	76.475		
2,200.00	2,016.92	15,134.00	7,566.57	15.92	139.08	-160.72	1,824.40	3,961.19	6,748.42	6,659.01	89.41	75.476		
2,292.11	2,084.36	15,134.00	7,566.57	17.25	139.08	-163.59	1,824.40	3,961.19	6,658.05	6,568.79	89.26	74.588		
2,300.00	2,090.06	15,134.00	7,566.57	17.36	139.08	-163.59	1,824.40	3,961.19	6,650.34	6,561.09	89.25	74.516		
2,400.00	2,162.18	15,134.00	7,566.57	18.84	139.08	-163.59	1,824.40	3,961.19	6,552.59	6,463.51	89.08	73.558		
2,500.00	2,234.31	15,134.00	7,566.57	20.33	139.08	-163.59	1,824.40	3,961.19	6,454.92	6,366.00	88.92	72.593		
2,600.00	2,306.43	15,134.00	7,566.57	21.83	139.08	-163.59	1,824.40	3,961.19	6,357.32	6,268.55	88.76	71.622		
2,700.00	2,378.56	15,134.00	7,566.57	23.33	139.08	-163.59	1,824.40	3,961.19	6,259.79	6,171.18	88.61	70.645		
2,800.00	2,450.68	15,134.00	7,566.57	24.84	139.08	-163.59	1,824.40	3,961.19	6,162.34	6,073.88	88.46	69.662		
2,900.00	2,522.81	15,134.00	7,566.57	26.36	139.08	-163.59	1,824.40	3,961.19	6,064.98	5,976.67	88.31	68.675		
3,000.00	2,594.93	15,134.00	7,566.57	27.88	139.08	-163.59	1,824.40	3,961.19	5,967.70	5,879.53	88.17	67.683		
3,100.00	2,667.06	15,134.00	7,566.57	29.40	139.08	-163.59	1,824.40	3,961.19	5,870.52	5,782.49	88.03	66.686		
3,200.00	2,739.18	15,134.00	7,566.57	30.92	139.08	-163.59	1,824.40	3,961.19	5,773.43	5,685.53	87.90	65.685		
3,300.00	2,811.31	15,134.00	7,566.57	32.45	139.08	-163.59	1,824.40	3,961.19	5,676.44	5,588.68	87.76	64.681		
3,400.00	2,883.43	15,134.00	7,566.57	33.98	139.08	-163.59	1,824.40	3,961.19	5,579.56	5,491.93	87.63	63.673		
3,500.00	2,955.56	15,134.00	7,566.57	35.51	139.08	-163.59	1,824.40	3,961.19	5,482.79	5,395.29	87.50	62.663		
3,600.00	3,027.68	15,134.00	7,566.57	37.04	139.08	-163.59	1,824.40	3,961.19	5,386.14	5,298.77	87.37	61.650		
3,700.00	3,099.81	15,134.00	7,566.57	38.57	139.08	-163.59	1,824.40	3,961.19	5,289.61	5,202.38	87.24	60.634		
3,800.00	3,171.93	15,134.00	7,566.57	40.11	139.08	-163.59	1,824.40	3,961.19	5,193.22	5,106.11	87.11	59.617		
3,900.00	3,244.06	15,134.00	7,566.57	41.64	139.08	-163.59	1,824.40	3,961.19	5,096.96	5,009.98	86.98	58.598		
4,000.00	3,316.18	15,134.00	7,566.57	43.18	139.08	-163.59	1,824.40	3,961.19	5,000.85	4,914.00	86.85	57.577		
4,100.00	3,388.31	15,134.00	7,566.57	44.71	139.08	-163.59	1,824.40	3,961.19	4,904.90	4,818.17	86.73	56.555		
4,200.00	3,460.43	15,134.00	7,566.57	46.25	139.08	-163.59	1,824.40	3,961.19	4,809.11	4,722.51	86.60	55.532		
4,300.00	3,532.56	15,134.00	7,566.57	47.79	139.08	-163.59	1,824.40	3,961.19	4,713.49	4,627.02	86.47	54.508		
4,400.00	3,604.68	15,134.00	7,566.57	49.33	139.08	-163.59	1,824.40	3,961.19	4,618.07	4,531.72	86.34	53.484		
4,500.00	3,676.81	15,134.00	7,566.57	50.87	139.08	-163.59	1,824.40	3,961.19	4,522.84	4,436.62	86.22	52.459		
4,600.00	3,748.93	15,134.00	7,566.57	52.41	139.08	-163.59	1,824.40	3,961.19	4,427.81	4,341.73	86.09	51.433		
4,700.00	3,821.06	15,134.00	7,566.57	53.95	139.08	-163.59	1,824.40	3,961.19	4,333.02	4,247.06	85.96	50.408		
4,800.00	3,893.18	15,134.00	7,566.57	55.49	139.08	-163.59	1,824.40	3,961.19	4,238.46	4,152.63	85.83	49.381		
4,900.00	3,965.31	15,134.00	7,566.57	57.03	139.08	-163.59	1,824.40	3,961.19	4,144.16	4,058.46	85.70	48.355		
5,000.00	4,037.43	15,134.00	7,566.57	58.58	139.08	-163.59	1,824.40	3,961.19	4,050.13	3,964.55	85.58	47.328		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	15,134.00	7,566.57	60.12	139.08	-163.59	1,824.40	3,961.19	3,956.39	3,870.94	85.45	46.301		
5,200.00	4,181.68	15,134.00	7,566.57	61.66	139.08	-163.59	1,824.40	3,961.19	3,862.97	3,777.65	85.33	45.273		
5,300.00	4,253.81	15,134.00	7,566.57	63.20	139.08	-163.59	1,824.40	3,961.19	3,769.89	3,684.68	85.21	44.245		
5,400.00	4,325.93	15,134.00	7,566.57	64.75	139.08	-163.59	1,824.40	3,961.19	3,677.17	3,592.08	85.09	43.216		
5,500.00	4,398.06	15,134.00	7,566.57	66.29	139.08	-163.59	1,824.40	3,961.19	3,584.84	3,499.86	84.98	42.185		
5,600.00	4,470.18	15,134.00	7,566.57	67.84	139.08	-163.59	1,824.40	3,961.19	3,492.93	3,408.06	84.88	41.154		
5,700.00	4,542.31	15,134.00	7,566.57	69.38	139.08	-163.59	1,824.40	3,961.19	3,401.48	3,316.70	84.78	40.120		
5,800.00	4,614.43	15,134.00	7,566.57	70.92	139.08	-163.59	1,824.40	3,961.19	3,310.53	3,225.82	84.70	39.084		
5,900.00	4,686.56	15,134.00	7,566.57	72.47	139.08	-163.59	1,824.40	3,961.19	3,220.11	3,135.47	84.64	38.045		
6,000.00	4,758.68	15,134.00	7,566.57	74.01	139.08	-163.59	1,824.40	3,961.19	3,130.27	3,045.67	84.60	37.002		
6,100.00	4,830.81	15,134.00	7,566.57	75.56	139.08	-163.59	1,824.40	3,961.19	3,041.07	2,956.49	84.58	35.954		
6,200.00	4,902.93	15,134.00	7,566.57	77.10	139.08	-163.59	1,824.40	3,961.19	2,952.56	2,867.96	84.60	34.900		
6,300.00	4,975.06	15,134.00	7,566.57	78.65	139.08	-163.59	1,824.40	3,961.19	2,864.80	2,780.14	84.66	33.838		
6,400.00	5,047.18	15,134.00	7,566.57	80.19	139.08	-163.59	1,824.40	3,961.19	2,777.88	2,693.10	84.77	32.768		
6,500.00	5,119.31	15,134.00	7,566.57	81.74	139.08	-163.59	1,824.40	3,961.19	2,691.86	2,606.91	84.95	31.687		
6,600.00	5,191.43	15,134.00	7,566.57	83.28	139.08	-163.59	1,824.40	3,961.19	2,606.84	2,521.63	85.21	30.593		
6,700.00	5,263.56	15,134.00	7,566.57	84.83	139.08	-163.59	1,824.40	3,961.19	2,522.92	2,437.35	85.57	29.485		
6,800.00	5,335.68	15,134.00	7,566.57	86.37	139.08	-163.59	1,824.40	3,961.19	2,440.21	2,354.16	86.05	28.359		
6,900.00	5,407.81	15,134.00	7,566.57	87.92	139.08	-163.59	1,824.40	3,961.19	2,358.84	2,272.16	86.68	27.214		
7,000.00	5,479.93	15,134.00	7,566.57	89.47	139.08	-163.59	1,824.40	3,961.19	2,278.95	2,191.46	87.49	26.047		
7,100.00	5,552.06	15,134.00	7,566.57	91.01	139.08	-163.59	1,824.40	3,961.19	2,200.71	2,112.18	88.53	24.859		
7,200.00	5,624.18	15,134.00	7,566.57	92.56	139.08	-163.59	1,824.40	3,961.19	2,124.30	2,034.46	89.83	23.648		
7,300.00	5,696.31	15,134.00	7,566.57	94.10	139.08	-163.59	1,824.40	3,961.19	2,049.91	1,958.46	91.45	22.416		
7,400.00	5,768.43	15,134.00	7,566.57	95.65	139.08	-163.59	1,824.40	3,961.19	1,977.79	1,884.35	93.44	21.167		
7,500.00	5,840.56	15,134.00	7,566.57	97.20	139.08	-163.59	1,824.40	3,961.19	1,908.18	1,812.32	95.85	19.907		
7,600.00	5,912.68	15,134.00	7,566.57	98.74	139.08	-163.59	1,824.40	3,961.19	1,841.37	1,742.62	98.75	18.647		
7,700.00	5,984.81	15,134.00	7,566.57	100.29	139.08	-163.59	1,824.40	3,961.19	1,777.68	1,675.51	102.17	17.399		
7,800.00	6,056.93	15,134.00	7,566.57	101.84	139.08	-163.59	1,824.40	3,961.19	1,717.46	1,611.30	106.15	16.179		
7,900.00	6,129.06	15,134.00	7,566.57	103.38	139.08	-163.59	1,824.40	3,961.19	1,661.07	1,550.36	110.71	15.003		
8,000.00	6,201.18	15,134.00	7,566.57	104.93	139.08	-163.59	1,824.40	3,961.19	1,608.93	1,493.09	115.84	13.889		
8,100.00	6,273.31	15,134.00	7,566.57	106.48	139.08	-163.59	1,824.40	3,961.19	1,561.46	1,439.96	121.51	12.851		
8,200.00	6,345.43	15,134.00	7,566.57	108.02	139.08	-163.59	1,824.40	3,961.19	1,519.10	1,391.47	127.63	11.902		
8,300.00	6,417.56	15,134.00	7,566.57	109.57	139.08	-163.59	1,824.40	3,961.19	1,482.29	1,348.17	134.12	11.052		
8,400.00	6,489.68	15,134.00	7,566.57	111.12	139.08	-163.59	1,824.40	3,961.19	1,451.44	1,310.61	140.83	10.306		
8,500.00	6,561.81	15,134.00	7,566.57	112.66	139.08	-163.59	1,824.40	3,961.19	1,426.95	1,279.33	147.62	9.667		
8,600.00	6,633.93	15,134.00	7,566.57	114.21	139.08	-163.59	1,824.40	3,961.19	1,409.14	1,254.84	154.30	9.132		
8,700.00	6,706.06	15,134.00	7,566.57	115.76	139.08	-163.59	1,824.40	3,961.19	1,398.28	1,237.56	160.72	8.700		
8,800.00	6,778.18	15,134.00	7,566.57	117.30	139.08	-163.59	1,824.40	3,961.19	1,394.52	1,227.81	166.71	8.365		
8,802.48	6,779.97	15,134.00	7,566.57	117.34	139.08	-163.59	1,824.40	3,961.19	1,394.52	1,227.67	166.85	8.358 CC		
8,900.00	6,850.31	15,134.00	7,566.57	118.85	139.08	-163.59	1,824.40	3,961.19	1,397.92	1,225.80	172.12	8.122 ES		
9,000.00	6,922.43	15,137.26	7,566.65	120.40	139.14	-163.72	1,821.14	3,961.24	1,408.43	1,231.66	176.77	7.967		
9,100.00	6,994.56	15,116.69	7,566.19	121.95	138.78	-162.90	1,841.70	3,960.93	1,425.80	1,244.41	181.38	7.861		
9,200.00	7,066.68	15,096.13	7,565.73	123.49	138.42	-162.07	1,862.26	3,960.61	1,449.58	1,264.30	185.28	7.824 SF		
9,300.00	7,138.81	15,075.50	7,565.28	125.04	138.06	-161.24	1,882.88	3,960.30	1,479.46	1,291.00	188.46	7.850		
9,392.50	7,205.52	15,055.31	7,564.86	126.47	137.71	-160.44	1,903.06	3,960.01	1,512.21	1,321.39	190.82	7.925		
9,400.00	7,210.94	15,053.70	7,564.83	126.59	137.68	-161.44	1,904.67	3,959.98	1,515.07	1,324.09	190.99	7.933		
9,450.00	7,247.42	15,045.54	7,564.67	127.35	137.54	-168.53	1,912.83	3,959.88	1,535.12	1,343.08	192.03	7.994		
9,500.00	7,284.35	15,041.92	7,564.61	128.10	137.48	-176.22	1,916.45	3,959.83	1,556.68	1,363.74	192.94	8.068		
9,550.00	7,321.43	15,042.96	7,564.63	128.83	137.50	175.64	1,915.40	3,959.84	1,579.58	1,385.88	193.70	8.155		
9,600.00	7,358.38	15,048.77	7,564.73	129.52	137.60	167.21	1,909.60	3,959.92	1,603.57	1,409.25	194.32	8.252		
9,650.00	7,394.93	15,059.38	7,564.94	130.16	137.78	158.69	1,898.99	3,960.06	1,628.39	1,433.59	194.80	8.359		
9,700.00	7,430.79	15,074.83	7,565.26	130.76	138.05	150.25	1,883.55	3,960.29	1,653.72	1,458.57	195.15	8.474		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	15,093.35	7,565.67	131.30	138.37	142.12	1,865.03	3,960.57	1,679.24	1,483.81	195.43	8.592		
9,800.00	7,499.38	15,115.56	7,566.17	131.78	138.76	134.42	1,842.83	3,960.91	1,704.64	1,508.99	195.65	8.713		
9,850.00	7,531.58	15,134.00	7,566.57	132.21	139.08	127.45	1,824.40	3,961.19	1,729.60	1,533.56	196.04	8.823		
9,900.00	7,562.06	15,134.00	7,566.57	132.57	139.08	121.61	1,824.40	3,961.19	1,754.13	1,557.11	197.02	8.903		
9,950.00	7,590.58	15,134.00	7,566.57	132.87	139.08	116.31	1,824.40	3,961.19	1,778.16	1,580.12	198.04	8.979		
10,000.00	7,616.93	15,134.00	7,566.57	133.11	139.08	111.53	1,824.40	3,961.19	1,801.54	1,602.44	199.09	9.049		
10,050.00	7,640.90	15,134.00	7,566.57	133.29	139.08	107.26	1,824.40	3,961.19	1,824.10	1,623.92	200.18	9.112		
10,100.00	7,662.32	15,134.00	7,566.57	133.42	139.08	103.48	1,824.40	3,961.19	1,845.73	1,644.42	201.30	9.169		
10,150.00	7,681.01	15,134.00	7,566.57	133.50	139.08	100.16	1,824.40	3,961.19	1,866.27	1,663.82	202.45	9.218		
10,200.00	7,696.85	15,134.00	7,566.57	133.52	139.08	97.29	1,824.40	3,961.19	1,885.62	1,682.01	203.62	9.261		
10,250.00	7,709.70	15,134.00	7,566.57	133.51	139.08	94.84	1,824.40	3,961.19	1,903.68	1,698.88	204.80	9.295		
10,300.00	7,719.47	15,134.00	7,566.57	133.46	139.08	92.79	1,824.40	3,961.19	1,920.33	1,714.34	205.99	9.322		
10,350.00	7,726.09	15,134.00	7,566.57	133.37	139.08	91.13	1,824.40	3,961.19	1,935.48	1,728.31	207.18	9.342		
10,400.00	7,729.50	15,134.00	7,566.57	133.26	139.08	89.85	1,824.40	3,961.19	1,949.08	1,740.72	208.35	9.355		
10,427.79	7,730.00	15,134.00	7,566.57	133.18	139.08	89.29	1,824.40	3,961.19	1,955.92	1,746.93	208.99	9.359		
10,500.00	7,730.00	15,134.00	7,566.57	132.98	139.08	89.29	1,824.40	3,961.19	1,974.30	1,763.74	210.56	9.377		
10,600.00	7,730.00	15,134.00	7,566.57	132.72	139.08	89.29	1,824.40	3,961.19	2,003.77	1,791.39	212.38	9.435		
10,700.00	7,730.00	15,134.00	7,566.57	132.47	139.08	89.29	1,824.40	3,961.19	2,037.72	1,823.92	213.80	9.531		
10,800.00	7,730.00	15,134.00	7,566.57	132.22	139.08	89.29	1,824.40	3,961.19	2,075.94	1,861.10	214.85	9.662		
10,900.00	7,730.00	15,134.00	7,566.57	131.99	139.08	89.29	1,824.40	3,961.19	2,118.20	1,902.66	215.54	9.827		
11,000.00	7,730.00	15,134.00	7,566.57	131.77	139.08	89.29	1,824.40	3,961.19	2,164.26	1,948.35	215.90	10.024		
11,100.00	7,730.00	15,134.00	7,566.57	131.56	139.08	89.29	1,824.40	3,961.19	2,213.87	1,997.90	215.97	10.251		
11,200.00	7,730.00	15,134.00	7,566.57	131.36	139.08	89.29	1,824.40	3,961.19	2,266.82	2,051.04	215.78	10.505		
11,300.00	7,730.00	15,134.00	7,566.57	131.17	139.08	89.29	1,824.40	3,961.19	2,322.86	2,107.50	215.36	10.786		
11,400.00	7,730.00	15,134.00	7,566.57	130.99	139.08	89.29	1,824.40	3,961.19	2,381.79	2,167.04	214.75	11.091		
11,500.00	7,730.00	15,134.00	7,566.57	130.82	139.08	89.29	1,824.40	3,961.19	2,443.39	2,229.42	213.97	11.419		
11,600.00	7,730.00	15,134.00	7,566.57	130.66	139.08	89.29	1,824.40	3,961.19	2,507.47	2,294.41	213.05	11.769		
11,700.00	7,730.00	15,134.00	7,566.57	130.51	139.08	89.29	1,824.40	3,961.19	2,573.83	2,361.80	212.03	12.139		
11,800.00	7,730.00	15,134.00	7,566.57	130.37	139.08	89.29	1,824.40	3,961.19	2,642.32	2,431.40	210.91	12.528		
11,900.00	7,730.00	15,134.00	7,566.57	130.24	139.08	89.29	1,824.40	3,961.19	2,712.76	2,503.03	209.73	12.935		
12,000.00	7,730.00	15,134.00	7,566.57	130.13	139.08	89.29	1,824.40	3,961.19	2,785.01	2,576.52	208.49	13.358		
12,100.00	7,730.00	15,134.00	7,566.57	130.02	139.08	89.29	1,824.40	3,961.19	2,858.94	2,651.72	207.22	13.797		
12,200.00	7,730.00	15,134.00	7,566.57	129.93	139.08	89.29	1,824.40	3,961.19	2,934.41	2,728.49	205.92	14.250		
12,300.00	7,730.00	15,134.00	7,566.57	129.85	139.08	89.29	1,824.40	3,961.19	3,011.31	2,806.70	204.61	14.717		
12,400.00	7,730.00	15,134.00	7,566.57	129.77	139.08	89.29	1,824.40	3,961.19	3,089.54	2,886.24	203.30	15.197		
12,500.00	7,730.00	15,134.00	7,566.57	129.71	139.08	89.29	1,824.40	3,961.19	3,168.98	2,967.00	201.98	15.689		
12,600.00	7,730.00	15,134.00	7,566.57	129.66	139.08	89.29	1,824.40	3,961.19	3,249.57	3,048.89	200.68	16.193		
12,700.00	7,730.00	15,134.00	7,566.57	129.63	139.08	89.29	1,824.40	3,961.19	3,331.20	3,131.81	199.39	16.707		
12,800.00	7,730.00	15,134.00	7,566.57	129.60	139.08	89.29	1,824.40	3,961.19	3,413.82	3,215.70	198.12	17.231		
12,900.00	7,730.00	15,134.00	7,566.57	129.59	139.08	89.29	1,824.40	3,961.19	3,497.34	3,300.47	196.86	17.765		
13,000.00	7,730.00	15,134.00	7,566.57	129.59	139.08	89.29	1,824.40	3,961.19	3,581.70	3,386.07	195.64	18.308		
13,100.00	7,730.00	15,134.00	7,566.57	129.60	139.08	89.29	1,824.40	3,961.19	3,666.86	3,472.42	194.43	18.859		
13,200.00	7,730.00	15,134.00	7,566.57	129.63	139.08	89.29	1,824.40	3,961.19	3,752.74	3,559.48	193.26	19.418		
13,300.00	7,730.00	15,134.00	7,566.57	129.66	139.08	89.29	1,824.40	3,961.19	3,839.31	3,647.20	192.11	19.985		
13,400.00	7,730.00	15,134.00	7,566.57	129.72	139.08	89.29	1,824.40	3,961.19	3,926.52	3,735.53	190.99	20.559		
13,500.00	7,730.00	15,134.00	7,566.57	129.78	139.08	89.29	1,824.40	3,961.19	4,014.32	3,824.42	189.90	21.139		
13,600.00	7,730.00	15,134.00	7,566.57	129.86	139.08	89.29	1,824.40	3,961.19	4,102.68	3,913.84	188.84	21.726		
13,700.00	7,730.00	15,134.00	7,566.57	129.96	139.08	89.29	1,824.40	3,961.19	4,191.57	4,003.76	187.81	22.319		
13,800.00	7,730.00	15,134.00	7,566.57	130.07	139.08	89.29	1,824.40	3,961.19	4,280.94	4,094.14	186.80	22.917		
13,900.00	7,730.00	15,134.00	7,566.57	130.19	139.08	89.29	1,824.40	3,961.19	4,370.78	4,184.95	185.83	23.521		
14,000.00	7,730.00	15,134.00	7,566.57	130.33	139.08	89.29	1,824.40	3,961.19	4,461.04	4,276.16	184.88	24.129		
14,100.00	7,730.00	15,134.00	7,566.57	130.49	139.08	89.29	1,824.40	3,961.19	4,551.72	4,367.76	183.96	24.743		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,134.00	7,566.57	130.67	139.08	89.29	1,824.40	3,961.19	4,642.78	4,459.71	183.07	25.361		
14,300.00	7,730.00	15,134.00	7,566.57	130.86	139.08	89.29	1,824.40	3,961.19	4,734.19	4,551.99	182.20	25.983		
14,400.00	7,730.00	15,134.00	7,566.57	131.07	139.08	89.29	1,824.40	3,961.19	4,825.95	4,644.59	181.36	26.609		
14,500.00	7,730.00	15,134.00	7,566.57	131.30	139.08	89.29	1,824.40	3,961.19	4,918.03	4,737.49	180.55	27.239		
14,600.00	7,730.00	15,134.00	7,566.57	131.55	139.08	89.29	1,824.40	3,961.19	5,010.42	4,830.66	179.76	27.873		
14,700.00	7,730.00	15,134.00	7,566.57	131.82	139.08	89.29	1,824.40	3,961.19	5,103.09	4,924.10	178.99	28.510		
14,800.00	7,730.00	15,134.00	7,566.57	132.11	139.08	89.29	1,824.40	3,961.19	5,196.03	5,017.79	178.25	29.151		
14,900.00	7,730.00	15,134.00	7,566.57	132.42	139.08	89.29	1,824.40	3,961.19	5,289.23	5,111.71	177.52	29.794		
15,000.00	7,730.00	15,134.00	7,566.57	132.75	139.08	89.29	1,824.40	3,961.19	5,382.68	5,205.85	176.82	30.441		
15,100.00	7,730.00	15,134.00	7,566.57	133.10	139.08	89.29	1,824.40	3,961.19	5,476.35	5,300.21	176.15	31.090		
15,200.00	7,730.00	15,134.00	7,566.57	133.48	139.08	89.29	1,824.40	3,961.19	5,570.25	5,394.76	175.49	31.742		
15,300.00	7,730.00	15,134.00	7,566.57	133.88	139.08	89.29	1,824.40	3,961.19	5,664.35	5,489.51	174.85	32.396		
15,400.00	7,730.00	15,134.00	7,566.57	134.31	139.08	89.29	1,824.40	3,961.19	5,758.66	5,584.43	174.23	33.053		
15,500.00	7,730.00	15,134.00	7,566.57	134.76	139.08	89.29	1,824.40	3,961.19	5,853.15	5,679.53	173.62	33.712		
15,600.00	7,730.00	15,134.00	7,566.57	135.23	139.08	89.29	1,824.40	3,961.19	5,947.82	5,774.78	173.04	34.373		
15,700.00	7,730.00	15,134.00	7,566.57	135.73	139.08	89.29	1,824.40	3,961.19	6,042.67	5,870.20	172.47	35.036		
15,800.00	7,730.00	15,134.00	7,566.57	136.26	139.08	89.29	1,824.40	3,961.19	6,137.67	5,965.76	171.92	35.701		
15,900.00	7,730.00	15,134.00	7,566.57	136.81	139.08	89.29	1,824.40	3,961.19	6,232.84	6,061.46	171.38	36.368		
16,000.00	7,730.00	15,134.00	7,566.57	137.39	139.08	89.29	1,824.40	3,961.19	6,328.15	6,157.29	170.86	37.036		
16,100.00	7,730.00	15,134.00	7,566.57	138.00	139.08	89.29	1,824.40	3,961.19	6,423.61	6,253.25	170.36	37.706		
16,200.00	7,730.00	15,134.00	7,566.57	138.63	139.08	89.29	1,824.40	3,961.19	6,519.20	6,349.33	169.87	38.378		
16,300.00	7,730.00	15,134.00	7,566.57	139.30	139.08	89.29	1,824.40	3,961.19	6,614.92	6,445.53	169.39	39.051		
16,400.00	7,730.00	15,134.00	7,566.57	139.99	139.08	89.29	1,824.40	3,961.19	6,710.77	6,541.84	168.93	39.726		
16,500.00	7,730.00	15,134.00	7,566.57	140.70	139.08	89.29	1,824.40	3,961.19	6,806.74	6,638.26	168.48	40.401		
16,600.00	7,730.00	15,134.00	7,566.57	141.45	139.08	89.29	1,824.40	3,961.19	6,902.82	6,734.78	168.04	41.079		
16,700.00	7,730.00	15,134.00	7,566.57	142.22	139.08	89.29	1,824.40	3,961.19	6,999.01	6,831.39	167.61	41.757		
16,800.00	7,730.00	15,134.00	7,566.57	143.03	139.08	89.29	1,824.40	3,961.19	7,095.31	6,928.11	167.20	42.436		
16,900.00	7,730.00	15,134.00	7,566.57	143.86	139.08	89.29	1,824.40	3,961.19	7,191.70	7,024.91	166.80	43.116		
17,000.00	7,730.00	15,134.00	7,566.57	144.71	139.08	89.29	1,824.40	3,961.19	7,288.20	7,121.79	166.41	43.798		
17,100.00	7,730.00	15,134.00	7,566.57	145.60	139.08	89.29	1,824.40	3,961.19	7,384.78	7,218.76	166.02	44.480		
17,200.00	7,730.00	15,134.00	7,566.57	146.51	139.08	89.29	1,824.40	3,961.19	7,481.46	7,315.81	165.65	45.163		
17,300.00	7,730.00	15,134.00	7,566.57	147.44	139.08	89.29	1,824.40	3,961.19	7,578.23	7,412.93	165.29	45.847		
17,400.00	7,730.00	15,134.00	7,566.57	148.40	139.08	89.29	1,824.40	3,961.19	7,675.07	7,510.13	164.94	46.532		
17,500.00	7,730.00	15,134.00	7,566.57	149.39	139.08	89.29	1,824.40	3,961.19	7,772.00	7,607.40	164.60	47.218		
17,600.00	7,730.00	15,134.00	7,566.57	150.40	139.08	89.29	1,824.40	3,961.19	7,869.00	7,704.74	164.27	47.904		
17,700.00	7,730.00	15,134.00	7,566.57	151.44	139.08	89.29	1,824.40	3,961.19	7,966.08	7,802.14	163.94	48.591		
17,800.00	7,730.00	15,134.00	7,566.57	152.50	139.08	89.29	1,824.40	3,961.19	8,063.23	7,899.60	163.63	49.278		
17,900.00	7,730.00	15,134.00	7,566.57	153.58	139.08	89.29	1,824.40	3,961.19	8,160.45	7,997.13	163.32	49.966		
18,000.00	7,730.00	15,134.00	7,566.57	154.68	139.08	89.29	1,824.40	3,961.19	8,257.73	8,094.71	163.02	50.655		
18,100.00	7,730.00	15,134.00	7,566.57	155.80	139.08	89.29	1,824.40	3,961.19	8,355.08	8,192.35	162.73	51.344		
18,200.00	7,730.00	15,134.00	7,566.57	156.95	139.08	89.29	1,824.40	3,961.19	8,452.49	8,290.05	162.44	52.034		
18,300.00	7,730.00	15,134.00	7,566.57	158.11	139.08	89.29	1,824.40	3,961.19	8,549.96	8,387.79	162.17	52.724		
18,400.00	7,730.00	15,134.00	7,566.57	159.30	139.08	89.29	1,824.40	3,961.19	8,647.49	8,485.59	161.90	53.414		
18,500.00	7,730.00	15,134.00	7,566.57	160.50	139.08	89.29	1,824.40	3,961.19	8,745.07	8,583.44	161.63	54.105		
18,600.00	7,730.00	15,134.00	7,566.57	161.72	139.08	89.29	1,824.40	3,961.19	8,842.71	8,681.33	161.37	54.796		
18,700.00	7,730.00	15,134.00	7,566.57	162.96	139.08	89.29	1,824.40	3,961.19	8,940.40	8,779.27	161.12	55.488		
18,800.00	7,730.00	15,134.00	7,566.57	164.21	139.08	89.29	1,824.40	3,961.19	9,038.14	8,877.26	160.88	56.179		
18,900.00	7,730.00	15,134.00	7,566.57	165.48	139.08	89.29	1,824.40	3,961.19	9,135.93	8,975.29	160.64	56.871		
19,000.00	7,730.00	15,134.00	7,566.57	166.76	139.08	89.29	1,824.40	3,961.19	9,233.77	9,073.36	160.41	57.564		
19,100.00	7,730.00	15,134.00	7,566.57	168.06	139.08	89.29	1,824.40	3,961.19	9,331.65	9,171.46	160.18	58.256		
19,200.00	7,730.00	15,134.00	7,566.57	169.38	139.08	89.29	1,824.40	3,961.19	9,429.57	9,269.61	159.96	58.949		
19,300.00	7,730.00	15,134.00	7,566.57	170.70	139.08	89.29	1,824.40	3,961.19	9,527.54	9,367.80	159.75	59.641		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		16-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	15,134.00	7,566.57	172.04	139.08	89.29	1,824.40	3,961.19	9,625.56	9,466.02	159.54	60.334	
19,500.00	7,730.00	15,134.00	7,566.57	173.40	139.08	89.29	1,824.40	3,961.19	9,723.61	9,564.28	159.33	61.028	
19,600.00	7,730.00	15,134.00	7,566.57	174.76	139.08	89.29	1,824.40	3,961.19	9,821.70	9,662.57	159.13	61.721	
19,700.00	7,730.00	15,134.00	7,566.57	176.14	139.08	89.29	1,824.40	3,961.19	9,919.83	9,760.89	158.94	62.414	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,352.00	7,829.29	0.00	138.31	71.16	1,856.25	5,440.01	9,812.15					
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.16	1,856.25	5,440.01	9,731.28	9,637.45	93.83	103.707		
200.00	199.98	15,352.00	7,829.29	0.49	138.31	0.74	1,856.25	5,440.01	9,649.75	9,555.46	94.29	102.344		
300.00	299.84	15,352.00	7,829.29	0.86	138.31	0.78	1,856.25	5,440.01	9,566.57	9,471.80	94.77	100.942		
400.00	399.45	15,352.00	7,829.29	1.23	138.31	0.83	1,856.25	5,440.01	9,481.80	9,386.54	95.26	99.534		
500.00	498.70	15,352.00	7,829.29	1.63	138.31	0.88	1,856.25	5,440.01	9,395.51	9,299.77	95.75	98.126		
600.00	597.47	15,352.00	7,829.29	2.05	138.31	0.93	1,856.25	5,440.01	9,307.76	9,211.53	96.23	96.723		
700.00	695.62	15,352.00	7,829.29	2.51	138.31	1.00	1,856.25	5,440.01	9,218.62	9,121.91	96.70	95.329		
800.00	793.06	15,352.00	7,829.29	3.00	138.31	1.08	1,856.25	5,440.01	9,128.15	9,030.99	97.16	93.946		
900.00	889.64	15,352.00	7,829.29	3.53	138.31	1.17	1,856.25	5,440.01	9,036.43	8,938.82	97.61	92.578		
1,000.00	985.27	15,352.00	7,829.29	4.12	138.31	1.28	1,856.25	5,440.01	8,943.53	8,845.49	98.04	91.227		
1,100.00	1,079.82	15,352.00	7,829.29	4.75	138.31	1.40	1,856.25	5,440.01	8,849.53	8,751.09	98.44	89.894		
1,200.00	1,173.17	15,352.00	7,829.29	5.44	138.31	1.56	1,856.25	5,440.01	8,754.51	8,655.68	98.83	88.582		
1,300.00	1,265.21	15,352.00	7,829.29	6.18	138.31	1.76	1,856.25	5,440.01	8,658.56	8,559.37	99.19	87.292		
1,400.00	1,355.84	15,352.00	7,829.29	6.99	138.31	2.01	1,856.25	5,440.01	8,561.76	8,462.24	99.52	86.026		
1,500.00	1,444.94	15,352.00	7,829.29	7.87	138.31	2.35	1,856.25	5,440.01	8,464.21	8,364.38	99.83	84.785		
1,600.00	1,532.39	15,352.00	7,829.29	8.80	138.31	2.82	1,856.25	5,440.01	8,365.99	8,265.89	100.11	83.571		
1,700.00	1,618.11	15,352.00	7,829.29	9.81	138.31	3.53	1,856.25	5,440.01	8,267.21	8,166.86	100.35	82.384		
1,800.00	1,701.97	15,352.00	7,829.29	10.89	138.31	4.69	1,856.25	5,440.01	8,167.97	8,067.42	100.56	81.226		
1,900.00	1,783.88	15,352.00	7,829.29	12.04	138.31	6.94	1,856.25	5,440.01	8,068.38	7,967.65	100.73	80.098		
2,000.00	1,863.74	15,352.00	7,829.29	13.26	138.31	13.19	1,856.25	5,440.01	7,968.54	7,867.67	100.87	79.002		
2,100.00	1,941.45	15,352.00	7,829.29	14.55	138.31	70.02	1,856.25	5,440.01	7,868.57	7,767.61	100.96	77.937		
2,200.00	2,016.92	15,352.00	7,829.29	15.92	138.31	164.01	1,856.25	5,440.01	7,768.59	7,667.58	101.01	76.906		
2,292.11	2,084.36	15,352.00	7,829.29	17.25	138.31	171.86	1,856.25	5,440.01	7,676.60	7,575.57	101.03	75.986		
2,300.00	2,090.06	15,352.00	7,829.29	17.36	138.31	171.86	1,856.25	5,440.01	7,668.72	7,567.70	101.03	75.909		
2,400.00	2,162.18	15,352.00	7,829.29	18.84	138.31	171.86	1,856.25	5,440.01	7,568.94	7,467.91	101.02	74.923		
2,500.00	2,234.31	15,352.00	7,829.29	20.33	138.31	171.86	1,856.25	5,440.01	7,469.16	7,368.14	101.02	73.936		
2,600.00	2,306.43	15,352.00	7,829.29	21.83	138.31	171.86	1,856.25	5,440.01	7,369.39	7,268.36	101.02	72.947		
2,700.00	2,378.56	15,352.00	7,829.29	23.33	138.31	171.86	1,856.25	5,440.01	7,269.62	7,168.59	101.03	71.958		
2,800.00	2,450.68	15,352.00	7,829.29	24.84	138.31	171.86	1,856.25	5,440.01	7,169.86	7,068.83	101.03	70.967		
2,900.00	2,522.81	15,352.00	7,829.29	26.36	138.31	171.86	1,856.25	5,440.01	7,070.11	6,969.07	101.04	69.975		
3,000.00	2,594.93	15,352.00	7,829.29	27.88	138.31	171.86	1,856.25	5,440.01	6,970.36	6,869.31	101.05	68.982		
3,100.00	2,667.06	15,352.00	7,829.29	29.40	138.31	171.86	1,856.25	5,440.01	6,870.62	6,769.57	101.06	67.988		
3,200.00	2,739.18	15,352.00	7,829.29	30.92	138.31	171.86	1,856.25	5,440.01	6,770.89	6,669.82	101.07	66.994		
3,300.00	2,811.31	15,352.00	7,829.29	32.45	138.31	171.86	1,856.25	5,440.01	6,671.17	6,570.09	101.08	65.999		
3,400.00	2,883.43	15,352.00	7,829.29	33.98	138.31	171.86	1,856.25	5,440.01	6,571.45	6,470.36	101.09	65.003		
3,500.00	2,955.56	15,352.00	7,829.29	35.51	138.31	171.86	1,856.25	5,440.01	6,471.75	6,370.64	101.11	64.008		
3,600.00	3,027.68	15,352.00	7,829.29	37.04	138.31	171.86	1,856.25	5,440.01	6,372.05	6,270.93	101.13	63.012		
3,700.00	3,099.81	15,352.00	7,829.29	38.57	138.31	171.86	1,856.25	5,440.01	6,272.37	6,171.22	101.14	62.015		
3,800.00	3,171.93	15,352.00	7,829.29	40.11	138.31	171.86	1,856.25	5,440.01	6,172.69	6,071.53	101.16	61.019		
3,900.00	3,244.06	15,352.00	7,829.29	41.64	138.31	171.86	1,856.25	5,440.01	6,073.02	5,971.85	101.18	60.023		
4,000.00	3,316.18	15,352.00	7,829.29	43.18	138.31	171.86	1,856.25	5,440.01	5,973.37	5,872.17	101.20	59.027		
4,100.00	3,388.31	15,352.00	7,829.29	44.71	138.31	171.86	1,856.25	5,440.01	5,873.73	5,772.51	101.22	58.031		
4,200.00	3,460.43	15,352.00	7,829.29	46.25	138.31	171.86	1,856.25	5,440.01	5,774.10	5,672.86	101.24	57.036		
4,300.00	3,532.56	15,352.00	7,829.29	47.79	138.31	171.86	1,856.25	5,440.01	5,674.48	5,573.22	101.26	56.041		
4,400.00	3,604.68	15,352.00	7,829.29	49.33	138.31	171.86	1,856.25	5,440.01	5,574.87	5,473.60	101.28	55.047		
4,500.00	3,676.81	15,352.00	7,829.29	50.87	138.31	171.86	1,856.25	5,440.01	5,475.29	5,373.99	101.30	54.053		
4,600.00	3,748.93	15,352.00	7,829.29	52.41	138.31	171.86	1,856.25	5,440.01	5,375.71	5,274.40	101.31	53.060		
4,700.00	3,821.06	15,352.00	7,829.29	53.95	138.31	171.86	1,856.25	5,440.01	5,276.15	5,174.82	101.33	52.067		
4,800.00	3,893.18	15,352.00	7,829.29	55.49	138.31	171.86	1,856.25	5,440.01	5,176.61	5,075.26	101.35	51.076		
4,900.00	3,965.31	15,352.00	7,829.29	57.03	138.31	171.86	1,856.25	5,440.01	5,077.09	4,975.72	101.37	50.086		
5,000.00	4,037.43	15,352.00	7,829.29	58.58	138.31	171.86	1,856.25	5,440.01	4,977.58	4,876.20	101.38	49.096		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	15,352.00	7,829.29	60.12	138.31	171.86	1,856.25	5,440.01	4,878.10	4,776.70	101.40	48.108		
5,200.00	4,181.68	15,352.00	7,829.29	61.66	138.31	171.86	1,856.25	5,440.01	4,778.64	4,677.23	101.41	47.121		
5,300.00	4,253.81	15,352.00	7,829.29	63.20	138.31	171.86	1,856.25	5,440.01	4,679.20	4,577.78	101.42	46.135		
5,400.00	4,325.93	15,352.00	7,829.29	64.75	138.31	171.86	1,856.25	5,440.01	4,579.79	4,478.35	101.43	45.150		
5,500.00	4,398.06	15,352.00	7,829.29	66.29	138.31	171.86	1,856.25	5,440.01	4,480.40	4,378.96	101.44	44.167		
5,600.00	4,470.18	15,352.00	7,829.29	67.84	138.31	171.86	1,856.25	5,440.01	4,381.04	4,279.59	101.45	43.186		
5,700.00	4,542.31	15,352.00	7,829.29	69.38	138.31	171.86	1,856.25	5,440.01	4,281.71	4,180.26	101.45	42.206		
5,800.00	4,614.43	15,352.00	7,829.29	70.92	138.31	171.86	1,856.25	5,440.01	4,182.41	4,080.96	101.45	41.227		
5,900.00	4,686.56	15,352.00	7,829.29	72.47	138.31	171.86	1,856.25	5,440.01	4,083.14	3,981.70	101.44	40.250		
6,000.00	4,758.68	15,352.00	7,829.29	74.01	138.31	171.86	1,856.25	5,440.01	3,983.91	3,882.48	101.44	39.275		
6,100.00	4,830.81	15,352.00	7,829.29	75.56	138.31	171.86	1,856.25	5,440.01	3,884.72	3,783.30	101.42	38.302		
6,200.00	4,902.93	15,352.00	7,829.29	77.10	138.31	171.86	1,856.25	5,440.01	3,785.58	3,684.17	101.41	37.330		
6,300.00	4,975.06	15,352.00	7,829.29	78.65	138.31	171.86	1,856.25	5,440.01	3,686.48	3,585.09	101.39	36.360		
6,400.00	5,047.18	15,352.00	7,829.29	80.19	138.31	171.86	1,856.25	5,440.01	3,587.43	3,486.07	101.36	35.393		
6,500.00	5,119.31	15,352.00	7,829.29	81.74	138.31	171.86	1,856.25	5,440.01	3,488.43	3,387.10	101.33	34.427		
6,600.00	5,191.43	15,352.00	7,829.29	83.28	138.31	171.86	1,856.25	5,440.01	3,389.50	3,288.21	101.29	33.463		
6,700.00	5,263.56	15,352.00	7,829.29	84.83	138.31	171.86	1,856.25	5,440.01	3,290.62	3,189.38	101.24	32.502		
6,800.00	5,335.68	15,352.00	7,829.29	86.37	138.31	171.86	1,856.25	5,440.01	3,191.82	3,090.63	101.19	31.542		
6,900.00	5,407.81	15,352.00	7,829.29	87.92	138.31	171.86	1,856.25	5,440.01	3,093.10	2,991.97	101.13	30.585		
7,000.00	5,479.93	15,352.00	7,829.29	89.47	138.31	171.86	1,856.25	5,440.01	2,994.46	2,893.40	101.06	29.630		
7,100.00	5,552.06	15,352.00	7,829.29	91.01	138.31	171.86	1,856.25	5,440.01	2,895.91	2,794.93	100.98	28.678		
7,200.00	5,624.18	15,352.00	7,829.29	92.56	138.31	171.86	1,856.25	5,440.01	2,797.47	2,696.58	100.89	27.728		
7,300.00	5,696.31	15,352.00	7,829.29	94.10	138.31	171.86	1,856.25	5,440.01	2,699.14	2,598.35	100.79	26.780		
7,400.00	5,768.43	15,352.00	7,829.29	95.65	138.31	171.86	1,856.25	5,440.01	2,600.93	2,500.26	100.67	25.835		
7,500.00	5,840.56	15,352.00	7,829.29	97.20	138.31	171.86	1,856.25	5,440.01	2,502.87	2,402.33	100.55	24.893		
7,600.00	5,912.68	15,352.00	7,829.29	98.74	138.31	171.86	1,856.25	5,440.01	2,404.97	2,304.57	100.40	23.953		
7,700.00	5,984.81	15,352.00	7,829.29	100.29	138.31	171.86	1,856.25	5,440.01	2,307.25	2,207.01	100.25	23.016		
7,800.00	6,056.93	15,352.00	7,829.29	101.84	138.31	171.86	1,856.25	5,440.01	2,209.74	2,109.67	100.07	22.082		
7,900.00	6,129.06	15,352.00	7,829.29	103.38	138.31	171.86	1,856.25	5,440.01	2,112.45	2,012.58	99.88	21.150		
8,000.00	6,201.18	15,352.00	7,829.29	104.93	138.31	171.86	1,856.25	5,440.01	2,015.44	1,915.77	99.66	20.222		
8,100.00	6,273.31	15,352.00	7,829.29	106.48	138.31	171.86	1,856.25	5,440.01	1,918.72	1,819.30	99.43	19.297		
8,200.00	6,345.43	15,352.00	7,829.29	108.02	138.31	171.86	1,856.25	5,440.01	1,822.37	1,723.20	99.17	18.376		
8,300.00	6,417.56	15,352.00	7,829.29	109.57	138.31	171.86	1,856.25	5,440.01	1,726.43	1,627.54	98.89	17.458		
8,400.00	6,489.68	15,352.00	7,829.29	111.12	138.31	171.86	1,856.25	5,440.01	1,630.97	1,532.39	98.58	16.544		
8,500.00	6,561.81	15,352.00	7,829.29	112.66	138.31	171.86	1,856.25	5,440.01	1,536.10	1,437.84	98.25	15.634		
8,600.00	6,633.93	15,352.00	7,829.29	114.21	138.31	171.86	1,856.25	5,440.01	1,441.91	1,344.02	97.90	14.729		
8,700.00	6,706.06	15,352.00	7,829.29	115.76	138.31	171.86	1,856.25	5,440.01	1,348.57	1,251.04	97.52	13.828		
8,800.00	6,778.18	15,352.00	7,829.29	117.30	138.31	171.86	1,856.25	5,440.01	1,256.25	1,159.10	97.14	12.932		
8,900.00	6,850.31	15,352.00	7,829.29	118.85	138.31	171.86	1,856.25	5,440.01	1,165.19	1,068.42	96.77	12.041		
9,000.00	6,922.43	15,352.00	7,829.29	120.40	138.31	171.86	1,856.25	5,440.01	1,075.73	979.28	96.45	11.153		
9,100.00	6,994.56	15,342.27	7,829.08	121.95	138.14	172.87	1,865.97	5,440.02	988.24	892.55	95.69	10.328		
9,200.00	7,066.68	15,320.66	7,828.60	123.49	137.76	175.16	1,887.58	5,440.03	902.91	808.40	94.52	9.553		
9,300.00	7,138.81	15,299.05	7,828.12	125.04	137.39	177.51	1,909.19	5,440.05	820.34	726.39	93.95	8.731		
9,392.50	7,205.52	15,279.86	7,827.70	126.47	137.06	179.66	1,928.37	5,440.08	747.21	652.71	94.50	7.907		
9,400.00	7,210.94	15,278.34	7,827.67	126.59	137.03	179.95	1,929.90	5,440.09	741.43	646.83	94.61	7.837		
9,450.00	7,247.42	15,270.47	7,827.50	127.35	136.89	-178.60	1,937.76	5,440.12	703.39	607.70	95.69	7.351		
9,500.00	7,284.35	15,266.70	7,827.42	128.10	136.83	-178.12	1,941.53	5,440.14	666.48	568.94	97.53	6.833		
9,550.00	7,321.43	15,267.13	7,827.43	128.83	136.84	-178.75	1,941.09	5,440.14	631.30	530.93	100.37	6.290		
9,600.00	7,358.38	15,271.87	7,827.53	129.52	136.92	179.56	1,936.36	5,440.12	598.42	494.03	104.39	5.733		
9,650.00	7,394.93	15,280.95	7,827.72	130.16	137.08	176.92	1,927.28	5,440.08	568.42	458.71	109.71	5.181		
9,700.00	7,430.79	15,301.61	7,828.01	130.76	137.43	173.50	1,913.85	5,440.05	541.79	425.41	116.39	4.655		
9,750.00	7,465.70	15,312.18	7,828.41	131.30	137.62	169.47	1,896.06	5,440.05	518.95	394.91	124.04	4.184		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	15,333.84	7,828.89	131.78	137.99	164.99	1,874.41	5,440.02	500.15	367.59	132.56	3.773		
9,850.00	7,531.58	15,352.00	7,829.29	132.21	138.31	160.92	1,856.25	5,440.01	485.56	343.60	141.96	3.420		
9,900.00	7,562.06	15,352.00	7,829.29	132.57	138.31	158.59	1,856.25	5,440.01	476.31	322.94	153.36	3.106		
9,950.00	7,590.58	15,352.00	7,829.29	132.87	138.31	156.06	1,856.25	5,440.01	473.12	308.05	165.08	2.866		
9,950.60	7,590.91	15,352.00	7,829.29	132.87	138.31	156.03	1,856.25	5,440.01	473.12	307.91	165.21	2.864 CC		
10,000.00	7,616.93	15,352.00	7,829.29	133.11	138.31	153.32	1,856.25	5,440.01	476.16	299.90	176.26	2.701		
10,050.00	7,640.90	15,352.00	7,829.29	133.29	138.31	150.32	1,856.25	5,440.01	485.27	299.09	186.18	2.606 ES		
10,100.00	7,662.32	15,352.00	7,829.29	133.42	138.31	147.03	1,856.25	5,440.01	500.07	305.72	194.35	2.573 SF		
10,150.00	7,681.01	15,352.00	7,829.29	133.50	138.31	143.43	1,856.25	5,440.01	519.95	319.37	200.58	2.592		
10,200.00	7,696.85	15,352.00	7,829.29	133.52	138.31	139.48	1,856.25	5,440.01	544.22	339.31	204.91	2.656		
10,250.00	7,709.70	15,352.00	7,829.29	133.51	138.31	135.20	1,856.25	5,440.01	572.15	364.60	207.55	2.757		
10,300.00	7,719.47	15,352.00	7,829.29	133.46	138.31	130.58	1,856.25	5,440.01	603.04	394.28	208.76	2.889		
10,350.00	7,726.09	15,352.00	7,829.29	133.37	138.31	125.70	1,856.25	5,440.01	636.23	427.44	208.79	3.047		
10,400.00	7,729.50	15,352.00	7,829.29	133.26	138.31	120.65	1,856.25	5,440.01	671.16	463.26	207.90	3.228		
10,427.79	7,730.00	15,352.00	7,829.29	133.18	138.31	117.82	1,856.25	5,440.01	691.14	484.07	207.07	3.338		
10,500.00	7,730.00	15,352.00	7,829.29	132.98	138.31	117.82	1,856.25	5,440.01	745.12	540.64	204.48	3.644		
10,600.00	7,730.00	15,352.00	7,829.29	132.72	138.31	117.82	1,856.25	5,440.01	824.50	623.90	200.61	4.110		
10,700.00	7,730.00	15,352.00	7,829.29	132.47	138.31	117.82	1,856.25	5,440.01	907.97	711.19	196.77	4.614		
10,800.00	7,730.00	15,352.00	7,829.29	132.22	138.31	117.82	1,856.25	5,440.01	994.49	801.31	193.18	5.148		
10,900.00	7,730.00	15,352.00	7,829.29	131.99	138.31	117.82	1,856.25	5,440.01	1,083.33	893.43	189.90	5.705		
11,000.00	7,730.00	15,352.00	7,829.29	131.77	138.31	117.82	1,856.25	5,440.01	1,173.97	987.01	186.96	6.279		
11,100.00	7,730.00	15,352.00	7,829.29	131.56	138.31	117.82	1,856.25	5,440.01	1,266.02	1,081.69	184.33	6.868		
11,200.00	7,730.00	15,352.00	7,829.29	131.36	138.31	117.82	1,856.25	5,440.01	1,359.19	1,177.20	182.00	7.468		
11,300.00	7,730.00	15,352.00	7,829.29	131.17	138.31	117.82	1,856.25	5,440.01	1,453.27	1,273.35	179.92	8.077		
11,400.00	7,730.00	15,352.00	7,829.29	130.99	138.31	117.82	1,856.25	5,440.01	1,548.10	1,370.03	178.07	8.694		
11,500.00	7,730.00	15,352.00	7,829.29	130.82	138.31	117.82	1,856.25	5,440.01	1,643.53	1,467.11	176.42	9.316		
11,600.00	7,730.00	15,352.00	7,829.29	130.66	138.31	117.82	1,856.25	5,440.01	1,739.48	1,564.54	174.95	9.943		
11,700.00	7,730.00	15,352.00	7,829.29	130.51	138.31	117.82	1,856.25	5,440.01	1,835.87	1,662.24	173.62	10.574		
11,800.00	7,730.00	15,352.00	7,829.29	130.37	138.31	117.82	1,856.25	5,440.01	1,932.62	1,760.18	172.43	11.208		
11,900.00	7,730.00	15,352.00	7,829.29	130.24	138.31	117.82	1,856.25	5,440.01	2,029.68	1,858.32	171.36	11.844		
12,000.00	7,730.00	15,352.00	7,829.29	130.13	138.31	117.82	1,856.25	5,440.01	2,127.02	1,956.63	170.39	12.483		
12,100.00	7,730.00	15,352.00	7,829.29	130.02	138.31	117.82	1,856.25	5,440.01	2,224.59	2,055.08	169.51	13.123		
12,200.00	7,730.00	15,352.00	7,829.29	129.93	138.31	117.82	1,856.25	5,440.01	2,322.37	2,153.66	168.71	13.765		
12,300.00	7,730.00	15,352.00	7,829.29	129.85	138.31	117.82	1,856.25	5,440.01	2,420.33	2,252.35	167.98	14.408		
12,400.00	7,730.00	15,352.00	7,829.29	129.77	138.31	117.82	1,856.25	5,440.01	2,518.45	2,351.14	167.32	15.052		
12,500.00	7,730.00	15,352.00	7,829.29	129.71	138.31	117.82	1,856.25	5,440.01	2,616.72	2,450.01	166.71	15.697		
12,600.00	7,730.00	15,352.00	7,829.29	129.66	138.31	117.82	1,856.25	5,440.01	2,715.11	2,548.96	166.15	16.342		
12,700.00	7,730.00	15,352.00	7,829.29	129.63	138.31	117.82	1,856.25	5,440.01	2,813.61	2,647.98	165.63	16.988		
12,800.00	7,730.00	15,352.00	7,829.29	129.60	138.31	117.82	1,856.25	5,440.01	2,912.22	2,747.07	165.15	17.634		
12,900.00	7,730.00	15,352.00	7,829.29	129.59	138.31	117.82	1,856.25	5,440.01	3,010.92	2,846.21	164.71	18.280		
13,000.00	7,730.00	15,352.00	7,829.29	129.59	138.31	117.82	1,856.25	5,440.01	3,109.70	2,945.40	164.30	18.927		
13,100.00	7,730.00	15,352.00	7,829.29	129.60	138.31	117.82	1,856.25	5,440.01	3,208.55	3,044.63	163.92	19.574		
13,200.00	7,730.00	15,352.00	7,829.29	129.63	138.31	117.82	1,856.25	5,440.01	3,307.48	3,143.91	163.57	20.221		
13,300.00	7,730.00	15,352.00	7,829.29	129.66	138.31	117.82	1,856.25	5,440.01	3,406.47	3,243.23	163.24	20.868		
13,400.00	7,730.00	15,352.00	7,829.29	129.72	138.31	117.82	1,856.25	5,440.01	3,505.51	3,342.58	162.93	21.516		
13,500.00	7,730.00	15,352.00	7,829.29	129.78	138.31	117.82	1,856.25	5,440.01	3,604.61	3,441.97	162.64	22.163		
13,600.00	7,730.00	15,352.00	7,829.29	129.86	138.31	117.82	1,856.25	5,440.01	3,703.76	3,541.38	162.37	22.810		
13,700.00	7,730.00	15,352.00	7,829.29	129.96	138.31	117.82	1,856.25	5,440.01	3,802.95	3,640.83	162.12	23.458		
13,800.00	7,730.00	15,352.00	7,829.29	130.07	138.31	117.82	1,856.25	5,440.01	3,902.18	3,740.30	161.88	24.105		
13,900.00	7,730.00	15,352.00	7,829.29	130.19	138.31	117.82	1,856.25	5,440.01	4,001.45	3,839.79	161.66	24.752		
14,000.00	7,730.00	15,352.00	7,829.29	130.33	138.31	117.82	1,856.25	5,440.01	4,100.76	3,939.31	161.45	25.399		
14,100.00	7,730.00	15,352.00	7,829.29	130.49	138.31	117.82	1,856.25	5,440.01	4,200.10	4,038.84	161.25	26.046		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,352.00	7,829.29	130.67	138.31	117.82	1,856.25	5,440.01	4,299.47	4,138.40	161.07	26.694		
14,300.00	7,730.00	15,352.00	7,829.29	130.86	138.31	117.82	1,856.25	5,440.01	4,398.87	4,237.97	160.89	27.340		
14,400.00	7,730.00	15,352.00	7,829.29	131.07	138.31	117.82	1,856.25	5,440.01	4,498.29	4,337.56	160.73	27.987		
14,500.00	7,730.00	15,352.00	7,829.29	131.30	138.31	117.82	1,856.25	5,440.01	4,597.74	4,437.17	160.57	28.634		
14,600.00	7,730.00	15,352.00	7,829.29	131.55	138.31	117.82	1,856.25	5,440.01	4,697.21	4,536.79	160.42	29.281		
14,700.00	7,730.00	15,352.00	7,829.29	131.82	138.31	117.82	1,856.25	5,440.01	4,796.71	4,636.43	160.28	29.927		
14,800.00	7,730.00	15,352.00	7,829.29	132.11	138.31	117.82	1,856.25	5,440.01	4,896.22	4,736.08	160.14	30.574		
14,900.00	7,730.00	15,352.00	7,829.29	132.42	138.31	117.82	1,856.25	5,440.01	4,995.76	4,835.74	160.02	31.220		
15,000.00	7,730.00	15,352.00	7,829.29	132.75	138.31	117.82	1,856.25	5,440.01	5,095.31	4,935.42	159.90	31.866		
15,100.00	7,730.00	15,352.00	7,829.29	133.10	138.31	117.82	1,856.25	5,440.01	5,194.88	5,035.10	159.78	32.512		
15,200.00	7,730.00	15,352.00	7,829.29	133.48	138.31	117.82	1,856.25	5,440.01	5,294.47	5,134.80	159.67	33.158		
15,300.00	7,730.00	15,352.00	7,829.29	133.88	138.31	117.82	1,856.25	5,440.01	5,394.07	5,234.50	159.57	33.804		
15,400.00	7,730.00	15,352.00	7,829.29	134.31	138.31	117.82	1,856.25	5,440.01	5,493.69	5,334.22	159.47	34.450		
15,500.00	7,730.00	15,352.00	7,829.29	134.76	138.31	117.82	1,856.25	5,440.01	5,593.32	5,433.94	159.38	35.095		
15,600.00	7,730.00	15,352.00	7,829.29	135.23	138.31	117.82	1,856.25	5,440.01	5,692.96	5,533.68	159.29	35.740		
15,700.00	7,730.00	15,352.00	7,829.29	135.73	138.31	117.82	1,856.25	5,440.01	5,792.62	5,633.42	159.20	36.386		
15,800.00	7,730.00	15,352.00	7,829.29	136.26	138.31	117.82	1,856.25	5,440.01	5,892.28	5,733.17	159.12	37.031		
15,900.00	7,730.00	15,352.00	7,829.29	136.81	138.31	117.82	1,856.25	5,440.01	5,991.96	5,832.92	159.04	37.676		
16,000.00	7,730.00	15,352.00	7,829.29	137.39	138.31	117.82	1,856.25	5,440.01	6,091.65	5,932.68	158.97	38.320		
16,100.00	7,730.00	15,352.00	7,829.29	138.00	138.31	117.82	1,856.25	5,440.01	6,191.35	6,032.45	158.90	38.965		
16,200.00	7,730.00	15,352.00	7,829.29	138.63	138.31	117.82	1,856.25	5,440.01	6,291.06	6,132.23	158.83	39.609		
16,300.00	7,730.00	15,352.00	7,829.29	139.30	138.31	117.82	1,856.25	5,440.01	6,390.78	6,232.01	158.76	40.253		
16,400.00	7,730.00	15,352.00	7,829.29	139.99	138.31	117.82	1,856.25	5,440.01	6,490.50	6,331.80	158.70	40.897		
16,500.00	7,730.00	15,352.00	7,829.29	140.70	138.31	117.82	1,856.25	5,440.01	6,590.24	6,431.59	158.64	41.541		
16,600.00	7,730.00	15,352.00	7,829.29	141.45	138.31	117.82	1,856.25	5,440.01	6,689.98	6,531.39	158.59	42.185		
16,700.00	7,730.00	15,352.00	7,829.29	142.22	138.31	117.82	1,856.25	5,440.01	6,789.73	6,631.20	158.53	42.829		
16,800.00	7,730.00	15,352.00	7,829.29	143.03	138.31	117.82	1,856.25	5,440.01	6,889.49	6,731.01	158.48	43.472		
16,900.00	7,730.00	15,352.00	7,829.29	143.86	138.31	117.82	1,856.25	5,440.01	6,989.25	6,830.82	158.43	44.115		
17,000.00	7,730.00	15,352.00	7,829.29	144.71	138.31	117.82	1,856.25	5,440.01	7,089.02	6,930.64	158.38	44.758		
17,100.00	7,730.00	15,352.00	7,829.29	145.60	138.31	117.82	1,856.25	5,440.01	7,188.80	7,030.46	158.34	45.401		
17,200.00	7,730.00	15,352.00	7,829.29	146.51	138.31	117.82	1,856.25	5,440.01	7,288.58	7,130.29	158.30	46.044		
17,300.00	7,730.00	15,352.00	7,829.29	147.44	138.31	117.82	1,856.25	5,440.01	7,388.37	7,230.12	158.26	46.686		
17,400.00	7,730.00	15,352.00	7,829.29	148.40	138.31	117.82	1,856.25	5,440.01	7,488.17	7,329.95	158.22	47.329		
17,500.00	7,730.00	15,352.00	7,829.29	149.39	138.31	117.82	1,856.25	5,440.01	7,587.97	7,429.79	158.18	47.971		
17,600.00	7,730.00	15,352.00	7,829.29	150.40	138.31	117.82	1,856.25	5,440.01	7,687.77	7,529.63	158.14	48.613		
17,700.00	7,730.00	15,352.00	7,829.29	151.44	138.31	117.82	1,856.25	5,440.01	7,787.58	7,629.47	158.11	49.254		
17,800.00	7,730.00	15,352.00	7,829.29	152.50	138.31	117.82	1,856.25	5,440.01	7,887.40	7,729.32	158.08	49.896		
17,900.00	7,730.00	15,352.00	7,829.29	153.58	138.31	117.82	1,856.25	5,440.01	7,987.22	7,829.17	158.05	50.537		
18,000.00	7,730.00	15,352.00	7,829.29	154.68	138.31	117.82	1,856.25	5,440.01	8,087.04	7,929.02	158.02	51.178		
18,100.00	7,730.00	15,352.00	7,829.29	155.80	138.31	117.82	1,856.25	5,440.01	8,186.87	8,028.88	157.99	51.819		
18,200.00	7,730.00	15,352.00	7,829.29	156.95	138.31	117.82	1,856.25	5,440.01	8,286.70	8,128.74	157.96	52.460		
18,300.00	7,730.00	15,352.00	7,829.29	158.11	138.31	117.82	1,856.25	5,440.01	8,386.54	8,228.60	157.94	53.101		
18,400.00	7,730.00	15,352.00	7,829.29	159.30	138.31	117.82	1,856.25	5,440.01	8,486.38	8,328.47	157.91	53.741		
18,500.00	7,730.00	15,352.00	7,829.29	160.50	138.31	117.82	1,856.25	5,440.01	8,586.22	8,428.33	157.89	54.381		
18,600.00	7,730.00	15,352.00	7,829.29	161.72	138.31	117.82	1,856.25	5,440.01	8,686.07	8,528.20	157.87	55.021		
18,700.00	7,730.00	15,352.00	7,829.29	162.96	138.31	117.82	1,856.25	5,440.01	8,785.92	8,628.07	157.85	55.661		
18,800.00	7,730.00	15,352.00	7,829.29	164.21	138.31	117.82	1,856.25	5,440.01	8,885.78	8,727.95	157.83	56.300		
18,900.00	7,730.00	15,352.00	7,829.29	165.48	138.31	117.82	1,856.25	5,440.01	8,985.63	8,827.82	157.81	56.940		
19,000.00	7,730.00	15,352.00	7,829.29	166.76	138.31	117.82	1,856.25	5,440.01	9,085.50	8,927.70	157.79	57.579		
19,100.00	7,730.00	15,352.00	7,829.29	168.06	138.31	117.82	1,856.25	5,440.01	9,185.36	9,027.58	157.78	58.217		
19,200.00	7,730.00	15,352.00	7,829.29	169.38	138.31	117.82	1,856.25	5,440.01	9,285.23	9,127.47	157.76	58.856		
19,300.00	7,730.00	15,352.00	7,829.29	170.70	138.31	117.82	1,856.25	5,440.01	9,385.10	9,227.35	157.75	59.494		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		16-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	15,352.00	7,829.29	172.04	138.31	117.82	1,856.25	5,440.01	9,484.97	9,327.23	157.73	60.133	
19,500.00	7,730.00	15,352.00	7,829.29	173.40	138.31	117.82	1,856.25	5,440.01	9,584.84	9,427.12	157.72	60.771	
19,600.00	7,730.00	15,352.00	7,829.29	174.76	138.31	117.82	1,856.25	5,440.01	9,684.72	9,527.01	157.71	61.408	
19,700.00	7,730.00	15,352.00	7,829.29	176.14	138.31	117.82	1,856.25	5,440.01	9,784.60	9,626.90	157.70	62.046	
19,800.00	7,730.00	15,352.00	7,829.29	177.52	138.31	117.82	1,856.25	5,440.01	9,884.48	9,726.79	157.69	62.683	
19,900.00	7,730.00	15,352.00	7,829.29	178.92	138.31	117.82	1,856.25	5,440.01	9,984.37	9,826.69	157.68	63.320	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	57.98	2,114.56	3,381.30	3,988.23					
100.00	100.00	52.11	52.11	0.13	0.10	57.98	2,114.56	3,381.35	3,988.11	3,987.88	0.23	N/A		
200.00	199.98	125.00	125.00	0.49	0.36	-12.48	2,114.58	3,381.89	3,987.04	3,986.19	0.85	4,690.862		
300.00	299.84	204.96	204.95	0.86	0.65	-12.50	2,114.89	3,382.85	3,983.15	3,981.65	1.50	2,656.157		
400.00	399.45	307.78	307.76	1.23	1.01	-12.56	2,115.72	3,384.12	3,976.12	3,973.88	2.24	1,777.988		
500.00	498.70	443.78	443.75	1.63	1.50	-12.65	2,115.57	3,385.63	3,965.08	3,961.99	3.10	1,281.029		
600.00	597.47	537.79	537.75	2.05	1.83	-12.75	2,114.89	3,386.63	3,950.32	3,946.51	3.81	1,037.970		
700.00	695.62	631.64	631.60	2.51	2.16	-12.88	2,114.75	3,387.45	3,932.35	3,927.83	4.52	869.562		
800.00	793.06	770.37	770.32	3.00	2.64	-13.10	2,115.45	3,387.22	3,910.51	3,905.12	5.39	725.918		
900.00	889.64	898.13	898.08	3.53	3.07	-13.33	2,114.85	3,386.45	3,884.54	3,878.32	6.21	625.305		
1,000.00	985.27	984.07	984.01	4.12	3.36	-13.57	2,114.24	3,385.64	3,854.92	3,848.02	6.91	558.240		
1,100.00	1,079.82	1,069.72	1,069.66	4.75	3.66	-13.84	2,114.36	3,384.83	3,822.50	3,814.90	7.61	502.444		
1,200.00	1,173.17	1,175.52	1,175.46	5.44	4.02	-14.19	2,114.51	3,383.70	3,786.84	3,778.45	8.39	451.432		
1,300.00	1,265.21	1,263.40	1,263.32	6.18	4.32	-14.54	2,114.32	3,382.67	3,747.79	3,738.67	9.12	410.957		
1,400.00	1,355.84	1,394.33	1,394.23	6.99	4.78	-15.05	2,114.38	3,379.84	3,704.93	3,694.93	10.00	370.335		
1,500.00	1,444.94	1,442.01	1,441.90	7.87	4.95	-15.43	2,114.40	3,378.98	3,659.48	3,648.86	10.63	344.381		
1,600.00	1,532.39	1,692.26	1,691.81	8.80	5.83	-16.18	2,103.52	3,378.13	3,610.89	3,598.99	11.90	303.453		
1,700.00	1,618.11	1,851.98	1,850.44	9.81	6.40	-16.73	2,085.10	3,377.28	3,554.92	3,542.04	12.88	276.034		
1,800.00	1,701.97	1,923.20	1,920.89	10.89	6.67	-17.20	2,074.61	3,377.95	3,495.98	3,482.38	13.60	257.031		
1,900.00	1,783.88	2,030.10	2,026.22	12.04	7.08	-17.72	2,056.52	3,380.05	3,434.10	3,419.66	14.44	237.820		
2,000.00	1,863.74	2,086.53	2,081.64	13.26	7.31	-18.26	2,046.05	3,381.77	3,369.60	3,354.45	15.15	222.479		
2,100.00	1,941.45	2,143.19	2,137.19	14.55	7.53	-18.85	2,035.10	3,384.07	3,302.94	3,287.08	15.86	208.226		
2,200.00	2,016.92	2,201.00	2,193.86	15.92	7.77	-19.51	2,024.01	3,386.80	3,234.29	3,217.70	16.60	194.860		
2,292.11	2,084.36	2,250.89	2,242.79	17.25	7.98	-20.20	2,014.62	3,389.31	3,169.28	3,152.00	17.28	183.431		
2,300.00	2,090.06	2,255.55	2,247.37	17.36	7.99	-20.20	2,013.75	3,389.55	3,163.63	3,146.29	17.34	182.436		
2,400.00	2,162.18	2,340.36	2,330.64	18.84	8.35	-20.34	1,998.23	3,393.67	3,092.14	3,073.98	18.16	170.261		
2,500.00	2,234.31	2,422.03	2,410.82	20.33	8.69	-20.49	1,983.03	3,396.91	3,019.96	3,000.98	18.98	159.108		
2,600.00	2,306.43	2,476.96	2,464.81	21.83	8.93	-20.60	1,973.16	3,399.04	2,948.01	2,928.26	19.75	149.255		
2,700.00	2,378.56	2,598.57	2,584.17	23.33	9.45	-20.85	1,950.24	3,402.97	2,875.17	2,854.50	20.66	139.135		
2,800.00	2,450.68	2,645.45	2,630.16	24.84	9.66	-20.95	1,941.26	3,404.48	2,802.41	2,780.97	21.44	130.692		
2,900.00	2,522.81	2,693.37	2,677.22	26.36	9.87	-21.06	1,932.40	3,406.26	2,730.19	2,707.95	22.24	122.756		
3,000.00	2,594.93	2,742.25	2,725.28	27.88	10.08	-21.19	1,923.71	3,408.28	2,658.50	2,635.44	23.06	115.293		
3,100.00	2,667.06	2,830.49	2,812.03	29.40	10.47	-21.41	1,908.06	3,412.15	2,587.03	2,563.10	23.94	108.078		
3,200.00	2,739.18	2,902.67	2,882.88	30.92	10.79	-21.60	1,894.59	3,415.12	2,515.01	2,490.21	24.80	101.409		
3,300.00	2,811.31	2,976.75	2,955.71	32.45	11.13	-21.82	1,881.34	3,417.87	2,443.08	2,417.40	25.68	95.146		
3,400.00	2,883.43	3,055.33	3,032.73	33.98	11.48	-22.03	1,866.06	3,421.05	2,370.72	2,344.17	26.56	89.273		
3,500.00	2,955.56	3,106.09	3,082.49	35.51	11.72	-22.18	1,856.28	3,423.27	2,298.65	2,271.20	27.45	83.746		
3,600.00	3,027.68	3,180.55	3,155.61	37.04	12.06	-22.42	1,842.59	3,426.55	2,226.96	2,198.61	28.35	78.554		
3,700.00	3,099.81	3,255.05	3,228.74	38.57	12.39	-22.68	1,828.64	3,429.35	2,154.78	2,125.53	29.26	73.653		
3,800.00	3,171.93	3,310.28	3,283.07	40.11	12.64	-22.92	1,818.95	3,431.26	2,082.94	2,052.73	30.20	68.969		
3,900.00	3,244.06	3,390.17	3,361.75	41.64	13.00	-23.29	1,805.35	3,433.86	2,011.23	1,980.10	31.13	64.608		
4,000.00	3,316.18	3,475.90	3,446.02	43.18	13.40	-23.70	1,789.78	3,436.55	1,939.03	1,906.98	32.05	60.508		
4,100.00	3,388.31	3,543.64	3,512.49	44.71	13.71	-24.04	1,776.92	3,438.58	1,866.43	1,833.42	33.01	56.544		
4,200.00	3,460.43	3,600.55	3,568.51	46.25	13.97	-24.37	1,766.97	3,440.01	1,794.23	1,760.20	34.04	52.714		
4,300.00	3,532.56	3,657.30	3,624.45	47.79	14.22	-24.75	1,757.55	3,441.54	1,722.54	1,687.44	35.10	49.073		
4,400.00	3,604.68	3,719.54	3,685.76	49.33	14.50	-25.18	1,747.12	3,443.81	1,651.37	1,615.19	36.18	45.648		
4,500.00	3,676.81	3,792.19	3,757.29	50.87	14.83	-25.69	1,734.69	3,446.68	1,580.27	1,543.03	37.23	42.443		
4,600.00	3,748.93	3,857.99	3,821.99	52.41	15.13	-26.18	1,723.09	3,449.56	1,509.25	1,470.90	38.35	39.354		
4,700.00	3,821.06	3,955.67	3,917.87	53.95	15.59	-26.95	1,704.97	3,453.93	1,438.04	1,398.76	39.28	36.613		
4,800.00	3,893.18	4,018.61	3,979.64	55.49	15.88	-27.52	1,692.99	3,455.76	1,365.78	1,325.31	40.47	33.749		
4,900.00	3,965.31	4,068.31	4,028.64	57.03	16.11	-28.08	1,684.81	3,457.02	1,294.52	1,252.66	41.86	30.926		
5,000.00	4,037.43	4,129.18	4,088.80	58.58	16.38	-28.87	1,675.72	3,458.70	1,224.20	1,180.94	43.25	28.304		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,211.43	4,170.01	60.12	16.74	-30.02	1,662.99	3,461.54	1,154.24	1,109.73	44.51	25.933		
5,200.00	4,181.68	4,300.99	4,258.17	61.66	17.15	-31.42	1,647.34	3,463.55	1,082.80	1,037.09	45.71	23.689		
5,300.00	4,253.81	4,371.37	4,327.36	63.20	17.48	-32.67	1,634.52	3,464.92	1,011.15	963.94	47.21	21.418		
5,400.00	4,325.93	4,441.06	4,395.73	64.75	17.81	-34.03	1,621.17	3,466.70	939.63	890.81	48.81	19.249		
5,500.00	4,398.06	4,510.40	4,463.66	66.29	18.14	-35.53	1,607.37	3,468.80	868.28	817.73	50.54	17.179		
5,600.00	4,470.18	4,581.62	4,533.42	67.84	18.49	-37.36	1,593.19	3,470.76	797.15	744.73	52.42	15.207		
5,700.00	4,542.31	4,654.23	4,604.52	69.38	18.84	-39.61	1,578.55	3,472.30	726.06	671.57	54.49	13.325		
5,800.00	4,614.43	4,710.70	4,659.90	70.92	19.11	-41.70	1,567.59	3,473.62	656.07	598.76	57.30	11.449		
5,900.00	4,686.56	4,772.41	4,720.54	72.47	19.40	-44.42	1,556.28	3,475.36	587.76	527.29	60.47	9.720		
6,000.00	4,758.68	4,836.49	4,783.64	74.01	19.69	-47.86	1,545.28	3,477.22	521.39	457.18	64.21	8.121		
6,100.00	4,830.81	4,906.47	4,852.56	75.56	20.02	-52.45	1,533.38	3,479.48	457.09	388.58	68.51	6.672		
6,200.00	4,902.93	4,975.40	4,920.42	77.10	20.33	-58.05	1,521.47	3,481.89	395.43	321.62	73.82	5.357		
6,300.00	4,975.06	5,042.67	4,986.70	78.65	20.64	-64.94	1,510.19	3,483.93	338.16	257.71	80.45	4.203		
6,400.00	5,047.18	5,108.57	5,051.75	80.19	20.94	-73.31	1,499.83	3,485.75	288.39	200.02	88.38	3.263		
6,500.00	5,119.31	5,178.70	5,121.04	81.74	21.25	-83.97	1,489.17	3,487.87	250.10	153.91	96.19	2.600		
6,600.00	5,191.43	5,249.59	5,191.02	83.28	21.57	-96.15	1,478.22	3,490.59	228.13	126.91	101.22	2.254		
6,655.07	5,231.15	5,288.84	5,229.76	84.13	21.74	-103.22	1,472.12	3,492.32	224.81	123.27	101.53	2.214	CC, ES, SF	
6,700.00	5,263.56	5,320.77	5,261.26	84.83	21.89	-108.97	1,467.13	3,493.80	227.03	126.76	100.27	2.264		
6,800.00	5,335.68	5,390.93	5,330.46	86.37	22.21	-121.11	1,455.97	3,496.84	247.13	153.57	93.56	2.641		
6,900.00	5,407.81	5,457.72	5,396.40	87.92	22.50	-131.33	1,445.64	3,499.37	284.61	199.77	84.85	3.354		
7,000.00	5,479.93	5,525.31	5,463.26	89.47	22.80	-139.87	1,436.03	3,501.49	333.98	256.90	77.08	4.333		
7,100.00	5,552.06	5,593.37	5,530.58	91.01	23.10	-146.89	1,426.08	3,503.14	390.66	319.59	71.06	5.497		
7,200.00	5,624.18	5,666.17	5,602.55	92.56	23.42	-152.90	1,415.29	3,505.05	451.53	384.73	66.81	6.759		
7,300.00	5,696.31	5,739.14	5,674.66	94.10	23.75	-157.70	1,404.42	3,507.49	514.74	450.82	63.93	8.052		
7,400.00	5,768.43	5,809.20	5,743.85	95.65	24.06	-161.45	1,393.75	3,510.14	579.57	517.59	61.98	9.351		
7,500.00	5,840.56	5,876.49	5,810.24	97.20	24.36	-164.47	1,383.03	3,512.46	646.05	585.39	60.66	10.650		
7,600.00	5,912.68	5,949.27	5,882.17	98.74	24.69	-167.11	1,372.22	3,514.89	713.49	653.44	60.05	11.882		
7,700.00	5,984.81	6,019.13	5,951.33	100.29	24.99	-169.17	1,362.60	3,517.25	781.44	721.67	59.77	13.074		
7,800.00	6,056.93	6,089.55	6,020.96	101.84	25.30	-170.98	1,352.32	3,519.66	850.00	790.25	59.75	14.226		
7,900.00	6,129.06	6,161.82	6,092.36	103.38	25.62	-172.60	1,341.51	3,522.34	918.83	858.87	59.97	15.323		
8,000.00	6,201.18	6,233.89	6,163.70	104.93	25.93	-173.93	1,331.58	3,524.93	987.87	927.52	60.34	16.371		
8,100.00	6,273.31	6,302.61	6,231.81	106.48	26.23	-174.99	1,322.83	3,527.22	1,057.12	996.37	60.75	17.402		
8,200.00	6,345.43	6,372.63	6,301.18	108.02	26.53	-175.96	1,313.55	3,529.50	1,126.70	1,065.44	61.26	18.393		
8,300.00	6,417.56	6,446.72	6,374.62	109.57	26.84	-176.85	1,304.04	3,531.94	1,196.34	1,134.41	61.92	19.319		
8,400.00	6,489.68	6,527.31	6,454.68	111.12	27.17	-177.62	1,295.22	3,534.58	1,265.69	1,202.90	62.79	20.158		
8,500.00	6,561.81	6,592.67	6,519.72	112.66	27.43	-178.12	1,289.02	3,536.52	1,335.01	1,271.69	63.32	21.085		
8,600.00	6,633.93	6,655.95	6,582.70	114.21	27.68	-178.54	1,283.16	3,538.02	1,404.75	1,340.93	63.82	22.012		
8,700.00	6,706.06	6,717.35	6,643.85	115.76	27.92	-178.91	1,277.60	3,539.02	1,474.98	1,410.69	64.30	22.940		
8,800.00	6,778.18	6,791.73	6,717.97	117.30	28.20	-179.28	1,271.46	3,539.86	1,545.40	1,480.32	65.08	23.748		
8,900.00	6,850.31	6,873.52	6,799.57	118.85	28.50	-179.58	1,266.07	3,540.67	1,615.55	1,549.54	66.01	24.476		
9,000.00	6,922.43	6,958.46	6,884.42	120.40	28.80	-179.78	1,262.24	3,541.61	1,685.14	1,618.16	66.98	25.158		
9,100.00	6,994.56	7,040.89	6,966.80	121.95	29.07	-179.91	1,259.86	3,542.69	1,754.20	1,686.32	67.88	25.841		
9,200.00	7,066.68	7,123.06	7,048.95	123.49	29.34	-179.99	1,258.44	3,543.85	1,822.93	1,754.16	68.76	26.510		
9,300.00	7,138.81	7,205.60	7,131.48	125.04	29.59	-179.97	1,257.87	3,545.29	1,891.16	1,821.53	69.63	27.160		
9,392.50	7,205.52	7,266.81	7,192.68	126.47	29.77	-179.96	1,258.04	3,546.14	1,954.29	1,884.14	70.15	27.861		
9,400.00	7,210.94	7,271.77	7,197.64	126.59	29.79	-178.53	1,258.07	3,546.19	1,959.41	1,889.22	70.19	27.917		
9,450.00	7,247.42	7,334.89	7,260.74	127.35	29.95	-169.24	1,259.54	3,546.81	1,992.88	1,921.92	70.96	28.083		
9,500.00	7,284.35	7,418.24	7,343.81	128.10	30.16	-160.72	1,265.96	3,547.78	2,024.52	1,952.49	72.03	28.108		
9,550.00	7,321.43	8,453.50	7,907.37	128.83	30.79	-178.26	1,990.59	3,537.71	2,052.31	1,959.23	93.08	22.049		
9,600.00	7,358.38	8,452.60	7,907.32	129.52	30.79	-170.43	1,989.70	3,537.66	2,073.52	1,980.18	93.34	22.215		
9,650.00	7,394.93	8,446.93	7,907.04	130.16	30.78	-162.54	1,984.04	3,537.39	2,095.59	2,002.13	93.47	22.421		
9,700.00	7,430.79	8,436.49	7,906.53	130.76	30.75	-154.74	1,973.63	3,536.90	2,118.29	2,024.83	93.46	22.665		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	8,421.34	7,905.79	131.30	30.72	147.16	1,958.51	3,536.20	2,141.37	2,048.04	93.33	22.944		
9,800.00	7,499.38	8,401.58	7,904.83	131.78	30.68	139.92	1,938.79	3,535.29	2,164.55	2,071.48	93.08	23.256		
9,850.00	7,531.58	8,850.00	7,902.52	132.21	32.73	132.57	1,893.28	3,533.41	2,187.50	2,093.25	94.25	23.209		
9,900.00	7,562.06	7,957.19	7,804.07	132.57	30.53	117.15	1,512.14	3,538.87	2,208.58	2,128.15	80.43	27.461		
9,950.00	7,590.58	7,941.34	7,795.31	132.87	30.54	112.24	1,498.95	3,539.58	2,226.32	2,145.90	80.42	27.682		
10,000.00	7,616.93	7,927.22	7,787.11	133.11	30.55	107.95	1,487.47	3,540.14	2,242.85	2,162.34	80.52	27.856		
10,050.00	7,640.90	7,912.57	7,778.20	133.29	30.55	104.16	1,475.86	3,540.65	2,258.03	2,177.38	80.66	27.996		
10,100.00	7,662.32	7,897.60	7,768.67	133.42	30.56	100.88	1,464.32	3,541.08	2,271.74	2,190.88	80.86	28.094		
10,150.00	7,681.01	7,882.46	7,758.62	133.50	30.56	98.06	1,453.01	3,541.43	2,283.86	2,202.72	81.14	28.147		
10,200.00	7,696.85	7,867.25	7,748.11	133.52	30.57	95.70	1,442.01	3,541.69	2,294.28	2,212.78	81.50	28.150		
10,250.00	7,709.70	7,857.00	7,740.82	133.51	30.58	93.86	1,434.81	3,541.83	2,302.92	2,220.83	82.09	28.052		
10,300.00	7,719.47	10,300.00	7,689.80	133.46	31.36	91.21	1,392.54	3,542.63	2,309.55	2,227.79	81.76	28.248		
10,350.00	7,726.09	7,754.20	7,659.88	133.37	30.57	89.64	1,371.75	3,543.34	2,313.92	2,232.59	81.33	28.450		
10,400.00	7,729.50	7,702.85	7,615.21	133.26	30.55	88.12	1,346.49	3,544.95	2,315.82	2,234.69	81.13	28.544		
10,427.79	7,730.00	7,691.41	7,604.99	133.18	30.54	87.82	1,341.37	3,545.37	2,315.91	2,234.41	81.50	28.414		
10,452.57	7,730.00	7,681.50	7,596.07	133.11	30.53	87.60	1,337.08	3,545.73	2,315.80	2,233.93	81.87	28.287		
10,500.00	7,730.00	7,664.10	7,580.25	132.98	30.52	87.21	1,329.87	3,546.37	2,316.21	2,233.59	82.62	28.033		
10,600.00	7,730.00	7,646.48	7,564.05	132.72	30.50	86.81	1,322.94	3,546.94	2,319.94	2,235.12	84.82	27.351		
10,700.00	7,730.00	7,631.77	7,550.43	132.47	30.49	86.47	1,317.42	3,547.30	2,327.70	2,240.49	87.21	26.691		
10,800.00	7,730.00	7,614.00	7,533.83	132.22	30.47	86.06	1,311.06	3,547.56	2,339.51	2,249.91	89.60	26.110		
10,900.00	7,730.00	7,614.00	7,533.83	131.99	30.47	86.06	1,311.06	3,547.56	2,355.33	2,262.87	92.46	25.474		
11,000.00	7,730.00	7,589.34	7,510.58	131.77	30.45	85.49	1,302.85	3,547.73	2,374.96	2,280.23	94.73	25.071		
11,100.00	7,730.00	7,567.00	7,489.30	131.56	30.42	84.96	1,296.05	3,547.73	2,398.52	2,301.47	97.05	24.715		
11,200.00	7,730.00	7,567.00	7,489.30	131.36	30.42	84.96	1,296.05	3,547.73	2,425.73	2,325.93	99.81	24.304		
11,300.00	7,730.00	7,549.00	7,472.02	131.17	30.39	84.54	1,291.01	3,547.68	2,456.59	2,354.48	102.11	24.059		
11,400.00	7,730.00	7,535.85	7,459.32	130.99	30.37	84.23	1,287.58	3,547.66	2,490.94	2,386.51	104.43	23.854		
11,500.00	7,730.00	7,520.00	7,443.95	130.82	30.35	83.85	1,283.73	3,547.65	2,528.65	2,422.05	106.60	23.721		
11,600.00	7,730.00	7,520.00	7,443.95	130.66	30.35	83.85	1,283.73	3,547.65	2,569.61	2,460.66	108.96	23.584		
11,700.00	7,730.00	7,502.08	7,426.49	130.51	30.32	83.42	1,279.74	3,547.67	2,613.63	2,502.76	110.87	23.573		
11,800.00	7,730.00	7,492.55	7,417.16	130.37	30.30	83.20	1,277.78	3,547.70	2,660.61	2,547.79	112.82	23.582		
11,900.00	7,730.00	7,473.00	7,397.96	130.24	30.27	82.73	1,274.10	3,547.83	2,710.46	2,595.96	114.50	23.671		
12,000.00	7,730.00	7,473.00	7,397.96	130.13	30.27	82.73	1,274.10	3,547.83	2,762.88	2,646.51	116.37	23.743		
12,100.00	7,730.00	7,473.00	7,397.96	130.02	30.27	82.73	1,274.10	3,547.83	2,817.87	2,699.77	118.10	23.860		
12,200.00	7,730.00	7,473.00	7,397.96	129.93	30.27	82.73	1,274.10	3,547.83	2,875.29	2,755.57	119.72	24.017		
12,300.00	7,730.00	7,473.00	7,397.96	129.85	30.27	82.73	1,274.10	3,547.83	2,934.99	2,813.78	121.22	24.213		
12,400.00	7,730.00	7,456.36	7,381.56	129.77	30.24	82.33	1,271.30	3,547.92	2,996.67	2,874.27	122.40	24.484		
12,500.00	7,730.00	7,452.22	7,377.47	129.71	30.23	82.23	1,270.65	3,547.93	3,060.44	2,936.80	123.64	24.753		
12,600.00	7,730.00	7,448.29	7,373.58	129.66	30.22	82.13	1,270.05	3,547.93	3,126.09	3,001.30	124.79	25.051		
12,700.00	7,730.00	7,444.55	7,369.89	129.63	30.21	82.04	1,269.49	3,547.93	3,193.50	3,067.65	125.86	25.374		
12,800.00	7,730.00	7,426.00	7,351.51	129.60	30.18	81.60	1,266.92	3,547.84	3,262.71	3,136.03	126.68	25.755		
12,900.00	7,730.00	7,426.00	7,351.51	129.59	30.18	81.60	1,266.92	3,547.84	3,333.28	3,205.65	127.63	26.116		
13,000.00	7,730.00	7,426.00	7,351.51	129.59	30.18	81.60	1,266.92	3,547.84	3,405.32	3,276.81	128.51	26.498		
13,100.00	7,730.00	7,426.00	7,351.51	129.60	30.18	81.60	1,266.92	3,547.84	3,478.75	3,349.42	129.32	26.900		
13,200.00	7,730.00	7,426.00	7,351.51	129.63	30.18	81.60	1,266.92	3,547.84	3,553.47	3,423.40	130.07	27.320		
13,300.00	7,730.00	7,426.00	7,351.51	129.66	30.18	81.60	1,266.92	3,547.84	3,629.41	3,498.65	130.76	27.756		
13,400.00	7,730.00	7,426.00	7,351.51	129.72	30.18	81.60	1,266.92	3,547.84	3,706.49	3,575.09	131.39	28.209		
13,500.00	7,730.00	7,426.00	7,351.51	129.78	30.18	81.60	1,266.92	3,547.84	3,784.64	3,652.66	131.98	28.676		
13,600.00	7,730.00	7,426.00	7,351.51	129.86	30.18	81.60	1,266.92	3,547.84	3,863.80	3,731.28	132.52	29.156		
13,700.00	7,730.00	7,426.00	7,351.51	129.96	30.18	81.60	1,266.92	3,547.84	3,943.91	3,810.89	133.02	29.649		
13,800.00	7,730.00	7,426.00	7,351.51	130.07	30.18	81.60	1,266.92	3,547.84	4,024.91	3,891.43	133.48	30.154		
13,900.00	7,730.00	7,426.00	7,351.51	130.19	30.18	81.60	1,266.92	3,547.84	4,106.74	3,972.84	133.90	30.669		
14,000.00	7,730.00	7,426.00	7,351.51	130.33	30.18	81.60	1,266.92	3,547.84	4,189.37	4,055.07	134.30	31.195		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,406.79	7,332.44	130.49	30.13	81.13	1,264.66	3,547.67	4,272.50	4,137.98	134.52	31.761		
14,200.00	7,730.00	7,404.89	7,330.55	130.67	30.13	81.09	1,264.46	3,547.65	4,356.51	4,221.67	134.84	32.308		
14,300.00	7,730.00	7,403.06	7,328.73	130.86	30.12	81.04	1,264.27	3,547.63	4,441.19	4,306.04	135.14	32.862		
14,400.00	7,730.00	7,401.30	7,326.98	131.07	30.12	81.00	1,264.10	3,547.62	4,526.48	4,391.06	135.42	33.425		
14,500.00	7,730.00	7,399.62	7,325.30	131.30	30.12	80.96	1,263.93	3,547.60	4,612.37	4,476.69	135.68	33.994		
14,600.00	7,730.00	7,397.99	7,323.69	131.55	30.11	80.92	1,263.77	3,547.58	4,698.81	4,562.89	135.92	34.571		
14,700.00	7,730.00	7,379.00	7,304.77	131.82	30.07	80.47	1,262.15	3,547.35	4,785.97	4,649.93	136.03	35.182		
14,800.00	7,730.00	7,379.00	7,304.77	132.11	30.07	80.47	1,262.15	3,547.35	4,873.39	4,737.14	136.25	35.768		
14,900.00	7,730.00	7,379.00	7,304.77	132.42	30.07	80.47	1,262.15	3,547.35	4,961.30	4,824.85	136.45	36.360		
15,000.00	7,730.00	7,379.00	7,304.77	132.75	30.07	80.47	1,262.15	3,547.35	5,049.65	4,913.02	136.63	36.957		
15,100.00	7,730.00	7,379.00	7,304.77	133.10	30.07	80.47	1,262.15	3,547.35	5,138.43	5,001.62	136.81	37.560		
15,200.00	7,730.00	7,379.00	7,304.77	133.48	30.07	80.47	1,262.15	3,547.35	5,227.62	5,090.65	136.97	38.167		
15,300.00	7,730.00	7,379.00	7,304.77	133.88	30.07	80.47	1,262.15	3,547.35	5,317.19	5,180.07	137.12	38.779		
15,400.00	7,730.00	7,379.00	7,304.77	134.31	30.07	80.47	1,262.15	3,547.35	5,407.12	5,269.87	137.25	39.395		
15,500.00	7,730.00	7,379.00	7,304.77	134.76	30.07	80.47	1,262.15	3,547.35	5,497.41	5,360.03	137.38	40.016		
15,600.00	7,730.00	7,379.00	7,304.77	135.23	30.07	80.47	1,262.15	3,547.35	5,588.02	5,450.52	137.50	40.640		
15,700.00	7,730.00	7,379.00	7,304.77	135.73	30.07	80.47	1,262.15	3,547.35	5,678.95	5,541.34	137.61	41.268		
15,800.00	7,730.00	7,379.00	7,304.77	136.26	30.07	80.47	1,262.15	3,547.35	5,770.18	5,632.47	137.71	41.900		
15,900.00	7,730.00	7,379.00	7,304.77	136.81	30.07	80.47	1,262.15	3,547.35	5,861.70	5,723.89	137.81	42.535		
16,000.00	7,730.00	7,379.00	7,304.77	137.39	30.07	80.47	1,262.15	3,547.35	5,953.49	5,815.59	137.90	43.173		
16,100.00	7,730.00	7,379.00	7,304.77	138.00	30.07	80.47	1,262.15	3,547.35	6,045.53	5,907.55	137.98	43.814		
16,200.00	7,730.00	7,379.00	7,304.77	138.63	30.07	80.47	1,262.15	3,547.35	6,137.83	5,999.77	138.06	44.458		
16,300.00	7,730.00	7,379.00	7,304.77	139.30	30.07	80.47	1,262.15	3,547.35	6,230.37	6,092.24	138.13	45.104		
16,400.00	7,730.00	7,379.00	7,304.77	139.99	30.07	80.47	1,262.15	3,547.35	6,323.13	6,184.93	138.20	45.754		
16,500.00	7,730.00	7,379.00	7,304.77	140.70	30.07	80.47	1,262.15	3,547.35	6,416.11	6,277.85	138.26	46.405		
16,600.00	7,730.00	7,379.00	7,304.77	141.45	30.07	80.47	1,262.15	3,547.35	6,509.30	6,370.98	138.32	47.059		
16,700.00	7,730.00	7,379.00	7,304.77	142.22	30.07	80.47	1,262.15	3,547.35	6,602.69	6,464.31	138.38	47.716		
16,800.00	7,730.00	7,379.00	7,304.77	143.03	30.07	80.47	1,262.15	3,547.35	6,696.27	6,557.84	138.43	48.374		
16,900.00	7,730.00	7,379.00	7,304.77	143.86	30.07	80.47	1,262.15	3,547.35	6,790.03	6,651.56	138.47	49.035		
17,000.00	7,730.00	7,379.00	7,304.77	144.71	30.07	80.47	1,262.15	3,547.35	6,883.97	6,745.45	138.52	49.697		
17,100.00	7,730.00	7,379.00	7,304.77	145.60	30.07	80.47	1,262.15	3,547.35	6,978.07	6,839.51	138.56	50.361		
17,200.00	7,730.00	7,379.00	7,304.77	146.51	30.07	80.47	1,262.15	3,547.35	7,072.34	6,933.74	138.60	51.027		
17,300.00	7,730.00	7,379.00	7,304.77	147.44	30.07	80.47	1,262.15	3,547.35	7,166.76	7,028.13	138.64	51.695		
17,400.00	7,730.00	7,379.00	7,304.77	148.40	30.07	80.47	1,262.15	3,547.35	7,261.34	7,122.67	138.67	52.364		
17,500.00	7,730.00	7,379.00	7,304.77	149.39	30.07	80.47	1,262.15	3,547.35	7,356.05	7,217.35	138.70	53.034		
17,600.00	7,730.00	7,379.00	7,304.77	150.40	30.07	80.47	1,262.15	3,547.35	7,450.91	7,312.17	138.73	53.707		
17,700.00	7,730.00	7,379.00	7,304.77	151.44	30.07	80.47	1,262.15	3,547.35	7,545.89	7,407.13	138.76	54.380		
17,800.00	7,730.00	7,379.00	7,304.77	152.50	30.07	80.47	1,262.15	3,547.35	7,641.01	7,502.22	138.79	55.055		
17,900.00	7,730.00	7,379.00	7,304.77	153.58	30.07	80.47	1,262.15	3,547.35	7,736.25	7,597.43	138.81	55.731		
18,000.00	7,730.00	7,379.00	7,304.77	154.68	30.07	80.47	1,262.15	3,547.35	7,831.60	7,692.77	138.84	56.408		
18,100.00	7,730.00	7,379.00	7,304.77	155.80	30.07	80.47	1,262.15	3,547.35	7,927.08	7,788.22	138.86	57.086		
18,200.00	7,730.00	7,379.00	7,304.77	156.95	30.07	80.47	1,262.15	3,547.35	8,022.66	7,883.78	138.88	57.766		
18,300.00	7,730.00	7,379.00	7,304.77	158.11	30.07	80.47	1,262.15	3,547.35	8,118.35	7,979.44	138.90	58.446		
18,400.00	7,730.00	7,379.00	7,304.77	159.30	30.07	80.47	1,262.15	3,547.35	8,214.14	8,075.21	138.92	59.128		
18,500.00	7,730.00	7,379.00	7,304.77	160.50	30.07	80.47	1,262.15	3,547.35	8,310.03	8,171.09	138.94	59.810		
18,600.00	7,730.00	7,379.00	7,304.77	161.72	30.07	80.47	1,262.15	3,547.35	8,406.01	8,267.06	138.96	60.493		
18,700.00	7,730.00	7,379.00	7,304.77	162.96	30.07	80.47	1,262.15	3,547.35	8,502.09	8,363.12	138.97	61.178		
18,800.00	7,730.00	7,379.00	7,304.77	164.21	30.07	80.47	1,262.15	3,547.35	8,598.26	8,459.27	138.99	61.862		
18,900.00	7,730.00	7,379.00	7,304.77	165.48	30.07	80.47	1,262.15	3,547.35	8,694.51	8,555.51	139.01	62.548		
19,000.00	7,730.00	7,379.00	7,304.77	166.76	30.07	80.47	1,262.15	3,547.35	8,790.85	8,651.83	139.02	63.235		
19,100.00	7,730.00	7,379.00	7,304.77	168.06	30.07	80.47	1,262.15	3,547.35	8,887.27	8,748.24	139.03	63.922		
19,200.00	7,730.00	7,379.00	7,304.77	169.38	30.07	80.47	1,262.15	3,547.35	8,983.77	8,844.72	139.05	64.609		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,379.00	7,304.77	170.70	30.07	80.47	1,262.15	3,547.35	9,080.34	8,941.28	139.06	65.298	
19,400.00	7,730.00	7,379.00	7,304.77	172.04	30.07	80.47	1,262.15	3,547.35	9,176.99	9,037.91	139.07	65.987	
19,500.00	7,730.00	7,379.00	7,304.77	173.40	30.07	80.47	1,262.15	3,547.35	9,273.70	9,134.62	139.09	66.676	
19,600.00	7,730.00	7,379.00	7,304.77	174.76	30.07	80.47	1,262.15	3,547.35	9,370.49	9,231.39	139.10	67.366	
19,700.00	7,730.00	7,379.00	7,304.77	176.14	30.07	80.47	1,262.15	3,547.35	9,467.34	9,328.23	139.11	68.057	
19,800.00	7,730.00	7,379.00	7,304.77	177.52	30.07	80.47	1,262.15	3,547.35	9,564.26	9,425.14	139.12	68.748	
19,900.00	7,730.00	7,379.00	7,304.77	178.92	30.07	80.47	1,262.15	3,547.35	9,661.24	9,522.11	139.13	69.439	
20,000.00	7,730.00	7,379.00	7,304.77	180.33	30.07	80.47	1,262.15	3,547.35	9,758.28	9,619.14	139.14	70.131	
20,100.00	7,730.00	7,379.00	7,304.77	181.75	30.07	80.47	1,262.15	3,547.35	9,855.38	9,716.23	139.15	70.824	
20,184.95	7,730.00	7,338.98	7,264.82	182.96	29.97	79.51	1,259.73	3,546.86	9,937.32	9,798.28	139.04	71.473	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	57.53	2,113.46	3,321.67	3,937.20					
100.00	100.00	53.28	53.28	0.13	0.10	57.53	2,113.45	3,321.71	3,937.08	3,936.84	0.24	N/A		
200.00	199.98	128.49	128.49	0.49	0.37	-12.92	2,113.36	3,322.29	3,935.95	3,935.08	0.86	4,563.563		
300.00	299.84	224.57	224.57	0.86	0.71	-12.95	2,113.50	3,323.25	3,931.77	3,930.20	1.57	2,503.374		
400.00	399.45	312.26	312.25	1.23	1.03	-13.01	2,113.97	3,324.12	3,924.40	3,922.15	2.25	1,742.596		
500.00	498.70	448.60	448.59	1.63	1.51	-13.12	2,114.58	3,324.91	3,913.22	3,910.10	3.11	1,258.052		
600.00	597.47	532.48	532.46	2.05	1.81	-13.24	2,115.33	3,325.00	3,898.53	3,894.75	3.78	1,030.870		
700.00	695.62	659.38	659.35	2.51	2.25	-13.43	2,116.85	3,324.49	3,880.24	3,875.64	4.61	842.030		
800.00	793.06	768.79	768.76	3.00	2.63	-13.64	2,117.45	3,323.84	3,858.14	3,852.77	5.37	717.819		
900.00	889.64	873.65	873.62	3.53	2.99	-13.87	2,117.68	3,323.17	3,832.55	3,826.42	6.13	625.056		
1,000.00	985.27	969.96	969.92	4.12	3.32	-14.13	2,117.75	3,322.41	3,803.51	3,796.65	6.87	554.026		
1,100.00	1,079.82	1,053.85	1,053.80	4.75	3.61	-14.40	2,117.38	3,322.20	3,771.43	3,763.87	7.57	498.526		
1,200.00	1,173.17	1,958.93	1,950.47	5.44	6.95	-15.96	2,056.24	3,246.79	3,729.99	3,719.07	10.92	341.678		
1,300.00	1,265.21	2,018.00	2,008.12	6.18	7.21	-16.41	2,046.42	3,238.38	3,673.38	3,661.85	11.53	318.667		
1,400.00	1,355.84	2,139.70	2,126.63	6.99	7.75	-16.97	2,025.20	3,220.71	3,613.61	3,601.27	12.34	292.900		
1,500.00	1,444.94	2,201.00	2,186.29	7.87	8.03	-17.54	2,014.25	3,211.79	3,550.95	3,537.98	12.97	273.756		
1,600.00	1,532.39	2,243.06	2,227.28	8.80	8.22	-18.13	2,006.90	3,205.91	3,486.26	3,472.70	13.56	257.094		
1,700.00	1,618.11	2,294.00	2,277.02	9.81	8.45	-18.81	1,998.24	3,199.11	3,419.69	3,405.50	14.19	241.070		
1,800.00	1,701.97	2,407.06	2,387.33	10.89	8.97	-19.75	1,978.76	3,183.87	3,350.62	3,335.64	14.99	223.535		
1,900.00	1,783.88	2,550.12	2,526.35	12.04	9.66	-21.00	1,952.90	3,162.14	3,277.82	3,261.96	15.86	206.613		
2,000.00	1,863.74	2,572.00	2,547.55	13.26	9.77	-21.93	1,948.78	3,158.61	3,202.44	3,186.00	16.44	194.795		
2,100.00	1,941.45	2,635.00	2,608.69	14.55	10.08	-23.18	1,937.35	3,148.64	3,125.08	3,107.95	17.13	182.472		
2,200.00	2,016.92	2,668.42	2,641.23	15.92	10.24	-24.42	1,931.69	3,143.57	3,046.54	3,028.78	17.76	171.534		
2,292.11	2,084.36	2,698.44	2,670.53	17.25	10.39	-25.70	1,926.84	3,139.14	2,972.99	2,954.63	18.36	161.921		
2,300.00	2,090.06	2,700.98	2,673.01	17.36	10.40	-25.72	1,926.44	3,138.77	2,966.65	2,948.23	18.42	161.087		
2,400.00	2,162.18	2,761.00	2,731.75	18.84	10.69	-26.25	1,917.47	3,130.31	2,886.75	2,867.62	19.13	150.879		
2,500.00	2,234.31	2,769.28	2,739.87	20.33	10.73	-26.33	1,916.29	3,129.18	2,806.99	2,787.20	19.79	141.845		
2,600.00	2,306.43	2,817.04	2,786.70	21.83	10.95	-26.78	1,909.40	3,122.88	2,727.89	2,707.35	20.54	132.809		
2,700.00	2,378.56	2,878.71	2,847.21	23.33	11.24	-27.37	1,900.25	3,115.19	2,649.09	2,627.76	21.33	124.177		
2,800.00	2,450.68	2,969.31	2,935.89	24.84	11.68	-28.28	1,885.81	3,103.54	2,569.78	2,547.61	22.17	115.894		
2,900.00	2,522.81	3,026.58	2,991.86	26.36	11.95	-28.88	1,876.03	3,096.36	2,490.36	2,467.36	23.00	108.278		
3,000.00	2,594.93	3,157.26	3,119.19	27.88	12.60	-30.37	1,852.49	3,078.84	2,410.46	2,386.60	23.86	101.008		
3,100.00	2,667.06	3,217.95	3,178.14	29.40	12.91	-31.15	1,841.30	3,069.72	2,329.67	2,304.94	24.73	94.219		
3,200.00	2,739.18	3,280.01	3,238.35	30.92	13.23	-32.01	1,829.76	3,060.09	2,248.73	2,223.12	25.62	87.786		
3,300.00	2,811.31	3,346.16	3,302.50	32.45	13.58	-33.01	1,817.46	3,049.59	2,167.83	2,141.30	26.53	81.701		
3,400.00	2,883.43	3,431.45	3,384.99	33.98	14.03	-34.43	1,801.40	3,035.09	2,086.53	2,059.07	27.46	75.984		
3,500.00	2,955.56	3,458.65	3,411.32	35.51	14.17	-34.92	1,796.38	3,030.47	2,005.50	1,977.00	28.51	70.353		
3,600.00	3,027.68	3,493.19	3,444.83	37.04	14.35	-35.57	1,790.21	3,024.80	1,925.28	1,895.68	29.61	65.029		
3,700.00	3,099.81	3,551.50	3,501.51	38.57	14.66	-36.73	1,780.03	3,015.64	1,845.81	1,815.08	30.72	60.078		
3,800.00	3,171.93	3,623.80	3,571.56	40.11	15.04	-38.26	1,766.37	3,004.10	1,765.94	1,734.08	31.85	55.438		
3,900.00	3,244.06	3,661.79	3,608.40	41.64	15.24	-39.12	1,759.23	2,998.15	1,686.63	1,653.48	33.16	50.870		
4,000.00	3,316.18	3,704.00	3,649.43	43.18	15.46	-40.14	1,751.66	2,991.80	1,608.30	1,573.77	34.54	46.565		
4,100.00	3,388.31	3,766.22	3,709.95	44.71	15.79	-41.75	1,740.57	2,982.57	1,530.60	1,494.66	35.94	42.583		
4,200.00	3,460.43	3,823.44	3,765.54	46.25	16.08	-43.36	1,730.00	2,974.05	1,453.14	1,415.67	37.47	38.782		
4,300.00	3,532.56	3,872.57	3,813.31	47.79	16.34	-44.83	1,720.88	2,967.03	1,376.50	1,337.34	39.16	35.155		
4,400.00	3,604.68	3,920.92	3,860.37	49.33	16.59	-46.38	1,712.00	2,960.41	1,300.89	1,259.90	40.99	31.735		
4,500.00	3,676.81	3,968.91	3,907.17	50.87	16.84	-48.05	1,703.55	2,953.94	1,226.55	1,183.54	43.01	28.517		
4,600.00	3,748.93	4,020.58	3,957.63	52.41	17.10	-50.00	1,694.84	2,947.04	1,153.62	1,108.41	45.21	25.517		
4,700.00	3,821.06	4,074.32	4,010.16	53.95	17.37	-52.20	1,686.07	2,939.83	1,082.17	1,034.53	47.63	22.718		
4,800.00	3,893.18	4,127.26	4,061.95	55.49	17.63	-54.58	1,677.77	2,932.64	1,012.49	962.15	50.34	20.113		
4,900.00	3,965.31	4,182.28	4,115.81	57.03	17.90	-57.27	1,669.57	2,925.01	945.00	891.65	53.35	17.713		
5,000.00	4,037.43	4,254.30	4,186.18	58.58	18.27	-61.18	1,658.71	2,914.18	879.45	822.86	56.59	15.540		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,313.71	4,244.06	60.12	18.57	-64.76	1,649.40	2,904.51	816.29	755.95	60.34	13.528		
5,200.00	4,181.68	4,370.55	4,299.40	61.66	18.87	-68.47	1,640.49	2,895.16	756.89	692.36	64.53	11.730		
5,300.00	4,253.81	4,430.92	4,358.11	63.20	19.19	-72.72	1,630.85	2,884.91	702.04	632.95	69.08	10.162		
5,400.00	4,325.93	4,494.65	4,419.92	64.75	19.53	-77.56	1,620.25	2,873.58	652.80	578.87	73.93	8.830		
5,500.00	4,398.06	4,559.82	4,482.83	66.29	19.89	-82.85	1,608.35	2,861.39	610.21	531.35	78.86	7.738		
5,600.00	4,470.18	4,606.95	4,528.29	67.84	20.15	-86.85	1,599.64	2,852.55	576.85	493.09	83.76	6.887		
5,700.00	4,542.31	4,658.63	4,578.26	69.38	20.44	-91.34	1,590.42	2,843.12	554.84	467.02	87.82	6.318		
5,800.00	4,614.43	4,717.15	4,634.82	70.92	20.77	-96.51	1,579.76	2,832.55	544.92	454.38	90.54	6.019		
5,829.38	4,635.62	4,734.22	4,651.31	71.38	20.86	-98.03	1,576.55	2,829.47	544.37	453.33	91.04	5.979 CC, ES		
5,900.00	4,686.56	4,772.06	4,687.86	72.47	21.07	-101.39	1,569.43	2,822.77	547.61	455.94	91.67	5.974 SF		
6,000.00	4,758.68	4,826.79	4,740.93	74.01	21.37	-106.15	1,559.59	2,813.71	563.00	471.82	91.17	6.175		
6,100.00	4,830.81	4,881.81	4,794.36	75.56	21.66	-110.80	1,549.89	2,804.89	589.85	500.48	89.37	6.600		
6,200.00	4,902.93	4,934.75	4,845.61	77.10	21.95	-115.15	1,540.14	2,795.88	626.86	540.20	86.66	7.234		
6,300.00	4,975.06	4,986.87	4,895.85	78.65	22.25	-119.30	1,529.96	2,786.48	672.54	589.08	83.46	8.058		
6,400.00	5,047.18	5,038.03	4,944.95	80.19	22.54	-123.21	1,519.35	2,776.77	725.47	645.36	80.11	9.056		
6,500.00	5,119.31	5,093.83	4,998.55	81.74	22.87	-127.20	1,507.84	2,766.32	784.03	707.12	76.91	10.193		
6,600.00	5,191.43	5,159.09	5,061.40	83.28	23.24	-131.50	1,494.65	2,754.76	846.70	772.64	74.06	11.432		
6,700.00	5,263.56	5,226.99	5,126.93	84.83	23.62	-135.57	1,480.53	2,743.93	911.88	840.33	71.55	12.744		
6,800.00	5,335.68	5,278.82	5,176.91	86.37	23.92	-138.45	1,469.44	2,735.84	979.71	910.43	69.27	14.143		
6,900.00	5,407.81	5,335.82	5,231.81	87.92	24.24	-141.38	1,457.06	2,726.82	1,049.96	982.65	67.31	15.599		
7,000.00	5,479.93	5,403.08	5,296.84	89.47	24.61	-144.49	1,443.14	2,716.80	1,121.64	1,055.88	65.76	17.057		
7,100.00	5,552.06	5,452.43	5,344.61	91.01	24.89	-146.57	1,433.08	2,709.60	1,194.67	1,130.34	64.33	18.572		
7,200.00	5,624.18	5,501.75	5,392.25	92.56	25.16	-148.51	1,422.71	2,702.14	1,269.24	1,206.15	63.09	20.118		
7,300.00	5,696.31	5,558.23	5,446.81	94.10	25.48	-150.57	1,410.94	2,693.53	1,344.94	1,282.82	62.12	21.650		
7,400.00	5,768.43	5,617.55	5,504.22	95.65	25.80	-152.53	1,398.97	2,684.55	1,421.43	1,360.05	61.38	23.158		
7,500.00	5,840.56	5,680.36	5,565.06	97.20	26.15	-154.43	1,386.38	2,675.32	1,498.41	1,437.58	60.83	24.631		
7,600.00	5,912.68	5,736.16	5,619.16	98.74	26.45	-155.97	1,375.34	2,667.25	1,575.86	1,515.51	60.35	26.113		
7,700.00	5,984.81	5,789.44	5,670.85	100.29	26.74	-157.32	1,365.05	2,659.48	1,653.87	1,593.91	59.96	27.585		
7,800.00	6,056.93	5,834.35	5,714.45	101.84	26.99	-158.37	1,356.64	2,652.70	1,732.57	1,673.01	59.56	29.088		
7,900.00	6,129.06	5,881.10	5,759.82	103.38	27.24	-159.38	1,348.14	2,645.31	1,812.01	1,752.72	59.29	30.563		
8,000.00	6,201.18	5,948.32	5,825.16	104.93	27.60	-160.71	1,336.43	2,634.69	1,891.69	1,832.31	59.38	31.859		
8,100.00	6,273.31	6,008.74	5,883.95	106.48	27.93	-161.80	1,326.08	2,625.41	1,971.37	1,911.93	59.45	33.163		
8,200.00	6,345.43	6,070.69	5,944.09	108.02	28.26	-162.88	1,314.48	2,616.12	2,051.27	1,991.71	59.56	34.438		
8,300.00	6,417.56	6,130.00	6,000.12	109.57	28.93	-165.21	1,288.12	2,596.81	2,128.90	2,058.88	70.02	30.406		
8,400.00	6,489.68	6,343.94	6,212.38	111.12	29.57	-166.54	1,272.83	2,586.33	2,204.97	2,142.91	62.06	35.529		
8,500.00	6,561.81	6,397.89	6,265.72	112.66	29.81	-167.09	1,266.35	2,581.51	2,281.05	2,218.79	62.27	36.634		
8,600.00	6,633.93	6,489.21	6,356.14	114.21	30.20	-167.89	1,256.86	2,572.97	2,357.43	2,294.41	63.03	37.403		
8,700.00	6,706.06	6,643.31	6,509.47	115.76	30.80	-168.98	1,245.60	2,562.48	2,431.57	2,366.89	64.68	37.595		
8,800.00	6,778.18	6,712.88	6,578.82	117.30	31.04	-169.38	1,241.76	2,558.58	2,504.91	2,439.72	65.19	38.422		
8,900.00	6,850.31	6,792.89	6,658.63	118.85	31.32	-169.80	1,238.16	2,554.26	2,578.03	2,512.16	65.87	39.137		
9,000.00	6,922.43	6,901.30	6,766.86	120.40	31.69	-170.29	1,234.54	2,549.14	2,650.59	2,583.66	66.93	39.603		
9,100.00	6,994.56	6,998.99	6,864.47	121.95	32.00	-170.66	1,232.82	2,545.61	2,722.16	2,654.31	67.85	40.119		
9,200.00	7,066.68	7,072.77	6,938.20	123.49	32.23	-170.91	1,231.92	2,543.32	2,793.33	2,724.86	68.48	40.793		
9,300.00	7,138.81	7,166.95	7,032.34	125.04	32.51	-171.22	1,230.65	2,540.74	2,864.33	2,794.97	69.36	41.298		
9,392.50	7,205.52	7,392.50	7,136.82	126.47	39.08	-171.55	1,229.19	2,539.57	2,928.83	2,851.71	77.12	37.978		
9,400.00	7,210.94	9,400.00	7,142.18	126.59	39.10	-173.05	1,229.12	2,539.53	2,934.06	2,856.89	77.17	38.020		
9,450.00	7,247.42	7,338.43	7,203.80	127.35	33.01	176.99	1,228.82	2,539.36	2,968.28	2,897.25	71.04	41.785		
9,500.00	7,284.35	7,574.88	7,438.21	128.10	33.49	168.49	1,252.99	2,540.94	3,000.80	2,927.06	73.73	40.698		
9,550.00	7,321.43	8,506.85	7,906.33	128.83	32.27	176.98	1,971.24	2,529.18	3,027.88	2,936.79	91.09	33.240		
9,600.00	7,358.38	8,505.01	7,906.28	129.52	32.27	168.53	1,969.40	2,529.14	3,053.33	2,962.10	91.23	33.468		
9,650.00	7,394.93	8,500.14	7,906.14	130.16	32.28	160.16	1,964.54	2,529.04	3,079.15	2,987.83	91.31	33.721		
9,700.00	7,430.79	8,492.37	7,905.92	130.76	32.29	152.03	1,956.77	2,528.87	3,105.10	3,013.76	91.34	33.994		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	8,487.29	7,905.76	131.30	32.30	144.40	1,951.69	2,528.77	3,130.96	3,039.49	91.47	34.231		
9,800.00	7,499.38	8,800.00	7,844.29	131.78	31.25	130.58	1,602.98	2,531.03	3,155.91	3,074.01	81.90	38.534		
9,850.00	7,531.58	8,125.54	7,842.62	132.21	33.06	124.42	1,598.87	2,531.11	3,179.02	3,095.70	83.32	38.156		
9,900.00	7,562.06	8,092.12	7,827.93	132.57	33.13	118.34	1,568.86	2,531.90	3,200.97	3,118.04	82.93	38.600		
9,950.00	7,590.58	8,076.09	7,820.49	132.87	33.16	113.22	1,554.67	2,532.27	3,221.62	3,138.67	82.94	38.841		
10,000.00	7,616.93	8,058.02	7,811.77	133.11	33.20	108.68	1,538.85	2,532.65	3,240.82	3,157.86	82.96	39.067		
10,050.00	7,640.90	8,035.63	7,800.46	133.29	33.24	104.64	1,519.53	2,533.07	3,258.40	3,175.48	82.92	39.295		
10,100.00	7,662.32	8,009.84	7,786.62	133.42	33.29	101.10	1,497.78	2,533.49	3,274.18	3,191.32	82.86	39.513		
10,150.00	7,681.01	7,981.77	7,770.55	133.50	33.34	98.05	1,474.77	2,533.88	3,288.02	3,205.21	82.81	39.706		
10,200.00	7,696.85	7,953.00	7,753.08	133.52	33.39	95.49	1,451.92	2,534.24	3,299.77	3,216.97	82.80	39.854		
10,250.00	7,709.70	7,931.54	7,739.31	133.51	33.42	93.50	1,435.46	2,534.46	3,309.35	3,226.36	82.99	39.877		
10,300.00	7,719.47	7,910.71	7,725.27	133.46	33.45	91.96	1,420.08	2,534.59	3,316.73	3,233.47	83.26	39.837		
10,350.00	7,726.09	7,760.14	7,607.04	133.37	33.57	88.92	1,327.58	2,537.77	3,321.18	3,240.07	81.11	40.947		
10,400.00	7,729.50	7,743.96	7,593.17	133.26	33.57	88.31	1,319.30	2,538.35	3,322.94	3,241.34	81.60	40.722		
10,427.79	7,730.00	7,734.69	7,585.13	133.18	33.57	88.14	1,314.67	2,538.68	3,322.88	3,240.99	81.90	40.575		
10,486.92	7,730.00	7,717.00	7,569.66	133.02	33.57	87.87	1,306.13	2,539.26	3,322.43	3,239.82	82.60	40.222		
10,500.00	7,730.00	7,717.00	7,569.66	132.98	33.57	87.87	1,306.13	2,539.26	3,322.45	3,239.62	82.83	40.112		
10,600.00	7,730.00	7,691.24	7,546.76	132.72	33.56	87.48	1,294.35	2,539.98	3,324.13	3,239.97	84.17	39.494		
10,700.00	7,730.00	7,670.00	7,527.57	132.47	33.56	87.15	1,285.27	2,540.44	3,328.56	3,242.90	85.66	38.858		
10,800.00	7,730.00	7,656.11	7,514.86	132.22	33.55	86.93	1,279.66	2,540.67	3,335.75	3,248.41	87.34	38.194		
10,900.00	7,730.00	7,642.13	7,501.95	131.99	33.54	86.70	1,274.31	2,540.83	3,345.74	3,256.68	89.06	37.568		
11,000.00	7,730.00	7,622.00	7,483.15	131.77	33.53	86.38	1,267.13	2,540.96	3,358.56	3,267.85	90.71	37.025		
11,100.00	7,730.00	7,622.00	7,483.15	131.56	33.53	86.38	1,267.13	2,540.96	3,374.13	3,281.42	92.71	36.393		
11,200.00	7,730.00	7,605.44	7,467.49	131.36	33.52	86.11	1,261.71	2,540.98	3,392.47	3,298.02	94.45	35.920		
11,300.00	7,730.00	7,594.83	7,457.38	131.17	33.51	85.94	1,258.49	2,540.98	3,413.54	3,317.26	96.27	35.457		
11,400.00	7,730.00	7,575.00	7,438.33	130.99	33.49	85.61	1,253.02	2,540.94	3,437.35	3,339.40	97.95	35.093		
11,500.00	7,730.00	7,575.00	7,438.33	130.82	33.49	85.61	1,253.02	2,540.94	3,463.72	3,363.83	99.89	34.674		
11,600.00	7,730.00	7,575.00	7,438.33	130.66	33.49	85.61	1,253.02	2,540.94	3,492.76	3,390.96	101.80	34.312		
11,700.00	7,730.00	7,575.00	7,438.33	130.51	33.49	85.61	1,253.02	2,540.94	3,524.40	3,420.74	103.65	34.003		
11,800.00	7,730.00	7,557.21	7,421.07	130.37	33.47	85.32	1,248.67	2,540.83	3,558.38	3,453.17	105.22	33.820		
11,900.00	7,730.00	7,551.63	7,415.64	130.24	33.46	85.22	1,247.41	2,540.78	3,594.87	3,487.97	106.90	33.629		
12,000.00	7,730.00	7,546.45	7,410.59	130.13	33.45	85.14	1,246.28	2,540.73	3,633.71	3,525.18	108.53	33.482		
12,100.00	7,730.00	7,528.00	7,392.51	130.02	33.43	84.83	1,242.60	2,540.47	3,674.95	3,565.00	109.95	33.425		
12,200.00	7,730.00	7,528.00	7,392.51	129.93	33.43	84.83	1,242.60	2,540.47	3,718.22	3,606.70	111.52	33.342		
12,300.00	7,730.00	7,528.00	7,392.51	129.85	33.43	84.83	1,242.60	2,540.47	3,763.65	3,650.62	113.03	33.299		
12,400.00	7,730.00	7,528.00	7,392.51	129.77	33.43	84.83	1,242.60	2,540.47	3,811.16	3,696.69	114.47	33.294		
12,500.00	7,730.00	7,528.00	7,392.51	129.71	33.43	84.83	1,242.60	2,540.47	3,860.68	3,744.84	115.84	33.326		
12,600.00	7,730.00	7,528.00	7,392.51	129.66	33.43	84.83	1,242.60	2,540.47	3,912.13	3,794.98	117.16	33.392		
12,700.00	7,730.00	7,528.00	7,392.51	129.63	33.43	84.83	1,242.60	2,540.47	3,965.44	3,847.03	118.40	33.491		
12,800.00	7,730.00	7,510.73	7,375.51	129.60	33.40	84.54	1,239.59	2,540.18	4,020.38	3,900.95	119.43	33.664		
12,900.00	7,730.00	7,506.73	7,371.56	129.59	33.39	84.47	1,238.94	2,540.11	4,077.09	3,956.57	120.52	33.830		
13,000.00	7,730.00	7,502.94	7,367.82	129.59	33.38	84.40	1,238.35	2,540.05	4,135.43	4,013.87	121.56	34.021		
13,100.00	7,730.00	7,499.37	7,364.29	129.60	33.38	84.34	1,237.80	2,539.98	4,195.33	4,072.79	122.54	34.236		
13,200.00	7,730.00	7,481.00	7,346.11	129.63	33.35	84.03	1,235.23	2,539.64	4,256.84	4,133.49	123.35	34.510		
13,300.00	7,730.00	7,481.00	7,346.11	129.66	33.35	84.03	1,235.23	2,539.64	4,319.62	4,195.35	124.27	34.761		
13,400.00	7,730.00	7,481.00	7,346.11	129.72	33.35	84.03	1,235.23	2,539.64	4,383.78	4,258.66	125.13	35.035		
13,500.00	7,730.00	7,481.00	7,346.11	129.78	33.35	84.03	1,235.23	2,539.64	4,449.27	4,323.33	125.94	35.328		
13,600.00	7,730.00	7,481.00	7,346.11	129.86	33.35	84.03	1,235.23	2,539.64	4,516.02	4,389.31	126.71	35.641		
13,700.00	7,730.00	7,481.00	7,346.11	129.96	33.35	84.03	1,235.23	2,539.64	4,583.98	4,456.55	127.43	35.972		
13,800.00	7,730.00	7,481.00	7,346.11	130.07	33.35	84.03	1,235.23	2,539.64	4,653.10	4,524.98	128.11	36.320		
13,900.00	7,730.00	7,481.00	7,346.11	130.19	33.35	84.03	1,235.23	2,539.64	4,723.32	4,594.56	128.76	36.684		
14,000.00	7,730.00	7,481.00	7,346.11	130.33	33.35	84.03	1,235.23	2,539.64	4,794.60	4,665.24	129.36	37.063		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,481.00	7,346.11	130.49	33.35	84.03	1,235.23	2,539.64	4,866.89	4,736.96	129.93	37.457		
14,200.00	7,730.00	7,481.00	7,346.11	130.67	33.35	84.03	1,235.23	2,539.64	4,940.15	4,809.68	130.47	37.865		
14,300.00	7,730.00	7,481.00	7,346.11	130.86	33.35	84.03	1,235.23	2,539.64	5,014.33	4,883.35	130.97	38.285		
14,400.00	7,730.00	7,481.00	7,346.11	131.07	33.35	84.03	1,235.23	2,539.64	5,089.39	4,957.94	131.45	38.718		
14,500.00	7,730.00	7,481.00	7,346.11	131.30	33.35	84.03	1,235.23	2,539.64	5,165.30	5,033.41	131.90	39.162		
14,600.00	7,730.00	7,460.83	7,326.07	131.55	33.31	83.69	1,232.93	2,539.31	5,241.80	5,109.60	132.20	39.651		
14,700.00	7,730.00	7,459.09	7,324.34	131.82	33.30	83.66	1,232.75	2,539.29	5,319.25	5,186.67	132.59	40.119		
14,800.00	7,730.00	7,457.44	7,322.70	132.11	33.30	83.64	1,232.59	2,539.27	5,397.44	5,264.49	132.95	40.596		
14,900.00	7,730.00	7,455.86	7,321.13	132.42	33.30	83.61	1,232.44	2,539.26	5,476.34	5,343.04	133.30	41.083		
15,000.00	7,730.00	7,454.35	7,319.63	132.75	33.29	83.58	1,232.31	2,539.24	5,555.91	5,422.29	133.62	41.579		
15,100.00	7,730.00	7,452.92	7,318.19	133.10	33.29	83.56	1,232.18	2,539.23	5,636.13	5,502.20	133.93	42.084		
15,200.00	7,730.00	7,433.00	7,298.33	133.48	33.25	83.22	1,230.68	2,539.10	5,717.17	5,583.04	134.12	42.626		
15,300.00	7,730.00	7,433.00	7,298.33	133.88	33.25	83.22	1,230.68	2,539.10	5,798.58	5,664.18	134.40	43.143		
15,400.00	7,730.00	7,433.00	7,298.33	134.31	33.25	83.22	1,230.68	2,539.10	5,880.57	5,745.90	134.67	43.668		
15,500.00	7,730.00	7,433.00	7,298.33	134.76	33.25	83.22	1,230.68	2,539.10	5,963.10	5,828.19	134.91	44.200		
15,600.00	7,730.00	7,433.00	7,298.33	135.23	33.25	83.22	1,230.68	2,539.10	6,046.17	5,911.02	135.14	44.739		
15,700.00	7,730.00	7,433.00	7,298.33	135.73	33.25	83.22	1,230.68	2,539.10	6,129.74	5,994.37	135.36	45.284		
15,800.00	7,730.00	7,433.00	7,298.33	136.26	33.25	83.22	1,230.68	2,539.10	6,213.79	6,078.22	135.57	45.835		
15,900.00	7,730.00	7,433.00	7,298.33	136.81	33.25	83.22	1,230.68	2,539.10	6,298.31	6,162.55	135.76	46.392		
16,000.00	7,730.00	7,433.00	7,298.33	137.39	33.25	83.22	1,230.68	2,539.10	6,383.28	6,247.33	135.94	46.955		
16,100.00	7,730.00	7,433.00	7,298.33	138.00	33.25	83.22	1,230.68	2,539.10	6,468.68	6,332.56	136.12	47.524		
16,200.00	7,730.00	7,433.00	7,298.33	138.63	33.25	83.22	1,230.68	2,539.10	6,554.49	6,418.21	136.28	48.097		
16,300.00	7,730.00	7,433.00	7,298.33	139.30	33.25	83.22	1,230.68	2,539.10	6,640.69	6,504.27	136.43	48.675		
16,400.00	7,730.00	7,433.00	7,298.33	139.99	33.25	83.22	1,230.68	2,539.10	6,727.28	6,590.71	136.57	49.258		
16,500.00	7,730.00	7,433.00	7,298.33	140.70	33.25	83.22	1,230.68	2,539.10	6,814.24	6,677.53	136.71	49.846		
16,600.00	7,730.00	7,433.00	7,298.33	141.45	33.25	83.22	1,230.68	2,539.10	6,901.55	6,764.72	136.83	50.437		
16,700.00	7,730.00	7,433.00	7,298.33	142.22	33.25	83.22	1,230.68	2,539.10	6,989.20	6,852.25	136.95	51.033		
16,800.00	7,730.00	7,433.00	7,298.33	143.03	33.25	83.22	1,230.68	2,539.10	7,077.18	6,940.11	137.07	51.633		
16,900.00	7,730.00	7,433.00	7,298.33	143.86	33.25	83.22	1,230.68	2,539.10	7,165.47	7,028.30	137.17	52.237		
17,000.00	7,730.00	7,433.00	7,298.33	144.71	33.25	83.22	1,230.68	2,539.10	7,254.07	7,116.80	137.27	52.844		
17,100.00	7,730.00	7,433.00	7,298.33	145.60	33.25	83.22	1,230.68	2,539.10	7,342.96	7,205.59	137.37	53.455		
17,200.00	7,730.00	7,433.00	7,298.33	146.51	33.25	83.22	1,230.68	2,539.10	7,432.13	7,294.67	137.46	54.069		
17,300.00	7,730.00	7,433.00	7,298.33	147.44	33.25	83.22	1,230.68	2,539.10	7,521.57	7,384.03	137.54	54.687		
17,400.00	7,730.00	7,433.00	7,298.33	148.40	33.25	83.22	1,230.68	2,539.10	7,611.28	7,473.66	137.62	55.307		
17,500.00	7,730.00	7,433.00	7,298.33	149.39	33.25	83.22	1,230.68	2,539.10	7,701.24	7,563.55	137.69	55.930		
17,600.00	7,730.00	7,433.00	7,298.33	150.40	33.25	83.22	1,230.68	2,539.10	7,791.45	7,653.68	137.76	56.556		
17,700.00	7,730.00	7,433.00	7,298.33	151.44	33.25	83.22	1,230.68	2,539.10	7,881.89	7,744.06	137.83	57.185		
17,800.00	7,730.00	7,433.00	7,298.33	152.50	33.25	83.22	1,230.68	2,539.10	7,972.56	7,834.67	137.89	57.817		
17,900.00	7,730.00	7,433.00	7,298.33	153.58	33.25	83.22	1,230.68	2,539.10	8,063.45	7,925.50	137.95	58.451		
18,000.00	7,730.00	7,433.00	7,298.33	154.68	33.25	83.22	1,230.68	2,539.10	8,154.55	8,016.55	138.01	59.087		
18,100.00	7,730.00	7,433.00	7,298.33	155.80	33.25	83.22	1,230.68	2,539.10	8,245.87	8,107.80	138.06	59.726		
18,200.00	7,730.00	7,433.00	7,298.33	156.95	33.25	83.22	1,230.68	2,539.10	8,337.37	8,199.26	138.11	60.367		
18,300.00	7,730.00	7,433.00	7,298.33	158.11	33.25	83.22	1,230.68	2,539.10	8,429.08	8,290.92	138.16	61.010		
18,400.00	7,730.00	7,433.00	7,298.33	159.30	33.25	83.22	1,230.68	2,539.10	8,520.97	8,382.76	138.20	61.656		
18,500.00	7,730.00	7,433.00	7,298.33	160.50	33.25	83.22	1,230.68	2,539.10	8,613.04	8,474.79	138.24	62.303		
18,600.00	7,730.00	7,433.00	7,298.33	161.72	33.25	83.22	1,230.68	2,539.10	8,705.28	8,567.00	138.28	62.952		
18,700.00	7,730.00	7,433.00	7,298.33	162.96	33.25	83.22	1,230.68	2,539.10	8,797.70	8,659.37	138.32	63.603		
18,800.00	7,730.00	7,433.00	7,298.33	164.21	33.25	83.22	1,230.68	2,539.10	8,890.27	8,751.92	138.36	64.255		
18,900.00	7,730.00	7,433.00	7,298.33	165.48	33.25	83.22	1,230.68	2,539.10	8,983.01	8,844.62	138.39	64.910		
19,000.00	7,730.00	7,433.00	7,298.33	166.76	33.25	83.22	1,230.68	2,539.10	9,075.90	8,937.48	138.42	65.566		
19,100.00	7,730.00	7,433.00	7,298.33	168.06	33.25	83.22	1,230.68	2,539.10	9,168.95	9,030.49	138.45	66.223		
19,200.00	7,730.00	7,433.00	7,298.33	169.38	33.25	83.22	1,230.68	2,539.10	9,262.13	9,123.65	138.48	66.882		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		25-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,433.00	7,298.33	170.70	33.25	83.22	1,230.68	2,539.10	9,355.46	9,216.95	138.51	67.543	
19,400.00	7,730.00	7,433.00	7,298.33	172.04	33.25	83.22	1,230.68	2,539.10	9,448.92	9,310.38	138.54	68.205	
19,500.00	7,730.00	7,433.00	7,298.33	173.40	33.25	83.22	1,230.68	2,539.10	9,542.52	9,403.96	138.56	68.868	
19,600.00	7,730.00	7,433.00	7,298.33	174.76	33.25	83.22	1,230.68	2,539.10	9,636.24	9,497.66	138.59	69.532	
19,700.00	7,730.00	7,433.00	7,298.33	176.14	33.25	83.22	1,230.68	2,539.10	9,730.09	9,591.48	138.61	70.198	
19,800.00	7,730.00	7,433.00	7,298.33	177.52	33.25	83.22	1,230.68	2,539.10	9,824.06	9,685.43	138.63	70.865	
19,900.00	7,730.00	7,433.00	7,298.33	178.92	33.25	83.22	1,230.68	2,539.10	9,918.15	9,779.50	138.65	71.533	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	57.77	2,113.47	3,352.19	3,962.99					
100.00	100.00	52.16	52.16	0.13	0.10	57.77	2,113.47	3,352.23	3,962.86	3,962.63	0.23	N/A		
200.00	199.98	125.00	125.00	0.49	0.36	-12.69	2,113.53	3,352.74	3,961.80	3,960.95	0.85	4,661.339		
300.00	299.84	196.34	196.34	0.86	0.62	-12.71	2,113.83	3,353.69	3,958.03	3,956.56	1.47	2,694.275		
400.00	399.45	291.77	291.75	1.23	0.96	-12.77	2,114.67	3,355.25	3,951.37	3,949.19	2.18	1,813.248		
500.00	498.70	444.66	444.62	1.63	1.50	-12.87	2,115.34	3,356.98	3,940.71	3,937.61	3.10	1,270.892		
600.00	597.47	567.01	566.97	2.05	1.92	-13.00	2,115.15	3,357.13	3,925.45	3,921.55	3.90	1,006.820		
700.00	695.62	675.01	674.97	2.51	2.29	-13.16	2,115.38	3,356.72	3,906.65	3,902.01	4.65	840.741		
800.00	793.06	795.53	795.49	3.00	2.70	-13.37	2,115.42	3,355.64	3,884.00	3,878.56	5.45	713.183		
900.00	889.64	876.18	876.13	3.53	2.98	-13.58	2,115.25	3,354.84	3,857.89	3,851.77	6.12	630.579		
1,000.00	985.27	959.95	959.89	4.12	3.27	-13.82	2,115.48	3,354.40	3,829.12	3,822.31	6.81	562.172		
1,100.00	1,079.82	1,084.59	1,084.53	4.75	3.70	-14.16	2,116.09	3,353.00	3,796.79	3,789.13	7.66	495.965		
1,200.00	1,173.17	1,166.06	1,165.99	5.44	3.99	-14.47	2,115.83	3,352.04	3,760.86	3,752.50	8.36	449.889		
1,300.00	1,265.21	1,899.01	1,893.86	6.18	6.67	-15.87	2,069.23	3,299.68	3,713.59	3,702.43	11.16	332.615		
1,400.00	1,355.84	1,976.43	1,969.67	6.99	6.98	-16.29	2,055.64	3,291.88	3,656.79	3,644.94	11.85	308.684		
1,500.00	1,444.94	2,083.35	2,074.19	7.87	7.43	-16.74	2,035.06	3,282.69	3,597.57	3,584.95	12.63	284.942		
1,600.00	1,532.39	2,158.23	2,147.10	8.80	7.75	-17.23	2,019.22	3,276.39	3,534.88	3,521.56	13.32	265.438		
1,700.00	1,618.11	2,219.54	2,206.90	9.81	8.02	-17.79	2,006.68	3,271.39	3,470.07	3,456.09	13.98	248.254		
1,800.00	1,701.97	2,306.96	2,292.12	10.89	8.41	-18.44	1,988.49	3,264.38	3,402.71	3,387.99	14.72	231.143		
1,900.00	1,783.88	2,357.82	2,341.74	12.04	8.64	-19.13	1,978.09	3,260.29	3,333.08	3,317.71	15.37	216.834		
2,000.00	1,863.74	2,408.26	2,391.03	13.26	8.86	-19.93	1,968.17	3,256.25	3,261.47	3,245.44	16.03	203.452		
2,100.00	1,941.45	2,453.47	2,435.29	14.55	9.07	-20.81	1,959.60	3,252.77	3,188.07	3,171.38	16.69	191.038		
2,200.00	2,016.92	2,497.62	2,478.57	15.92	9.26	-21.79	1,951.51	3,249.55	3,112.96	3,095.60	17.36	179.361		
2,292.11	2,084.36	2,537.28	2,517.50	17.25	9.44	-22.81	1,944.49	3,246.79	3,042.31	3,024.33	17.98	169.194		
2,300.00	2,090.06	2,540.64	2,520.80	17.36	9.46	-22.82	1,943.90	3,246.56	3,036.20	3,018.16	18.04	168.315		
2,400.00	2,162.18	2,573.00	2,552.61	18.84	9.60	-22.99	1,938.35	3,244.41	2,959.05	2,940.34	18.71	158.183		
2,500.00	2,234.31	2,625.11	2,603.91	20.33	9.83	-23.27	1,929.79	3,241.14	2,882.33	2,862.90	19.44	148.301		
2,600.00	2,306.43	2,667.75	2,646.95	21.83	10.01	-23.52	1,923.15	3,238.61	2,806.15	2,785.98	20.17	139.125		
2,700.00	2,378.56	2,711.07	2,688.73	23.33	10.20	-23.78	1,916.76	3,236.20	2,730.50	2,709.57	20.93	130.459		
2,800.00	2,450.68	2,760.00	2,737.12	24.84	10.41	-24.10	1,909.96	3,233.65	2,655.41	2,633.68	21.72	122.241		
2,900.00	2,522.81	2,842.89	2,819.14	26.36	10.76	-24.70	1,899.08	3,228.80	2,580.39	2,557.82	22.58	114.299		
3,000.00	2,594.93	2,947.38	2,922.45	27.88	11.21	-25.56	1,885.50	3,220.95	2,504.62	2,481.17	23.46	106.772		
3,100.00	2,667.06	3,016.00	2,990.18	29.40	11.51	-26.15	1,875.87	3,215.55	2,428.37	2,404.05	24.32	99.841		
3,200.00	2,739.18	3,072.62	3,046.00	30.92	11.76	-26.65	1,867.36	3,211.44	2,352.16	2,326.96	25.20	93.332		
3,300.00	2,811.31	3,124.12	3,096.81	32.45	11.99	-27.12	1,859.68	3,207.96	2,276.34	2,250.23	26.11	87.183		
3,400.00	2,883.43	3,167.49	3,139.64	33.98	12.18	-27.54	1,853.45	3,205.22	2,201.08	2,174.03	27.05	81.361		
3,500.00	2,955.56	3,210.54	3,182.23	35.51	12.36	-27.98	1,847.75	3,202.65	2,126.57	2,098.53	28.04	75.844		
3,600.00	3,027.68	3,600.00	3,270.49	37.04	14.05	-28.99	1,836.18	3,196.61	2,051.82	2,021.64	30.17	68.005		
3,700.00	3,099.81	3,427.60	3,396.56	38.57	13.32	-30.68	1,818.69	3,184.77	1,975.46	1,945.47	29.99	65.869		
3,800.00	3,171.93	3,478.42	3,446.64	40.11	13.55	-31.43	1,811.83	3,179.46	1,899.17	1,868.08	31.09	61.084		
3,900.00	3,244.06	3,544.30	3,511.59	41.64	13.84	-32.49	1,803.07	3,172.76	1,823.36	1,791.14	32.22	56.596		
4,000.00	3,316.18	3,621.91	3,587.99	43.18	14.19	-33.84	1,792.32	3,164.31	1,747.23	1,713.86	33.37	52.367		
4,100.00	3,388.31	3,682.17	3,647.27	44.71	14.47	-34.99	1,783.86	3,157.56	1,671.21	1,636.59	34.62	48.271		
4,200.00	3,460.43	3,765.13	3,728.78	46.25	14.85	-36.70	1,771.61	3,148.19	1,595.24	1,559.38	35.86	44.482		
4,300.00	3,532.56	3,834.14	3,796.38	47.79	15.18	-38.24	1,760.23	3,140.32	1,518.85	1,481.64	37.21	40.815		
4,400.00	3,604.68	3,895.29	3,856.24	49.33	15.48	-39.70	1,749.64	3,133.67	1,442.78	1,404.10	38.68	37.300		
4,500.00	3,676.81	3,938.10	3,898.19	50.87	15.68	-40.79	1,742.30	3,129.34	1,367.60	1,327.23	40.37	33.879		
4,600.00	3,748.93	3,986.90	3,946.11	52.41	15.91	-42.12	1,734.23	3,124.81	1,293.61	1,251.45	42.16	30.686		
4,700.00	3,821.06	4,055.85	4,013.79	53.95	16.23	-44.14	1,722.50	3,118.83	1,220.32	1,176.37	43.94	27.770		
4,800.00	3,893.18	4,108.30	4,065.23	55.49	16.48	-45.80	1,713.18	3,114.60	1,147.71	1,101.70	46.01	24.943		
4,900.00	3,965.31	4,155.91	4,112.02	57.03	16.70	-47.41	1,705.01	3,111.37	1,076.76	1,028.43	48.32	22.282		
5,000.00	4,037.43	4,216.78	4,171.94	58.58	16.98	-49.66	1,694.99	3,107.56	1,007.43	956.69	50.74	19.854		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,287.54	4,241.61	60.12	17.31	-52.65	1,683.86	3,102.11	939.28	885.92	53.36	17.602		
5,200.00	4,181.68	4,370.69	4,323.20	61.66	17.70	-56.74	1,670.19	3,093.75	871.66	815.48	56.17	15.517		
5,300.00	4,253.81	4,437.47	4,388.51	63.20	18.03	-60.47	1,658.43	3,086.35	805.33	745.79	59.54	13.527		
5,400.00	4,325.93	4,493.57	4,443.32	64.75	18.30	-63.94	1,648.23	3,080.08	741.49	678.02	63.47	11.683		
5,500.00	4,398.06	4,547.71	4,496.30	66.29	18.57	-67.59	1,638.77	3,074.18	681.70	613.80	67.90	10.039		
5,600.00	4,470.18	4,620.05	4,566.99	67.84	18.93	-72.95	1,625.61	3,066.32	626.14	553.66	72.48	8.639		
5,700.00	4,542.31	4,676.94	4,622.46	69.38	19.21	-77.55	1,614.59	3,060.11	575.83	498.16	77.67	7.414		
5,800.00	4,614.43	4,729.56	4,673.90	70.92	19.47	-82.09	1,604.94	3,054.64	533.75	450.70	83.05	6.427		
5,900.00	4,686.56	4,784.41	4,727.62	72.47	19.74	-87.06	1,595.47	3,048.94	501.76	413.71	88.05	5.699		
6,000.00	4,758.68	4,842.17	4,784.24	74.01	20.02	-92.53	1,585.98	3,042.53	481.71	389.71	92.01	5.236		
6,100.00	4,830.81	4,912.83	4,853.33	75.56	20.37	-99.38	1,573.45	3,034.71	473.86	379.73	94.13	5.034		
6,114.17	4,841.03	4,922.73	4,862.99	75.78	20.42	-100.35	1,571.56	3,033.64	473.73	379.46	94.27	5.025 CC, ES, SF		
6,200.00	4,902.93	4,974.63	4,913.61	77.10	20.68	-105.41	1,561.51	3,028.09	478.71	384.32	94.39	5.071		
6,300.00	4,975.06	5,035.24	4,972.71	78.65	20.99	-111.22	1,549.66	3,021.77	496.64	403.86	92.77	5.353		
6,400.00	5,047.18	5,096.83	5,038.80	80.19	21.30	-116.89	1,537.63	3,015.68	526.22	436.45	89.77	5.862		
6,500.00	5,119.31	5,157.44	5,092.00	81.74	21.60	-122.15	1,525.91	3,010.03	565.56	479.48	86.07	6.571		
6,600.00	5,191.43	5,219.08	5,152.29	83.28	21.91	-127.11	1,514.33	3,004.54	612.79	530.57	82.22	7.453		
6,700.00	5,263.56	5,284.98	5,216.83	84.83	22.23	-131.95	1,502.14	2,999.14	665.88	587.32	78.56	8.476		
6,800.00	5,335.68	5,353.54	5,284.03	86.37	22.56	-136.49	1,489.52	2,994.18	723.23	647.94	75.28	9.607		
6,900.00	5,407.81	5,418.22	5,347.45	87.92	22.87	-140.35	1,477.51	2,990.06	783.72	711.29	72.43	10.820		
7,000.00	5,479.93	5,474.31	5,402.43	89.47	23.14	-143.40	1,467.00	2,986.25	847.38	777.44	69.94	12.116		
7,100.00	5,552.06	5,541.91	5,468.67	91.01	23.47	-146.72	1,454.39	2,981.52	913.50	845.60	67.90	13.453		
7,200.00	5,624.18	5,609.78	5,535.29	92.56	23.79	-149.68	1,442.08	2,977.43	980.86	914.59	66.26	14.803		
7,300.00	5,696.31	5,670.52	5,594.97	94.10	24.08	-152.03	1,431.39	2,973.79	1,049.66	984.78	64.88	16.177		
7,400.00	5,768.43	5,731.35	5,654.78	95.65	24.36	-154.16	1,420.99	2,970.02	1,119.75	1,055.97	63.79	17.554		
7,500.00	5,840.56	5,787.16	5,709.70	97.20	24.63	-155.92	1,411.71	2,966.42	1,190.95	1,128.08	62.87	18.943		
7,600.00	5,912.68	5,830.88	5,752.66	98.74	24.84	-157.19	1,404.36	2,963.08	1,263.66	1,201.69	61.97	20.392		
7,700.00	5,984.81	5,874.47	5,795.42	100.29	25.05	-158.39	1,396.83	2,959.12	1,337.92	1,276.71	61.21	21.859		
7,800.00	6,056.93	5,925.76	5,845.65	101.84	25.30	-159.71	1,387.81	2,954.02	1,413.30	1,352.62	60.68	23.290		
7,900.00	6,129.06	5,987.41	5,905.97	103.38	25.60	-161.17	1,376.83	2,947.58	1,489.47	1,429.04	60.43	24.648		
8,000.00	6,201.18	6,078.16	5,995.04	104.93	26.03	-163.06	1,361.61	2,939.14	1,565.27	1,504.53	60.74	25.769		
8,100.00	6,273.31	6,174.44	6,089.91	106.48	26.49	-164.76	1,346.98	2,931.91	1,640.14	1,578.87	61.27	26.767		
8,200.00	6,345.43	6,210.51	6,125.46	108.02	26.65	-165.33	1,341.60	2,928.97	1,715.43	1,654.47	60.96	28.140		
8,300.00	6,417.56	6,264.53	6,178.69	109.57	26.90	-166.14	1,333.61	2,924.37	1,791.36	1,730.37	60.99	29.372		
8,400.00	6,489.68	6,332.59	6,245.70	111.12	27.22	-167.11	1,323.11	2,918.71	1,867.46	1,806.18	61.28	30.474		
8,500.00	6,561.81	6,446.55	6,358.11	112.66	27.74	-168.54	1,306.17	2,910.77	1,942.88	1,880.55	62.33	31.169		
8,600.00	6,633.93	6,556.20	6,466.70	114.21	28.21	-169.70	1,291.99	2,905.45	2,016.83	1,953.47	63.36	31.831		
8,700.00	6,706.06	6,671.69	6,581.45	115.76	28.67	-170.71	1,279.46	2,902.00	2,089.40	2,024.89	64.51	32.390		
8,800.00	6,778.18	6,773.41	6,682.73	117.30	29.06	-171.47	1,270.10	2,900.76	2,160.57	2,095.10	65.47	33.001		
8,900.00	6,850.31	6,844.64	6,753.76	118.85	29.31	-171.92	1,264.71	2,900.24	2,231.26	2,165.25	66.01	33.800		
9,000.00	6,922.43	6,902.06	6,811.08	120.40	29.52	-172.22	1,261.54	2,899.28	2,302.30	2,235.91	66.39	34.677		
9,100.00	6,994.56	7,013.08	6,922.03	121.95	29.88	-172.66	1,258.19	2,897.48	2,372.91	2,305.34	67.57	35.119		
9,200.00	7,066.68	7,086.83	6,995.77	123.49	30.12	-172.91	1,257.07	2,896.66	2,442.93	2,374.72	68.21	35.814		
9,300.00	7,138.81	7,170.49	7,079.42	125.04	30.37	-173.14	1,256.62	2,895.78	2,512.77	2,443.77	69.00	36.419		
9,392.50	7,205.52	8,249.75	7,775.58	126.47	30.53	-158.02	1,932.32	2,906.41	2,554.21	2,464.89	89.32	28.595		
9,400.00	7,210.94	8,251.78	7,775.67	126.59	30.53	-159.12	1,934.34	2,906.45	2,557.68	2,468.30	89.38	28.614		
9,450.00	7,247.42	8,262.42	7,776.11	127.35	30.53	-166.78	1,944.97	2,906.64	2,581.47	2,491.74	89.73	28.768		
9,500.00	7,284.35	8,268.40	7,776.31	128.10	30.54	-174.93	1,950.95	2,906.74	2,606.28	2,516.29	89.98	28.964		
9,550.00	7,321.43	8,270.08	7,776.37	128.83	30.54	176.60	1,952.63	2,906.77	2,631.92	2,541.78	90.14	29.198		
9,600.00	7,358.38	8,267.84	7,776.30	129.52	30.54	168.00	1,950.39	2,906.73	2,658.20	2,567.98	90.22	29.464		
9,650.00	7,394.93	8,262.02	7,776.09	130.16	30.53	159.45	1,944.57	2,906.64	2,684.88	2,594.65	90.23	29.757		
9,700.00	7,430.79	8,252.96	7,775.73	130.76	30.53	151.14	1,935.52	2,906.48	2,711.72	2,621.55	90.17	30.072		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	8,240.97	7,775.15	131.30	30.52	143.19	1,923.55	2,906.24	2,738.49	2,648.42	90.07	30.403		
9,800.00	7,499.38	8,226.35	7,774.30	131.78	30.52	135.73	1,908.96	2,905.92	2,764.93	2,675.00	89.93	30.744		
9,850.00	7,531.58	8,209.35	7,773.11	132.21	30.51	128.83	1,892.01	2,905.49	2,790.80	2,701.03	89.77	31.089		
9,900.00	7,562.06	8,190.33	7,771.53	132.57	30.50	122.53	1,873.06	2,904.95	2,815.86	2,726.26	89.59	31.429		
9,950.00	7,590.58	8,176.00	7,770.16	132.87	30.50	116.95	1,858.80	2,904.50	2,839.88	2,750.27	89.62	31.689		
10,000.00	7,616.93	8,155.50	7,767.77	133.11	30.51	111.90	1,838.46	2,903.74	2,862.69	2,773.17	89.51	31.981		
10,050.00	7,640.90	10,050.00	7,763.57	133.29	31.29	107.36	1,811.76	2,902.48	2,884.13	2,793.75	90.38	31.911		
10,100.00	7,662.32	8,029.48	7,740.51	133.42	30.57	102.42	1,715.70	2,898.52	2,903.67	2,816.66	87.01	33.373		
10,150.00	7,681.01	7,992.00	7,727.46	133.50	30.60	98.94	1,680.60	2,897.46	2,920.53	2,833.92	86.61	33.719		
10,200.00	7,696.85	7,967.24	7,717.45	133.52	30.62	96.18	1,657.96	2,896.71	2,935.36	2,848.71	86.65	33.876		
10,250.00	7,709.70	7,945.00	7,707.63	133.51	30.64	93.93	1,638.03	2,895.90	2,948.14	2,861.32	86.82	33.956		
10,300.00	7,719.47	7,841.65	7,653.84	133.46	30.73	91.07	1,549.90	2,893.48	2,957.95	2,873.07	84.88	34.848		
10,350.00	7,726.09	7,816.09	7,638.84	133.37	30.75	89.73	1,529.21	2,893.10	2,965.23	2,880.12	85.11	34.838		
10,400.00	7,729.50	7,783.99	7,619.11	133.26	30.78	88.73	1,503.90	2,892.56	2,970.07	2,884.83	85.25	34.841		
10,427.79	7,730.00	7,684.72	7,550.84	133.18	30.86	87.26	1,432.01	2,892.69	2,971.31	2,888.00	83.31	35.666		
10,500.00	7,730.00	7,651.17	7,525.04	132.98	30.88	86.76	1,410.58	2,893.29	2,973.58	2,889.59	83.99	35.404		
10,600.00	7,730.00	7,614.00	7,495.26	132.72	30.89	86.19	1,388.36	2,893.96	2,978.79	2,893.57	85.22	34.953		
10,700.00	7,730.00	7,578.47	7,465.76	132.47	30.89	85.62	1,368.56	2,894.51	2,986.64	2,900.07	86.56	34.502		
10,800.00	7,730.00	7,567.00	7,456.03	132.22	30.89	85.43	1,362.50	2,894.65	2,997.40	2,908.89	88.51	33.865		
10,900.00	7,730.00	7,543.02	7,435.36	131.99	30.89	85.03	1,350.33	2,894.76	3,011.07	2,920.87	90.20	33.381		
11,000.00	7,730.00	7,519.00	7,414.24	131.77	30.88	84.63	1,338.91	2,894.55	3,027.86	2,935.94	91.92	32.940		
11,100.00	7,730.00	7,519.00	7,414.24	131.56	30.88	84.63	1,338.91	2,894.55	3,047.52	2,953.36	94.15	32.367		
11,200.00	7,730.00	7,489.23	7,387.56	131.36	30.87	84.12	1,325.71	2,894.12	3,070.03	2,974.28	95.75	32.064		
11,300.00	7,730.00	7,465.66	7,366.11	131.17	30.86	83.71	1,315.96	2,893.81	3,095.31	2,997.85	97.46	31.759		
11,400.00	7,730.00	7,437.47	7,340.10	130.99	30.84	83.21	1,305.08	2,893.57	3,123.24	3,024.17	99.07	31.526		
11,500.00	7,730.00	7,425.00	7,328.49	130.82	30.84	82.99	1,300.54	2,893.53	3,153.82	3,052.88	100.94	31.244		
11,600.00	7,730.00	7,400.76	7,305.70	130.66	30.81	82.56	1,292.28	2,893.53	3,187.01	3,084.45	102.56	31.076		
11,700.00	7,730.00	7,378.00	7,284.04	130.51	30.79	82.15	1,285.28	2,893.63	3,222.86	3,118.70	104.16	30.941		
11,800.00	7,730.00	7,378.00	7,284.04	130.37	30.79	82.15	1,285.28	2,893.63	3,261.22	3,155.14	106.08	30.743		
11,900.00	7,730.00	7,378.00	7,284.04	130.24	30.79	82.15	1,285.28	2,893.63	3,302.15	3,194.23	107.92	30.598		
12,000.00	7,730.00	7,356.28	7,263.18	130.13	30.76	81.75	1,279.26	2,893.78	3,345.37	3,236.01	109.36	30.592		
12,100.00	7,730.00	7,347.97	7,255.15	130.02	30.75	81.60	1,277.11	2,893.84	3,390.98	3,280.05	110.93	30.570		
12,200.00	7,730.00	7,331.00	7,238.68	129.93	30.73	81.29	1,273.02	2,893.96	3,438.88	3,326.57	112.31	30.620		
12,300.00	7,730.00	7,331.00	7,238.68	129.85	30.73	81.29	1,273.02	2,893.96	3,488.86	3,375.01	113.84	30.647		
12,400.00	7,730.00	7,331.00	7,238.68	129.77	30.73	81.29	1,273.02	2,893.96	3,540.95	3,425.66	115.30	30.712		
12,500.00	7,730.00	7,331.00	7,238.68	129.71	30.73	81.29	1,273.02	2,893.96	3,595.08	3,478.41	116.67	30.814		
12,600.00	7,730.00	7,331.00	7,238.68	129.66	30.73	81.29	1,273.02	2,893.96	3,651.14	3,533.17	117.97	30.950		
12,700.00	7,730.00	7,312.17	7,220.29	129.63	30.70	80.94	1,268.98	2,894.12	3,708.83	3,589.85	118.98	31.172		
12,800.00	7,730.00	7,307.92	7,216.12	129.60	30.69	80.86	1,268.15	2,894.17	3,768.39	3,648.30	120.09	31.379		
12,900.00	7,730.00	7,303.97	7,212.24	129.59	30.68	80.79	1,267.41	2,894.21	3,829.62	3,708.47	121.15	31.611		
13,000.00	7,730.00	7,284.00	7,192.55	129.59	30.65	80.42	1,264.08	2,894.47	3,892.60	3,770.62	121.98	31.912		
13,100.00	7,730.00	7,284.00	7,192.55	129.60	30.65	80.42	1,264.08	2,894.47	3,956.87	3,833.92	122.95	32.182		
13,200.00	7,730.00	7,284.00	7,192.55	129.63	30.65	80.42	1,264.08	2,894.47	4,022.59	3,898.73	123.87	32.476		
13,300.00	7,730.00	7,284.00	7,192.55	129.66	30.65	80.42	1,264.08	2,894.47	4,089.71	3,964.98	124.72	32.791		
13,400.00	7,730.00	7,284.00	7,192.55	129.72	30.65	80.42	1,264.08	2,894.47	4,158.14	4,032.62	125.52	33.126		
13,500.00	7,730.00	7,284.00	7,192.55	129.78	30.65	80.42	1,264.08	2,894.47	4,227.83	4,101.56	126.28	33.481		
13,600.00	7,730.00	7,284.00	7,192.55	129.86	30.65	80.42	1,264.08	2,894.47	4,298.72	4,171.74	126.98	33.853		
13,700.00	7,730.00	7,284.00	7,192.55	129.96	30.65	80.42	1,264.08	2,894.47	4,370.75	4,243.11	127.64	34.242		
13,800.00	7,730.00	7,284.00	7,192.55	130.07	30.65	80.42	1,264.08	2,894.47	4,443.86	4,315.60	128.26	34.647		
13,900.00	7,730.00	7,284.00	7,192.55	130.19	30.65	80.42	1,264.08	2,894.47	4,518.01	4,389.17	128.84	35.067		
14,000.00	7,730.00	7,284.00	7,192.55	130.33	30.65	80.42	1,264.08	2,894.47	4,593.13	4,463.75	129.38	35.501		
14,100.00	7,730.00	7,284.00	7,192.55	130.49	30.65	80.42	1,264.08	2,894.47	4,669.18	4,539.29	129.89	35.948		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,284.00	7,192.55	130.67	30.65	80.42	1,264.08	2,894.47	4,746.13	4,615.76	130.36	36.407		
14,300.00	7,730.00	7,284.00	7,192.55	130.86	30.65	80.42	1,264.08	2,894.47	4,823.92	4,693.11	130.81	36.878		
14,400.00	7,730.00	7,284.00	7,192.55	131.07	30.65	80.42	1,264.08	2,894.47	4,902.51	4,771.29	131.22	37.360		
14,500.00	7,730.00	7,284.00	7,192.55	131.30	30.65	80.42	1,264.08	2,894.47	4,981.87	4,850.26	131.61	37.853		
14,600.00	7,730.00	7,284.00	7,192.55	131.55	30.65	80.42	1,264.08	2,894.47	5,061.97	4,929.99	131.98	38.355		
14,700.00	7,730.00	7,284.00	7,192.55	131.82	30.65	80.42	1,264.08	2,894.47	5,142.76	5,010.44	132.32	38.867		
14,800.00	7,730.00	7,284.00	7,192.55	132.11	30.65	80.42	1,264.08	2,894.47	5,224.21	5,091.58	132.63	39.388		
14,900.00	7,730.00	7,284.00	7,192.55	132.42	30.65	80.42	1,264.08	2,894.47	5,306.30	5,173.37	132.93	39.917		
15,000.00	7,730.00	7,284.00	7,192.55	132.75	30.65	80.42	1,264.08	2,894.47	5,389.00	5,255.79	133.21	40.454		
15,100.00	7,730.00	7,284.00	7,192.55	133.10	30.65	80.42	1,264.08	2,894.47	5,472.27	5,338.80	133.47	40.999		
15,200.00	7,730.00	7,284.00	7,192.55	133.48	30.65	80.42	1,264.08	2,894.47	5,556.09	5,422.38	133.72	41.551		
15,300.00	7,730.00	7,284.00	7,192.55	133.88	30.65	80.42	1,264.08	2,894.47	5,640.45	5,506.50	133.95	42.109		
15,400.00	7,730.00	7,284.00	7,192.55	134.31	30.65	80.42	1,264.08	2,894.47	5,725.30	5,591.14	134.16	42.674		
15,500.00	7,730.00	7,284.00	7,192.55	134.76	30.65	80.42	1,264.08	2,894.47	5,810.64	5,676.28	134.36	43.246		
15,600.00	7,730.00	7,284.00	7,192.55	135.23	30.65	80.42	1,264.08	2,894.47	5,896.44	5,761.89	134.55	43.823		
15,700.00	7,730.00	7,284.00	7,192.55	135.73	30.65	80.42	1,264.08	2,894.47	5,982.68	5,847.95	134.73	44.405		
15,800.00	7,730.00	7,284.00	7,192.55	136.26	30.65	80.42	1,264.08	2,894.47	6,069.34	5,934.44	134.89	44.993		
15,900.00	7,730.00	7,284.00	7,192.55	136.81	30.65	80.42	1,264.08	2,894.47	6,156.40	6,021.35	135.05	45.586		
16,000.00	7,730.00	7,284.00	7,192.55	137.39	30.65	80.42	1,264.08	2,894.47	6,243.86	6,108.66	135.19	46.184		
16,100.00	7,730.00	7,284.00	7,192.55	138.00	30.65	80.42	1,264.08	2,894.47	6,331.68	6,196.35	135.33	46.787		
16,200.00	7,730.00	7,284.00	7,192.55	138.63	30.65	80.42	1,264.08	2,894.47	6,419.86	6,284.40	135.46	47.393		
16,300.00	7,730.00	7,284.00	7,192.55	139.30	30.65	80.42	1,264.08	2,894.47	6,508.39	6,372.81	135.58	48.004		
16,400.00	7,730.00	7,241.79	7,150.64	139.99	30.55	79.63	1,259.12	2,895.03	6,595.87	6,460.37	135.50	48.678		
16,500.00	7,730.00	7,240.95	7,149.81	140.70	30.55	79.62	1,259.05	2,895.04	6,684.98	6,549.38	135.61	49.297		
16,600.00	7,730.00	7,240.14	7,149.00	141.45	30.54	79.60	1,258.98	2,895.05	6,774.40	6,638.69	135.70	49.920		
16,700.00	7,730.00	7,239.35	7,148.21	142.22	30.54	79.59	1,258.91	2,895.06	6,864.10	6,728.30	135.80	50.547		
16,800.00	7,730.00	7,238.58	7,147.45	143.03	30.54	79.57	1,258.85	2,895.07	6,954.08	6,818.20	135.88	51.177		
16,900.00	7,730.00	7,237.84	7,146.71	143.86	30.54	79.56	1,258.79	2,895.08	7,044.33	6,908.37	135.97	51.810		
17,000.00	7,730.00	7,237.11	7,145.98	144.71	30.54	79.54	1,258.73	2,895.08	7,134.85	6,998.80	136.04	52.446		
17,100.00	7,730.00	7,236.41	7,145.28	145.60	30.54	79.53	1,258.68	2,895.09	7,225.61	7,089.49	136.11	53.085		
17,200.00	7,730.00	7,235.72	7,144.60	146.51	30.53	79.52	1,258.63	2,895.10	7,316.61	7,180.43	136.18	53.726		
17,300.00	7,730.00	7,235.05	7,143.93	147.44	30.53	79.51	1,258.58	2,895.11	7,407.84	7,271.60	136.25	54.371		
17,400.00	7,730.00	7,234.40	7,143.28	148.40	30.53	79.49	1,258.53	2,895.12	7,499.30	7,362.99	136.31	55.018		
17,500.00	7,730.00	7,233.77	7,142.65	149.39	30.53	79.48	1,258.48	2,895.12	7,590.97	7,454.60	136.36	55.667		
17,600.00	7,730.00	7,233.15	7,142.03	150.40	30.53	79.47	1,258.43	2,895.13	7,682.85	7,546.43	136.42	56.319		
17,700.00	7,730.00	7,232.54	7,141.43	151.44	30.53	79.46	1,258.39	2,895.14	7,774.92	7,638.46	136.47	56.973		
17,800.00	7,730.00	7,231.96	7,140.84	152.50	30.53	79.45	1,258.35	2,895.15	7,867.19	7,730.68	136.51	57.629		
17,900.00	7,730.00	7,189.00	7,097.93	153.58	30.42	78.65	1,256.70	2,895.60	7,961.04	7,824.64	136.41	58.362		
18,000.00	7,730.00	7,189.00	7,097.93	154.68	30.42	78.65	1,256.70	2,895.60	8,053.65	7,917.19	136.45	59.021		
18,100.00	7,730.00	7,189.00	7,097.93	155.80	30.42	78.65	1,256.70	2,895.60	8,146.42	8,009.92	136.50	59.682		
18,200.00	7,730.00	7,189.00	7,097.93	156.95	30.42	78.65	1,256.70	2,895.60	8,239.37	8,102.83	136.54	60.345		
18,300.00	7,730.00	7,189.00	7,097.93	158.11	30.42	78.65	1,256.70	2,895.60	8,332.47	8,195.90	136.58	61.009		
18,400.00	7,730.00	7,189.00	7,097.93	159.30	30.42	78.65	1,256.70	2,895.60	8,425.74	8,289.13	136.61	61.676		
18,500.00	7,730.00	7,189.00	7,097.93	160.50	30.42	78.65	1,256.70	2,895.60	8,519.16	8,382.51	136.65	62.344		
18,600.00	7,730.00	7,189.00	7,097.93	161.72	30.42	78.65	1,256.70	2,895.60	8,612.72	8,476.04	136.68	63.013		
18,700.00	7,730.00	7,189.00	7,097.93	162.96	30.42	78.65	1,256.70	2,895.60	8,706.43	8,569.72	136.71	63.684		
18,800.00	7,730.00	7,189.00	7,097.93	164.21	30.42	78.65	1,256.70	2,895.60	8,800.28	8,663.54	136.74	64.357		
18,900.00	7,730.00	7,189.00	7,097.93	165.48	30.42	78.65	1,256.70	2,895.60	8,894.26	8,757.49	136.77	65.031		
19,000.00	7,730.00	7,189.00	7,097.93	166.76	30.42	78.65	1,256.70	2,895.60	8,988.38	8,851.58	136.80	65.706		
19,100.00	7,730.00	7,189.00	7,097.93	168.06	30.42	78.65	1,256.70	2,895.60	9,082.61	8,945.79	136.82	66.383		
19,200.00	7,730.00	7,189.00	7,097.93	169.38	30.42	78.65	1,256.70	2,895.60	9,176.97	9,040.13	136.85	67.061		
19,300.00	7,730.00	7,189.00	7,097.93	170.70	30.42	78.65	1,256.70	2,895.60	9,271.45	9,134.58	136.87	67.740		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,189.00	7,097.93	172.04	30.42	78.65	1,256.70	2,895.60	9,366.04	9,229.15	136.89	68.420	
19,500.00	7,730.00	7,189.00	7,097.93	173.40	30.42	78.65	1,256.70	2,895.60	9,460.75	9,323.84	136.91	69.101	
19,600.00	7,730.00	7,189.00	7,097.93	174.76	30.42	78.65	1,256.70	2,895.60	9,555.56	9,418.63	136.93	69.783	
19,700.00	7,730.00	7,189.00	7,097.93	176.14	30.42	78.65	1,256.70	2,895.60	9,650.48	9,513.52	136.95	70.466	
19,800.00	7,730.00	7,189.00	7,097.93	177.52	30.42	78.65	1,256.70	2,895.60	9,745.49	9,608.52	136.97	71.150	
19,900.00	7,730.00	7,189.00	7,097.93	178.92	30.42	78.65	1,256.70	2,895.60	9,840.61	9,703.62	136.99	71.835	
20,000.00	7,730.00	7,189.00	7,097.93	180.33	30.42	78.65	1,256.70	2,895.60	9,935.82	9,798.82	137.01	72.521	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	176.21	-4,017.74	266.33	4,026.58					
100.00	100.00	54.28	54.28	0.13	0.09	176.20	-4,017.93	266.58	4,026.89	4,026.67	0.22	N/A		
200.00	199.98	120.00	119.99	0.49	0.20	105.72	-4,018.70	267.57	4,028.61	4,027.93	0.69	5,878.620		
300.00	299.84	298.67	298.62	0.86	0.83	105.77	-4,020.04	270.47	4,031.04	4,029.36	1.69	2,391.310		
400.00	399.45	411.80	411.75	1.23	1.23	105.85	-4,019.36	271.45	4,032.88	4,030.41	2.46	1,637.644		
500.00	498.70	517.15	517.07	1.63	1.61	105.94	-4,018.54	273.89	4,035.60	4,032.36	3.24	1,247.028		
600.00	597.47	824.52	822.60	2.05	2.77	106.16	-4,006.59	302.98	4,036.77	4,031.95	4.81	838.442		
700.00	695.62	1,016.10	1,010.89	2.51	3.59	106.23	-3,990.92	334.63	4,034.78	4,028.71	6.07	664.624		
800.00	793.06	1,101.00	1,093.83	3.00	3.98	106.29	-3,983.02	350.96	4,032.92	4,025.98	6.94	581.208		
875.90	866.45	1,164.51	1,155.83	3.41	4.28	106.33	-3,977.41	363.49	4,032.53	4,024.90	7.63	528.330		
900.00	889.64	1,189.62	1,180.37	3.53	4.40	106.35	-3,975.24	368.38	4,032.57	4,024.69	7.88	512.024		
972.07	958.67	1,299.44	1,287.90	3.95	4.91	106.50	-3,965.01	388.20	4,032.40	4,023.61	8.79	458.851		
1,000.00	985.27	1,319.13	1,307.20	4.12	5.01	106.53	-3,963.15	391.64	4,032.47	4,023.43	9.04	446.138 ES		
1,100.00	1,079.82	1,406.39	1,392.66	4.75	5.42	106.67	-3,955.26	407.38	4,033.77	4,023.71	10.06	400.906		
1,200.00	1,173.17	1,554.24	1,536.94	5.44	6.15	106.95	-3,940.91	436.32	4,035.59	4,024.15	11.43	352.969		
1,300.00	1,265.21	1,674.91	1,654.20	6.18	6.77	107.19	-3,928.00	461.69	4,037.52	4,024.76	12.75	316.632		
1,400.00	1,355.84	1,779.38	1,755.79	6.99	7.30	107.44	-3,916.41	483.11	4,040.16	4,026.11	14.05	287.641		
1,500.00	1,444.94	1,863.11	1,837.42	7.87	7.73	107.66	-3,907.25	499.35	4,044.11	4,028.82	15.29	264.491		
1,600.00	1,532.39	1,941.16	1,913.50	8.80	8.13	107.86	-3,899.04	514.69	4,049.68	4,033.12	16.57	244.466		
1,700.00	1,618.11	2,037.11	2,007.06	9.81	8.62	108.15	-3,889.14	533.57	4,056.73	4,038.74	17.99	225.540		
1,800.00	1,701.97	2,142.76	2,109.86	10.89	9.16	108.49	-3,878.05	555.22	4,064.96	4,045.43	19.52	208.219		
1,900.00	1,783.88	2,242.23	2,206.37	12.04	9.69	108.80	-3,867.40	576.86	4,074.37	4,053.27	21.10	193.101		
2,000.00	1,863.74	2,348.58	2,309.53	13.26	10.26	109.17	-3,855.83	599.94	4,085.07	4,062.30	22.77	179.409		
2,100.00	1,941.45	2,460.37	2,418.01	14.55	10.86	109.59	-3,842.97	623.68	4,096.70	4,072.18	24.52	167.098		
2,200.00	2,016.92	2,538.25	2,493.61	15.92	11.28	109.83	-3,833.92	640.05	4,109.86	4,083.71	26.15	157.156		
2,292.11	2,084.36	2,598.00	2,551.48	17.25	11.61	109.95	-3,827.29	653.35	4,123.83	4,096.18	27.65	149.162		
2,300.00	2,090.06	2,697.08	2,647.46	17.36	12.14	110.62	-3,815.37	674.83	4,124.98	4,096.74	28.24	146.062		
2,400.00	2,162.18	2,776.42	2,724.46	18.84	12.57	111.16	-3,804.99	690.92	4,139.61	4,109.66	29.94	138.248		
2,500.00	2,234.31	2,820.99	2,767.75	20.33	12.81	111.47	-3,799.37	699.89	4,155.25	4,123.78	31.48	132.013		
2,600.00	2,306.43	2,881.00	2,826.09	21.83	13.12	111.87	-3,792.70	712.30	4,172.53	4,139.46	33.07	126.154		
2,700.00	2,378.56	2,964.68	2,907.38	23.33	13.57	112.43	-3,783.72	730.00	4,190.78	4,155.99	34.79	120.474		
2,800.00	2,450.68	3,056.44	2,996.36	24.84	14.07	113.03	-3,773.34	749.88	4,209.01	4,172.47	36.53	115.213		
2,900.00	2,522.81	3,108.33	3,046.63	26.36	14.35	113.36	-3,767.66	761.39	4,228.05	4,189.97	38.07	111.055		
3,000.00	2,594.93	3,165.00	3,101.59	27.88	14.66	113.73	-3,762.11	774.04	4,248.45	4,208.82	39.62	107.223		
3,100.00	2,667.06	3,317.46	3,249.14	29.40	15.51	114.68	-3,745.93	808.81	4,268.50	4,226.84	41.66	102.456		
3,200.00	2,739.18	3,398.47	3,327.57	30.92	15.96	115.19	-3,736.92	827.03	4,288.74	4,245.43	43.32	99.011		
3,300.00	2,811.31	3,489.86	3,416.05	32.45	16.46	115.76	-3,726.80	847.54	4,309.51	4,264.50	45.01	95.753		
3,400.00	2,883.43	3,574.05	3,497.59	33.98	16.93	116.28	-3,717.26	866.17	4,330.57	4,283.93	46.64	92.844		
3,500.00	2,955.56	3,639.00	3,560.58	35.51	17.28	116.68	-3,710.16	880.35	4,352.46	4,304.30	48.17	90.363		
3,600.00	3,027.68	3,714.65	3,634.00	37.04	17.69	117.15	-3,702.13	896.68	4,375.14	4,325.41	49.72	87.987		
3,700.00	3,099.81	3,776.39	3,693.99	38.57	18.02	117.53	-3,695.75	909.83	4,398.56	4,347.37	51.19	85.920		
3,800.00	3,171.93	3,827.00	3,743.25	40.11	18.29	117.84	-3,690.79	920.35	4,423.02	4,370.43	52.59	84.108		
3,900.00	3,244.06	3,888.69	3,803.42	41.64	18.61	118.23	-3,685.05	932.65	4,448.49	4,394.48	54.01	82.367		
4,000.00	3,316.18	3,942.56	3,856.13	43.18	18.88	118.57	-3,680.27	942.75	4,475.00	4,419.64	55.37	80.827		
4,100.00	3,388.31	3,993.72	3,906.31	44.71	19.13	118.90	-3,675.96	951.66	4,502.60	4,445.92	56.68	79.440		
4,200.00	3,460.43	4,037.58	3,949.45	46.25	19.33	119.18	-3,672.47	958.76	4,531.34	4,473.41	57.93	78.220		
4,300.00	3,532.56	4,075.74	3,987.08	47.79	19.51	119.44	-3,669.71	964.55	4,561.37	4,502.24	59.13	77.145		
4,400.00	3,604.68	4,111.00	4,021.90	49.33	19.66	119.67	-3,667.43	969.58	4,592.70	4,532.41	60.29	76.182		
4,500.00	3,676.81	4,154.56	4,065.01	50.87	19.84	119.96	-3,664.88	975.28	4,625.28	4,563.83	61.45	75.272		
4,600.00	3,748.93	4,205.00	4,115.04	52.41	20.05	120.31	-3,662.21	981.05	4,659.10	4,596.48	62.62	74.406		
4,700.00	3,821.06	4,249.03	4,158.80	53.95	20.22	120.61	-3,660.00	985.37	4,693.99	4,630.27	63.72	73.667		
4,800.00	3,893.18	4,299.00	4,208.54	55.49	20.41	120.97	-3,657.42	989.49	4,729.80	4,664.98	64.82	72.967		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	3,965.31	4,341.14	4,250.53	57.03	20.55	121.27	-3,655.36	992.37	4,766.69	4,700.84	65.86	72.381		
5,000.00	4,037.43	4,394.00	4,303.26	58.58	20.73	121.65	-3,653.16	995.30	4,804.87	4,737.96	66.91	71.812		
5,100.00	4,109.56	4,394.00	4,303.26	60.12	20.73	121.65	-3,653.16	995.30	4,844.20	4,776.48	67.72	71.533		
5,200.00	4,181.68	4,437.69	4,346.89	61.66	20.87	121.97	-3,651.79	997.17	4,884.74	4,816.06	68.68	71.122		
5,300.00	4,253.81	4,488.00	4,397.16	63.20	21.02	122.34	-3,650.86	998.76	4,926.74	4,857.09	69.65	70.736		
5,400.00	4,325.93	4,498.90	4,408.06	64.75	21.05	122.42	-3,650.73	999.03	4,969.71	4,899.29	70.43	70.567		
5,500.00	4,398.06	4,556.33	4,465.48	66.29	21.22	122.84	-3,650.13	1,000.28	5,013.74	4,942.36	71.38	70.241		
5,600.00	4,470.18	4,629.60	4,538.73	67.84	21.43	123.37	-3,649.42	1,001.59	5,058.46	4,986.08	72.38	69.883		
5,700.00	4,542.31	4,710.75	4,619.86	69.38	21.67	123.95	-3,648.55	1,003.17	5,103.56	5,030.15	73.41	69.518		
5,800.00	4,614.43	4,785.52	4,694.60	70.92	21.89	124.47	-3,647.77	1,004.79	5,149.13	5,074.72	74.40	69.205		
5,900.00	4,686.56	4,867.05	4,776.11	72.47	22.13	125.04	-3,646.94	1,006.78	5,195.10	5,119.68	75.42	68.884		
6,000.00	4,758.68	4,953.11	4,862.14	74.01	22.39	125.62	-3,645.96	1,009.05	5,241.39	5,164.95	76.44	68.566		
6,100.00	4,830.81	5,023.38	4,932.37	75.56	22.60	126.09	-3,645.09	1,010.90	5,288.06	5,210.68	77.38	68.335		
6,200.00	4,902.93	5,098.52	5,007.48	77.10	22.83	126.59	-3,644.16	1,012.77	5,335.22	5,256.89	78.34	68.107		
6,300.00	4,975.06	5,172.77	5,081.71	78.65	23.05	127.08	-3,643.07	1,014.38	5,382.76	5,303.49	79.27	67.906		
6,400.00	5,047.18	5,237.85	5,146.77	80.19	23.25	127.51	-3,642.00	1,015.40	5,430.80	5,350.66	80.14	67.767		
6,500.00	5,119.31	5,294.55	5,203.46	81.74	23.41	127.89	-3,641.05	1,015.96	5,479.42	5,398.47	80.95	67.685		
6,600.00	5,191.43	5,338.00	5,246.90	83.28	23.54	128.17	-3,640.37	1,016.23	5,528.70	5,447.01	81.69	67.675		
6,700.00	5,263.56	5,393.12	5,302.02	84.83	23.69	128.53	-3,639.64	1,016.31	5,578.69	5,496.22	82.47	67.647		
6,800.00	5,335.68	5,438.81	5,347.71	86.37	23.82	128.83	-3,639.19	1,016.13	5,629.44	5,546.25	83.18	67.675		
6,900.00	5,407.81	5,490.12	5,399.01	87.92	23.96	129.16	-3,638.84	1,015.80	5,680.87	5,596.97	83.91	67.705		
7,000.00	5,479.93	5,548.09	5,456.99	89.47	24.11	129.53	-3,638.64	1,015.34	5,732.94	5,648.29	84.65	67.727		
7,100.00	5,552.06	5,623.96	5,532.84	91.01	24.31	130.01	-3,638.40	1,014.72	5,785.41	5,699.95	85.46	67.696		
7,200.00	5,624.18	5,689.21	5,598.10	92.56	24.49	130.41	-3,638.16	1,014.11	5,838.26	5,752.04	86.22	67.716		
7,300.00	5,696.31	5,761.85	5,670.73	94.10	24.68	130.86	-3,637.86	1,013.27	5,891.50	5,804.51	87.00	67.721		
7,400.00	5,768.43	5,833.15	5,742.02	95.65	24.87	131.30	-3,637.46	1,012.38	5,945.05	5,857.29	87.76	67.741		
7,500.00	5,840.56	5,893.98	5,802.84	97.20	25.04	131.67	-3,637.16	1,011.52	5,999.02	5,910.55	88.47	67.809		
7,600.00	5,912.68	5,972.32	5,881.18	98.74	25.25	132.14	-3,636.77	1,010.36	6,053.37	5,964.11	89.25	67.823		
7,700.00	5,984.81	6,039.46	5,948.30	100.29	25.57	132.82	-3,635.84	1,008.92	6,107.77	6,017.55	90.22	67.701		
7,800.00	6,056.93	6,114.07	6,025.91	101.84	25.81	133.31	-3,634.94	1,008.39	6,162.07	6,071.04	91.03	67.690		
7,900.00	6,129.06	6,202.24	6,119.07	103.38	26.10	133.85	-3,633.83	1,008.16	6,216.47	6,124.56	91.91	67.638		
8,000.00	6,201.18	6,354.00	6,262.83	104.93	26.35	134.31	-3,632.55	1,007.93	6,270.94	6,178.22	92.71	67.637		
8,100.00	6,273.31	6,420.56	6,329.37	106.48	26.54	134.68	-3,631.33	1,007.54	6,325.64	6,232.22	93.42	67.709		
8,200.00	6,345.43	6,481.59	6,390.39	108.02	26.72	135.02	-3,630.16	1,006.91	6,380.76	6,286.66	94.10	67.811		
8,300.00	6,417.56	6,549.63	6,458.40	109.57	26.92	135.39	-3,628.86	1,006.08	6,436.23	6,341.43	94.79	67.897		
8,400.00	6,489.68	6,633.53	6,542.28	111.12	27.17	135.84	-3,627.26	1,005.13	6,491.95	6,396.38	95.57	67.932		
8,500.00	6,561.81	6,686.36	6,595.10	112.66	27.32	136.11	-3,626.29	1,004.68	6,547.88	6,451.70	96.18	68.080		
8,600.00	6,633.93	6,721.88	6,630.62	114.21	27.43	136.30	-3,625.87	1,004.36	6,604.44	6,507.74	96.70	68.299		
8,700.00	6,706.06	6,758.90	6,667.64	115.76	27.54	136.49	-3,625.67	1,004.00	6,661.64	6,564.42	97.22	68.522		
8,800.00	6,778.18	6,842.95	6,751.69	117.30	27.78	136.92	-3,625.31	1,003.12	6,719.19	6,621.21	97.98	68.580		
8,900.00	6,850.31	6,926.16	6,834.89	118.85	28.02	137.33	-3,624.87	1,002.39	6,776.84	6,678.11	98.73	68.641		
9,000.00	6,922.43	7,034.77	6,943.50	120.40	28.35	137.86	-3,624.29	1,002.01	6,834.48	6,734.86	99.62	68.603		
9,100.00	6,994.56	7,093.65	7,002.38	121.95	28.53	138.14	-3,623.96	1,002.00	6,892.18	6,791.93	100.26	68.746		
9,200.00	7,066.68	7,164.67	7,073.40	123.49	28.75	138.47	-3,623.77	1,002.02	6,950.23	6,849.28	100.95	68.846		
9,300.00	7,138.81	7,254.52	7,163.25	125.04	29.02	138.89	-3,623.25	1,002.06	7,008.29	6,906.54	101.75	68.878		
9,392.50	7,205.52	7,314.69	7,223.41	126.47	29.21	139.17	-3,622.84	1,002.03	7,062.17	6,959.82	102.35	68.997		
9,400.00	7,210.94	7,319.57	7,228.29	126.59	29.23	138.13	-3,622.81	1,002.02	7,066.52	6,964.12	102.40	69.007		
9,450.00	7,247.42	7,368.99	7,277.71	127.35	29.38	131.33	-3,622.45	1,001.99	7,093.77	6,990.93	102.83	68.983		
9,500.00	7,284.35	7,421.14	7,329.86	128.10	29.54	124.67	-3,622.04	1,002.08	7,117.87	7,014.57	103.30	68.906		
9,550.00	7,321.43	7,449.88	7,358.60	128.83	29.63	118.11	-3,621.81	1,002.15	7,138.72	7,035.07	103.64	68.877		
9,600.00	7,358.38	7,480.17	7,388.89	129.52	29.73	111.86	-3,621.58	1,002.18	7,156.24	7,052.24	104.01	68.804		
9,650.00	7,394.93	7,510.06	7,418.77	130.16	29.82	106.04	-3,621.37	1,002.19	7,170.34	7,065.97	104.37	68.698		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,430.79	7,557.11	7,465.82	130.76	29.97	100.82	-3,621.03	1,002.23	7,180.88	7,076.05	104.84	68.497		
9,750.00	7,465.70	7,603.59	7,512.31	131.30	30.12	96.18	-3,620.68	1,002.36	7,187.77	7,082.49	105.29	68.268		
9,800.00	7,499.38	7,648.77	7,557.48	131.78	30.26	92.15	-3,620.30	1,002.56	7,190.99	7,085.27	105.72	68.018		
9,850.00	7,531.58	7,691.87	7,600.58	132.21	30.40	88.75	-3,619.86	1,002.77	7,190.54	7,084.41	106.13	67.754		
9,900.00	7,562.06	7,719.20	7,627.91	132.57	30.49	85.86	-3,619.57	1,002.91	7,186.48	7,080.05	106.43	67.526		
9,950.00	7,590.58	7,742.16	7,650.86	132.87	30.56	83.56	-3,619.36	1,003.04	7,178.90	7,072.22	106.68	67.296		
10,000.00	7,616.93	7,763.39	7,672.10	133.11	30.63	81.83	-3,619.19	1,003.17	7,167.86	7,060.97	106.89	67.056		
10,050.00	7,640.90	7,782.76	7,691.46	133.29	30.69	80.67	-3,619.06	1,003.29	7,153.47	7,046.39	107.07	66.809		
10,100.00	7,662.32	7,800.43	7,709.13	133.42	30.75	80.05	-3,618.95	1,003.41	7,135.82	7,028.60	107.22	66.554		
10,150.00	7,681.01	7,816.41	7,725.11	133.50	30.80	79.99	-3,618.87	1,003.51	7,115.04	7,007.71	107.33	66.292		
10,200.00	7,696.85	7,829.93	7,738.63	133.52	30.84	80.48	-3,618.80	1,003.60	7,091.29	6,983.89	107.40	66.027		
10,250.00	7,709.70	7,840.89	7,749.59	133.51	30.88	81.55	-3,618.75	1,003.67	7,064.73	6,957.30	107.43	65.759		
10,300.00	7,719.47	7,849.19	7,757.89	133.46	30.90	83.22	-3,618.71	1,003.72	7,035.55	6,928.11	107.43	65.488		
10,350.00	7,726.09	7,854.76	7,763.46	133.37	30.92	85.54	-3,618.69	1,003.76	7,003.94	6,896.55	107.40	65.214		
10,400.00	7,729.50	7,857.55	7,766.25	133.26	30.93	88.58	-3,618.68	1,003.78	6,970.14	6,862.80	107.34	64.936		
10,427.79	7,730.00	7,857.89	7,766.59	133.18	30.93	90.60	-3,618.68	1,003.78	6,950.48	6,843.19	107.29	64.780		
10,500.00	7,730.00	7,857.64	7,766.34	132.98	30.93	90.60	-3,618.68	1,003.78	6,898.83	6,791.67	107.17	64.374		
10,600.00	7,730.00	7,857.29	7,765.99	132.72	30.93	90.59	-3,618.68	1,003.77	6,827.92	6,720.93	107.00	63.815		
10,700.00	7,730.00	7,856.94	7,765.64	132.47	30.93	90.59	-3,618.68	1,003.77	6,757.75	6,650.92	106.83	63.258		
10,800.00	7,730.00	7,856.59	7,765.29	132.22	30.93	90.58	-3,618.68	1,003.77	6,688.33	6,581.67	106.66	62.704		
10,900.00	7,730.00	7,856.23	7,764.93	131.99	30.92	90.58	-3,618.68	1,003.77	6,619.70	6,513.19	106.51	62.153		
11,000.00	7,730.00	7,855.88	7,764.58	131.77	30.92	90.58	-3,618.69	1,003.77	6,551.87	6,445.52	106.35	61.605		
11,100.00	7,730.00	7,855.52	7,764.22	131.56	30.92	90.57	-3,618.69	1,003.76	6,484.88	6,378.67	106.21	61.060		
11,200.00	7,730.00	7,855.16	7,763.86	131.36	30.92	90.57	-3,618.69	1,003.76	6,418.74	6,312.68	106.06	60.518		
11,300.00	7,730.00	7,854.80	7,763.50	131.17	30.92	90.56	-3,618.69	1,003.76	6,353.49	6,247.56	105.93	59.978		
11,400.00	7,730.00	7,854.44	7,763.14	130.99	30.92	90.56	-3,618.69	1,003.76	6,289.16	6,183.35	105.80	59.441		
11,500.00	7,730.00	7,854.07	7,762.77	130.82	30.92	90.55	-3,618.69	1,003.75	6,225.76	6,120.07	105.69	58.908		
11,600.00	7,730.00	7,853.70	7,762.41	130.66	30.92	90.55	-3,618.70	1,003.75	6,163.34	6,057.76	105.58	58.377		
11,700.00	7,730.00	7,853.34	7,762.04	130.51	30.91	90.55	-3,618.70	1,003.75	6,101.91	5,996.43	105.48	57.849		
11,800.00	7,730.00	7,852.97	7,761.67	130.37	30.91	90.54	-3,618.70	1,003.75	6,041.52	5,936.13	105.39	57.323		
11,900.00	7,730.00	7,852.59	7,761.29	130.24	30.91	90.54	-3,618.70	1,003.74	5,982.19	5,876.87	105.32	56.801		
12,000.00	7,730.00	7,852.22	7,760.92	130.13	30.91	90.53	-3,618.70	1,003.74	5,923.95	5,818.70	105.25	56.282		
12,100.00	7,730.00	7,851.84	7,760.55	130.02	30.91	90.53	-3,618.70	1,003.74	5,866.84	5,761.63	105.21	55.766		
12,200.00	7,730.00	7,851.47	7,760.17	129.93	30.91	90.52	-3,618.70	1,003.74	5,810.89	5,705.72	105.17	55.252		
12,300.00	7,730.00	7,851.09	7,759.79	129.85	30.91	90.52	-3,618.71	1,003.74	5,756.13	5,650.98	105.15	54.742		
12,400.00	7,730.00	7,850.70	7,759.41	129.77	30.91	90.51	-3,618.71	1,003.73	5,702.60	5,597.45	105.15	54.235		
12,500.00	7,730.00	7,850.32	7,759.02	129.71	30.91	90.51	-3,618.71	1,003.73	5,650.33	5,545.17	105.16	53.731		
12,600.00	7,730.00	7,849.94	7,758.64	129.66	30.90	90.50	-3,618.71	1,003.73	5,599.36	5,494.17	105.19	53.231		
12,700.00	7,730.00	7,849.55	7,758.25	129.63	30.90	90.50	-3,618.71	1,003.73	5,549.73	5,444.49	105.24	52.734		
12,800.00	7,730.00	7,849.16	7,757.86	129.60	30.90	90.50	-3,618.71	1,003.72	5,501.46	5,396.15	105.31	52.241		
12,900.00	7,730.00	7,848.77	7,757.47	129.59	30.90	90.49	-3,618.72	1,003.72	5,454.61	5,349.21	105.40	51.751		
13,000.00	7,730.00	7,848.38	7,757.08	129.59	30.90	90.49	-3,618.72	1,003.72	5,409.19	5,303.68	105.51	51.266		
13,100.00	7,730.00	7,847.98	7,756.68	129.60	30.90	90.48	-3,618.72	1,003.72	5,365.25	5,259.61	105.65	50.785		
13,200.00	7,730.00	7,847.58	7,756.28	129.63	30.90	90.48	-3,618.72	1,003.71	5,322.83	5,217.03	105.80	50.309		
13,300.00	7,730.00	7,847.18	7,755.89	129.66	30.90	90.47	-3,618.72	1,003.71	5,281.97	5,175.98	105.98	49.838		
13,400.00	7,730.00	7,846.78	7,755.48	129.72	30.89	90.47	-3,618.72	1,003.71	5,242.69	5,136.50	106.19	49.372		
13,500.00	7,730.00	7,846.38	7,755.08	129.78	30.89	90.46	-3,618.73	1,003.71	5,205.04	5,098.62	106.42	48.912		
13,600.00	7,730.00	7,845.97	7,754.68	129.86	30.89	90.46	-3,618.73	1,003.70	5,169.04	5,062.37	106.67	48.458		
13,700.00	7,730.00	7,845.57	7,754.27	129.96	30.89	90.45	-3,618.73	1,003.70	5,134.75	5,027.80	106.95	48.011		
13,800.00	7,730.00	7,845.16	7,753.86	130.07	30.89	90.45	-3,618.73	1,003.70	5,102.18	4,994.92	107.25	47.571		
13,900.00	7,730.00	7,844.74	7,753.45	130.19	30.89	90.44	-3,618.73	1,003.69	5,071.37	4,963.79	107.59	47.138		
14,000.00	7,730.00	7,844.33	7,753.03	130.33	30.89	90.44	-3,618.73	1,003.69	5,042.37	4,934.42	107.94	46.714		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,843.91	7,752.62	130.49	30.88	90.43	-3,618.74	1,003.69	5,015.18	4,906.86	108.32	46.298		
14,200.00	7,730.00	7,843.50	7,752.20	130.67	30.88	90.43	-3,618.74	1,003.69	4,989.86	4,881.13	108.73	45.892		
14,300.00	7,730.00	7,843.08	7,751.78	130.86	30.88	90.42	-3,618.74	1,003.68	4,966.42	4,857.25	109.16	45.497		
14,400.00	7,730.00	7,842.65	7,751.35	131.07	30.88	90.42	-3,618.74	1,003.68	4,944.88	4,835.27	109.62	45.111		
14,500.00	7,730.00	7,842.23	7,750.93	131.30	30.88	90.41	-3,618.74	1,003.68	4,925.29	4,815.20	110.09	44.738		
14,600.00	7,730.00	7,841.80	7,750.50	131.55	30.88	90.41	-3,618.75	1,003.68	4,907.66	4,797.06	110.59	44.376		
14,700.00	7,730.00	7,841.37	7,750.07	131.82	30.88	90.40	-3,618.75	1,003.67	4,892.00	4,780.89	111.11	44.027		
14,800.00	7,730.00	7,840.94	7,749.64	132.11	30.88	90.40	-3,618.75	1,003.67	4,878.35	4,766.70	111.66	43.691		
14,900.00	7,730.00	7,840.51	7,749.21	132.42	30.87	90.39	-3,618.75	1,003.67	4,866.72	4,754.50	112.22	43.369		
15,000.00	7,730.00	7,840.07	7,748.77	132.75	30.87	90.39	-3,618.75	1,003.67	4,857.11	4,744.32	112.79	43.062		
15,100.00	7,730.00	7,839.63	7,748.33	133.10	30.87	90.38	-3,618.76	1,003.66	4,849.55	4,736.16	113.39	42.770		
15,200.00	7,730.00	7,839.19	7,747.89	133.48	30.87	90.38	-3,618.76	1,003.66	4,844.04	4,730.05	113.99	42.494		
15,300.00	7,730.00	7,838.75	7,747.45	133.88	30.87	90.37	-3,618.76	1,003.66	4,840.59	4,725.98	114.61	42.234		
15,400.00	7,730.00	7,838.30	7,747.00	134.31	30.87	90.37	-3,618.76	1,003.65	4,839.21	4,723.97	115.24	41.991		
15,416.98	7,730.00	7,838.22	7,746.93	134.38	30.87	90.37	-3,618.76	1,003.65	4,839.18	4,723.83	115.35	41.951		
15,500.00	7,730.00	7,837.85	7,746.55	134.76	30.87	90.36	-3,618.76	1,003.65	4,839.89	4,724.01	115.88	41.765		
15,600.00	7,730.00	7,837.40	7,746.10	135.23	30.86	90.36	-3,618.77	1,003.65	4,842.64	4,726.11	116.53	41.557		
15,700.00	7,730.00	7,836.95	7,745.65	135.73	30.86	90.35	-3,618.77	1,003.65	4,847.45	4,730.27	117.18	41.366		
15,800.00	7,730.00	7,836.49	7,745.19	136.26	30.86	90.35	-3,618.77	1,003.64	4,854.31	4,736.47	117.84	41.194		
15,900.00	7,730.00	7,836.03	7,744.74	136.81	30.86	90.34	-3,618.77	1,003.64	4,863.23	4,744.73	118.50	41.040		
16,000.00	7,730.00	7,835.57	7,744.27	137.39	30.86	90.33	-3,618.77	1,003.64	4,874.17	4,755.02	119.16	40.905		
16,100.00	7,730.00	7,835.11	7,743.81	138.00	30.86	90.33	-3,618.78	1,003.63	4,887.14	4,767.33	119.82	40.789		
16,200.00	7,730.00	7,834.64	7,743.35	138.63	30.86	90.32	-3,618.78	1,003.63	4,902.12	4,781.65	120.47	40.691		
16,300.00	7,730.00	7,834.18	7,742.88	139.30	30.85	90.32	-3,618.78	1,003.63	4,919.08	4,797.96	121.12	40.613		
16,400.00	7,730.00	7,833.70	7,742.41	139.99	30.85	90.31	-3,618.78	1,003.62	4,938.01	4,816.25	121.77	40.553		
16,500.00	7,730.00	7,833.23	7,741.93	140.70	30.85	90.31	-3,618.78	1,003.62	4,958.89	4,836.48	122.40	40.512		
16,600.00	7,730.00	7,832.75	7,741.46	141.45	30.85	90.30	-3,618.79	1,003.62	4,981.68	4,858.65	123.03	40.490		
16,700.00	7,730.00	7,832.28	7,740.98	142.22	30.85	90.30	-3,618.79	1,003.62	5,006.37	4,882.72	123.65	40.487 SF		
16,800.00	7,730.00	7,831.79	7,740.50	143.03	30.85	90.29	-3,618.79	1,003.61	5,032.93	4,908.67	124.26	40.503		
16,900.00	7,730.00	7,831.31	7,740.01	143.86	30.84	90.28	-3,618.79	1,003.61	5,061.32	4,936.46	124.86	40.536		
17,000.00	7,730.00	7,830.82	7,739.52	144.71	30.84	90.28	-3,618.80	1,003.61	5,091.52	4,966.08	125.44	40.588		
17,100.00	7,730.00	7,830.33	7,739.03	145.60	30.84	90.27	-3,618.80	1,003.60	5,123.49	4,997.48	126.01	40.658		
17,200.00	7,730.00	7,829.84	7,738.54	146.51	30.84	90.27	-3,618.80	1,003.60	5,157.21	5,030.63	126.57	40.746		
17,300.00	7,730.00	7,829.34	7,738.05	147.44	30.84	90.26	-3,618.80	1,003.60	5,192.63	5,065.51	127.11	40.850		
17,400.00	7,730.00	7,828.85	7,737.55	148.40	30.84	90.26	-3,618.81	1,003.59	5,229.72	5,102.08	127.64	40.972		
17,500.00	7,730.00	7,828.34	7,737.05	149.39	30.84	90.25	-3,618.81	1,003.59	5,268.45	5,140.30	128.15	41.111		
17,600.00	7,730.00	7,827.84	7,736.54	150.40	30.83	90.24	-3,618.81	1,003.59	5,308.78	5,180.13	128.65	41.265		
17,700.00	7,730.00	7,827.33	7,736.04	151.44	30.83	90.24	-3,618.81	1,003.58	5,350.68	5,221.55	129.13	41.436		
17,800.00	7,730.00	7,826.82	7,735.53	152.50	30.83	90.23	-3,618.82	1,003.58	5,394.10	5,264.51	129.59	41.623		
17,900.00	7,730.00	7,826.31	7,735.01	153.58	30.83	90.23	-3,618.82	1,003.58	5,439.02	5,308.98	130.04	41.825		
18,000.00	7,730.00	7,825.79	7,734.50	154.68	30.83	90.22	-3,618.82	1,003.57	5,485.39	5,354.92	130.48	42.041		
18,100.00	7,730.00	7,825.28	7,733.98	155.80	30.83	90.21	-3,618.82	1,003.57	5,533.18	5,402.29	130.89	42.273		
18,200.00	7,730.00	7,824.75	7,733.46	156.95	30.82	90.21	-3,618.83	1,003.57	5,582.36	5,451.06	131.29	42.518		
18,300.00	7,730.00	7,824.23	7,732.93	158.11	30.82	90.20	-3,618.83	1,003.56	5,632.88	5,501.20	131.68	42.777		
18,400.00	7,730.00	7,823.70	7,732.40	159.30	30.82	90.19	-3,618.83	1,003.56	5,684.71	5,552.66	132.05	43.050		
18,500.00	7,730.00	7,823.17	7,731.87	160.50	30.82	90.19	-3,618.83	1,003.56	5,737.81	5,605.41	132.40	43.336		
18,600.00	7,730.00	7,822.63	7,731.34	161.72	30.82	90.18	-3,618.84	1,003.55	5,792.16	5,659.41	132.74	43.634		
18,700.00	7,730.00	7,822.10	7,730.80	162.96	30.82	90.18	-3,618.84	1,003.55	5,847.71	5,714.64	133.07	43.945		
18,800.00	7,730.00	7,821.56	7,730.26	164.21	30.81	90.17	-3,618.84	1,003.55	5,904.43	5,771.04	133.38	44.267		
18,900.00	7,730.00	7,821.01	7,729.71	165.48	30.81	90.16	-3,618.84	1,003.54	5,962.28	5,828.61	133.68	44.602		
19,000.00	7,730.00	7,820.47	7,729.17	166.76	30.81	90.16	-3,618.85	1,003.54	6,021.25	5,887.28	133.96	44.947		
19,100.00	7,730.00	7,819.91	7,728.62	168.06	30.81	90.15	-3,618.85	1,003.54	6,081.28	5,947.05	134.23	45.303		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY												Offset Well Error:	0.00 usft
Survey Program: 120-MWD OWSG													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	7,730.00	7,819.36	7,728.06	169.38	30.81	90.14	-3,618.85	1,003.53	6,142.36	6,007.87	134.49	45.670	
19,300.00	7,730.00	7,818.80	7,727.51	170.70	30.80	90.14	-3,618.86	1,003.53	6,204.45	6,069.71	134.74	46.047	
19,400.00	7,730.00	7,818.24	7,726.95	172.04	30.80	90.13	-3,618.86	1,003.52	6,267.52	6,132.54	134.98	46.435	
19,500.00	7,730.00	7,817.68	7,726.38	173.40	30.80	90.12	-3,618.86	1,003.52	6,331.54	6,196.34	135.20	46.831	
19,600.00	7,730.00	7,817.11	7,725.81	174.76	30.80	90.12	-3,618.86	1,003.52	6,396.48	6,261.07	135.41	47.237	
19,700.00	7,730.00	7,816.54	7,725.24	176.14	30.80	90.11	-3,618.87	1,003.51	6,462.32	6,326.70	135.61	47.652	
19,800.00	7,730.00	7,815.97	7,724.67	177.52	30.80	90.10	-3,618.87	1,003.51	6,529.02	6,393.21	135.81	48.076	
19,900.00	7,730.00	7,815.39	7,724.09	178.92	30.79	90.10	-3,618.87	1,003.51	6,596.57	6,460.58	135.99	48.508	
20,000.00	7,730.00	7,814.81	7,723.51	180.33	30.79	90.09	-3,618.88	1,003.50	6,664.93	6,528.77	136.16	48.949	
20,100.00	7,730.00	7,814.22	7,722.92	181.75	30.79	90.08	-3,618.88	1,003.50	6,734.08	6,597.76	136.33	49.397	
20,184.95	7,730.00	7,813.72	7,722.42	182.96	30.79	90.08	-3,618.88	1,003.50	6,793.43	6,656.97	136.46	49.784	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	176.22	-4,028.66	266.33	4,037.48				
100.00	100.00	100.20	100.20	0.13	0.17	176.21	-4,028.49	266.56	4,037.32	4,037.02	0.31	N/A	
200.00	199.98	252.20	252.17	0.49	0.72	105.78	-4,026.83	268.67	4,036.80	4,035.59	1.21	3,339.042	
263.70	263.61	349.02	348.93	0.73	1.07	105.81	-4,024.66	271.40	4,036.29	4,034.50	1.79	2,257.066 CC, ES	
300.00	299.84	305.00	304.94	0.86	0.91	105.79	-4,025.76	270.02	4,036.74	4,034.98	1.76	2,291.873	
400.00	399.45	305.00	304.94	1.23	0.91	105.73	-4,025.76	270.02	4,039.88	4,037.74	2.14	1,884.345	
500.00	498.70	419.39	419.23	1.63	1.33	105.75	-4,025.20	274.61	4,042.69	4,039.74	2.95	1,368.224	
600.00	597.47	462.29	462.06	2.05	1.48	105.68	-4,026.04	277.00	4,049.31	4,045.78	3.53	1,145.994	
700.00	695.62	504.98	504.64	2.51	1.64	105.58	-4,027.46	279.75	4,058.28	4,054.14	4.14	980.270	
800.00	793.06	547.41	546.90	3.00	1.80	105.45	-4,029.43	282.83	4,069.59	4,064.81	4.78	851.733	
900.00	889.64	639.00	637.94	3.53	2.13	105.42	-4,035.61	290.71	4,083.91	4,078.28	5.63	725.296	
1,000.00	985.27	639.00	637.94	4.12	2.13	105.12	-4,035.61	290.71	4,099.17	4,092.98	6.19	662.161	
1,100.00	1,079.82	675.58	674.21	4.75	2.28	104.88	-4,038.78	294.24	4,117.35	4,110.42	6.93	593.852	
1,200.00	1,173.17	731.00	729.08	5.44	2.50	104.68	-4,044.27	299.79	4,137.77	4,129.97	7.79	530.944	
1,300.00	1,265.21	731.00	729.08	6.18	2.50	104.23	-4,044.27	299.79	4,160.56	4,152.08	8.48	490.556	
1,400.00	1,355.84	789.66	786.97	6.99	2.74	103.98	-4,051.23	306.24	4,185.31	4,175.85	9.46	442.446	
1,500.00	1,444.94	825.00	821.70	7.87	2.89	103.60	-4,056.10	310.55	4,212.59	4,202.20	10.39	405.406	
1,600.00	1,532.39	857.05	853.11	8.80	3.03	103.16	-4,060.95	314.71	4,242.11	4,230.75	11.37	373.250	
1,700.00	1,618.11	891.21	886.49	9.81	3.19	102.70	-4,066.52	319.38	4,273.82	4,261.42	12.40	344.674	
1,800.00	1,701.97	920.00	914.53	10.89	3.32	102.16	-4,071.54	323.51	4,307.65	4,294.20	13.46	320.058	
1,900.00	1,783.88	955.85	949.35	12.04	3.50	101.63	-4,078.22	328.80	4,343.57	4,328.96	14.61	297.335	
2,000.00	1,863.74	986.30	978.85	13.26	3.65	101.03	-4,084.28	333.36	4,381.55	4,365.77	15.78	277.668	
2,100.00	1,941.45	1,014.00	1,005.60	14.55	3.78	100.36	-4,090.10	337.56	4,421.52	4,404.54	16.98	260.335	
2,200.00	2,016.92	1,055.95	1,046.01	15.92	4.01	99.77	-4,099.33	344.02	4,463.33	4,445.01	18.32	243.657	
2,292.11	2,084.36	1,108.00	1,096.00	17.25	4.28	99.30	-4,111.29	352.19	4,503.40	4,483.74	19.66	229.029	
2,300.00	2,090.06	1,108.00	1,096.00	17.36	4.28	99.30	-4,111.29	352.19	4,506.88	4,487.12	19.75	228.140	
2,400.00	2,162.18	1,153.27	1,139.44	18.84	4.53	99.66	-4,121.94	359.17	4,551.61	4,530.44	21.17	214.978	
2,500.00	2,234.31	1,296.24	1,277.11	20.33	5.31	100.79	-4,154.35	380.11	4,596.31	4,573.14	23.17	198.381	
2,600.00	2,306.43	1,338.83	1,318.08	21.83	5.55	101.12	-4,163.89	386.68	4,641.39	4,616.81	24.57	188.867	
2,700.00	2,378.56	1,418.63	1,394.64	23.33	6.01	101.72	-4,182.27	399.71	4,687.40	4,661.19	26.21	178.827	
2,800.00	2,450.68	1,516.21	1,488.24	24.84	6.58	102.43	-4,204.14	416.53	4,733.31	4,705.34	27.97	169.220	
2,900.00	2,522.81	1,583.09	1,552.36	26.36	6.98	102.91	-4,219.14	428.22	4,779.72	4,750.19	29.53	161.855	
3,000.00	2,594.93	1,644.25	1,610.92	27.88	7.34	103.34	-4,233.03	439.13	4,826.77	4,795.72	31.05	155.463	
3,100.00	2,667.06	1,711.28	1,675.02	29.40	7.75	103.80	-4,248.44	451.19	4,874.43	4,841.83	32.60	149.524	
3,200.00	2,739.18	3,200.00	1,777.09	30.92	16.81	104.53	-4,272.62	470.50	4,922.22	4,880.55	41.68	118.108	
3,300.00	2,811.31	1,899.25	1,854.96	32.45	8.88	105.07	-4,290.65	485.40	4,970.04	4,933.96	36.08	137.763	
3,400.00	2,883.43	1,961.56	1,914.73	33.98	9.26	105.48	-4,304.63	496.11	5,018.58	4,981.00	37.57	133.565	
3,500.00	2,955.56	2,058.12	2,007.51	35.51	9.83	106.13	-4,326.01	512.25	5,067.35	5,028.05	39.31	128.918	
3,600.00	3,027.68	2,125.00	2,071.77	37.04	10.23	106.56	-4,340.65	523.57	5,116.32	5,075.50	40.82	125.345	
3,700.00	3,099.81	2,172.55	2,117.37	38.57	10.52	106.86	-4,351.27	531.86	5,165.95	5,123.77	42.18	122.467	
3,800.00	3,171.93	2,219.00	2,161.76	40.11	10.81	107.15	-4,362.11	540.24	5,216.51	5,172.99	43.53	119.847	
3,900.00	3,244.06	2,286.96	2,226.65	41.64	11.23	107.57	-4,378.19	552.45	5,267.70	5,222.67	45.03	116.982	
4,000.00	3,316.18	2,382.61	2,318.15	43.18	11.82	108.16	-4,400.48	569.20	5,319.04	5,272.30	46.74	113.792	
4,100.00	3,388.31	2,516.10	2,446.04	44.71	12.64	108.96	-4,430.50	592.85	5,370.00	5,321.25	48.75	110.148	
4,200.00	3,460.43	2,559.74	2,487.85	46.25	12.91	109.21	-4,440.27	600.67	5,421.21	5,371.17	50.04	108.331	
4,300.00	3,532.56	2,625.32	2,550.49	47.79	13.31	109.59	-4,455.42	612.83	5,473.14	5,421.64	51.50	106.268	
4,400.00	3,604.68	2,760.75	2,680.17	49.33	14.15	110.36	-4,485.67	637.49	5,524.84	5,471.31	53.53	103.209	
4,500.00	3,676.81	2,841.67	2,757.82	50.87	14.64	110.81	-4,503.20	652.02	5,576.38	5,521.28	55.10	101.207	
4,600.00	3,748.93	2,902.22	2,815.98	52.41	15.01	111.15	-4,516.30	662.62	5,628.29	5,571.80	56.49	99.633	
4,700.00	3,821.06	2,951.82	2,863.57	53.95	15.31	111.42	-4,527.26	671.30	5,680.79	5,623.01	57.78	98.318	
4,800.00	3,893.18	3,023.60	2,932.37	55.49	15.75	111.81	-4,543.36	683.89	5,733.82	5,674.57	59.25	96.778	
4,900.00	3,965.31	3,097.29	3,003.05	57.03	16.20	112.20	-4,559.80	696.74	5,787.04	5,726.31	60.72	95.300	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,159.11	3,062.27	58.58	16.58	112.53	-4,573.76	707.67	5,840.65	5,778.56	62.09	94.063		
5,100.00	4,109.56	3,230.52	3,130.64	60.12	17.02	112.89	-4,590.02	720.39	5,894.62	5,831.08	63.54	92.770		
5,200.00	4,181.68	3,302.00	3,229.14	61.66	17.44	113.42	-4,613.09	738.70	5,948.56	5,872.90	75.66	78.621		
5,300.00	4,253.81	3,440.87	3,332.20	63.20	18.32	113.95	-4,636.76	758.25	6,002.31	5,935.30	67.01	89.569		
5,400.00	4,325.93	3,504.59	3,393.20	64.75	18.71	114.26	-4,650.85	770.10	6,056.31	5,987.93	68.38	88.566		
5,500.00	4,398.06	3,560.34	3,446.57	66.29	19.06	114.52	-4,663.28	780.37	6,110.71	6,041.04	69.67	87.710		
5,600.00	4,470.18	3,606.06	3,490.32	67.84	19.34	114.74	-4,673.65	788.66	6,165.66	6,094.80	70.86	87.017		
5,700.00	4,542.31	3,693.78	3,574.25	69.38	19.89	115.16	-4,693.77	804.31	6,221.08	6,148.67	72.42	85.909		
5,800.00	4,614.43	3,780.00	3,659.49	70.92	20.00	115.74	-4,721.18	826.26	6,275.90	6,190.58	85.32	73.555		
5,900.00	4,686.56	3,860.37	3,753.44	72.47	21.02	116.03	-4,734.36	836.84	6,330.83	6,255.24	75.60	83.743		
6,000.00	4,758.68	3,919.00	3,790.53	74.01	21.25	116.20	-4,742.89	843.50	6,386.38	6,309.70	76.68	83.285		
6,100.00	4,830.81	3,952.56	3,822.72	75.56	21.46	116.36	-4,750.49	849.21	6,442.59	6,364.88	77.70	82.912		
6,200.00	4,902.93	3,983.11	3,852.00	77.10	21.65	116.50	-4,757.57	854.25	6,499.49	6,420.81	78.69	82.601		
6,300.00	4,975.06	4,014.00	3,881.60	78.65	21.84	116.64	-4,764.91	859.20	6,557.09	6,477.43	79.66	82.317		
6,400.00	5,047.18	4,140.86	4,002.99	80.19	22.62	117.20	-4,795.26	880.04	6,614.94	6,533.40	81.54	81.124		
6,500.00	5,119.31	5,205.09	5,047.82	81.74	27.42	122.36	-4,930.56	991.62	6,663.07	6,573.53	89.54	74.414		
6,600.00	5,191.43	5,304.17	5,146.88	83.28	27.68	122.91	-4,931.77	992.59	6,709.87	6,619.16	90.71	73.968		
6,700.00	5,263.56	5,444.88	5,287.58	84.83	28.04	123.68	-4,932.34	994.27	6,756.40	6,664.38	92.01	73.429		
6,800.00	5,335.68	5,521.63	5,364.33	86.37	28.22	124.09	-4,932.14	994.96	6,802.96	6,709.88	93.07	73.092		
6,900.00	5,407.81	5,590.74	5,433.43	87.92	28.39	124.47	-4,931.91	995.48	6,849.89	6,755.79	94.10	72.797		
7,000.00	5,479.93	5,668.93	5,511.63	89.47	28.58	124.89	-4,931.62	995.97	6,897.19	6,802.06	95.13	72.500		
7,100.00	5,552.06	5,747.82	5,590.51	91.01	28.77	125.30	-4,931.24	996.52	6,944.76	6,848.60	96.16	72.219		
7,200.00	5,624.18	5,821.28	5,663.96	92.56	28.95	125.69	-4,930.87	997.05	6,992.66	6,895.50	97.16	71.969		
7,300.00	5,696.31	5,899.96	5,742.65	94.10	29.14	126.10	-4,930.38	997.52	7,040.87	6,942.70	98.17	71.724		
7,400.00	5,768.43	5,984.11	5,826.79	95.65	29.34	126.53	-4,929.69	997.91	7,089.32	6,990.15	99.17	71.485		
7,500.00	5,840.56	6,067.56	5,910.24	97.20	29.53	126.96	-4,928.84	998.26	7,137.99	7,037.83	100.16	71.263		
7,600.00	5,912.68	6,150.35	5,993.02	98.74	29.73	127.38	-4,927.86	998.59	7,186.89	7,085.75	101.14	71.057		
7,700.00	5,984.81	6,227.36	6,070.03	100.29	29.91	127.77	-4,926.84	998.89	7,236.02	7,133.93	102.09	70.878		
7,800.00	6,056.93	6,313.15	6,155.80	101.84	30.11	128.20	-4,925.66	999.24	7,285.44	7,182.38	103.06	70.692		
7,900.00	6,129.06	6,421.77	6,264.41	103.38	30.37	128.73	-4,923.73	999.82	7,334.85	7,230.76	104.09	70.466		
8,000.00	6,201.18	6,495.79	6,338.41	104.93	30.54	129.09	-4,922.17	1,000.21	7,384.36	7,279.35	105.00	70.326		
8,100.00	6,273.31	6,548.30	6,390.91	106.48	30.67	129.34	-4,921.28	1,000.68	7,434.31	7,328.47	105.84	70.242		
8,200.00	6,345.43	6,606.34	6,448.94	108.02	30.82	129.62	-4,920.56	1,001.37	7,484.74	7,378.05	106.69	70.155		
8,300.00	6,417.56	6,667.75	6,510.34	109.57	30.98	129.90	-4,919.95	1,002.14	7,535.57	7,428.02	107.55	70.069		
8,400.00	6,489.68	6,735.87	6,578.46	111.12	31.16	130.22	-4,919.37	1,003.04	7,586.75	7,478.33	108.42	69.975		
8,500.00	6,561.81	6,829.02	6,671.59	112.66	31.41	130.64	-4,918.58	1,004.39	7,638.15	7,528.77	109.39	69.827		
8,600.00	6,633.93	6,943.12	6,785.67	114.21	31.72	131.16	-4,917.20	1,006.29	7,689.51	7,579.08	110.42	69.637		
8,700.00	6,706.06	6,983.86	6,826.40	115.76	31.82	131.34	-4,916.60	1,006.83	7,741.07	7,629.90	111.17	69.635		
8,800.00	6,778.18	7,036.00	6,878.53	117.30	31.95	131.57	-4,915.86	1,007.08	7,793.20	7,681.26	111.94	69.621		
8,900.00	6,850.31	7,119.23	6,961.76	118.85	32.16	131.95	-4,914.50	1,007.10	7,845.67	7,732.87	112.80	69.552		
9,000.00	6,922.43	7,216.65	7,059.15	120.40	32.40	132.39	-4,912.44	1,007.00	7,898.12	7,784.42	113.71	69.461		
9,100.00	6,994.56	7,313.25	7,155.71	121.95	32.63	132.82	-4,909.83	1,006.56	7,950.61	7,836.02	114.59	69.384		
9,200.00	7,066.68	7,372.21	7,214.65	123.49	32.77	133.08	-4,908.08	1,006.13	8,003.28	7,887.95	115.33	69.393		
9,300.00	7,138.81	7,414.00	7,256.42	125.04	32.87	133.26	-4,906.93	1,005.82	8,056.36	7,940.35	116.01	69.444		
9,392.50	7,205.52	7,459.35	7,301.76	126.47	32.99	133.46	-4,905.89	1,005.55	8,105.88	7,989.22	116.66	69.483		
9,400.00	7,210.94	7,462.23	7,304.64	126.59	32.99	132.48	-4,905.83	1,005.54	8,109.89	7,993.18	116.71	69.487		
9,450.00	7,247.42	7,481.58	7,323.98	127.35	33.04	125.99	-4,905.51	1,005.48	8,134.74	8,017.68	117.06	69.494		
9,500.00	7,284.35	7,508.00	7,350.40	128.10	33.11	119.57	-4,905.17	1,005.43	8,156.32	8,038.87	117.45	69.443		
9,550.00	7,321.43	7,552.23	7,394.63	128.83	33.22	113.39	-4,904.68	1,005.44	8,174.43	8,056.49	117.94	69.308		
9,600.00	7,358.38	7,620.19	7,462.58	129.52	33.40	107.60	-4,903.81	1,005.67	8,188.82	8,070.28	118.54	69.081		
9,650.00	7,394.93	7,671.63	7,514.01	130.16	33.54	102.11	-4,903.14	1,006.07	8,199.42	8,080.34	119.09	68.852		
9,700.00	7,430.79	7,777.76	7,620.12	130.76	33.83	97.38	-4,901.55	1,007.51	8,206.13	8,086.27	119.86	68.465		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,835.33	7,677.67	131.30	33.99	92.98	-4,900.42	1,008.55	8,208.80	8,088.37	120.43	68.162		
9,800.00	7,499.38	7,883.02	7,725.35	131.78	34.12	89.14	-4,899.42	1,009.49	8,207.64	8,086.68	120.95	67.858		
9,850.00	7,531.58	7,885.00	7,727.32	132.21	34.13	85.67	-4,899.38	1,009.53	8,202.76	8,081.48	121.28	67.636		
9,900.00	7,562.06	7,912.60	7,754.91	132.57	34.21	82.96	-4,898.81	1,010.03	8,194.19	8,072.51	121.68	67.341		
9,950.00	7,590.58	7,925.34	7,767.65	132.87	34.24	80.76	-4,898.57	1,010.23	8,182.09	8,060.09	122.00	67.064		
10,000.00	7,616.93	7,937.06	7,779.36	133.11	34.27	79.15	-4,898.36	1,010.38	8,166.51	8,044.22	122.29	66.777		
10,050.00	7,640.90	7,947.66	7,789.96	133.29	34.30	78.11	-4,898.17	1,010.51	8,147.56	8,025.01	122.55	66.483		
10,100.00	7,662.32	7,957.08	7,799.38	133.42	34.33	77.66	-4,898.02	1,010.60	8,125.37	8,002.60	122.77	66.182		
10,150.00	7,681.01	7,979.00	7,821.30	133.50	34.39	77.89	-4,897.68	1,010.77	8,100.12	7,977.11	123.02	65.846		
10,200.00	7,696.85	7,979.00	7,821.30	133.52	34.39	78.58	-4,897.68	1,010.77	8,071.91	7,948.77	123.14	65.551		
10,250.00	7,709.70	7,979.00	7,821.30	133.51	34.39	79.93	-4,897.68	1,010.77	8,041.00	7,917.76	123.24	65.248		
10,300.00	7,719.47	7,985.20	7,827.49	133.46	34.41	82.06	-4,897.59	1,010.81	8,007.58	7,884.24	123.33	64.926		
10,350.00	7,726.09	7,991.22	7,833.51	133.37	34.42	85.01	-4,897.51	1,010.85	7,971.87	7,848.46	123.41	64.598		
10,400.00	7,729.50	7,993.96	7,836.26	133.26	34.43	88.86	-4,897.47	1,010.87	7,934.14	7,810.68	123.45	64.270		
10,427.79	7,730.00	7,994.07	7,836.36	133.18	34.43	91.43	-4,897.47	1,010.87	7,912.38	7,788.91	123.46	64.088		
10,500.00	7,730.00	7,993.01	7,835.31	132.98	34.43	91.42	-4,897.48	1,010.86	7,855.30	7,731.82	123.48	63.616		
10,600.00	7,730.00	7,991.55	7,833.84	132.72	34.42	91.40	-4,897.50	1,010.85	7,776.67	7,653.16	123.51	62.966		
10,700.00	7,730.00	7,990.08	7,832.38	132.47	34.42	91.38	-4,897.52	1,010.84	7,698.54	7,575.00	123.54	62.318		
10,800.00	7,730.00	7,988.62	7,830.91	132.22	34.41	91.36	-4,897.54	1,010.83	7,620.91	7,497.34	123.57	61.672		
10,900.00	7,730.00	7,987.15	7,829.45	131.99	34.41	91.35	-4,897.57	1,010.82	7,543.82	7,420.21	123.61	61.028		
11,000.00	7,730.00	7,985.68	7,827.98	131.77	34.41	91.33	-4,897.59	1,010.82	7,467.26	7,343.61	123.66	60.388		
11,100.00	7,730.00	7,984.21	7,826.51	131.56	34.40	91.31	-4,897.61	1,010.81	7,391.27	7,267.57	123.70	59.750		
11,200.00	7,730.00	7,982.74	7,825.04	131.36	34.40	91.29	-4,897.63	1,010.80	7,315.85	7,192.10	123.76	59.115		
11,300.00	7,730.00	7,981.27	7,823.57	131.17	34.39	91.28	-4,897.65	1,010.79	7,241.03	7,117.22	123.82	58.482		
11,400.00	7,730.00	7,979.80	7,822.10	130.99	34.39	91.26	-4,897.67	1,010.78	7,166.82	7,042.95	123.88	57.853		
11,500.00	7,730.00	7,979.00	7,821.30	130.82	34.39	91.25	-4,897.68	1,010.77	7,093.25	6,969.30	123.95	57.226		
11,600.00	7,730.00	7,979.00	7,821.30	130.66	34.39	91.25	-4,897.68	1,010.77	7,020.33	6,896.30	124.03	56.600		
11,700.00	7,730.00	7,979.00	7,821.30	130.51	34.39	91.25	-4,897.68	1,010.77	6,948.08	6,823.96	124.12	55.977		
11,800.00	7,730.00	7,979.00	7,821.30	130.37	34.39	91.25	-4,897.68	1,010.77	6,876.53	6,752.31	124.22	55.358		
11,900.00	7,730.00	7,979.00	7,821.30	130.24	34.39	91.25	-4,897.68	1,010.77	6,805.70	6,681.38	124.32	54.743		
12,000.00	7,730.00	7,979.00	7,821.30	130.13	34.39	91.25	-4,897.68	1,010.77	6,735.60	6,611.17	124.43	54.131		
12,100.00	7,730.00	7,979.00	7,821.30	130.02	34.39	91.25	-4,897.68	1,010.77	6,666.27	6,541.72	124.55	53.524		
12,200.00	7,730.00	7,979.00	7,821.30	129.93	34.39	91.25	-4,897.68	1,010.77	6,597.73	6,473.05	124.67	52.921		
12,300.00	7,730.00	7,979.00	7,821.30	129.85	34.39	91.25	-4,897.68	1,010.77	6,529.99	6,405.19	124.80	52.322		
12,400.00	7,730.00	7,979.00	7,821.30	129.77	34.39	91.25	-4,897.68	1,010.77	6,463.10	6,338.15	124.94	51.728		
12,500.00	7,730.00	7,979.00	7,821.30	129.71	34.39	91.25	-4,897.68	1,010.77	6,397.07	6,271.97	125.09	51.138		
12,600.00	7,730.00	7,979.00	7,821.30	129.66	34.39	91.25	-4,897.68	1,010.77	6,331.93	6,206.68	125.25	50.554		
12,700.00	7,730.00	7,979.00	7,821.30	129.63	34.39	91.25	-4,897.68	1,010.77	6,267.70	6,142.29	125.42	49.975		
12,800.00	7,730.00	7,979.00	7,821.30	129.60	34.39	91.25	-4,897.68	1,010.77	6,204.43	6,078.84	125.59	49.401		
12,900.00	7,730.00	7,979.00	7,821.30	129.59	34.39	91.25	-4,897.68	1,010.77	6,142.13	6,016.35	125.78	48.833		
13,000.00	7,730.00	7,979.00	7,821.30	129.59	34.39	91.25	-4,897.68	1,010.77	6,080.84	5,954.87	125.97	48.271		
13,100.00	7,730.00	7,979.00	7,821.30	129.60	34.39	91.25	-4,897.68	1,010.77	6,020.58	5,894.41	126.18	47.715		
13,200.00	7,730.00	7,979.00	7,821.30	129.63	34.39	91.25	-4,897.68	1,010.77	5,961.40	5,835.00	126.39	47.166		
13,300.00	7,730.00	7,979.00	7,821.30	129.66	34.39	91.25	-4,897.68	1,010.77	5,903.31	5,776.69	126.62	46.623		
13,400.00	7,730.00	7,979.00	7,821.30	129.72	34.39	91.25	-4,897.68	1,010.77	5,846.36	5,719.50	126.85	46.087		
13,500.00	7,730.00	7,979.00	7,821.30	129.78	34.39	91.25	-4,897.68	1,010.77	5,790.57	5,663.47	127.10	45.559		
13,600.00	7,730.00	7,979.00	7,821.30	129.86	34.39	91.25	-4,897.68	1,010.77	5,735.99	5,608.63	127.36	45.039		
13,700.00	7,730.00	7,979.00	7,821.30	129.96	34.39	91.25	-4,897.68	1,010.77	5,682.64	5,555.02	127.62	44.527		
13,800.00	7,730.00	7,979.00	7,821.30	130.07	34.39	91.25	-4,897.68	1,010.77	5,630.56	5,502.66	127.90	44.023		
13,900.00	7,730.00	7,960.78	7,803.08	130.19	34.34	91.03	-4,897.96	1,010.64	5,579.73	5,451.67	128.06	43.571		
14,000.00	7,730.00	7,959.96	7,802.26	130.33	34.34	91.02	-4,897.97	1,010.63	5,530.29	5,401.94	128.35	43.087		
14,100.00	7,730.00	7,959.13	7,801.43	130.49	34.33	91.01	-4,897.99	1,010.62	5,482.24	5,353.58	128.65	42.612		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,958.30	7,800.60	130.67	34.33	91.00	-4,898.00	1,010.61	5,435.60	5,306.63	128.97	42.148		
14,300.00	7,730.00	7,957.46	7,799.76	130.86	34.33	90.99	-4,898.01	1,010.61	5,390.40	5,261.12	129.29	41.693		
14,400.00	7,730.00	7,956.62	7,798.91	131.07	34.33	90.98	-4,898.03	1,010.60	5,346.70	5,217.08	129.62	41.249		
14,500.00	7,730.00	7,955.76	7,798.06	131.30	34.32	90.97	-4,898.04	1,010.59	5,304.52	5,174.56	129.96	40.816		
14,600.00	7,730.00	7,954.90	7,797.20	131.55	34.32	90.96	-4,898.05	1,010.58	5,263.91	5,133.60	130.31	40.395		
14,700.00	7,730.00	7,954.04	7,796.34	131.82	34.32	90.95	-4,898.07	1,010.57	5,224.89	5,094.22	130.67	39.985		
14,800.00	7,730.00	7,953.16	7,795.46	132.11	34.32	90.94	-4,898.08	1,010.57	5,187.51	5,056.47	131.04	39.588		
14,900.00	7,730.00	7,952.28	7,794.58	132.42	34.31	90.93	-4,898.10	1,010.56	5,151.79	5,020.38	131.41	39.204		
15,000.00	7,730.00	7,951.39	7,793.70	132.75	34.31	90.92	-4,898.11	1,010.55	5,117.78	4,985.99	131.79	38.832		
15,100.00	7,730.00	7,950.50	7,792.80	133.10	34.31	90.91	-4,898.13	1,010.54	5,085.51	4,953.33	132.18	38.474		
15,200.00	7,730.00	7,949.60	7,791.90	133.48	34.31	90.90	-4,898.14	1,010.53	5,055.02	4,922.44	132.57	38.130		
15,300.00	7,730.00	7,948.69	7,790.99	133.88	34.30	90.89	-4,898.16	1,010.52	5,026.32	4,893.35	132.97	37.800		
15,400.00	7,730.00	7,947.77	7,790.07	134.31	34.30	90.88	-4,898.17	1,010.51	4,999.46	4,866.09	133.37	37.485		
15,500.00	7,730.00	7,946.84	7,789.15	134.76	34.30	90.87	-4,898.19	1,010.50	4,974.47	4,840.70	133.78	37.185		
15,600.00	7,730.00	7,945.91	7,788.21	135.23	34.30	90.86	-4,898.20	1,010.49	4,951.37	4,817.19	134.18	36.901		
15,700.00	7,730.00	7,944.97	7,787.27	135.73	34.29	90.85	-4,898.22	1,010.48	4,930.19	4,795.61	134.59	36.632		
15,800.00	7,730.00	7,944.02	7,786.32	136.26	34.29	90.83	-4,898.24	1,010.47	4,910.96	4,775.96	135.00	36.379		
15,900.00	7,730.00	7,943.06	7,785.37	136.81	34.29	90.82	-4,898.25	1,010.46	4,893.70	4,758.29	135.40	36.142		
16,000.00	7,730.00	7,942.10	7,784.40	137.39	34.29	90.81	-4,898.27	1,010.44	4,878.42	4,742.61	135.81	35.922		
16,100.00	7,730.00	7,941.13	7,783.43	138.00	34.28	90.80	-4,898.29	1,010.43	4,865.15	4,728.94	136.21	35.719		
16,200.00	7,730.00	7,940.15	7,782.45	138.63	34.28	90.79	-4,898.30	1,010.42	4,853.90	4,717.30	136.60	35.532		
16,300.00	7,730.00	7,939.16	7,781.46	139.30	34.28	90.78	-4,898.32	1,010.41	4,844.70	4,707.70	137.00	35.364		
16,400.00	7,730.00	7,938.16	7,780.46	139.99	34.28	90.76	-4,898.34	1,010.40	4,837.54	4,700.16	137.38	35.212		
16,500.00	7,730.00	7,937.15	7,779.45	140.70	34.27	90.75	-4,898.36	1,010.38	4,832.44	4,694.68	137.76	35.078		
16,600.00	7,730.00	7,936.13	7,778.44	141.45	34.27	90.74	-4,898.37	1,010.37	4,829.41	4,691.27	138.13	34.962		
16,696.58	7,730.00	7,935.14	7,777.45	142.20	34.27	90.73	-4,898.39	1,010.36	4,828.44	4,689.96	138.48	34.867		
16,700.00	7,730.00	7,935.11	7,777.41	142.22	34.27	90.73	-4,898.39	1,010.36	4,828.44	4,689.95	138.49	34.864		
16,800.00	7,730.00	7,934.07	7,776.38	143.03	34.26	90.72	-4,898.41	1,010.35	4,829.55	4,690.70	138.85	34.784		
16,900.00	7,730.00	7,933.03	7,775.34	143.86	34.26	90.70	-4,898.43	1,010.33	4,832.72	4,693.53	139.19	34.721		
17,000.00	7,730.00	7,931.98	7,774.28	144.71	34.26	90.69	-4,898.45	1,010.32	4,837.96	4,698.44	139.52	34.676		
17,100.00	7,730.00	7,930.92	7,773.22	145.60	34.26	90.68	-4,898.47	1,010.30	4,845.26	4,705.42	139.84	34.649		
17,200.00	7,730.00	7,929.84	7,772.15	146.51	34.25	90.67	-4,898.49	1,010.29	4,854.61	4,714.47	140.14	34.640 SF		
17,300.00	7,730.00	7,928.76	7,771.07	147.44	34.25	90.65	-4,898.51	1,010.27	4,865.99	4,725.56	140.44	34.649		
17,400.00	7,730.00	7,927.67	7,769.98	148.40	34.25	90.64	-4,898.53	1,010.26	4,879.40	4,738.68	140.72	34.675		
17,500.00	7,730.00	7,926.57	7,768.88	149.39	34.24	90.63	-4,898.55	1,010.24	4,894.81	4,753.83	140.98	34.719		
17,600.00	7,730.00	7,925.46	7,767.77	150.40	34.24	90.61	-4,898.57	1,010.23	4,912.21	4,770.98	141.24	34.780		
17,700.00	7,730.00	7,924.34	7,766.65	151.44	34.24	90.60	-4,898.59	1,010.21	4,931.58	4,790.11	141.47	34.859		
17,800.00	7,730.00	7,923.21	7,765.51	152.50	34.23	90.59	-4,898.61	1,010.20	4,952.89	4,811.19	141.70	34.954		
17,900.00	7,730.00	7,922.07	7,764.37	153.58	34.23	90.57	-4,898.63	1,010.18	4,976.12	4,834.21	141.91	35.066		
18,000.00	7,730.00	7,920.91	7,763.22	154.68	34.23	90.56	-4,898.65	1,010.16	5,001.24	4,859.14	142.10	35.194		
18,100.00	7,730.00	7,919.75	7,762.06	155.80	34.23	90.55	-4,898.67	1,010.14	5,028.22	4,885.94	142.29	35.339		
18,200.00	7,730.00	7,918.58	7,760.88	156.95	34.22	90.53	-4,898.70	1,010.13	5,057.04	4,914.59	142.46	35.499		
18,300.00	7,730.00	7,917.39	7,759.70	158.11	34.22	90.52	-4,898.72	1,010.11	5,087.66	4,945.05	142.61	35.675		
18,400.00	7,730.00	7,916.19	7,758.50	159.30	34.22	90.50	-4,898.74	1,010.09	5,120.05	4,977.30	142.75	35.867		
18,500.00	7,730.00	7,914.98	7,757.29	160.50	34.21	90.49	-4,898.76	1,010.07	5,154.17	5,011.30	142.88	36.073		
18,600.00	7,730.00	7,913.76	7,756.07	161.72	34.21	90.48	-4,898.79	1,010.05	5,190.00	5,047.01	143.00	36.295		
18,700.00	7,730.00	7,912.53	7,754.84	162.96	34.21	90.46	-4,898.81	1,010.03	5,227.50	5,084.40	143.10	36.531		
18,800.00	7,730.00	7,911.29	7,753.60	164.21	34.20	90.45	-4,898.84	1,010.01	5,266.62	5,123.43	143.19	36.781		
18,900.00	7,730.00	7,910.03	7,752.35	165.48	34.20	90.43	-4,898.86	1,009.99	5,307.35	5,164.08	143.27	37.044		
19,000.00	7,730.00	7,908.77	7,751.08	166.76	34.20	90.42	-4,898.89	1,009.97	5,349.63	5,206.29	143.34	37.321		
19,100.00	7,730.00	7,907.49	7,749.80	168.06	34.19	90.40	-4,898.91	1,009.95	5,393.43	5,250.03	143.40	37.612		
19,200.00	7,730.00	7,906.19	7,748.51	169.38	34.19	90.39	-4,898.94	1,009.93	5,438.72	5,295.27	143.45	37.915		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,904.89	7,747.20	170.70	34.18	90.37	-4,898.96	1,009.90	5,485.46	5,341.97	143.49	38.230	
19,400.00	7,730.00	7,903.57	7,745.88	172.04	34.18	90.35	-4,898.99	1,009.88	5,533.61	5,390.09	143.52	38.558	
19,500.00	7,730.00	7,902.24	7,744.55	173.40	34.18	90.34	-4,899.02	1,009.86	5,583.13	5,439.60	143.54	38.897	
19,600.00	7,730.00	7,900.89	7,743.21	174.76	34.17	90.32	-4,899.04	1,009.83	5,634.00	5,490.45	143.55	39.248	
19,700.00	7,730.00	7,899.53	7,741.85	176.14	34.17	90.31	-4,899.07	1,009.81	5,686.17	5,542.61	143.56	39.609	
19,800.00	7,730.00	7,898.16	7,740.48	177.52	34.17	90.29	-4,899.10	1,009.78	5,739.60	5,596.05	143.55	39.982	
19,900.00	7,730.00	7,896.77	7,739.09	178.92	34.16	90.27	-4,899.13	1,009.76	5,794.27	5,650.72	143.55	40.365	
20,000.00	7,730.00	7,895.37	7,737.69	180.33	34.16	90.26	-4,899.16	1,009.73	5,850.14	5,706.60	143.53	40.758	
20,100.00	7,730.00	7,893.96	7,736.27	181.75	34.15	90.24	-4,899.19	1,009.70	5,907.17	5,763.66	143.51	41.162	
20,184.95	7,730.00	7,897.10	7,739.42	182.96	34.16	90.28	-4,899.11	1,009.78	5,956.50	5,812.98	143.52	41.503	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	135.92	-2,138.65	2,071.08	2,977.50					
100.00	100.00	53.33	53.33	0.13	0.09	135.92	-2,138.59	2,071.12	2,977.10	2,976.88	0.22	N/A		
200.00	199.98	159.54	159.54	0.49	0.37	65.50	-2,138.18	2,071.36	2,976.25	2,975.39	0.86	3,452.035		
300.00	299.84	258.65	258.65	0.86	0.72	65.64	-2,137.86	2,071.26	2,973.78	2,972.21	1.57	1,891.264		
400.00	399.45	353.70	353.70	1.23	1.05	65.86	-2,137.96	2,070.97	2,970.05	2,967.78	2.28	1,305.164		
500.00	498.70	453.26	453.26	1.63	1.39	66.17	-2,138.16	2,070.68	2,965.01	2,962.00	3.01	983.801		
600.00	597.47	553.52	553.51	2.05	1.75	66.58	-2,138.55	2,070.09	2,958.55	2,954.77	3.78	782.474		
700.00	695.62	653.28	653.27	2.51	2.10	67.08	-2,138.97	2,069.42	2,950.77	2,946.19	4.58	644.746		
800.00	793.06	759.14	759.13	3.00	2.48	67.70	-2,139.45	2,068.44	2,941.63	2,936.20	5.43	541.840		
900.00	889.64	859.19	859.17	3.53	2.84	68.39	-2,139.88	2,067.07	2,931.05	2,924.75	6.30	465.232		
1,000.00	985.27	945.33	945.30	4.12	3.15	69.09	-2,140.38	2,065.88	2,919.53	2,912.36	7.17	407.421		
1,100.00	1,079.82	1,028.72	1,028.67	4.75	3.44	69.85	-2,141.19	2,064.90	2,907.50	2,899.43	8.07	360.247		
1,200.00	1,173.17	1,122.86	1,122.80	5.44	3.78	70.75	-2,142.28	2,063.83	2,894.81	2,885.74	9.07	319.222		
1,300.00	1,265.21	1,224.68	1,224.61	6.18	4.15	71.80	-2,143.28	2,062.42	2,881.16	2,871.01	10.15	283.783		
1,400.00	1,355.84	1,313.75	1,313.66	6.99	4.47	72.82	-2,144.19	2,060.97	2,866.88	2,855.63	11.26	254.709		
1,500.00	1,444.94	1,401.19	1,401.09	7.87	4.78	73.91	-2,145.17	2,059.48	2,852.26	2,839.84	12.42	229.648		
1,600.00	1,532.39	1,490.37	1,490.24	8.80	5.10	75.08	-2,146.16	2,057.91	2,837.41	2,823.75	13.66	207.685		
1,700.00	1,618.11	1,573.47	1,573.33	9.81	5.40	76.25	-2,147.10	2,056.39	2,822.51	2,807.55	14.96	188.709		
1,800.00	1,701.97	1,654.81	1,654.65	10.89	5.69	77.46	-2,148.08	2,054.91	2,807.82	2,791.50	16.32	172.022		
1,900.00	1,783.88	1,736.02	1,735.84	12.04	5.99	78.71	-2,149.03	2,053.50	2,793.52	2,775.76	17.77	157.234		
2,000.00	1,863.74	1,818.36	1,818.16	13.26	6.28	80.03	-2,149.92	2,052.08	2,779.72	2,760.43	19.30	144.062		
2,100.00	1,941.45	1,903.56	1,903.35	14.55	6.59	81.42	-2,150.65	2,050.52	2,766.50	2,745.59	20.91	132.274		
2,200.00	2,016.92	1,983.32	1,983.09	15.92	6.88	82.78	-2,151.13	2,049.02	2,754.08	2,731.49	22.60	121.884		
2,292.11	2,084.36	2,052.25	2,052.01	17.25	7.12	83.98	-2,151.41	2,047.73	2,743.59	2,719.39	24.20	113.380		
2,300.00	2,090.06	2,058.01	2,057.76	17.36	7.14	84.07	-2,151.43	2,047.62	2,742.74	2,718.41	24.34	112.696		
2,400.00	2,162.18	2,132.25	2,131.99	18.84	7.41	85.17	-2,151.64	2,046.24	2,732.94	2,706.82	26.12	104.632		
2,500.00	2,234.31	2,208.79	2,208.52	20.33	7.68	86.30	-2,151.66	2,044.92	2,724.80	2,696.88	27.92	97.593		
2,600.00	2,306.43	2,287.88	2,287.60	21.83	7.97	87.47	-2,151.43	2,043.62	2,718.29	2,688.55	29.73	91.421		
2,700.00	2,378.56	2,354.93	2,354.64	23.33	8.20	88.46	-2,151.13	2,042.57	2,713.50	2,681.99	31.51	86.125		
2,800.00	2,450.68	2,420.75	2,420.45	24.84	8.44	89.44	-2,150.96	2,041.64	2,710.67	2,677.40	33.27	81.470		
2,897.03	2,520.66	2,486.51	2,486.20	26.31	8.67	90.41	-2,150.90	2,040.71	2,709.77	2,674.79	34.99	77.455 CC		
2,900.00	2,522.81	2,488.52	2,488.22	26.36	8.68	90.44	-2,150.90	2,040.68	2,709.78	2,674.74	35.04	77.339		
3,000.00	2,594.93	2,581.17	2,580.86	27.88	9.01	91.82	-2,150.62	2,039.13	2,710.52	2,673.64	36.88	73.496 ES		
3,100.00	2,667.06	2,659.23	2,658.89	29.40	9.29	92.98	-2,149.95	2,037.51	2,712.61	2,673.95	38.66	70.174		
3,200.00	2,739.18	2,749.47	2,749.11	30.92	9.61	94.33	-2,148.94	2,035.52	2,716.35	2,675.90	40.45	67.147		
3,300.00	2,811.31	2,837.72	2,837.31	32.45	9.92	95.64	-2,147.11	2,033.43	2,721.17	2,678.95	42.22	64.447		
3,400.00	2,883.43	2,906.20	2,905.75	33.98	10.16	96.65	-2,145.67	2,031.57	2,727.76	2,683.85	43.90	62.131		
3,500.00	2,955.56	2,966.68	2,966.20	35.51	10.38	97.55	-2,144.53	2,030.00	2,736.32	2,690.79	45.53	60.098		
3,600.00	3,027.68	3,033.22	3,032.71	37.04	10.61	98.53	-2,143.43	2,028.56	2,746.89	2,699.74	47.15	58.258		
3,700.00	3,099.81	3,106.33	3,105.80	38.57	10.87	99.59	-2,142.18	2,027.34	2,759.20	2,710.44	48.76	56.585		
3,800.00	3,171.93	3,167.29	3,166.75	40.11	11.08	100.47	-2,141.22	2,026.46	2,773.35	2,723.05	50.30	55.136		
3,900.00	3,244.06	3,229.53	3,228.98	41.64	11.30	101.37	-2,140.45	2,025.63	2,789.42	2,737.61	51.81	53.841		
4,000.00	3,316.18	3,292.32	3,291.76	43.18	11.52	102.26	-2,139.86	2,024.95	2,807.36	2,754.08	53.28	52.687		
4,100.00	3,388.31	3,357.02	3,356.46	44.71	11.75	103.18	-2,139.43	2,024.45	2,827.12	2,772.39	54.73	51.653		
4,200.00	3,460.43	3,423.92	3,423.36	46.25	11.99	104.11	-2,139.13	2,024.11	2,848.60	2,792.45	56.15	50.728		
4,300.00	3,532.56	3,494.15	3,493.59	47.79	12.24	105.09	-2,138.88	2,023.79	2,871.67	2,814.12	57.55	49.896		
4,400.00	3,604.68	3,565.54	3,564.98	49.33	12.49	106.07	-2,138.66	2,023.47	2,896.26	2,837.34	58.92	49.154		
4,500.00	3,676.81	3,637.61	3,637.05	50.87	12.75	107.05	-2,138.45	2,023.14	2,922.30	2,862.04	60.26	48.497		
4,600.00	3,748.93	3,710.28	3,709.71	52.41	13.01	108.03	-2,138.21	2,022.85	2,949.73	2,888.17	61.56	47.916		
4,700.00	3,821.06	3,782.26	3,781.69	53.95	13.26	108.99	-2,137.98	2,022.59	2,978.52	2,915.69	62.82	47.410		
4,800.00	3,893.18	3,852.38	3,851.81	55.49	13.51	109.91	-2,137.77	2,022.36	3,008.65	2,944.60	64.05	46.976		
4,900.00	3,965.31	3,922.00	3,921.43	57.03	13.76	110.82	-2,137.62	2,022.17	3,040.12	2,974.89	65.23	46.605		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,991.60	3,991.03	58.58	14.00	111.71	-2,137.50	2,021.81	3,072.90	3,006.52	66.38	46.290		
5,100.00	4,109.56	4,065.46	4,064.89	60.12	14.27	112.66	-2,137.34	2,021.23	3,106.90	3,039.38	67.52	46.013		
5,200.00	4,181.68	4,139.17	4,138.60	61.66	14.53	113.59	-2,137.09	2,020.48	3,142.02	3,073.40	68.63	45.785		
5,300.00	4,253.81	4,213.17	4,212.59	63.20	14.80	114.52	-2,136.74	2,019.43	3,178.26	3,108.56	69.70	45.602		
5,400.00	4,325.93	4,293.40	4,292.80	64.75	15.09	115.51	-2,136.16	2,018.17	3,215.48	3,144.72	70.76	45.440		
5,500.00	4,398.06	4,365.57	4,364.96	66.29	15.34	116.39	-2,135.52	2,017.01	3,253.67	3,181.91	71.76	45.338		
5,600.00	4,470.18	4,433.22	4,432.60	67.84	15.59	117.20	-2,134.91	2,015.86	3,292.93	3,220.21	72.72	45.285		
5,700.00	4,542.31	4,497.13	4,496.50	69.38	15.81	117.97	-2,134.42	2,014.63	3,333.34	3,259.72	73.62	45.276		
5,800.00	4,614.43	4,579.85	4,579.19	70.92	16.11	118.94	-2,133.66	2,012.76	3,374.70	3,300.12	74.59	45.246		
5,900.00	4,686.56	4,652.97	4,652.28	72.47	16.37	119.79	-2,132.71	2,010.86	3,416.84	3,341.36	75.48	45.270		
6,000.00	4,758.68	4,722.43	4,721.71	74.01	16.62	120.59	-2,131.81	2,009.04	3,459.92	3,383.60	76.33	45.330		
6,100.00	4,830.81	4,791.13	4,790.38	75.56	16.87	121.37	-2,130.96	2,007.27	3,503.94	3,426.79	77.15	45.417		
6,200.00	4,902.93	4,865.17	4,864.39	77.10	17.14	122.19	-2,130.06	2,005.41	3,548.81	3,470.83	77.98	45.510		
6,300.00	4,975.06	4,936.23	4,935.42	78.65	17.39	122.96	-2,129.17	2,003.70	3,594.45	3,515.68	78.77	45.631		
6,400.00	5,047.18	5,004.21	5,003.38	80.19	17.63	123.69	-2,128.36	2,002.09	3,640.93	3,561.40	79.53	45.780		
6,500.00	5,119.31	5,077.38	5,076.53	81.74	17.90	124.47	-2,127.52	2,000.39	3,688.19	3,607.89	80.30	45.932		
6,600.00	5,191.43	5,148.95	5,148.07	83.28	18.15	125.21	-2,126.68	1,998.77	3,736.14	3,655.10	81.04	46.103		
6,700.00	5,263.56	5,232.93	5,232.02	84.83	18.45	126.06	-2,125.65	1,996.93	3,784.76	3,702.94	81.82	46.255		
6,800.00	5,335.68	5,334.93	5,334.00	86.37	18.82	127.07	-2,123.79	1,995.23	3,833.47	3,750.79	82.68	46.363		
6,900.00	5,407.81	5,415.36	5,414.40	87.92	19.10	127.85	-2,122.12	1,994.23	3,882.55	3,799.13	83.43	46.539		
7,000.00	5,479.93	5,496.52	5,495.54	89.47	19.39	128.62	-2,120.36	1,993.52	3,932.09	3,847.93	84.16	46.723		
7,100.00	5,552.06	5,571.28	5,570.28	91.01	19.65	129.30	-2,118.77	1,993.14	3,982.10	3,897.25	84.85	46.931		
7,200.00	5,624.18	5,642.96	5,641.95	92.56	19.90	129.95	-2,117.32	1,992.98	4,032.66	3,947.14	85.52	47.157		
7,300.00	5,696.31	5,712.48	5,711.46	94.10	20.14	130.56	-2,115.98	1,992.86	4,083.79	3,997.63	86.16	47.397		
7,400.00	5,768.43	5,780.76	5,779.72	95.65	20.38	131.16	-2,114.74	1,992.75	4,135.50	4,048.71	86.79	47.649		
7,500.00	5,840.56	5,852.08	5,851.03	97.20	20.62	131.76	-2,113.51	1,992.64	4,187.76	4,100.33	87.43	47.901		
7,600.00	5,912.68	5,923.96	5,922.90	98.74	20.87	132.37	-2,112.29	1,992.55	4,240.50	4,152.45	88.05	48.158		
7,700.00	5,984.81	5,994.53	5,993.46	100.29	21.12	132.95	-2,111.11	1,992.45	4,293.73	4,205.06	88.67	48.424		
7,800.00	6,056.93	6,062.10	6,061.03	101.84	21.36	133.49	-2,110.03	1,992.35	4,347.45	4,258.19	89.26	48.706		
7,900.00	6,129.06	6,134.07	6,132.98	103.38	21.61	134.06	-2,108.98	1,992.26	4,401.66	4,311.80	89.87	48.979		
8,000.00	6,201.18	6,212.36	6,211.26	104.93	21.88	134.67	-2,107.72	1,992.13	4,456.22	4,365.72	90.50	49.239		
8,100.00	6,273.31	6,292.35	6,291.25	106.48	22.16	135.28	-2,106.27	1,991.95	4,511.07	4,419.93	91.14	49.497		
8,200.00	6,345.43	6,353.25	6,352.14	108.02	22.37	135.74	-2,105.18	1,991.83	4,566.31	4,474.65	91.66	49.815		
8,300.00	6,417.56	6,414.30	6,413.18	109.57	22.59	136.19	-2,104.35	1,991.76	4,622.13	4,529.94	92.19	50.138		
8,400.00	6,489.68	6,483.86	6,482.73	111.12	22.83	136.69	-2,103.51	1,991.68	4,678.40	4,585.65	92.76	50.438		
8,500.00	6,561.81	6,554.22	6,553.08	112.66	23.08	137.19	-2,102.69	1,991.57	4,735.05	4,641.72	93.32	50.738		
8,600.00	6,633.93	6,623.64	6,622.50	114.21	23.32	137.67	-2,101.90	1,991.44	4,792.05	4,698.17	93.88	51.044		
8,700.00	6,706.06	6,690.90	6,689.76	115.76	23.56	138.13	-2,101.21	1,991.33	4,849.43	4,755.00	94.42	51.358		
8,800.00	6,778.18	6,769.37	6,768.23	117.30	23.83	138.66	-2,100.55	1,991.37	4,907.11	4,812.09	95.03	51.639		
8,900.00	6,850.31	6,864.50	6,863.36	118.85	24.16	139.27	-2,099.80	1,991.90	4,964.91	4,869.18	95.73	51.864		
9,000.00	6,922.43	6,949.92	6,948.77	120.40	24.45	139.81	-2,098.81	1,992.58	5,022.63	4,926.26	96.37	52.118		
9,100.00	6,994.56	7,027.10	7,025.94	121.95	24.71	140.29	-2,097.85	1,993.26	5,080.55	4,983.59	96.96	52.398		
9,200.00	7,066.68	7,107.36	7,106.19	123.49	24.99	140.78	-2,096.79	1,994.02	5,138.64	5,041.07	97.57	52.667		
9,300.00	7,138.81	7,182.66	7,181.47	125.04	25.24	141.23	-2,095.73	1,994.78	5,196.91	5,098.76	98.15	52.951		
9,392.50	7,205.52	7,261.62	7,260.42	126.47	25.52	141.69	-2,094.54	1,995.62	5,250.95	5,152.21	98.73	53.184		
9,400.00	7,210.94	7,268.29	7,267.08	126.59	25.54	140.65	-2,094.44	1,995.69	5,255.30	5,156.52	98.78	53.202		
9,450.00	7,247.42	7,317.10	7,315.89	127.35	25.71	133.79	-2,093.61	1,996.28	5,282.63	5,183.50	99.14	53.286		
9,500.00	7,284.35	7,376.25	7,375.02	128.10	25.91	127.14	-2,092.44	1,997.10	5,306.88	5,207.32	99.56	53.305		
9,550.00	7,321.43	7,417.06	7,415.82	128.83	26.05	120.60	-2,091.53	1,997.74	5,327.89	5,228.02	99.87	53.348		
9,600.00	7,358.38	7,445.28	7,444.02	129.52	26.15	114.31	-2,090.93	1,998.16	5,345.72	5,245.61	100.11	53.399		
9,650.00	7,394.93	7,473.08	7,471.82	130.16	26.24	108.43	-2,090.37	1,998.55	5,360.29	5,259.95	100.34	53.422		
9,700.00	7,430.79	7,500.31	7,499.04	130.76	26.34	103.08	-2,089.87	1,998.90	5,371.51	5,270.96	100.55	53.419		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,530.41	7,529.13	131.30	26.44	98.33	-2,089.33	1,999.25	5,379.33	5,278.56	100.77	53.382		
9,800.00	7,499.38	7,559.31	7,558.02	131.78	26.54	94.19	-2,088.81	1,999.55	5,383.71	5,282.75	100.96	53.325		
9,850.00	7,531.58	7,586.79	7,585.50	132.21	26.63	90.68	-2,088.31	1,999.80	5,384.65	5,283.54	101.12	53.251		
9,900.00	7,562.06	7,613.78	7,612.49	132.57	26.73	87.78	-2,087.82	2,000.01	5,382.17	5,280.93	101.25	53.158		
9,950.00	7,590.58	7,640.07	7,638.77	132.87	26.82	85.49	-2,087.36	2,000.22	5,376.31	5,274.96	101.35	53.049		
10,000.00	7,616.93	7,664.29	7,662.98	133.11	26.90	83.76	-2,086.95	2,000.41	5,367.11	5,265.71	101.40	52.928		
10,050.00	7,640.90	7,686.26	7,684.95	133.29	26.98	82.59	-2,086.58	2,000.58	5,354.68	5,253.26	101.42	52.796		
10,100.00	7,662.32	8,045.36	8,043.45	133.42	28.22	85.53	-2,070.05	2,009.16	5,338.24	5,234.93	103.31	51.670		
10,150.00	7,681.01	8,060.63	8,058.67	133.50	28.28	85.59	-2,069.00	2,009.84	5,318.57	5,215.32	103.25	51.511		
10,200.00	7,696.85	8,073.08	8,071.07	133.52	28.32	86.19	-2,068.15	2,010.40	5,296.22	5,193.07	103.15	51.347		
10,250.00	7,709.70	8,082.57	8,080.54	133.51	28.35	87.33	-2,067.50	2,010.83	5,271.34	5,168.33	103.01	51.175		
10,300.00	7,719.47	8,089.03	8,086.97	133.46	28.37	89.03	-2,067.06	2,011.13	5,244.11	5,141.28	102.83	50.997		
10,350.00	7,726.09	8,092.38	8,090.31	133.37	28.39	91.30	-2,066.84	2,011.28	5,214.71	5,112.08	102.63	50.812		
10,400.00	7,729.50	8,092.56	8,090.49	133.26	28.39	94.18	-2,066.83	2,011.29	5,183.34	5,080.94	102.40	50.619		
10,427.79	7,730.00	8,091.28	8,089.22	133.18	28.38	96.06	-2,066.91	2,011.23	5,165.12	5,062.85	102.26	50.508		
10,500.00	7,730.00	8,086.66	8,084.61	132.98	28.37	95.99	-2,067.22	2,011.02	5,117.40	5,015.49	101.90	50.219		
10,600.00	7,730.00	8,080.22	8,078.19	132.72	28.34	95.89	-2,067.66	2,010.73	5,052.26	4,950.86	101.40	49.827		
10,700.00	7,730.00	8,073.71	8,071.70	132.47	28.32	95.80	-2,068.10	2,010.43	4,988.26	4,887.37	100.89	49.444		
10,800.00	7,730.00	8,067.14	8,065.15	132.22	28.30	95.70	-2,068.55	2,010.14	4,925.46	4,825.08	100.37	49.071		
10,900.00	7,730.00	8,060.50	8,058.54	131.99	28.28	95.60	-2,069.01	2,009.84	4,863.89	4,764.03	99.86	48.708		
11,000.00	7,730.00	8,053.80	8,051.86	131.77	28.25	95.50	-2,069.47	2,009.54	4,803.60	4,704.26	99.34	48.353		
11,100.00	7,730.00	8,047.03	8,045.11	131.56	28.23	95.40	-2,069.94	2,009.24	4,744.65	4,645.82	98.83	48.008		
11,200.00	7,730.00	8,040.19	8,038.30	131.36	28.21	95.30	-2,070.41	2,008.93	4,687.08	4,588.76	98.32	47.672		
11,300.00	7,730.00	8,033.29	8,031.42	131.17	28.18	95.20	-2,070.90	2,008.63	4,630.94	4,533.12	97.81	47.344		
11,400.00	7,730.00	8,026.32	8,024.47	130.99	28.16	95.10	-2,071.39	2,008.32	4,576.29	4,478.97	97.31	47.026		
11,500.00	7,730.00	8,019.28	8,017.46	130.82	28.13	94.99	-2,071.88	2,008.02	4,523.17	4,426.35	96.83	46.715		
11,600.00	7,730.00	11,600.00	7,974.83	130.66	41.13	94.36	-2,074.87	2,006.35	4,471.61	4,363.39	108.22	41.321		
11,700.00	7,730.00	8,016.82	8,015.00	130.51	28.13	94.96	-2,072.04	2,007.93	4,421.78	4,325.81	95.98	46.072		
11,800.00	7,730.00	7,992.53	7,990.80	130.37	28.04	94.60	-2,073.79	2,006.87	4,373.63	4,278.23	95.39	45.848		
11,900.00	7,730.00	7,969.28	7,967.62	130.24	27.96	94.25	-2,075.43	2,005.93	4,327.21	4,232.37	94.83	45.630		
12,000.00	7,730.00	12,000.00	7,839.43	130.13	41.99	92.34	-2,082.69	2,002.45	4,282.25	4,174.42	107.83	39.712		
12,100.00	7,730.00	7,754.50	7,753.18	130.02	27.22	91.06	-2,085.39	2,001.17	4,239.33	4,147.17	92.15	46.004		
12,200.00	7,730.00	7,752.04	7,750.72	129.93	27.21	91.02	-2,085.44	2,001.14	4,198.31	4,106.51	91.80	45.733		
12,300.00	7,730.00	7,749.62	7,748.30	129.85	27.20	90.99	-2,085.49	2,001.12	4,159.30	4,067.81	91.49	45.464		
12,400.00	7,730.00	7,747.23	7,745.91	129.77	27.19	90.95	-2,085.53	2,001.10	4,122.34	4,031.13	91.21	45.194		
12,500.00	7,730.00	7,744.87	7,743.55	129.71	27.18	90.92	-2,085.57	2,001.07	4,087.49	3,996.51	90.99	44.924		
12,600.00	7,730.00	7,742.54	7,741.23	129.66	27.18	90.88	-2,085.62	2,001.05	4,054.82	3,964.01	90.81	44.652		
12,700.00	7,730.00	7,740.25	7,738.94	129.63	27.17	90.85	-2,085.66	2,001.03	4,024.35	3,933.67	90.68	44.378		
12,800.00	7,730.00	7,737.99	7,736.67	129.60	27.16	90.81	-2,085.70	2,001.01	3,996.16	3,905.55	90.61	44.101		
12,900.00	7,730.00	7,735.76	7,734.45	129.59	27.15	90.78	-2,085.74	2,000.99	3,970.29	3,879.69	90.60	43.820		
13,000.00	7,730.00	7,733.56	7,732.25	129.59	27.14	90.75	-2,085.78	2,000.97	3,946.78	3,856.13	90.65	43.537		
13,100.00	7,730.00	7,731.39	7,730.08	129.60	27.14	90.72	-2,085.82	2,000.95	3,925.68	3,834.91	90.77	43.251		
13,200.00	7,730.00	7,729.25	7,727.94	129.63	27.13	90.68	-2,085.86	2,000.93	3,907.02	3,816.08	90.94	42.961		
13,300.00	7,730.00	7,727.14	7,725.83	129.66	27.12	90.65	-2,085.90	2,000.91	3,890.84	3,799.66	91.18	42.671		
13,400.00	7,730.00	7,725.06	7,723.74	129.72	27.11	90.62	-2,085.93	2,000.90	3,877.18	3,785.69	91.49	42.379		
13,500.00	7,730.00	7,723.00	7,721.69	129.78	27.11	90.59	-2,085.97	2,000.88	3,866.05	3,774.19	91.86	42.087		
13,600.00	7,730.00	7,720.97	7,719.66	129.86	27.10	90.56	-2,086.00	2,000.86	3,857.48	3,765.19	92.29	41.798		
13,700.00	7,730.00	7,718.96	7,717.65	129.96	27.09	90.53	-2,086.04	2,000.84	3,851.49	3,758.71	92.78	41.512		
13,800.00	7,730.00	7,716.99	7,715.67	130.07	27.09	90.50	-2,086.07	2,000.83	3,848.09	3,754.76	93.33	41.231		
13,880.95	7,730.00	7,715.40	7,714.09	130.17	27.08	90.48	-2,086.10	2,000.81	3,847.24	3,753.43	93.82	41.008		
13,900.00	7,730.00	7,715.03	7,713.72	130.19	27.08	90.47	-2,086.11	2,000.81	3,847.29	3,753.36	93.93	40.958		
14,000.00	7,730.00	7,713.11	7,711.79	130.33	27.07	90.44	-2,086.14	2,000.79	3,849.08	3,754.50	94.59	40.694		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,711.20	7,709.89	130.49	27.07	90.42	-2,086.17	2,000.78	3,853.47	3,758.19	95.29	40.441		
14,200.00	7,730.00	7,709.32	7,708.01	130.67	27.06	90.39	-2,086.20	2,000.76	3,860.44	3,764.42	96.03	40.202		
14,300.00	7,730.00	7,707.47	7,706.16	130.86	27.05	90.36	-2,086.23	2,000.75	3,869.99	3,773.19	96.80	39.977		
14,400.00	7,730.00	7,705.63	7,704.32	131.07	27.05	90.33	-2,086.26	2,000.73	3,882.09	3,784.47	97.61	39.770		
14,500.00	7,730.00	7,703.82	7,702.51	131.30	27.04	90.31	-2,086.29	2,000.72	3,896.71	3,798.26	98.45	39.580		
14,600.00	7,730.00	7,702.03	7,700.72	131.55	27.03	90.28	-2,086.32	2,000.70	3,913.84	3,814.53	99.31	39.410		
14,700.00	7,730.00	7,700.27	7,698.96	131.82	27.03	90.25	-2,086.35	2,000.69	3,933.43	3,833.25	100.19	39.261		
14,800.00	7,730.00	7,698.59	7,697.28	132.11	27.02	90.23	-2,086.38	2,000.68	3,955.46	3,854.38	101.08	39.133		
14,900.00	7,730.00	7,696.93	7,695.62	132.42	27.02	90.20	-2,086.41	2,000.66	3,979.88	3,877.90	101.97	39.028		
15,000.00	7,730.00	7,695.26	7,693.95	132.75	27.01	90.18	-2,086.43	2,000.65	4,006.64	3,903.76	102.88	38.946		
15,100.00	7,730.00	7,693.58	7,692.27	133.10	27.01	90.15	-2,086.46	2,000.64	4,035.70	3,931.93	103.78	38.888		
15,200.00	7,730.00	7,691.89	7,690.58	133.48	27.00	90.13	-2,086.49	2,000.62	4,067.02	3,962.34	104.67	38.854		
15,300.00	7,730.00	7,690.20	7,688.89	133.88	26.99	90.10	-2,086.51	2,000.61	4,100.53	3,994.97	105.56	38.844 SF		
15,400.00	7,730.00	7,688.50	7,687.19	134.31	26.99	90.08	-2,086.54	2,000.60	4,136.19	4,029.75	106.44	38.858		
15,500.00	7,730.00	7,686.79	7,685.48	134.76	26.98	90.05	-2,086.57	2,000.58	4,173.94	4,066.63	107.31	38.896		
15,600.00	7,730.00	7,685.07	7,683.77	135.23	26.98	90.03	-2,086.60	2,000.57	4,213.73	4,105.57	108.16	38.957		
15,700.00	7,730.00	7,683.35	7,682.05	135.73	26.97	90.00	-2,086.63	2,000.56	4,255.49	4,146.49	109.00	39.042		
15,800.00	7,730.00	7,681.62	7,680.32	136.26	26.96	89.97	-2,086.66	2,000.54	4,299.18	4,189.36	109.82	39.149		
15,900.00	7,730.00	7,679.89	7,678.58	136.81	26.96	89.95	-2,086.68	2,000.53	4,344.72	4,234.11	110.61	39.279		
16,000.00	7,730.00	7,678.14	7,676.84	137.39	26.95	89.92	-2,086.71	2,000.52	4,392.07	4,280.68	111.39	39.430		
16,100.00	7,730.00	7,676.39	7,675.09	138.00	26.95	89.90	-2,086.74	2,000.50	4,441.17	4,329.03	112.14	39.603		
16,200.00	7,730.00	7,674.64	7,673.33	138.63	26.94	89.87	-2,086.77	2,000.49	4,491.96	4,379.08	112.87	39.796		
16,300.00	7,730.00	7,672.87	7,671.57	139.30	26.93	89.84	-2,086.80	2,000.47	4,544.37	4,430.79	113.58	40.010		
16,400.00	7,730.00	7,671.10	7,669.79	139.99	26.93	89.82	-2,086.83	2,000.46	4,598.37	4,484.10	114.27	40.243		
16,500.00	7,730.00	7,669.32	7,668.01	140.70	26.92	89.79	-2,086.86	2,000.45	4,653.89	4,538.96	114.93	40.494		
16,600.00	7,730.00	7,667.53	7,666.23	141.45	26.91	89.77	-2,086.89	2,000.43	4,710.87	4,595.31	115.57	40.763		
16,700.00	7,730.00	7,665.73	7,664.43	142.22	26.91	89.74	-2,086.92	2,000.42	4,769.27	4,653.09	116.18	41.050		
16,800.00	7,730.00	7,663.93	7,662.63	143.03	26.90	89.71	-2,086.95	2,000.40	4,829.04	4,712.26	116.77	41.354		
16,900.00	7,730.00	7,662.12	7,660.82	143.86	26.90	89.68	-2,086.98	2,000.39	4,890.12	4,772.77	117.34	41.674		
17,000.00	7,730.00	7,660.30	7,659.00	144.71	26.89	89.66	-2,087.01	2,000.38	4,952.46	4,834.57	117.89	42.009		
17,100.00	7,730.00	7,658.47	7,657.17	145.60	26.88	89.63	-2,087.04	2,000.36	5,016.02	4,897.61	118.42	42.359		
17,200.00	7,730.00	7,656.64	7,655.34	146.51	26.88	89.60	-2,087.07	2,000.35	5,080.76	4,961.84	118.92	42.724		
17,300.00	7,730.00	7,654.80	7,653.50	147.44	26.87	89.58	-2,087.11	2,000.33	5,146.62	5,027.22	119.41	43.102		
17,400.00	7,730.00	7,652.95	7,651.65	148.40	26.86	89.55	-2,087.14	2,000.32	5,213.57	5,093.70	119.87	43.493		
17,500.00	7,730.00	7,651.09	7,649.79	149.39	26.86	89.52	-2,087.17	2,000.30	5,281.56	5,161.25	120.32	43.898		
17,600.00	7,730.00	7,649.22	7,647.92	150.40	26.85	89.49	-2,087.20	2,000.29	5,350.56	5,229.82	120.74	44.314		
17,700.00	7,730.00	7,647.35	7,646.05	151.44	26.84	89.46	-2,087.23	2,000.27	5,420.53	5,299.38	121.15	44.742		
17,800.00	7,730.00	7,645.46	7,644.16	152.50	26.84	89.44	-2,087.27	2,000.26	5,491.42	5,369.88	121.54	45.181		
17,900.00	7,730.00	7,643.57	7,642.27	153.58	26.83	89.41	-2,087.30	2,000.25	5,563.21	5,441.29	121.92	45.631		
18,000.00	7,730.00	7,641.67	7,640.37	154.68	26.83	89.38	-2,087.33	2,000.23	5,635.85	5,513.57	122.28	46.091		
18,100.00	7,730.00	7,639.77	7,638.47	155.80	26.82	89.35	-2,087.36	2,000.22	5,709.32	5,586.70	122.62	46.561		
18,200.00	7,730.00	7,637.85	7,636.55	156.95	26.81	89.32	-2,087.40	2,000.20	5,783.59	5,660.64	122.95	47.040		
18,300.00	7,730.00	7,635.93	7,634.63	158.11	26.81	89.29	-2,087.43	2,000.19	5,858.62	5,735.36	123.26	47.529		
18,400.00	7,730.00	7,633.99	7,632.69	159.30	26.80	89.27	-2,087.46	2,000.17	5,934.39	5,810.83	123.57	48.026		
18,500.00	7,730.00	7,632.05	7,630.75	160.50	26.79	89.24	-2,087.50	2,000.16	6,010.87	5,887.02	123.85	48.532		
18,600.00	7,730.00	7,630.10	7,628.80	161.72	26.78	89.21	-2,087.53	2,000.14	6,088.03	5,963.90	124.13	49.045		
18,700.00	7,730.00	7,628.14	7,626.85	162.96	26.78	89.18	-2,087.57	2,000.12	6,165.84	6,041.45	124.40	49.566		
18,800.00	7,730.00	7,626.17	7,624.88	164.21	26.77	89.15	-2,087.60	2,000.11	6,244.29	6,119.64	124.65	50.095		
18,900.00	7,730.00	7,624.20	7,622.90	165.48	26.76	89.12	-2,087.64	2,000.09	6,323.34	6,198.45	124.89	50.631		
19,000.00	7,730.00	7,622.21	7,620.92	166.76	26.76	89.09	-2,087.67	2,000.08	6,402.98	6,277.85	125.12	51.173		
19,100.00	7,730.00	7,620.22	7,618.92	168.06	26.75	89.06	-2,087.71	2,000.06	6,483.18	6,357.83	125.35	51.722		
19,200.00	7,730.00	7,618.22	7,616.92	169.38	26.74	89.03	-2,087.74	2,000.05	6,563.92	6,438.36	125.56	52.277		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	7,616.20	7,614.91	170.70	26.74	89.00	-2,087.78	2,000.03	6,645.19	6,519.43	125.76	52.838	
19,400.00	7,730.00	7,614.18	7,612.89	172.04	26.73	88.97	-2,087.81	2,000.02	6,726.96	6,601.00	125.96	53.405	
19,500.00	7,730.00	7,612.15	7,610.86	173.40	26.72	88.94	-2,087.85	2,000.00	6,809.22	6,683.07	126.15	53.978	
19,600.00	7,730.00	7,610.11	7,608.82	174.76	26.72	88.91	-2,087.89	1,999.98	6,891.95	6,765.62	126.33	54.555	
19,700.00	7,730.00	7,608.06	7,606.77	176.14	26.71	88.88	-2,087.92	1,999.97	6,975.13	6,848.62	126.50	55.138	
19,800.00	7,730.00	7,606.00	7,604.71	177.52	26.70	88.85	-2,087.96	1,999.95	7,058.74	6,932.07	126.67	55.726	
19,900.00	7,730.00	7,603.94	7,602.64	178.92	26.69	88.82	-2,088.00	1,999.94	7,142.78	7,015.95	126.83	56.318	
20,000.00	7,730.00	7,601.86	7,600.57	180.33	26.69	88.79	-2,088.04	1,999.92	7,227.22	7,100.24	126.98	56.915	
20,100.00	7,730.00	7,599.84	7,598.54	181.75	26.68	88.76	-2,088.07	1,999.91	7,312.05	7,184.92	127.13	57.516	
20,184.95	7,730.00	7,598.55	7,597.26	182.96	26.68	88.74	-2,088.10	1,999.90	7,384.42	7,257.17	127.25	58.029	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	69.42	765.45	2,038.64	2,177.97					
100.00	100.00	82.07	82.07	0.13	0.13	69.42	765.42	2,038.20	2,177.30	2,177.03	0.26	8,216.427		
200.00	199.98	229.18	229.14	0.49	0.63	-1.08	766.05	2,034.99	2,173.76	2,172.62	1.13	1,917.000		
300.00	299.84	469.73	468.85	0.86	1.54	-1.38	770.57	2,016.43	2,161.80	2,159.38	2.42	894.051		
400.00	399.45	615.79	613.37	1.23	2.15	-1.78	777.74	1,996.58	2,142.12	2,138.77	3.35	638.753		
500.00	498.70	719.94	715.75	1.63	2.61	-2.21	786.62	1,979.71	2,118.06	2,113.92	4.14	511.663		
600.00	597.47	803.86	797.89	2.05	3.00	-2.65	796.03	1,965.35	2,090.82	2,085.96	4.86	429.930		
700.00	695.62	881.18	873.26	2.51	3.38	-3.14	806.76	1,951.87	2,061.03	2,055.45	5.58	369.370		
800.00	793.06	954.70	944.67	3.00	3.74	-3.68	818.68	1,939.05	2,028.92	2,022.62	6.30	322.040		
900.00	889.64	1,035.04	1,022.37	3.53	4.16	-4.35	833.59	1,925.12	1,994.63	1,987.55	7.08	281.777		
1,000.00	985.27	1,142.73	1,126.26	4.12	4.73	-5.34	854.03	1,905.46	1,956.75	1,948.73	8.02	244.003		
1,100.00	1,079.82	1,225.23	1,206.15	4.75	5.17	-6.14	868.55	1,890.90	1,916.06	1,907.22	8.84	216.732		
1,200.00	1,173.17	1,314.52	1,292.35	5.44	5.66	-7.11	885.28	1,874.69	1,872.54	1,862.82	9.72	192.713		
1,300.00	1,265.21	1,401.08	1,375.44	6.18	6.15	-8.21	903.00	1,858.09	1,826.15	1,815.54	10.61	172.101		
1,400.00	1,355.84	1,481.31	1,452.16	6.99	6.62	-9.39	920.32	1,842.29	1,777.19	1,765.69	11.50	154.530		
1,500.00	1,444.94	1,559.00	1,526.36	7.87	7.09	-10.68	937.47	1,826.90	1,725.87	1,713.47	12.40	139.161		
1,600.00	1,532.39	1,631.46	1,595.61	8.80	7.52	-12.02	953.43	1,812.75	1,672.39	1,659.10	13.29	125.793		
1,700.00	1,618.11	1,707.71	1,668.63	9.81	7.97	-13.56	969.89	1,798.28	1,616.87	1,602.64	14.23	113.626		
1,800.00	1,701.97	1,784.59	1,742.34	10.89	8.43	-15.30	986.19	1,783.70	1,559.09	1,543.90	15.20	102.603		
1,900.00	1,783.88	1,857.39	1,812.17	12.04	8.86	-17.17	1,001.50	1,769.93	1,499.29	1,483.11	16.18	92.687		
2,000.00	1,863.74	1,930.00	1,881.80	13.26	9.29	-19.31	1,016.73	1,756.12	1,437.58	1,420.38	17.20	83.565		
2,100.00	1,941.45	1,995.96	1,945.14	14.55	9.67	-21.55	1,030.33	1,743.71	1,374.21	1,355.96	18.25	75.309		
2,200.00	2,016.92	2,064.03	2,010.77	15.92	10.07	-24.12	1,043.66	1,731.49	1,309.45	1,290.08	19.37	67.603		
2,292.11	2,084.36	2,130.46	2,074.76	17.25	10.45	-26.97	1,056.58	1,719.20	1,248.41	1,227.90	20.50	60.884		
2,300.00	2,090.06	2,135.98	2,080.06	17.36	10.48	-27.16	1,057.66	1,718.15	1,243.12	1,222.52	20.61	60.321		
2,400.00	2,162.18	2,199.66	2,141.27	18.84	10.86	-29.48	1,070.25	1,705.82	1,176.94	1,155.02	21.92	53.683		
2,500.00	2,234.31	2,261.29	2,200.36	20.33	11.23	-31.92	1,082.68	1,693.54	1,112.35	1,088.98	23.37	47.595		
2,600.00	2,306.43	2,321.71	2,258.28	21.83	11.59	-34.50	1,094.94	1,681.43	1,049.80	1,024.83	24.97	42.039		
2,700.00	2,378.56	2,383.85	2,317.87	23.33	11.96	-37.33	1,107.43	1,669.07	989.64	962.89	26.76	36.988		
2,800.00	2,450.68	2,444.77	2,376.40	24.84	12.32	-40.28	1,119.43	1,657.14	932.28	903.57	28.72	32.465		
2,900.00	2,522.81	2,504.50	2,433.83	26.36	12.68	-43.36	1,131.17	1,645.62	878.40	847.54	30.86	28.462		
3,000.00	2,594.93	2,560.75	2,487.89	27.88	13.01	-46.43	1,142.37	1,634.91	828.78	795.61	33.17	24.985		
3,100.00	2,667.06	2,617.69	2,542.56	29.40	13.35	-49.71	1,154.10	1,624.16	784.37	748.71	35.65	21.999		
3,200.00	2,739.18	2,677.43	2,599.92	30.92	13.70	-53.31	1,166.60	1,613.05	745.89	707.60	38.29	19.479		
3,300.00	2,811.31	2,738.46	2,658.56	32.45	14.06	-57.12	1,179.42	1,602.00	714.14	673.15	40.99	17.422		
3,400.00	2,883.43	2,801.48	2,719.23	33.98	14.43	-61.15	1,192.58	1,591.20	689.82	646.16	43.66	15.799		
3,500.00	2,955.56	2,866.26	2,781.64	35.51	14.80	-65.39	1,205.99	1,580.17	673.50	627.30	46.20	14.578		
3,600.00	3,027.68	2,932.49	2,845.45	37.04	15.18	-69.81	1,219.50	1,568.69	665.68	617.19	48.50	13.727		
3,640.37	3,056.80	2,959.57	2,871.57	37.66	15.34	-71.62	1,224.92	1,564.00	664.97	615.64	49.33	13.479 CC, ES		
3,700.00	3,099.81	2,999.39	2,909.99	38.57	15.56	-74.29	1,232.76	1,557.11	666.52	616.07	50.45	13.211		
3,800.00	3,171.93	3,066.69	2,975.05	40.11	15.94	-78.74	1,245.80	1,545.89	675.96	623.95	52.02	12.995 SF		
3,900.00	3,244.06	3,125.46	3,031.90	41.64	16.28	-82.57	1,257.15	1,536.14	693.90	640.84	53.06	13.078		
4,000.00	3,316.18	3,181.51	3,085.93	43.18	16.60	-86.16	1,268.22	1,526.18	720.36	666.66	53.70	13.414		
4,100.00	3,388.31	3,237.50	3,139.77	44.71	16.93	-89.64	1,279.57	1,515.82	754.57	700.48	54.09	13.952		
4,200.00	3,460.43	3,300.36	3,200.11	46.25	17.30	-93.40	1,292.54	1,503.92	795.44	741.01	54.42	14.616		
4,300.00	3,532.56	3,370.86	3,267.95	47.79	17.72	-97.39	1,306.52	1,490.78	841.20	786.40	54.79	15.352		
4,400.00	3,604.68	3,432.60	3,327.43	49.33	18.08	-100.68	1,318.60	1,479.45	891.30	836.36	54.93	16.225		
4,500.00	3,676.81	3,487.94	3,380.71	50.87	18.40	-103.45	1,329.55	1,469.30	945.34	890.41	54.93	17.209		
4,600.00	3,748.93	3,538.70	3,429.45	52.41	18.70	-105.85	1,339.98	1,459.64	1,003.26	948.41	54.85	18.291		
4,700.00	3,821.06	3,603.37	3,491.43	53.95	19.09	-108.72	1,353.50	1,447.10	1,064.17	1,009.10	55.07	19.325		
4,800.00	3,893.18	3,674.52	3,559.77	55.49	19.52	-111.64	1,368.02	1,433.61	1,126.94	1,071.51	55.43	20.331		
4,900.00	3,965.31	3,750.87	3,633.31	57.03	19.96	-114.51	1,383.22	1,419.84	1,190.93	1,135.02	55.91	21.299		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,802.68	3,683.19	58.58	20.27	-116.32	1,393.62	1,410.48	1,256.56	1,200.58	55.98	22.446		
5,100.00	4,109.56	3,860.76	3,739.05	60.12	20.61	-118.21	1,405.44	1,399.85	1,323.81	1,267.61	56.20	23.554		
5,200.00	4,181.68	3,920.48	3,796.45	61.66	20.96	-120.02	1,417.72	1,388.84	1,392.34	1,335.85	56.49	24.646		
5,300.00	4,253.81	3,983.66	3,857.16	63.20	21.34	-121.80	1,430.75	1,377.18	1,461.90	1,405.02	56.88	25.701		
5,400.00	4,325.93	4,053.58	3,924.40	64.75	21.75	-123.63	1,445.02	1,364.36	1,532.20	1,474.78	57.41	26.686		
5,500.00	4,398.06	4,124.58	3,992.85	66.29	22.16	-125.36	1,459.02	1,351.73	1,602.75	1,544.77	57.98	27.642		
5,600.00	4,470.18	4,177.84	4,044.19	67.84	22.47	-126.58	1,469.45	1,342.16	1,674.08	1,615.81	58.26	28.733		
5,700.00	4,542.31	4,232.30	4,096.62	69.38	22.79	-127.75	1,480.19	1,332.10	1,746.31	1,687.72	58.59	29.804		
5,800.00	4,614.43	4,288.18	4,150.39	70.92	23.12	-128.88	1,491.21	1,321.58	1,819.29	1,760.32	58.97	30.852		
5,900.00	4,686.56	4,354.86	4,214.57	72.47	23.51	-130.16	1,504.13	1,308.91	1,892.78	1,833.23	59.54	31.788		
6,000.00	4,758.68	4,424.54	4,281.75	74.01	23.91	-131.42	1,517.23	1,295.85	1,966.44	1,906.26	60.18	32.677		
6,100.00	4,830.81	4,495.69	4,350.29	75.56	24.33	-132.58	1,531.36	1,283.00	2,040.21	1,979.33	60.87	33.516		
6,200.00	4,902.93	4,538.70	4,391.67	77.10	24.58	-133.24	1,540.04	1,275.11	2,114.48	2,053.36	61.12	34.596		
6,300.00	4,975.06	4,584.88	4,436.06	78.65	24.85	-133.93	1,549.20	1,266.27	2,189.53	2,128.10	61.43	35.642		
6,400.00	5,047.18	4,774.93	4,620.01	80.19	25.92	-136.58	1,582.81	1,232.57	2,264.60	2,200.65	63.95	35.413		
6,500.00	5,119.31	4,905.63	4,748.33	81.74	26.53	-138.32	1,600.06	1,214.80	2,335.87	2,270.55	65.32	35.760		
6,600.00	5,191.43	5,018.76	4,859.99	83.28	27.03	-139.75	1,612.86	1,201.88	2,405.77	2,339.38	66.39	36.237		
6,700.00	5,263.56	5,070.00	5,057.60	84.83	32.85	-142.10	1,630.26	1,185.97	2,473.18	2,399.90	73.28	33.750		
6,800.00	5,335.68	5,427.83	5,267.31	86.37	28.39	-144.52	1,637.71	1,179.51	2,536.75	2,467.01	69.75	36.372		
6,900.00	5,407.81	5,533.88	5,373.36	87.92	28.63	-145.71	1,637.93	1,179.08	2,599.00	2,528.67	70.33	36.954		
7,000.00	5,479.93	5,617.79	5,457.26	89.47	28.82	-146.61	1,637.85	1,179.42	2,661.02	2,590.24	70.78	37.598		
7,100.00	5,552.06	5,683.82	5,523.30	91.01	28.96	-147.29	1,637.86	1,179.78	2,723.27	2,652.14	71.13	38.288		
7,200.00	5,624.18	5,751.17	5,590.64	92.56	29.11	-147.96	1,637.74	1,179.97	2,786.00	2,714.52	71.48	38.974		
7,300.00	5,696.31	5,819.94	5,659.41	94.10	29.27	-148.62	1,637.64	1,180.09	2,849.13	2,777.27	71.86	39.650		
7,400.00	5,768.43	5,885.90	5,725.38	95.65	29.42	-149.23	1,637.58	1,180.09	2,912.65	2,840.43	72.22	40.330		
7,500.00	5,840.56	5,951.15	5,790.62	97.20	29.58	-149.81	1,637.61	1,179.94	2,976.59	2,904.00	72.59	41.004		
7,600.00	5,912.68	6,022.51	5,861.99	98.74	29.75	-150.41	1,637.90	1,179.66	3,040.91	2,967.89	73.02	41.647		
7,700.00	5,984.81	6,112.29	5,951.76	100.29	29.98	-151.14	1,638.24	1,179.62	3,105.20	3,031.63	73.57	42.206		
7,800.00	6,056.93	6,169.90	6,009.37	101.84	30.12	-151.59	1,638.59	1,179.54	3,169.74	3,095.82	73.92	42.881		
7,900.00	6,129.06	6,262.76	6,102.23	103.38	30.36	-152.28	1,639.43	1,179.55	3,234.41	3,159.89	74.52	43.402		
8,000.00	6,201.18	6,341.48	6,180.94	104.93	30.56	-152.84	1,640.30	1,180.01	3,298.83	3,223.80	75.03	43.964		
8,100.00	6,273.31	6,414.98	6,254.44	106.48	30.75	-153.34	1,641.17	1,180.47	3,363.38	3,287.87	75.52	44.538		
8,200.00	6,345.43	6,516.78	6,356.23	108.02	31.01	-154.01	1,642.29	1,181.33	3,428.00	3,351.80	76.20	44.985		
8,300.00	6,417.56	6,599.98	6,439.39	109.57	31.22	-154.51	1,644.12	1,182.95	3,491.85	3,415.07	76.78	45.479		
8,400.00	6,489.68	6,658.00	6,497.40	111.12	31.36	-154.86	1,644.78	1,183.74	3,556.29	3,479.12	77.17	46.085		
8,500.00	6,561.81	6,716.80	6,556.19	112.66	31.52	-155.21	1,645.39	1,184.28	3,621.17	3,543.60	77.56	46.686		
8,600.00	6,633.93	6,807.21	6,646.58	114.21	31.75	-155.71	1,646.96	1,185.25	3,686.10	3,607.89	78.20	47.136		
8,700.00	6,706.06	6,909.76	6,749.11	115.76	32.00	-156.29	1,647.12	1,187.12	3,750.60	3,671.71	78.89	47.540		
8,800.00	6,778.18	6,940.00	6,779.35	117.30	32.08	-156.46	1,647.10	1,187.83	3,815.16	3,736.07	79.08	48.241		
8,900.00	6,850.31	6,982.67	6,822.01	118.85	32.19	-156.69	1,647.13	1,188.41	3,880.44	3,801.08	79.36	48.894		
9,000.00	6,922.43	7,035.00	6,874.34	120.40	32.33	-156.97	1,647.38	1,187.87	3,947.14	3,867.42	79.72	49.513		
9,100.00	6,994.56	7,035.00	6,874.34	121.95	32.33	-156.97	1,647.38	1,187.87	4,014.22	3,934.55	79.67	50.384		
9,200.00	7,066.68	7,157.12	6,996.44	123.49	32.67	-157.57	1,648.47	1,186.10	4,081.63	4,001.04	80.59	50.644		
9,300.00	7,138.81	7,243.01	7,082.32	125.04	32.91	-157.98	1,649.02	1,185.59	4,148.51	4,067.28	81.23	51.073		
9,392.50	7,205.52	7,320.58	7,159.89	126.47	33.12	-158.34	1,649.49	1,185.35	4,210.25	4,128.45	81.80	51.470		
9,400.00	7,210.94	7,328.38	7,167.69	126.59	33.14	-159.80	1,649.54	1,185.34	4,215.26	4,133.40	81.86	51.495		
9,450.00	7,247.42	7,381.06	7,220.37	127.35	33.28	-169.70	1,649.76	1,185.38	4,248.72	4,166.47	82.25	51.655		
9,500.00	7,284.35	7,426.15	7,265.46	128.10	33.40	-179.69	1,649.83	1,185.58	4,282.17	4,199.57	82.59	51.848		
9,550.00	7,321.43	7,460.63	7,299.94	128.83	33.49	170.37	1,649.86	1,185.74	4,315.45	4,232.60	82.85	52.086		
9,600.00	7,358.38	7,494.95	7,334.26	129.52	33.58	160.70	1,649.89	1,185.87	4,348.36	4,265.24	83.12	52.317		
9,650.00	7,394.93	7,530.79	7,370.10	130.16	33.68	151.49	1,649.89	1,186.00	4,380.65	4,297.25	83.39	52.530		
9,700.00	7,430.79	7,566.94	7,406.25	130.76	33.77	142.90	1,649.81	1,186.13	4,412.09	4,328.41	83.68	52.729		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,602.24	7,441.54	131.30	33.86	135.02	1,649.65	1,186.26	4,442.48	4,358.52	83.96	52.915		
9,800.00	7,499.38	7,636.91	7,476.22	131.78	33.95	127.90	1,649.46	1,186.40	4,471.63	4,387.39	84.24	53.083		
9,850.00	7,531.58	7,670.06	7,509.36	132.21	34.03	121.54	1,649.32	1,186.53	4,499.38	4,414.86	84.52	53.234		
9,900.00	7,562.06	7,701.89	7,541.20	132.57	34.12	115.93	1,649.21	1,186.66	4,525.57	4,440.76	84.81	53.362		
9,950.00	7,590.58	7,734.61	7,573.91	132.87	34.20	111.04	1,649.06	1,186.82	4,550.07	4,464.95	85.12	53.454		
10,000.00	7,616.93	7,765.08	7,604.38	133.11	34.28	106.81	1,648.85	1,187.00	4,572.75	4,487.31	85.44	53.521		
10,050.00	7,640.90	7,793.07	7,632.37	133.29	34.35	103.17	1,648.60	1,187.18	4,593.50	4,507.74	85.76	53.561		
10,100.00	7,662.32	7,811.31	7,650.61	133.42	34.39	100.00	1,648.42	1,187.30	4,612.26	4,526.21	86.05	53.603		
10,150.00	7,681.01	7,827.28	7,666.58	133.50	34.44	97.33	1,648.26	1,187.39	4,628.95	4,542.61	86.35	53.610		
10,200.00	7,696.85	7,840.83	7,680.13	133.52	34.47	95.12	1,648.14	1,187.46	4,643.51	4,556.85	86.67	53.579		
10,250.00	7,709.70	7,851.88	7,691.18	133.51	34.50	93.35	1,648.04	1,187.51	4,655.87	4,568.86	87.01	53.511		
10,300.00	7,719.47	7,860.36	7,699.66	133.46	34.52	91.99	1,647.96	1,187.55	4,665.98	4,578.60	87.37	53.402		
10,350.00	7,726.09	7,866.21	7,705.51	133.37	34.53	91.02	1,647.91	1,187.57	4,673.78	4,586.01	87.77	53.253		
10,400.00	7,729.50	7,869.40	7,708.69	133.26	34.54	90.41	1,647.88	1,187.58	4,679.24	4,591.06	88.18	53.063		
10,427.79	7,730.00	7,870.01	7,709.31	133.18	34.54	90.24	1,647.88	1,187.59	4,681.26	4,592.84	88.42	52.941		
10,500.00	7,730.00	7,870.52	7,709.82	132.98	34.55	90.24	1,647.87	1,187.59	4,686.10	4,597.03	89.07	52.610		
10,600.00	7,730.00	7,871.23	7,710.53	132.72	34.55	90.25	1,647.87	1,187.59	4,694.64	4,604.64	89.99	52.167		
10,700.00	7,730.00	7,871.94	7,711.24	132.47	34.55	90.26	1,647.86	1,187.59	4,705.28	4,614.35	90.93	51.744		
10,800.00	7,730.00	7,872.64	7,711.94	132.22	34.55	90.27	1,647.86	1,187.60	4,718.02	4,626.12	91.89	51.342		
10,900.00	7,730.00	7,873.35	7,712.64	131.99	34.55	90.28	1,647.85	1,187.60	4,732.84	4,639.97	92.87	50.963		
11,000.00	7,730.00	7,874.05	7,713.34	131.77	34.55	90.29	1,647.84	1,187.60	4,749.72	4,655.86	93.85	50.608		
11,100.00	7,730.00	7,874.74	7,714.04	131.56	34.56	90.29	1,647.84	1,187.60	4,768.63	4,673.79	94.84	50.279		
11,200.00	7,730.00	7,875.44	7,714.74	131.36	34.56	90.30	1,647.83	1,187.61	4,789.56	4,693.72	95.84	49.976		
11,300.00	7,730.00	7,876.14	7,715.43	131.17	34.56	90.31	1,647.83	1,187.61	4,812.48	4,715.65	96.83	49.700		
11,400.00	7,730.00	7,876.83	7,716.13	130.99	34.56	90.32	1,647.82	1,187.61	4,837.35	4,739.53	97.82	49.450		
11,500.00	7,730.00	7,877.52	7,716.82	130.82	34.56	90.33	1,647.81	1,187.61	4,864.15	4,765.35	98.81	49.228		
11,600.00	7,730.00	7,878.21	7,717.50	130.66	34.57	90.34	1,647.81	1,187.61	4,892.86	4,793.07	99.79	49.033		
11,700.00	7,730.00	7,878.89	7,718.19	130.51	34.57	90.35	1,647.80	1,187.62	4,923.42	4,822.66	100.76	48.865		
11,800.00	7,730.00	7,879.58	7,718.87	130.37	34.57	90.35	1,647.80	1,187.62	4,955.82	4,854.10	101.71	48.723		
11,900.00	7,730.00	7,880.26	7,719.56	130.24	34.57	90.36	1,647.79	1,187.62	4,990.00	4,887.35	102.66	48.608		
12,000.00	7,730.00	7,880.94	7,720.24	130.13	34.57	90.37	1,647.78	1,187.62	5,025.95	4,922.36	103.59	48.519		
12,100.00	7,730.00	7,881.62	7,720.91	130.02	34.57	90.38	1,647.78	1,187.63	5,063.62	4,959.12	104.50	48.455		
12,200.00	7,730.00	7,882.29	7,721.59	129.93	34.58	90.39	1,647.77	1,187.63	5,102.96	4,997.57	105.40	48.417		
12,300.00	7,730.00	7,882.97	7,722.27	129.85	34.58	90.40	1,647.77	1,187.63	5,143.95	5,037.68	106.27	48.402		
12,400.00	7,730.00	7,883.64	7,722.94	129.77	34.58	90.40	1,647.76	1,187.63	5,186.55	5,079.42	107.13	48.412		
12,500.00	7,730.00	7,884.31	7,723.61	129.71	34.58	90.41	1,647.76	1,187.63	5,230.71	5,122.74	107.97	48.444		
12,600.00	7,730.00	7,884.98	7,724.28	129.66	34.58	90.42	1,647.75	1,187.64	5,276.40	5,167.60	108.79	48.499		
12,700.00	7,730.00	7,885.65	7,724.94	129.63	34.58	90.43	1,647.75	1,187.64	5,323.57	5,213.98	109.59	48.576		
12,800.00	7,730.00	7,886.31	7,725.61	129.60	34.59	90.44	1,647.74	1,187.64	5,372.19	5,261.82	110.37	48.674		
12,900.00	7,730.00	7,889.00	7,728.30	129.59	34.59	90.47	1,647.72	1,187.65	5,422.22	5,311.08	111.14	48.788		
13,000.00	7,730.00	7,889.00	7,728.30	129.59	34.59	90.47	1,647.72	1,187.65	5,473.61	5,361.74	111.87	48.927		
13,100.00	7,730.00	7,889.00	7,728.30	129.60	34.59	90.47	1,647.72	1,187.65	5,526.34	5,413.76	112.58	49.086		
13,200.00	7,730.00	7,889.00	7,728.30	129.63	34.59	90.47	1,647.72	1,187.65	5,580.37	5,467.09	113.28	49.263		
13,300.00	7,730.00	7,889.79	7,729.08	129.66	34.59	90.48	1,647.71	1,187.65	5,635.65	5,521.69	113.95	49.457		
13,400.00	7,730.00	7,890.64	7,729.94	129.72	34.60	90.49	1,647.70	1,187.65	5,692.15	5,577.54	114.61	49.667		
13,500.00	7,730.00	7,891.50	7,730.80	129.78	34.60	90.50	1,647.70	1,187.65	5,749.83	5,634.59	115.24	49.894		
13,600.00	7,730.00	7,892.36	7,731.66	129.86	34.60	90.51	1,647.69	1,187.66	5,808.66	5,692.80	115.86	50.137		
13,700.00	7,730.00	7,893.23	7,732.53	129.96	34.60	90.52	1,647.68	1,187.66	5,868.61	5,752.16	116.45	50.395		
13,800.00	7,730.00	7,894.10	7,733.40	130.07	34.61	90.53	1,647.67	1,187.66	5,929.63	5,812.61	117.03	50.668		
13,900.00	7,730.00	7,894.97	7,734.27	130.19	34.61	90.54	1,647.67	1,187.66	5,991.71	5,874.12	117.59	50.956		
14,000.00	7,730.00	7,895.85	7,735.15	130.33	34.61	90.55	1,647.66	1,187.67	6,054.80	5,936.67	118.13	51.257		
14,100.00	7,730.00	7,896.73	7,736.03	130.49	34.61	90.56	1,647.65	1,187.67	6,118.87	6,000.22	118.65	51.572		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,897.62	7,736.92	130.67	34.61	90.58	1,647.65	1,187.67	6,183.90	6,064.75	119.15	51.899		
14,300.00	7,730.00	7,898.51	7,737.81	130.86	34.62	90.59	1,647.64	1,187.67	6,249.85	6,130.21	119.64	52.239		
14,400.00	7,730.00	7,899.40	7,738.70	131.07	34.62	90.60	1,647.63	1,187.68	6,316.69	6,196.58	120.11	52.590		
14,500.00	7,730.00	7,900.30	7,739.60	131.30	34.62	90.61	1,647.62	1,187.68	6,384.40	6,263.84	120.57	52.953		
14,600.00	7,730.00	7,901.20	7,740.50	131.55	34.62	90.62	1,647.61	1,187.68	6,452.95	6,331.95	121.01	53.327		
14,700.00	7,730.00	7,902.11	7,741.40	131.82	34.63	90.63	1,647.61	1,187.68	6,522.32	6,400.88	121.43	53.712		
14,800.00	7,730.00	7,903.02	7,742.31	132.11	34.63	90.64	1,647.60	1,187.68	6,592.47	6,470.62	121.84	54.107		
14,900.00	7,730.00	7,903.93	7,743.23	132.42	34.63	90.65	1,647.59	1,187.69	6,663.38	6,541.14	122.24	54.511		
15,000.00	7,730.00	7,904.85	7,744.14	132.75	34.63	90.66	1,647.58	1,187.69	6,735.03	6,612.41	122.62	54.925		
15,100.00	7,730.00	7,905.77	7,745.07	133.10	34.64	90.68	1,647.58	1,187.69	6,807.39	6,684.40	122.99	55.349		
15,200.00	7,730.00	7,906.70	7,745.99	133.48	34.64	90.69	1,647.57	1,187.69	6,880.45	6,757.10	123.35	55.781		
15,300.00	7,730.00	7,907.63	7,746.92	133.88	34.64	90.70	1,647.56	1,187.70	6,954.18	6,830.48	123.69	56.221		
15,400.00	7,730.00	7,908.56	7,747.86	134.31	34.64	90.71	1,647.55	1,187.70	7,028.55	6,904.53	124.03	56.670		
15,500.00	7,730.00	7,909.50	7,748.80	134.76	34.65	90.72	1,647.54	1,187.70	7,103.56	6,979.21	124.35	57.126		
15,600.00	7,730.00	7,910.44	7,749.74	135.23	34.65	90.73	1,647.53	1,187.70	7,179.17	7,054.51	124.66	57.591		
15,700.00	7,730.00	7,911.39	7,750.69	135.73	34.65	90.74	1,647.53	1,187.71	7,255.38	7,130.42	124.96	58.062		
15,800.00	7,730.00	7,912.34	7,751.64	136.26	34.65	90.76	1,647.52	1,187.71	7,332.15	7,206.90	125.25	58.540		
15,900.00	7,730.00	7,913.30	7,752.60	136.81	34.65	90.77	1,647.51	1,187.71	7,409.48	7,283.95	125.53	59.026		
16,000.00	7,730.00	7,914.26	7,753.56	137.39	34.66	90.78	1,647.50	1,187.71	7,487.35	7,361.55	125.80	59.518		
16,100.00	7,730.00	7,915.23	7,754.52	138.00	34.66	90.79	1,647.49	1,187.72	7,565.74	7,439.68	126.06	60.016		
16,200.00	7,730.00	7,916.20	7,755.49	138.63	34.66	90.80	1,647.48	1,187.72	7,644.63	7,518.31	126.32	60.520		
16,300.00	7,730.00	7,917.17	7,756.47	139.30	34.66	90.81	1,647.48	1,187.72	7,724.01	7,597.45	126.56	61.030		
16,400.00	7,730.00	7,918.15	7,757.44	139.99	34.67	90.83	1,647.47	1,187.72	7,803.87	7,677.07	126.80	61.546		
16,500.00	7,730.00	7,919.13	7,758.43	140.70	34.67	90.84	1,647.46	1,187.73	7,884.18	7,757.15	127.03	62.068		
16,600.00	7,730.00	7,920.12	7,759.42	141.45	34.67	90.85	1,647.45	1,187.73	7,964.94	7,837.69	127.25	62.594		
16,700.00	7,730.00	7,921.11	7,760.41	142.22	34.68	90.86	1,647.44	1,187.73	8,046.13	7,918.67	127.46	63.126		
16,800.00	7,730.00	7,922.11	7,761.41	143.03	34.68	90.88	1,647.43	1,187.73	8,127.74	8,000.07	127.67	63.663		
16,900.00	7,730.00	7,923.11	7,762.41	143.86	34.68	90.89	1,647.42	1,187.74	8,209.76	8,081.89	127.87	64.204		
17,000.00	7,730.00	7,924.12	7,763.41	144.71	34.68	90.90	1,647.41	1,187.74	8,292.17	8,164.11	128.06	64.750		
17,100.00	7,730.00	7,925.13	7,764.42	145.60	34.69	90.91	1,647.40	1,187.74	8,374.97	8,246.71	128.25	65.301		
17,200.00	7,730.00	7,926.15	7,765.44	146.51	34.69	90.92	1,647.40	1,187.74	8,458.13	8,329.70	128.43	65.856		
17,300.00	7,730.00	7,927.17	7,766.46	147.44	34.69	90.94	1,647.39	1,187.75	8,541.66	8,413.05	128.61	66.415		
17,400.00	7,730.00	7,928.19	7,767.49	148.40	34.69	90.95	1,647.38	1,187.75	8,625.54	8,496.76	128.78	66.978		
17,500.00	7,730.00	7,929.22	7,768.52	149.39	34.70	90.96	1,647.37	1,187.75	8,709.76	8,580.81	128.95	67.545		
17,600.00	7,730.00	7,930.26	7,769.55	150.40	34.70	90.98	1,647.36	1,187.75	8,794.31	8,665.20	129.11	68.115		
17,700.00	7,730.00	7,931.30	7,770.60	151.44	34.70	90.99	1,647.35	1,187.76	8,879.18	8,749.91	129.27	68.690		
17,800.00	7,730.00	7,932.35	7,771.64	152.50	34.70	91.00	1,647.34	1,187.76	8,964.36	8,834.94	129.42	69.267		
17,900.00	7,730.00	7,933.40	7,772.69	153.58	34.71	91.01	1,647.33	1,187.76	9,049.84	8,920.28	129.56	69.848		
18,000.00	7,730.00	7,934.45	7,773.75	154.68	34.71	91.03	1,647.32	1,187.76	9,135.62	9,005.91	129.71	70.433		
18,100.00	7,730.00	7,935.51	7,774.81	155.80	34.71	91.04	1,647.31	1,187.77	9,221.69	9,091.84	129.85	71.020		
18,200.00	7,730.00	7,936.58	7,775.87	156.95	34.71	91.05	1,647.30	1,187.77	9,308.03	9,178.05	129.98	71.611		
18,300.00	7,730.00	7,937.65	7,776.95	158.11	34.72	91.07	1,647.29	1,187.77	9,394.65	9,264.54	130.11	72.205		
18,400.00	7,730.00	7,938.73	7,778.02	159.30	34.72	91.08	1,647.28	1,187.77	9,481.53	9,351.29	130.24	72.801		
18,500.00	7,730.00	7,939.81	7,779.10	160.50	34.72	91.09	1,647.27	1,187.78	9,568.66	9,438.30	130.36	73.400		
18,600.00	7,730.00	7,940.90	7,780.19	161.72	34.73	91.11	1,647.26	1,187.78	9,656.04	9,525.56	130.48	74.002		
18,700.00	7,730.00	7,941.99	7,781.28	162.96	34.73	91.12	1,647.25	1,187.78	9,743.67	9,613.07	130.60	74.607		
18,800.00	7,730.00	7,943.09	7,782.38	164.21	34.73	91.13	1,647.24	1,187.78	9,831.53	9,700.82	130.71	75.214		
18,900.00	7,730.00	7,944.19	7,783.49	165.48	34.73	91.15	1,647.23	1,187.79	9,919.62	9,788.80	130.83	75.823		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY		Offset Site Error: 0.00 usft	
Survey Program: 120-MWD OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	134.85	-2,061.42	2,072.47	2,923.39							
100.00	100.00	75.33	75.33	0.13	0.12	134.85	-2,061.32	2,072.29	2,922.96	2,922.70	0.26	N/A				
200.00	199.98	196.47	196.46	0.49	0.47	64.46	-2,060.50	2,071.56	2,921.29	2,920.33	0.96	3,048.514				
300.00	299.84	868.03	860.76	0.86	3.19	64.29	-1,975.28	2,059.68	2,913.30	2,909.31	3.99	730.985				
400.00	399.45	1,201.96	1,178.43	1.23	5.09	64.12	-1,874.57	2,041.79	2,883.26	2,877.37	5.89	489.547				
500.00	498.70	1,356.77	1,322.62	1.63	6.11	64.42	-1,819.06	2,032.30	2,848.42	2,841.40	7.02	405.934				
600.00	597.47	1,498.06	1,453.28	2.05	7.08	64.88	-1,766.02	2,023.32	2,811.13	2,803.01	8.12	346.179				
700.00	695.62	1,621.76	1,566.62	2.51	7.98	65.51	-1,717.26	2,014.58	2,770.49	2,761.31	9.18	301.908				
800.00	793.06	1,714.19	1,651.01	3.00	8.66	66.27	-1,680.07	2,008.36	2,728.24	2,718.13	10.11	269.965				
900.00	889.64	1,802.04	1,731.22	3.53	9.31	67.16	-1,644.79	2,002.09	2,684.50	2,673.46	11.04	243.058				
1,000.00	985.27	1,863.41	1,787.44	4.12	9.76	68.13	-1,620.54	1,997.93	2,640.23	2,628.35	11.88	222.166				
1,100.00	1,079.82	1,965.20	1,880.83	4.75	10.51	69.26	-1,580.60	1,991.26	2,595.17	2,582.20	12.97	200.155				
1,200.00	1,173.17	2,028.70	1,939.20	5.44	10.97	70.42	-1,555.99	1,986.88	2,549.12	2,535.23	13.90	183.438				
1,300.00	1,265.21	2,111.31	2,015.54	6.18	11.57	71.77	-1,524.98	1,981.04	2,502.81	2,487.85	14.96	167.306				
1,400.00	1,355.84	2,219.94	2,115.69	6.99	12.36	73.39	-1,483.63	1,973.14	2,455.17	2,438.99	16.18	151.712				
1,500.00	1,444.94	2,324.36	2,211.51	7.87	13.14	75.17	-1,442.88	1,965.29	2,406.02	2,388.59	17.43	138.011				
1,600.00	1,532.39	2,400.38	2,281.23	8.80	13.70	76.89	-1,413.20	1,959.21	2,356.03	2,337.42	18.61	126.575				
1,700.00	1,618.11	2,465.02	2,340.69	9.81	14.18	78.63	-1,388.37	1,954.10	2,306.14	2,286.33	19.80	116.443				
1,800.00	1,701.97	2,523.78	2,395.00	10.89	14.61	80.40	-1,366.41	1,949.50	2,256.79	2,235.75	21.04	107.279				
1,900.00	1,783.88	2,641.75	2,503.53	12.04	15.48	82.98	-1,320.97	1,941.09	2,207.08	2,184.55	22.53	97.966				
2,000.00	1,863.74	2,706.14	2,562.45	13.26	15.96	85.00	-1,295.31	1,937.07	2,157.26	2,133.34	23.92	90.189				
2,100.00	1,941.45	2,781.77	2,631.80	14.55	16.53	87.27	-1,265.54	1,932.29	2,108.23	2,082.83	25.40	82.994				
2,200.00	2,016.92	2,865.50	2,708.76	15.92	17.15	89.82	-1,233.18	1,925.88	2,059.87	2,032.91	26.95	76.420				
2,292.11	2,084.36	2,949.81	2,786.23	17.25	17.78	92.45	-1,200.84	1,918.10	2,015.93	1,987.49	28.44	70.890				
2,300.00	2,090.06	2,957.56	2,793.33	17.36	17.84	92.61	-1,197.81	1,917.40	2,012.19	1,983.62	28.57	70.438				
2,400.00	2,162.18	3,043.74	2,871.95	18.84	18.50	94.35	-1,163.33	1,909.81	1,965.17	1,934.97	30.20	65.075				
2,500.00	2,234.31	3,131.31	2,951.56	20.33	19.18	96.17	-1,127.65	1,902.22	1,919.33	1,887.50	31.84	60.286				
2,600.00	2,306.43	3,216.28	3,028.31	21.83	19.85	97.99	-1,092.08	1,894.28	1,874.06	1,840.59	33.47	55.989				
2,700.00	2,378.56	3,266.25	3,073.55	23.33	20.25	99.10	-1,071.36	1,889.64	1,830.92	1,795.79	35.13	52.121				
2,800.00	2,450.68	3,324.61	3,126.60	24.84	20.70	100.42	-1,047.59	1,884.48	1,790.30	1,753.50	36.80	48.652				
2,900.00	2,522.81	3,388.42	3,184.65	26.36	21.20	101.89	-1,021.64	1,879.22	1,751.95	1,713.48	38.47	45.538				
3,000.00	2,594.93	3,445.91	3,237.06	27.88	21.64	103.23	-998.42	1,874.82	1,716.11	1,675.95	40.17	42.727				
3,100.00	2,667.06	3,508.39	3,294.17	29.40	22.12	104.72	-973.50	1,870.27	1,683.00	1,641.15	41.85	40.213				
3,200.00	2,739.18	3,579.78	3,359.54	30.92	22.66	106.47	-945.38	1,864.57	1,652.47	1,608.96	43.51	37.977				
3,300.00	2,811.31	3,685.39	3,455.51	32.45	23.48	109.10	-902.08	1,856.35	1,623.24	1,578.20	45.05	36.033				
3,400.00	2,883.43	3,741.88	3,506.76	33.98	23.93	110.52	-878.66	1,852.30	1,596.58	1,549.85	46.73	34.164				
3,500.00	2,955.56	3,800.22	3,559.89	35.51	24.38	112.02	-854.89	1,848.25	1,573.26	1,524.86	48.40	32.506				
3,600.00	3,027.68	3,858.72	3,613.33	37.04	24.83	113.54	-831.50	1,843.99	1,553.36	1,503.31	50.05	31.037				
3,700.00	3,099.81	3,914.54	3,664.53	38.57	25.24	115.01	-809.64	1,839.83	1,537.10	1,485.42	51.68	29.741				
3,800.00	3,171.93	3,984.21	3,728.64	40.11	25.77	116.86	-782.86	1,834.70	1,524.53	1,471.31	53.23	28.642				
3,900.00	3,244.06	4,067.14	3,804.72	41.64	26.39	119.06	-750.31	1,829.27	1,514.58	1,459.91	54.67	27.704				
4,000.00	3,316.18	4,135.42	3,867.33	43.18	26.90	120.89	-723.41	1,824.80	1,507.76	1,451.63	56.14	26.859				
4,100.00	3,388.31	4,204.45	3,930.62	44.71	27.42	122.74	-696.32	1,819.99	1,504.33	1,446.78	57.55	26.140				
4,150.14	3,424.47	4,238.82	3,962.14	45.49	27.68	123.67	-682.84	1,817.47	1,503.89	1,445.66	58.24	25.824 CC				
4,200.00	3,460.43	4,263.24	3,984.59	46.25	27.86	124.33	-673.38	1,815.69	1,504.45	1,445.50	58.95	25.520 ES				
4,300.00	3,532.56	4,316.19	4,033.44	47.79	28.25	125.76	-653.30	1,811.94	1,508.69	1,448.37	60.32	25.013				
4,400.00	3,604.68	4,385.22	4,097.35	49.33	28.75	127.60	-627.63	1,807.25	1,516.73	1,455.20	61.53	24.651				
4,500.00	3,676.81	4,454.56	4,161.55	50.87	29.25	129.44	-601.84	1,802.65	1,527.95	1,465.28	62.67	24.382				
4,600.00	3,748.93	4,521.12	4,223.17	52.41	29.74	131.19	-577.17	1,797.80	1,542.52	1,478.78	63.74	24.201				
4,700.00	3,821.06	4,599.75	4,295.92	53.95	30.31	133.25	-547.89	1,792.05	1,560.06	1,495.37	64.68	24.118				
4,800.00	3,893.18	4,677.46	4,367.70	55.49	30.88	135.25	-518.64	1,786.54	1,580.23	1,514.67	65.56	24.103 SF				
4,900.00	3,965.31	4,755.30	4,439.49	57.03	31.45	137.23	-489.04	1,781.12	1,602.97	1,536.61	66.37	24.154				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,820.17	4,499.39	58.58	31.92	138.83	-464.43	1,777.24	1,628.24	1,561.09	67.15	24.247		
5,100.00	4,109.56	4,867.67	4,543.43	60.12	32.26	139.99	-446.90	1,774.17	1,656.91	1,589.00	67.91	24.399		
5,200.00	4,181.68	4,912.50	4,585.18	61.66	32.58	141.07	-430.89	1,770.96	1,689.06	1,620.47	68.58	24.628		
5,300.00	4,253.81	4,955.09	4,625.12	63.20	32.86	142.07	-416.44	1,767.87	1,724.64	1,655.46	69.17	24.932		
5,400.00	4,325.93	5,001.86	4,669.30	64.75	33.17	143.13	-401.47	1,764.53	1,763.44	1,693.75	69.69	25.305		
5,500.00	4,398.06	5,061.40	4,725.86	66.29	33.55	144.44	-383.25	1,760.61	1,804.80	1,734.65	70.15	25.729		
5,600.00	4,470.18	5,117.45	4,779.36	67.84	33.89	145.62	-366.87	1,757.33	1,848.37	1,777.81	70.56	26.195		
5,700.00	4,542.31	5,175.00	4,834.57	69.38	34.23	146.78	-350.93	1,754.23	1,894.16	1,823.21	70.95	26.697		
5,800.00	4,614.43	5,228.25	4,885.88	70.92	34.52	147.80	-336.94	1,751.56	1,941.96	1,870.66	71.29	27.239		
5,900.00	4,686.56	5,284.50	4,940.29	72.47	34.83	148.84	-322.92	1,748.95	1,991.57	1,919.95	71.62	27.806		
6,000.00	4,758.68	5,339.76	4,994.02	74.01	35.11	149.80	-310.19	1,746.83	2,042.90	1,970.97	71.93	28.400		
6,100.00	4,830.81	5,392.21	5,045.28	75.56	35.36	150.66	-299.19	1,745.30	2,095.84	2,023.62	72.22	29.020		
6,200.00	4,902.93	5,442.30	5,094.47	77.10	35.59	151.43	-289.78	1,744.16	2,150.40	2,077.91	72.49	29.666		
6,300.00	4,975.06	5,489.02	5,140.52	78.65	35.78	152.10	-282.01	1,743.33	2,206.50	2,133.77	72.72	30.341		
6,400.00	5,047.18	5,533.77	5,184.78	80.19	35.95	152.71	-275.47	1,742.58	2,264.15	2,191.21	72.94	31.041		
6,500.00	5,119.31	5,584.62	5,235.22	81.74	36.14	153.36	-269.02	1,741.78	2,323.21	2,250.03	73.18	31.744		
6,600.00	5,191.43	5,640.18	5,290.42	83.28	36.33	154.03	-262.76	1,741.01	2,383.33	2,309.87	73.46	32.443		
6,700.00	5,263.56	5,689.89	5,339.88	84.83	36.48	154.60	-257.86	1,740.37	2,444.46	2,370.77	73.69	33.171		
6,800.00	5,335.68	5,742.00	5,391.80	86.37	36.65	155.16	-253.46	1,739.61	2,506.68	2,432.73	73.95	33.898		
6,900.00	5,407.81	5,781.36	5,431.06	87.92	36.75	155.56	-250.79	1,739.01	2,569.98	2,495.88	74.10	34.685		
7,000.00	5,479.93	5,836.00	5,485.64	89.47	36.89	156.07	-248.26	1,738.21	2,634.44	2,560.06	74.37	35.421		
7,100.00	5,552.06	5,874.39	5,524.00	91.01	36.98	156.41	-247.09	1,737.64	2,699.76	2,625.25	74.52	36.231		
7,200.00	5,624.18	5,931.00	5,580.59	92.56	37.10	156.89	-245.80	1,736.75	2,765.81	2,691.00	74.81	36.970		
7,300.00	5,696.31	5,997.32	5,646.90	94.10	37.24	157.41	-244.92	1,735.86	2,832.30	2,757.11	75.19	37.667		
7,400.00	5,768.43	6,067.00	5,716.58	95.65	37.37	157.92	-244.55	1,735.27	2,899.00	2,823.39	75.62	38.339		
7,500.00	5,840.56	6,141.56	5,791.13	97.20	37.52	158.44	-244.09	1,734.55	2,965.88	2,889.79	76.08	38.983		
7,600.00	5,912.68	6,231.32	5,880.89	98.74	37.70	159.05	-243.23	1,733.92	3,032.59	2,955.90	76.69	39.546		
7,700.00	5,984.81	6,309.50	5,959.06	100.29	37.87	159.55	-242.19	1,733.51	3,099.16	3,021.96	77.20	40.145		
7,800.00	6,056.93	6,380.81	6,030.36	101.84	38.02	159.99	-241.21	1,733.22	3,165.77	3,088.11	77.66	40.764		
7,900.00	6,129.06	6,460.40	6,109.94	103.38	38.19	160.47	-240.19	1,733.01	3,232.44	3,154.24	78.20	41.336		
8,000.00	6,201.18	6,531.46	6,181.00	104.93	38.34	160.87	-239.12	1,732.90	3,299.05	3,220.38	78.67	41.936		
8,100.00	6,273.31	6,591.86	6,241.39	106.48	38.47	161.20	-238.29	1,732.66	3,365.97	3,286.91	79.05	42.578		
8,200.00	6,345.43	6,674.34	6,323.86	108.02	38.65	161.64	-237.32	1,732.40	3,432.99	3,353.36	79.63	43.111		
8,300.00	6,417.56	6,748.31	6,397.83	109.57	38.81	162.01	-236.51	1,732.39	3,499.96	3,419.81	80.14	43.671		
8,400.00	6,489.68	6,821.27	6,470.78	111.12	38.97	162.36	-235.63	1,732.33	3,567.00	3,486.34	80.65	44.227		
8,500.00	6,561.81	6,894.44	6,543.95	112.66	39.14	162.71	-234.74	1,732.28	3,634.09	3,552.92	81.17	44.773		
8,600.00	6,633.93	6,966.65	6,616.15	114.21	39.30	163.03	-233.86	1,732.25	3,701.25	3,619.57	81.68	45.316		
8,700.00	6,706.06	7,038.78	6,688.28	115.76	39.45	163.34	-233.12	1,732.29	3,768.48	3,686.29	82.19	45.850		
8,800.00	6,778.18	7,130.96	6,780.45	117.30	39.66	163.72	-232.42	1,732.69	3,835.66	3,752.77	82.88	46.278		
8,900.00	6,850.31	7,223.73	6,873.22	118.85	39.86	164.08	-231.49	1,733.64	3,902.42	3,818.84	83.58	46.690		
9,000.00	6,922.43	7,327.31	6,976.78	120.40	40.09	164.46	-230.60	1,735.46	3,968.84	3,884.46	84.37	47.038		
9,100.00	6,994.56	7,414.98	7,064.42	121.95	40.28	164.75	-229.93	1,737.72	4,034.81	3,949.77	85.04	47.447		
9,200.00	7,066.68	7,481.42	7,130.82	123.49	40.42	164.96	-229.60	1,739.61	4,100.76	4,015.24	85.53	47.947		
9,300.00	7,138.81	7,539.81	7,189.19	125.04	40.54	165.14	-229.56	1,741.19	4,167.01	4,081.06	85.95	48.481		
9,392.50	7,205.52	7,594.43	7,243.79	126.47	40.66	165.30	-229.77	1,742.59	4,228.55	4,142.20	86.35	48.969		
9,400.00	7,210.94	7,598.85	7,248.22	126.59	40.66	163.98	-229.80	1,742.70	4,233.54	4,147.15	86.38	49.009		
9,450.00	7,247.42	7,628.63	7,277.98	127.35	40.73	155.25	-230.03	1,743.43	4,265.83	4,179.23	86.60	49.261		
9,500.00	7,284.35	7,655.23	7,304.58	128.10	40.78	146.77	-230.32	1,744.07	4,296.37	4,209.60	86.77	49.514		
9,550.00	7,321.43	7,681.63	7,330.97	128.83	40.83	138.65	-230.71	1,744.69	4,324.97	4,238.04	86.93	49.750		
9,600.00	7,358.38	7,707.97	7,357.29	129.52	40.88	130.98	-231.20	1,745.28	4,351.47	4,264.38	87.09	49.968		
9,650.00	7,394.93	7,741.39	7,390.70	130.16	40.95	123.92	-231.95	1,746.01	4,375.68	4,288.39	87.29	50.130		
9,700.00	7,430.79	7,787.99	7,437.27	130.76	41.04	117.61	-233.05	1,747.12	4,397.34	4,309.76	87.59	50.205		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,833.72	7,482.97	131.30	41.12	111.99	-234.16	1,748.35	4,416.32	4,328.45	87.87	50.262		
9,800.00	7,499.38	7,844.02	7,493.26	131.78	41.14	106.74	-234.45	1,748.58	4,432.70	4,344.88	87.82	50.475		
9,850.00	7,531.58	7,861.58	7,510.81	132.21	41.17	102.24	-234.95	1,748.96	4,446.43	4,358.62	87.82	50.633		
9,900.00	7,562.06	7,878.26	7,527.48	132.57	41.21	98.38	-235.46	1,749.28	4,457.47	4,369.68	87.79	50.775		
9,950.00	7,590.58	7,893.95	7,543.16	132.87	41.24	95.15	-235.98	1,749.54	4,465.76	4,378.03	87.73	50.902		
10,000.00	7,616.93	7,914.00	7,563.20	133.11	41.27	92.54	-236.68	1,749.82	4,471.28	4,383.58	87.70	50.984		
10,050.00	7,640.90	7,914.00	7,563.20	133.29	41.27	90.27	-236.68	1,749.82	4,474.03	4,386.56	87.47	51.149		
10,100.00	7,662.32	7,934.85	7,584.03	133.42	41.31	88.75	-237.46	1,750.03	4,473.97	4,386.55	87.42	51.176		
10,150.00	7,681.01	7,945.99	7,595.16	133.50	41.33	87.61	-237.89	1,750.11	4,471.18	4,383.90	87.28	51.229		
10,200.00	7,696.85	7,955.61	7,604.77	133.52	41.35	86.91	-238.26	1,750.16	4,465.66	4,378.54	87.12	51.260		
10,250.00	7,709.70	7,963.64	7,612.80	133.51	41.36	86.65	-238.58	1,750.20	4,457.48	4,370.53	86.95	51.266		
10,300.00	7,719.47	7,970.04	7,619.19	133.46	41.38	86.82	-238.84	1,750.22	4,446.69	4,359.92	86.77	51.246		
10,350.00	7,726.09	7,974.75	7,623.90	133.37	41.38	87.40	-239.03	1,750.23	4,433.37	4,346.77	86.60	51.196		
10,400.00	7,729.50	7,977.73	7,626.88	133.26	41.39	88.39	-239.16	1,750.23	4,417.61	4,331.18	86.43	51.114		
10,427.79	7,730.00	7,978.63	7,627.78	133.18	41.39	89.13	-239.19	1,750.23	4,407.83	4,321.49	86.34	51.054		
10,500.00	7,730.00	7,980.26	7,629.41	132.98	41.39	89.15	-239.26	1,750.23	4,382.02	4,295.89	86.13	50.879		
10,600.00	7,730.00	7,982.54	7,631.68	132.72	41.40	89.19	-239.35	1,750.23	4,348.00	4,262.10	85.90	50.619		
10,700.00	7,730.00	7,984.84	7,633.98	132.47	41.40	89.22	-239.45	1,750.23	4,316.02	4,230.28	85.74	50.337		
10,800.00	7,730.00	7,987.15	7,636.29	132.22	41.41	89.25	-239.55	1,750.23	4,286.14	4,200.47	85.67	50.030		
10,900.00	7,730.00	7,989.49	7,638.62	131.99	41.41	89.28	-239.64	1,750.23	4,258.40	4,172.71	85.69	49.698		
11,000.00	7,730.00	7,991.84	7,640.98	131.77	41.42	89.32	-239.74	1,750.23	4,232.83	4,147.04	85.79	49.339		
11,100.00	7,730.00	8,009.00	7,658.12	131.56	41.45	89.55	-240.48	1,750.18	4,209.53	4,123.38	86.15	48.864		
11,200.00	7,730.00	8,009.00	7,658.12	131.36	41.45	89.55	-240.48	1,750.18	4,188.43	4,102.01	86.41	48.470		
11,300.00	7,730.00	8,009.00	7,658.12	131.17	41.45	89.55	-240.48	1,750.18	4,169.61	4,082.84	86.77	48.053		
11,400.00	7,730.00	8,009.00	7,658.12	130.99	41.45	89.55	-240.48	1,750.18	4,153.13	4,065.90	87.22	47.616		
11,500.00	7,730.00	8,009.00	7,658.12	130.82	41.45	89.55	-240.48	1,750.18	4,138.99	4,051.23	87.76	47.162		
11,600.00	7,730.00	8,009.00	7,658.12	130.66	41.45	89.55	-240.48	1,750.18	4,127.22	4,038.84	88.39	46.695		
11,700.00	7,730.00	8,009.00	7,658.12	130.51	41.45	89.55	-240.48	1,750.18	4,117.86	4,028.76	89.09	46.220		
11,800.00	7,730.00	8,009.00	7,658.12	130.37	41.45	89.55	-240.48	1,750.18	4,110.90	4,021.03	89.87	45.741		
11,900.00	7,730.00	8,009.00	7,658.12	130.24	41.45	89.55	-240.48	1,750.18	4,106.37	4,015.64	90.72	45.262		
12,000.00	7,730.00	8,009.00	7,658.12	130.13	41.45	89.55	-240.48	1,750.18	4,104.27	4,012.63	91.64	44.788		
12,036.19	7,730.00	8,009.00	7,658.12	130.09	41.45	89.55	-240.48	1,750.18	4,104.11	4,012.12	91.99	44.616		
12,100.00	7,730.00	8,009.00	7,658.12	130.02	41.45	89.55	-240.48	1,750.18	4,104.61	4,012.00	92.60	44.324		
12,200.00	7,730.00	8,009.00	7,658.12	129.93	41.45	89.55	-240.48	1,750.18	4,107.38	4,013.76	93.62	43.873		
12,300.00	7,730.00	8,009.00	7,658.12	129.85	41.45	89.55	-240.48	1,750.18	4,112.58	4,017.90	94.68	43.439		
12,400.00	7,730.00	8,009.00	7,658.12	129.77	41.45	89.55	-240.48	1,750.18	4,120.20	4,024.44	95.76	43.025		
12,500.00	7,730.00	8,027.25	7,676.35	129.71	41.48	89.81	-241.29	1,750.06	4,130.16	4,033.12	97.04	42.561		
12,600.00	7,730.00	8,029.68	7,678.78	129.66	41.48	89.84	-241.40	1,750.03	4,142.56	4,044.37	98.19	42.189		
12,700.00	7,730.00	8,032.15	7,681.25	129.63	41.49	89.88	-241.51	1,750.01	4,157.33	4,057.98	99.35	41.846		
12,800.00	7,730.00	8,034.65	7,683.74	129.60	41.49	89.91	-241.63	1,749.99	4,174.43	4,073.92	100.51	41.531		
12,900.00	7,730.00	8,037.18	7,686.27	129.59	41.50	89.95	-241.75	1,749.96	4,193.86	4,092.18	101.68	41.246		
13,000.00	7,730.00	8,039.75	7,688.84	129.59	41.50	89.98	-241.87	1,749.93	4,215.56	4,112.72	102.84	40.993		
13,100.00	7,730.00	8,042.36	7,691.44	129.60	41.51	90.02	-241.99	1,749.90	4,239.50	4,135.52	103.99	40.770		
13,200.00	7,730.00	8,045.00	7,694.08	129.63	41.51	90.06	-242.12	1,749.87	4,265.66	4,160.54	105.12	40.579		
13,300.00	7,730.00	8,047.68	7,696.75	129.66	41.52	90.09	-242.25	1,749.83	4,293.98	4,187.74	106.24	40.419		
13,400.00	7,730.00	8,341.51	7,989.39	129.72	41.97	94.18	-266.47	1,753.21	4,323.95	4,214.82	109.12	39.625		
13,500.00	7,730.00	8,345.02	7,992.88	129.78	41.97	94.22	-266.77	1,753.36	4,355.92	4,245.78	110.14	39.548		
13,600.00	7,730.00	8,348.38	7,996.23	129.86	41.98	94.27	-267.06	1,753.51	4,389.93	4,278.79	111.14	39.499		
13,700.00	7,730.00	8,351.60	7,999.43	129.96	41.98	94.32	-267.33	1,753.64	4,425.94	4,313.83	112.11	39.479		
13,800.00	7,730.00	8,354.68	8,002.50	130.07	41.99	94.36	-267.58	1,753.77	4,463.89	4,350.84	113.05	39.486		
13,900.00	7,730.00	8,357.64	8,005.45	130.19	41.99	94.40	-267.82	1,753.89	4,503.73	4,389.77	113.96	39.519		
14,000.00	7,730.00	8,386.00	8,033.72	130.33	42.03	94.79	-269.85	1,754.98	4,545.63	4,430.65	114.97	39.537		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	8,386.00	8,033.72	130.49	42.03	94.79	-269.85	1,754.98	4,589.07	4,473.27	115.81	39.626		
14,200.00	7,730.00	8,386.00	8,033.72	130.67	42.03	94.79	-269.85	1,754.98	4,634.27	4,517.66	116.62	39.740		
14,300.00	7,730.00	8,386.00	8,033.72	130.86	42.03	94.79	-269.85	1,754.98	4,681.17	4,563.78	117.39	39.876		
14,400.00	7,730.00	8,386.00	8,033.72	131.07	42.03	94.79	-269.85	1,754.98	4,729.72	4,611.58	118.14	40.034		
14,500.00	7,730.00	8,386.00	8,033.72	131.30	42.03	94.79	-269.85	1,754.98	4,779.87	4,661.01	118.86	40.213		
14,600.00	7,730.00	8,386.00	8,033.72	131.55	42.03	94.79	-269.85	1,754.98	4,831.57	4,712.01	119.55	40.413		
14,700.00	7,730.00	8,386.00	8,033.72	131.82	42.03	94.79	-269.85	1,754.98	4,884.77	4,764.55	120.22	40.633		
14,800.00	7,730.00	8,386.00	8,033.72	132.11	42.03	94.79	-269.85	1,754.98	4,939.42	4,818.56	120.85	40.871		
14,900.00	7,730.00	8,386.00	8,033.72	132.42	42.03	94.79	-269.85	1,754.98	4,995.47	4,874.01	121.46	41.128		
15,000.00	7,730.00	8,386.00	8,033.72	132.75	42.03	94.79	-269.85	1,754.98	5,052.88	4,930.84	122.04	41.403		
15,100.00	7,730.00	8,386.00	8,033.72	133.10	42.03	94.79	-269.85	1,754.98	5,111.61	4,989.01	122.60	41.694		
15,200.00	7,730.00	8,386.00	8,033.72	133.48	42.03	94.79	-269.85	1,754.98	5,171.60	5,048.47	123.13	42.001		
15,300.00	7,730.00	8,386.00	8,033.72	133.88	42.03	94.79	-269.85	1,754.98	5,232.81	5,109.17	123.64	42.324		
15,400.00	7,730.00	8,386.00	8,033.72	134.31	42.03	94.79	-269.85	1,754.98	5,295.20	5,171.08	124.12	42.661		
15,500.00	7,730.00	8,386.00	8,033.72	134.76	42.03	94.79	-269.85	1,754.98	5,358.74	5,234.15	124.58	43.013		
15,600.00	7,730.00	8,386.00	8,033.72	135.23	42.03	94.79	-269.85	1,754.98	5,423.37	5,298.35	125.03	43.378		
15,700.00	7,730.00	8,404.82	8,052.49	135.73	42.06	95.05	-271.02	1,755.65	5,489.00	5,363.49	125.51	43.732		
15,800.00	7,730.00	8,407.84	8,055.50	136.26	42.07	95.10	-271.20	1,755.75	5,555.70	5,429.77	125.92	44.119		
15,900.00	7,730.00	8,410.79	8,058.44	136.81	42.08	95.14	-271.37	1,755.86	5,623.38	5,497.06	126.32	44.518		
16,000.00	7,730.00	8,413.68	8,061.33	137.39	42.08	95.18	-271.54	1,755.96	5,692.01	5,565.32	126.69	44.929		
16,100.00	7,730.00	8,416.52	8,064.16	138.00	42.09	95.22	-271.71	1,756.05	5,761.55	5,634.51	127.04	45.351		
16,200.00	7,730.00	8,419.30	8,066.93	138.63	42.09	95.26	-271.86	1,756.15	5,831.98	5,704.60	127.38	45.783		
16,300.00	7,730.00	8,422.02	8,069.65	139.30	42.10	95.29	-272.02	1,756.24	5,903.26	5,775.56	127.70	46.226		
16,400.00	7,730.00	8,424.69	8,072.31	139.99	42.10	95.33	-272.17	1,756.33	5,975.36	5,847.35	128.01	46.678		
16,500.00	7,730.00	8,427.30	8,074.92	140.70	42.11	95.37	-272.31	1,756.42	6,048.25	5,919.95	128.30	47.140		
16,600.00	7,730.00	8,429.87	8,077.48	141.45	42.11	95.40	-272.45	1,756.51	6,121.91	5,993.32	128.58	47.611		
16,700.00	7,730.00	8,432.39	8,079.99	142.22	42.11	95.44	-272.59	1,756.59	6,196.30	6,067.45	128.85	48.090		
16,800.00	7,730.00	8,434.86	8,082.46	143.03	42.12	95.47	-272.72	1,756.68	6,271.40	6,142.29	129.10	48.577		
16,900.00	7,730.00	8,437.28	8,084.88	143.86	42.12	95.50	-272.85	1,756.76	6,347.18	6,217.84	129.34	49.072		
17,000.00	7,730.00	8,439.66	8,087.25	144.71	42.13	95.54	-272.98	1,756.84	6,423.63	6,294.05	129.57	49.575		
17,100.00	7,730.00	8,442.00	8,089.58	145.60	42.13	95.57	-273.10	1,756.91	6,500.71	6,370.92	129.79	50.085		
17,200.00	7,730.00	8,444.29	8,091.87	146.51	42.14	95.60	-273.22	1,756.99	6,578.41	6,448.41	130.00	50.602		
17,300.00	7,730.00	8,446.54	8,094.12	147.44	42.14	95.63	-273.34	1,757.07	6,656.70	6,526.50	130.20	51.125		
17,400.00	7,730.00	8,448.75	8,096.32	148.40	42.14	95.66	-273.45	1,757.14	6,735.57	6,605.17	130.39	51.655		
17,500.00	7,730.00	8,450.92	8,098.49	149.39	42.15	95.69	-273.56	1,757.21	6,814.99	6,684.41	130.58	52.191		
17,600.00	7,730.00	8,453.06	8,100.62	150.40	42.15	95.72	-273.67	1,757.28	6,894.94	6,764.19	130.75	52.733		
17,700.00	7,730.00	8,455.15	8,102.71	151.44	42.16	95.75	-273.77	1,757.35	6,975.41	6,844.49	130.92	53.281		
17,800.00	7,730.00	8,457.21	8,104.77	152.50	42.16	95.78	-273.87	1,757.41	7,056.37	6,925.30	131.08	53.834		
17,900.00	7,730.00	8,481.00	8,128.52	153.58	42.20	96.11	-274.98	1,758.17	7,137.90	7,006.61	131.29	54.367		
18,000.00	7,730.00	8,481.00	8,128.52	154.68	42.20	96.11	-274.98	1,758.17	7,219.80	7,088.37	131.43	54.932		
18,100.00	7,730.00	8,481.00	8,128.52	155.80	42.20	96.11	-274.98	1,758.17	7,302.15	7,170.58	131.56	55.502		
18,200.00	7,730.00	8,481.00	8,128.52	156.95	42.20	96.11	-274.98	1,758.17	7,384.93	7,253.24	131.69	56.077		
18,300.00	7,730.00	8,481.00	8,128.52	158.11	42.20	96.11	-274.98	1,758.17	7,468.14	7,336.32	131.81	56.656		
18,400.00	7,730.00	8,481.00	8,128.52	159.30	42.20	96.11	-274.98	1,758.17	7,551.75	7,419.82	131.93	57.240		
18,500.00	7,730.00	8,481.00	8,128.52	160.50	42.20	96.11	-274.98	1,758.17	7,635.76	7,503.71	132.04	57.827		
18,600.00	7,730.00	8,481.00	8,128.52	161.72	42.20	96.11	-274.98	1,758.17	7,720.15	7,588.00	132.15	58.419		
18,700.00	7,730.00	8,481.00	8,128.52	162.96	42.20	96.11	-274.98	1,758.17	7,804.91	7,672.65	132.26	59.014		
18,800.00	7,730.00	8,481.00	8,128.52	164.21	42.20	96.11	-274.98	1,758.17	7,890.02	7,757.67	132.35	59.613		
18,900.00	7,730.00	8,481.00	8,128.52	165.48	42.20	96.11	-274.98	1,758.17	7,975.48	7,843.03	132.45	60.215		
19,000.00	7,730.00	8,481.00	8,128.52	166.76	42.20	96.11	-274.98	1,758.17	8,061.27	7,928.73	132.54	60.821		
19,100.00	7,730.00	8,481.00	8,128.52	168.06	42.20	96.11	-274.98	1,758.17	8,147.39	8,014.76	132.63	61.430		
19,200.00	7,730.00	8,481.00	8,128.52	169.38	42.20	96.11	-274.98	1,758.17	8,233.83	8,101.11	132.71	62.042		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	8,481.00	8,128.52	170.70	42.20	96.11	-274.98	1,758.17	8,320.56	8,187.77	132.80	62.657	
19,400.00	7,730.00	8,481.00	8,128.52	172.04	42.20	96.11	-274.98	1,758.17	8,407.59	8,274.72	132.87	63.275	
19,500.00	7,730.00	8,481.00	8,128.52	173.40	42.20	96.11	-274.98	1,758.17	8,494.91	8,361.96	132.95	63.895	
19,600.00	7,730.00	8,481.00	8,128.52	174.76	42.20	96.11	-274.98	1,758.17	8,582.50	8,449.48	133.02	64.519	
19,700.00	7,730.00	8,481.00	8,128.52	176.14	42.20	96.11	-274.98	1,758.17	8,670.36	8,537.27	133.09	65.145	
19,800.00	7,730.00	8,481.00	8,128.52	177.52	42.20	96.11	-274.98	1,758.17	8,758.49	8,625.32	133.16	65.773	
19,900.00	7,730.00	8,481.00	8,128.52	178.92	42.20	96.11	-274.98	1,758.17	8,846.86	8,713.63	133.23	66.404	
20,000.00	7,730.00	8,481.00	8,128.52	180.33	42.20	96.11	-274.98	1,758.17	8,935.48	8,802.19	133.29	67.037	
20,100.00	7,730.00	8,481.00	8,128.52	181.75	42.20	96.11	-274.98	1,758.17	9,024.34	8,890.99	133.35	67.673	
20,184.95	7,730.00	8,481.00	8,128.52	182.96	42.20	96.11	-274.98	1,758.17	9,100.01	8,966.60	133.40	68.214	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	69.21	772.74	2,035.84	2,177.91					
100.00	100.00	63.98	63.98	0.13	0.10	69.22	772.51	2,035.88	2,177.52	2,177.28	0.24	9,175.335		
200.00	199.98	168.53	168.53	0.49	0.36	-1.20	771.34	2,036.04	2,175.52	2,174.67	0.86	2,542.510		
300.00	299.84	271.68	271.67	0.86	0.73	-1.19	770.59	2,035.85	2,169.86	2,168.27	1.59	1,363.227		
400.00	399.45	361.43	361.42	1.23	1.05	-1.19	770.03	2,035.70	2,160.78	2,158.50	2.28	948.368		
500.00	498.70	452.52	452.51	1.63	1.37	-1.18	769.49	2,036.13	2,148.82	2,145.85	2.97	723.521		
600.00	597.47	540.62	540.60	2.05	1.68	-1.18	769.27	2,036.69	2,133.69	2,130.03	3.65	584.322		
700.00	695.62	632.13	632.11	2.51	2.00	-1.18	769.02	2,037.86	2,115.69	2,111.34	4.35	486.379		
800.00	793.06	727.21	727.17	3.00	2.34	-1.19	768.79	2,039.15	2,094.35	2,089.29	5.07	413.454		
900.00	889.64	826.14	826.09	3.53	2.69	-1.20	768.96	2,040.47	2,069.74	2,063.94	5.80	356.881		
1,000.00	985.27	933.98	933.93	4.12	3.06	-1.23	769.24	2,041.44	2,041.41	2,034.84	6.56	310.983		
1,100.00	1,079.82	1,033.48	1,033.42	4.75	3.40	-1.30	770.42	2,041.46	2,009.28	2,001.99	7.30	275.387		
1,200.00	1,173.17	1,116.69	1,116.63	5.44	3.69	-1.37	771.56	2,041.54	1,974.00	1,966.02	7.98	247.346		
1,300.00	1,265.21	1,216.22	1,216.14	6.18	4.03	-1.46	772.98	2,041.88	1,935.71	1,926.98	8.73	221.832		
1,400.00	1,355.84	1,275.72	1,275.63	6.99	4.24	-1.54	774.09	2,042.28	1,894.65	1,885.30	9.35	202.643		
1,500.00	1,444.94	1,333.43	1,333.29	7.87	4.44	-1.64	776.23	2,043.34	1,852.00	1,842.02	9.98	185.638		
1,600.00	1,532.39	1,390.99	1,390.73	8.80	4.64	-1.78	779.41	2,045.07	1,807.79	1,797.18	10.61	170.346		
1,700.00	1,618.11	1,450.39	1,449.93	9.81	4.85	-1.96	783.67	2,047.57	1,762.01	1,750.74	11.26	156.432		
1,800.00	1,701.97	1,503.00	1,502.28	10.89	5.04	-2.16	788.04	2,050.39	1,714.60	1,702.69	11.90	144.050		
1,900.00	1,783.88	1,565.54	1,564.40	12.04	5.27	-2.41	793.98	2,054.61	1,665.65	1,653.06	12.58	132.363		
2,000.00	1,863.74	1,623.10	1,621.42	13.26	5.48	-2.68	800.11	2,059.44	1,615.31	1,602.05	13.26	121.833		
2,100.00	1,941.45	1,683.32	1,680.97	14.55	5.71	-2.99	806.88	2,065.37	1,563.39	1,549.44	13.95	112.067		
2,200.00	2,016.92	1,745.32	1,742.13	15.92	5.95	-3.35	814.32	2,072.29	1,509.84	1,495.18	14.66	102.997		
2,292.11	2,084.36	1,801.05	1,796.96	17.25	6.17	-3.73	821.65	2,079.04	1,459.03	1,443.71	15.32	95.256		
2,300.00	2,090.06	1,805.52	1,801.35	17.36	6.19	-3.76	822.25	2,079.61	1,454.62	1,439.24	15.38	94.601		
2,400.00	2,162.18	1,862.78	1,857.51	18.84	6.42	-4.09	830.19	2,087.47	1,399.64	1,383.56	16.09	87.005		
2,500.00	2,234.31	1,928.59	1,921.85	20.33	6.69	-4.50	839.65	2,097.51	1,346.11	1,329.26	16.84	79.929		
2,600.00	2,306.43	1,993.99	1,985.66	21.83	6.97	-4.92	849.30	2,108.17	1,293.64	1,276.03	17.61	73.453		
2,700.00	2,378.56	2,051.67	2,041.73	23.33	7.22	-5.27	857.44	2,118.97	1,242.92	1,224.54	18.38	67.634		
2,800.00	2,450.68	2,120.52	2,108.39	24.84	7.54	-5.63	866.38	2,133.68	1,193.95	1,174.76	19.19	62.229		
2,900.00	2,522.81	2,197.91	2,183.14	26.36	7.89	-5.98	875.32	2,151.63	1,146.00	1,125.98	20.03	57.220		
3,000.00	2,594.93	2,277.76	2,260.11	27.88	8.27	-6.24	882.85	2,171.45	1,098.64	1,077.76	20.88	52.613		
3,100.00	2,667.06	2,350.31	2,329.81	29.40	8.63	-6.46	889.48	2,190.49	1,052.34	1,030.61	21.73	48.429		
3,200.00	2,739.18	2,428.50	2,404.62	30.92	9.03	-6.69	896.70	2,212.04	1,007.21	984.61	22.60	44.558		
3,300.00	2,811.31	2,496.06	2,468.96	32.45	9.39	-6.87	903.02	2,231.64	963.43	939.96	23.47	41.048		
3,400.00	2,883.43	2,568.41	2,537.27	33.98	9.79	-7.12	910.95	2,254.13	921.98	897.62	24.37	37.840		
3,500.00	2,955.56	2,663.22	2,626.60	35.51	10.33	-7.42	921.01	2,284.26	881.09	855.77	25.32	34.793		
3,600.00	3,027.68	2,761.56	2,719.53	37.04	10.91	-7.77	931.14	2,314.76	839.42	813.12	26.30	31.918		
3,700.00	3,099.81	2,851.83	2,804.97	38.57	11.44	-8.20	941.20	2,342.10	797.51	770.22	27.29	29.227		
3,800.00	3,171.93	2,941.44	2,889.77	40.11	11.98	-8.71	951.55	2,369.17	755.76	727.46	28.30	26.703		
3,900.00	3,244.06	3,030.97	2,974.47	41.64	12.52	-9.27	961.80	2,396.32	714.11	684.76	29.34	24.336		
4,000.00	3,316.18	3,114.55	3,053.34	43.18	13.04	-9.85	971.67	2,422.14	673.17	642.75	30.42	22.129		
4,100.00	3,388.31	3,207.78	3,141.22	44.71	13.63	-10.60	983.06	2,451.09	632.63	601.09	31.55	20.053		
4,200.00	3,460.43	3,305.47	3,233.53	46.25	14.25	-11.45	994.20	2,481.09	591.53	558.82	32.71	18.085		
4,300.00	3,532.56	3,399.54	3,322.64	47.79	14.83	-12.35	1,004.22	2,509.50	549.74	515.83	33.92	16.209		
4,400.00	3,604.68	3,484.56	3,403.15	49.33	15.37	-13.36	1,013.79	2,535.11	508.32	473.07	35.25	14.421		
4,500.00	3,676.81	3,575.01	3,488.67	50.87	15.95	-14.66	1,024.53	2,562.52	467.54	430.84	36.70	12.739		
4,600.00	3,748.93	3,671.14	3,579.75	52.41	16.56	-16.35	1,035.84	2,591.11	426.49	388.18	38.31	11.133		
4,700.00	3,821.06	3,761.42	3,665.47	53.95	17.13	-18.24	1,045.92	2,617.57	385.12	344.96	40.16	9.590		
4,800.00	3,893.18	3,851.48	3,750.97	55.49	17.70	-20.55	1,055.91	2,644.06	344.21	301.88	42.33	8.131		
4,900.00	3,965.31	3,942.79	3,837.71	57.03	18.28	-23.58	1,066.26	2,670.63	303.84	258.82	45.02	6.750		
5,000.00	4,037.43	4,030.83	3,921.26	58.58	18.84	-27.18	1,075.74	2,696.73	264.40	216.03	48.37	5.466		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,120.48	4,006.20	60.12	19.42	-32.15	1,086.25	2,723.39	226.98	174.14	52.84	4.295		
5,200.00	4,181.68	4,212.08	4,093.25	61.66	20.00	-39.48	1,097.82	2,749.47	191.76	132.59	59.17	3.241		
5,300.00	4,253.81	4,303.95	4,180.78	63.20	20.58	-49.67	1,108.60	2,775.20	159.69	92.00	67.69	2.359		
5,400.00	4,325.93	4,393.61	4,266.14	64.75	21.14	-62.99	1,117.94	2,801.00	133.63	55.74	77.88	1.716		
5,500.00	4,398.06	4,483.03	4,351.22	66.29	21.71	-80.22	1,127.91	2,826.62	119.23	32.34	86.90	1.372	Level 3	
5,543.76	4,429.62	4,522.29	4,388.64	66.97	21.96	-88.61	1,132.27	2,837.67	117.65	28.75	88.90	1.323	Level 3, CC, ES, SF	
5,600.00	4,470.18	4,571.57	4,435.56	67.84	22.27	-99.01	1,138.06	2,851.59	120.49	31.56	88.93	1.355	Level 3	
5,700.00	4,542.31	4,660.95	4,520.28	69.38	22.85	-115.21	1,150.07	2,877.42	137.43	53.29	84.14	1.633		
5,800.00	4,614.43	4,750.45	4,605.49	70.92	23.41	-128.01	1,161.27	2,902.41	164.52	87.28	77.24	2.130		
5,900.00	4,686.56	4,839.60	4,690.79	72.47	23.96	-137.70	1,171.06	2,926.35	198.29	127.28	71.01	2.792		
6,000.00	4,758.68	4,927.62	4,775.30	74.01	24.49	-145.04	1,178.98	2,949.68	235.95	169.83	66.12	3.568		
6,100.00	4,830.81	5,010.33	4,855.13	75.56	24.96	-150.36	1,185.72	2,970.23	277.66	215.17	62.49	4.443		
6,200.00	4,902.93	5,094.96	4,937.08	77.10	25.44	-154.48	1,192.74	2,990.17	322.31	262.16	60.15	5.359		
6,300.00	4,975.06	5,170.70	5,010.78	78.65	25.84	-157.42	1,198.64	3,006.57	369.79	311.44	58.35	6.338		
6,400.00	5,047.18	5,243.29	5,081.93	80.19	26.19	-159.84	1,203.26	3,020.19	420.62	363.67	56.95	7.385		
6,500.00	5,119.31	5,316.82	5,154.41	81.74	26.52	-161.97	1,206.84	3,032.01	474.43	418.45	55.98	8.475		
6,600.00	5,191.43	5,390.65	5,227.36	83.28	26.84	-163.76	1,210.09	3,042.89	529.91	474.53	55.39	9.567		
6,700.00	5,263.56	5,454.23	5,290.40	84.83	27.09	-165.06	1,212.70	3,050.69	587.79	533.03	54.76	10.734		
6,800.00	5,335.68	5,517.78	5,353.62	86.37	27.32	-166.18	1,214.91	3,056.75	648.17	593.83	54.34	11.928		
6,900.00	5,407.81	5,579.03	5,414.69	87.92	27.53	-167.18	1,216.24	3,061.29	710.58	656.58	54.00	13.160		
7,000.00	5,479.93	5,635.92	5,471.50	89.47	27.70	-168.01	1,216.96	3,064.17	775.07	721.41	53.65	14.446		
7,100.00	5,552.06	5,695.74	5,531.29	91.01	27.87	-168.79	1,217.36	3,065.86	841.41	787.89	53.52	15.721		
7,200.00	5,624.18	5,758.23	5,593.78	92.56	28.04	-169.50	1,217.74	3,066.75	908.90	855.32	53.58	16.963		
7,300.00	5,696.31	5,829.26	5,664.80	94.10	28.22	-170.19	1,218.26	3,067.26	976.97	923.00	53.97	18.103		
7,400.00	5,768.43	5,905.16	5,740.70	95.65	28.42	-170.82	1,218.92	3,067.78	1,045.11	990.57	54.54	19.162		
7,500.00	5,840.56	5,981.23	5,816.76	97.20	28.63	-171.37	1,219.57	3,068.62	1,113.01	1,057.86	55.14	20.184		
7,600.00	5,912.68	6,054.49	5,890.02	98.74	28.83	-171.84	1,220.42	3,069.48	1,180.85	1,125.14	55.70	21.199		
7,700.00	5,984.81	6,123.82	5,959.33	100.29	29.01	-172.22	1,221.25	3,070.16	1,248.86	1,192.67	56.19	22.225		
7,800.00	6,056.93	6,193.34	6,028.85	101.84	29.20	-172.57	1,222.05	3,070.64	1,317.11	1,260.41	56.70	23.228		
7,900.00	6,129.06	6,262.58	6,098.08	103.38	29.39	-172.89	1,222.82	3,070.95	1,385.58	1,328.35	57.23	24.211		
8,000.00	6,201.18	6,331.69	6,167.19	104.93	29.57	-173.18	1,223.45	3,071.11	1,454.25	1,396.48	57.76	25.175		
8,100.00	6,273.31	6,401.73	6,237.23	106.48	29.75	-173.46	1,223.75	3,071.23	1,523.07	1,464.74	58.33	26.111		
8,200.00	6,345.43	6,477.17	6,312.67	108.02	29.95	-173.75	1,223.87	3,071.40	1,591.93	1,532.91	59.02	26.973		
8,300.00	6,417.56	6,559.29	6,394.79	109.57	30.18	-174.03	1,224.28	3,071.82	1,660.54	1,600.68	59.86	27.741		
8,400.00	6,489.68	6,634.25	6,469.74	111.12	30.38	-174.28	1,224.52	3,072.70	1,728.73	1,668.18	60.55	28.552		
8,500.00	6,561.81	6,696.42	6,531.91	112.66	30.55	-174.47	1,224.69	3,073.17	1,797.24	1,736.25	60.99	29.468		
8,600.00	6,633.93	6,778.41	6,613.89	114.21	30.78	-174.68	1,225.11	3,073.70	1,865.80	1,803.96	61.83	30.176		
8,700.00	6,706.06	6,854.16	6,689.64	115.76	30.99	-174.86	1,225.87	3,074.36	1,934.10	1,871.54	62.56	30.918		
8,800.00	6,778.18	6,923.92	6,759.39	117.30	31.19	-175.00	1,226.88	3,074.90	2,002.39	1,939.22	63.17	31.696		
8,900.00	6,850.31	6,989.10	6,824.56	118.85	31.38	-175.12	1,227.69	3,075.24	2,070.92	2,007.21	63.71	32.505		
9,000.00	6,922.43	7,050.63	6,886.09	120.40	31.54	-175.23	1,228.31	3,075.31	2,139.78	2,075.60	64.18	33.338		
9,100.00	6,994.56	7,121.69	6,957.14	121.95	31.74	-175.35	1,229.01	3,075.11	2,208.92	2,144.08	64.83	34.070		
9,200.00	7,066.68	7,196.27	7,031.71	123.49	31.94	-175.46	1,230.19	3,074.89	2,277.95	2,212.40	65.55	34.749		
9,300.00	7,138.81	7,267.79	7,103.23	125.04	32.14	-175.55	1,231.33	3,074.67	2,347.00	2,280.78	66.22	35.441		
9,392.50	7,205.52	7,338.76	7,174.19	126.47	32.34	-175.64	1,232.32	3,074.55	2,410.82	2,343.89	66.93	36.022		
9,400.00	7,210.94	7,344.54	7,179.97	126.59	32.36	-177.11	1,232.39	3,074.55	2,415.98	2,349.00	66.98	36.069		
9,450.00	7,247.42	7,382.37	7,217.80	127.35	32.46	173.18	1,232.84	3,074.56	2,450.00	2,382.65	67.36	36.372		
9,500.00	7,284.35	7,420.31	7,255.73	128.10	32.57	163.67	1,233.23	3,074.61	2,483.17	2,415.42	67.75	36.653		
9,550.00	7,321.43	7,458.42	7,293.84	128.83	32.68	154.53	1,233.57	3,074.68	2,515.24	2,447.09	68.15	36.908		
9,600.00	7,358.38	7,490.89	7,326.31	129.52	32.77	145.83	1,233.73	3,074.75	2,546.08	2,477.61	68.47	37.185		
9,650.00	7,394.93	7,524.20	7,359.62	130.16	32.86	137.73	1,233.77	3,074.81	2,575.52	2,506.69	68.82	37.423		
9,700.00	7,430.79	7,556.83	7,392.25	130.76	32.94	130.31	1,233.69	3,074.86	2,603.40	2,534.22	69.18	37.631		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,588.45	7,423.87	131.30	33.03	123.61	1,233.55	3,074.88	2,629.61	2,560.06	69.55	37.809		
9,800.00	7,499.38	7,618.96	7,454.38	131.78	33.11	117.64	1,233.38	3,074.87	2,654.04	2,584.10	69.93	37.951		
9,850.00	7,531.58	7,649.81	7,485.23	132.21	33.19	112.43	1,233.18	3,074.83	2,676.58	2,606.22	70.36	38.040		
9,900.00	7,562.06	7,681.63	7,517.05	132.57	33.27	107.94	1,232.92	3,074.81	2,697.14	2,626.29	70.85	38.068		
9,950.00	7,590.58	7,711.57	7,546.98	132.87	33.35	104.08	1,232.65	3,074.80	2,715.66	2,644.30	71.36	38.054		
10,000.00	7,616.93	7,740.89	7,576.30	133.11	33.43	100.83	1,232.35	3,074.82	2,732.10	2,660.17	71.93	37.984		
10,050.00	7,640.90	7,771.53	7,606.95	133.29	33.51	98.18	1,232.04	3,074.90	2,746.41	2,673.83	72.58	37.838		
10,100.00	7,662.32	7,799.07	7,634.49	133.42	33.58	95.99	1,231.77	3,075.03	2,758.58	2,685.31	73.27	37.651		
10,150.00	7,681.01	7,823.27	7,658.68	133.50	33.65	94.23	1,231.53	3,075.19	2,768.62	2,694.64	73.98	37.422		
10,200.00	7,696.85	7,843.90	7,679.31	133.52	33.70	92.86	1,231.33	3,075.36	2,776.56	2,701.82	74.73	37.152		
10,250.00	7,709.70	7,853.71	7,689.12	133.51	33.73	91.69	1,231.28	3,075.41	2,782.44	2,707.02	75.42	36.891		
10,300.00	7,719.47	7,863.94	7,699.35	133.46	33.76	90.93	1,231.22	3,075.49	2,786.26	2,710.05	76.22	36.558		
10,350.00	7,726.09	7,870.89	7,706.30	133.37	33.78	90.49	1,231.18	3,075.54	2,788.04	2,710.98	77.06	36.180		
10,400.00	7,729.50	7,874.56	7,709.97	133.26	33.79	90.35	1,231.16	3,075.57	2,787.79	2,709.84	77.96	35.761		
10,427.79	7,730.00	7,875.19	7,710.60	133.18	33.79	90.40	1,231.16	3,075.57	2,786.78	2,708.31	78.48	35.512		
10,500.00	7,730.00	7,875.52	7,710.93	132.98	33.80	90.41	1,231.15	3,075.57	2,784.29	2,704.40	79.89	34.851		
10,560.08	7,730.00	7,875.79	7,711.20	132.82	33.80	90.42	1,231.15	3,075.58	2,783.64	2,702.50	81.14	34.307		
10,600.00	7,730.00	7,875.97	7,711.38	132.72	33.80	90.42	1,231.15	3,075.58	2,783.93	2,701.94	81.99	33.956		
10,700.00	7,730.00	7,876.41	7,711.82	132.47	33.80	90.43	1,231.15	3,075.58	2,787.16	2,702.94	84.21	33.097		
10,800.00	7,730.00	7,876.85	7,712.25	132.22	33.80	90.44	1,231.15	3,075.58	2,793.96	2,707.42	86.54	32.287		
10,900.00	7,730.00	7,877.27	7,712.68	131.99	33.80	90.45	1,231.15	3,075.59	2,804.32	2,715.39	88.93	31.534		
11,000.00	7,730.00	7,877.69	7,713.09	131.77	33.80	90.45	1,231.15	3,075.59	2,818.19	2,726.82	91.37	30.845		
11,100.00	7,730.00	7,878.09	7,713.50	131.56	33.80	90.46	1,231.14	3,075.59	2,835.52	2,741.70	93.82	30.223		
11,200.00	7,730.00	7,878.49	7,713.90	131.36	33.80	90.47	1,231.14	3,075.60	2,856.25	2,759.98	96.27	29.670		
11,300.00	7,730.00	7,878.89	7,714.30	131.17	33.80	90.48	1,231.14	3,075.60	2,880.30	2,781.61	98.69	29.185		
11,400.00	7,730.00	7,879.28	7,714.68	130.99	33.81	90.49	1,231.14	3,075.60	2,907.59	2,806.52	101.08	28.766		
11,500.00	7,730.00	7,879.66	7,715.06	130.82	33.81	90.50	1,231.14	3,075.60	2,938.04	2,834.63	103.41	28.413		
11,600.00	7,730.00	7,880.03	7,715.44	130.66	33.81	90.50	1,231.14	3,075.61	2,971.54	2,865.87	105.67	28.121		
11,700.00	7,730.00	7,880.40	7,715.80	130.51	33.81	90.51	1,231.13	3,075.61	3,008.00	2,900.14	107.86	27.888		
11,800.00	7,730.00	7,880.76	7,716.16	130.37	33.81	90.52	1,231.13	3,075.61	3,047.30	2,937.33	109.97	27.711		
11,900.00	7,730.00	7,881.11	7,716.52	130.24	33.81	90.53	1,231.13	3,075.61	3,089.34	2,977.35	111.99	27.587		
12,000.00	7,730.00	7,881.46	7,716.87	130.13	33.81	90.53	1,231.13	3,075.62	3,134.00	3,020.09	113.92	27.511		
12,100.00	7,730.00	7,881.80	7,717.21	130.02	33.81	90.54	1,231.13	3,075.62	3,181.19	3,065.43	115.76	27.482		
12,200.00	7,730.00	7,882.14	7,717.55	129.93	33.81	90.55	1,231.13	3,075.62	3,230.78	3,113.28	117.50	27.496		
12,300.00	7,730.00	7,882.47	7,717.88	129.85	33.81	90.55	1,231.13	3,075.62	3,282.67	3,163.51	119.15	27.550		
12,400.00	7,730.00	7,882.79	7,718.20	129.77	33.82	90.56	1,231.12	3,075.63	3,336.75	3,216.03	120.72	27.641		
12,500.00	7,730.00	7,883.11	7,718.52	129.71	33.82	90.57	1,231.12	3,075.63	3,392.91	3,270.72	122.19	27.767		
12,600.00	7,730.00	7,883.43	7,718.84	129.66	33.82	90.57	1,231.12	3,075.63	3,451.06	3,327.49	123.58	27.926		
12,700.00	7,730.00	7,883.74	7,719.15	129.63	33.82	90.58	1,231.12	3,075.63	3,511.10	3,386.22	124.88	28.115		
12,800.00	7,730.00	7,884.05	7,719.45	129.60	33.82	90.59	1,231.12	3,075.64	3,572.93	3,446.82	126.11	28.332		
12,900.00	7,730.00	7,884.35	7,719.75	129.59	33.82	90.59	1,231.12	3,075.64	3,636.45	3,509.19	127.26	28.576		
13,000.00	7,730.00	7,884.64	7,720.05	129.59	33.82	90.60	1,231.12	3,075.64	3,701.59	3,573.25	128.33	28.843		
13,100.00	7,730.00	7,884.93	7,720.34	129.60	33.82	90.60	1,231.12	3,075.64	3,768.25	3,638.91	129.34	29.134		
13,200.00	7,730.00	7,885.22	7,720.63	129.63	33.82	90.61	1,231.11	3,075.64	3,836.37	3,706.08	130.28	29.446		
13,300.00	7,730.00	7,885.50	7,720.91	129.66	33.82	90.62	1,231.11	3,075.65	3,905.85	3,774.69	131.16	29.778		
13,400.00	7,730.00	7,885.78	7,721.19	129.72	33.82	90.62	1,231.11	3,075.65	3,976.64	3,844.65	131.99	30.129		
13,500.00	7,730.00	7,886.05	7,721.46	129.78	33.82	90.63	1,231.11	3,075.65	4,048.66	3,915.90	132.76	30.497		
13,600.00	7,730.00	7,886.32	7,721.73	129.86	33.83	90.63	1,231.11	3,075.65	4,121.84	3,988.37	133.47	30.881		
13,700.00	7,730.00	7,886.59	7,722.00	129.96	33.83	90.64	1,231.11	3,075.65	4,196.14	4,061.99	134.14	31.281		
13,800.00	7,730.00	7,886.85	7,722.26	130.07	33.83	90.64	1,231.11	3,075.66	4,271.48	4,136.71	134.77	31.695		
13,900.00	7,730.00	7,887.11	7,722.52	130.19	33.83	90.65	1,231.11	3,075.66	4,347.82	4,212.47	135.35	32.122		
14,000.00	7,730.00	7,887.36	7,722.77	130.33	33.83	90.65	1,231.11	3,075.66	4,425.10	4,289.20	135.90	32.562		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,887.62	7,723.02	130.49	33.83	90.66	1,231.11	3,075.66	4,503.27	4,366.87	136.40	33.014		
14,200.00	7,730.00	7,887.86	7,723.27	130.67	33.83	90.66	1,231.11	3,075.66	4,582.30	4,445.42	136.88	33.478		
14,300.00	7,730.00	7,888.11	7,723.51	130.86	33.83	90.67	1,231.10	3,075.66	4,662.13	4,524.81	137.32	33.951		
14,400.00	7,730.00	7,888.35	7,723.75	131.07	33.83	90.67	1,231.10	3,075.67	4,742.72	4,604.99	137.73	34.435		
14,500.00	7,730.00	7,888.58	7,723.99	131.30	33.83	90.68	1,231.10	3,075.67	4,824.04	4,685.93	138.12	34.928		
14,600.00	7,730.00	7,888.82	7,724.22	131.55	33.83	90.68	1,231.10	3,075.67	4,906.05	4,767.58	138.47	35.429		
14,700.00	7,730.00	7,889.05	7,724.45	131.82	33.83	90.69	1,231.10	3,075.67	4,988.72	4,849.91	138.81	35.940		
14,800.00	7,730.00	7,889.27	7,724.68	132.11	33.83	90.69	1,231.10	3,075.67	5,072.01	4,932.89	139.12	36.458		
14,900.00	7,730.00	7,889.50	7,724.91	132.42	33.83	90.70	1,231.10	3,075.67	5,155.90	5,016.48	139.41	36.983		
15,000.00	7,730.00	7,889.72	7,725.13	132.75	33.84	90.70	1,231.10	3,075.68	5,240.35	5,100.66	139.69	37.515		
15,100.00	7,730.00	7,889.94	7,725.35	133.10	33.84	90.71	1,231.10	3,075.68	5,325.34	5,185.40	139.94	38.055		
15,200.00	7,730.00	7,890.15	7,725.56	133.48	33.84	90.71	1,231.10	3,075.68	5,410.84	5,270.66	140.18	38.600		
15,300.00	7,730.00	7,890.36	7,725.77	133.88	33.84	90.72	1,231.10	3,075.68	5,496.83	5,356.43	140.40	39.152		
15,400.00	7,730.00	7,890.57	7,725.98	134.31	33.84	90.72	1,231.10	3,075.68	5,583.29	5,442.68	140.61	39.709		
15,500.00	7,730.00	7,890.78	7,726.19	134.76	33.84	90.72	1,231.10	3,075.68	5,670.19	5,529.39	140.80	40.271		
15,600.00	7,730.00	7,890.98	7,726.39	135.23	33.84	90.73	1,231.10	3,075.69	5,757.52	5,616.54	140.98	40.839		
15,700.00	7,730.00	7,891.19	7,726.59	135.73	33.84	90.73	1,231.09	3,075.69	5,845.26	5,704.11	141.15	41.412		
15,800.00	7,730.00	7,891.39	7,726.79	136.26	33.84	90.74	1,231.09	3,075.69	5,933.38	5,792.07	141.31	41.989		
15,900.00	7,730.00	7,891.58	7,726.99	136.81	33.84	90.74	1,231.09	3,075.69	6,021.87	5,880.42	141.46	42.571		
16,000.00	7,730.00	7,891.78	7,727.18	137.39	33.84	90.74	1,231.09	3,075.69	6,110.72	5,969.13	141.59	43.157		
16,100.00	7,730.00	7,891.97	7,727.37	138.00	33.84	90.75	1,231.09	3,075.69	6,199.91	6,058.19	141.72	43.747		
16,200.00	7,730.00	7,892.16	7,727.56	138.63	33.84	90.75	1,231.09	3,075.69	6,289.43	6,147.58	141.84	44.341		
16,300.00	7,730.00	7,892.34	7,727.75	139.30	33.84	90.76	1,231.09	3,075.69	6,379.25	6,237.30	141.96	44.938		
16,400.00	7,730.00	7,892.53	7,727.93	139.99	33.84	90.76	1,231.09	3,075.70	6,469.38	6,327.31	142.06	45.539		
16,500.00	7,730.00	7,892.71	7,728.12	140.70	33.84	90.76	1,231.09	3,075.70	6,559.79	6,417.62	142.16	46.143		
16,600.00	7,730.00	7,892.89	7,728.30	141.45	33.84	90.77	1,231.09	3,075.70	6,650.47	6,508.22	142.25	46.750		
16,700.00	7,730.00	7,893.07	7,728.47	142.22	33.84	90.77	1,231.09	3,075.70	6,741.42	6,599.08	142.34	47.361		
16,800.00	7,730.00	7,893.24	7,728.65	143.03	33.84	90.77	1,231.09	3,075.70	6,832.62	6,690.20	142.42	47.974		
16,900.00	7,730.00	7,893.42	7,728.82	143.86	33.85	90.78	1,231.09	3,075.70	6,924.07	6,781.57	142.50	48.590		
17,000.00	7,730.00	7,893.59	7,728.99	144.71	33.85	90.78	1,231.09	3,075.70	7,015.74	6,873.17	142.57	49.209		
17,100.00	7,730.00	7,893.76	7,729.16	145.60	33.85	90.79	1,231.09	3,075.70	7,107.65	6,965.01	142.64	49.830		
17,200.00	7,730.00	7,893.92	7,729.33	146.51	33.85	90.79	1,231.09	3,075.71	7,199.76	7,057.06	142.70	50.454		
17,300.00	7,730.00	7,894.09	7,729.50	147.44	33.85	90.79	1,231.09	3,075.71	7,292.09	7,149.33	142.76	51.080		
17,400.00	7,730.00	7,894.25	7,729.66	148.40	33.85	90.80	1,231.09	3,075.71	7,384.61	7,241.80	142.81	51.708		
17,500.00	7,730.00	7,894.41	7,729.82	149.39	33.85	90.80	1,231.09	3,075.71	7,477.33	7,334.47	142.87	52.338		
17,600.00	7,730.00	7,894.57	7,729.98	150.40	33.85	90.80	1,231.08	3,075.71	7,570.24	7,427.32	142.91	52.970		
17,700.00	7,730.00	7,894.73	7,730.14	151.44	33.85	90.81	1,231.08	3,075.71	7,663.32	7,520.36	142.96	53.605		
17,800.00	7,730.00	7,894.89	7,730.30	152.50	33.85	90.81	1,231.08	3,075.71	7,756.57	7,613.57	143.00	54.241		
17,900.00	7,730.00	7,895.04	7,730.45	153.58	33.85	90.81	1,231.08	3,075.71	7,849.99	7,706.95	143.04	54.879		
18,000.00	7,730.00	7,895.20	7,730.60	154.68	33.85	90.82	1,231.08	3,075.72	7,943.57	7,800.49	143.08	55.518		
18,100.00	7,730.00	7,895.35	7,730.75	155.80	33.85	90.82	1,231.08	3,075.72	8,037.31	7,894.19	143.12	56.159		
18,200.00	7,730.00	7,895.50	7,730.90	156.95	33.85	90.82	1,231.08	3,075.72	8,131.19	7,988.04	143.15	56.802		
18,300.00	7,730.00	7,895.64	7,731.05	158.11	33.85	90.82	1,231.08	3,075.72	8,225.22	8,082.04	143.18	57.446		
18,400.00	7,730.00	7,895.79	7,731.20	159.30	33.85	90.83	1,231.08	3,075.72	8,319.39	8,176.18	143.21	58.092		
18,500.00	7,730.00	7,895.93	7,731.34	160.50	33.85	90.83	1,231.08	3,075.72	8,413.69	8,270.45	143.24	58.739		
18,600.00	7,730.00	7,896.08	7,731.48	161.72	33.85	90.83	1,231.08	3,075.72	8,508.12	8,364.86	143.27	59.387		
18,700.00	7,730.00	7,896.22	7,731.63	162.96	33.85	90.84	1,231.08	3,075.72	8,602.68	8,459.39	143.29	60.037		
18,800.00	7,730.00	7,896.36	7,731.76	164.21	33.85	90.84	1,231.08	3,075.72	8,697.36	8,554.05	143.31	60.687		
18,900.00	7,730.00	7,896.50	7,731.90	165.48	33.85	90.84	1,231.08	3,075.72	8,792.16	8,648.82	143.34	61.339		
19,000.00	7,730.00	7,896.63	7,732.04	166.76	33.85	90.84	1,231.08	3,075.73	8,887.07	8,743.71	143.36	61.992		
19,100.00	7,730.00	7,896.77	7,732.18	168.06	33.85	90.85	1,231.08	3,075.73	8,982.09	8,838.72	143.38	62.647		
19,200.00	7,730.00	7,896.90	7,732.31	169.38	33.86	90.85	1,231.08	3,075.73	9,077.22	8,933.83	143.40	63.302		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,897.03	7,732.44	170.70	33.86	90.85	1,231.08	3,075.73	9,172.46	9,029.04	143.41	63.958	
19,400.00	7,730.00	7,897.16	7,732.57	172.04	33.86	90.86	1,231.08	3,075.73	9,267.79	9,124.36	143.43	64.615	
19,500.00	7,730.00	7,897.29	7,732.70	173.40	33.86	90.86	1,231.08	3,075.73	9,363.22	9,219.77	143.45	65.273	
19,600.00	7,730.00	7,897.42	7,732.83	174.76	33.86	90.86	1,231.08	3,075.73	9,458.74	9,315.28	143.46	65.931	
19,700.00	7,730.00	7,897.55	7,732.96	176.14	33.86	90.86	1,231.08	3,075.73	9,554.36	9,410.88	143.48	66.591	
19,800.00	7,730.00	7,897.68	7,733.08	177.52	33.86	90.87	1,231.08	3,075.73	9,650.07	9,506.57	143.49	67.251	
19,900.00	7,730.00	7,897.80	7,733.21	178.92	33.86	90.87	1,231.08	3,075.73	9,745.86	9,602.35	143.51	67.912	
20,000.00	7,730.00	7,897.92	7,733.33	180.33	33.86	90.87	1,231.08	3,075.73	9,841.73	9,698.21	143.52	68.574	
20,100.00	7,730.00	7,898.05	7,733.45	181.75	33.86	90.87	1,231.08	3,075.74	9,937.69	9,794.16	143.53	69.236	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	69.69	754.52	2,038.64	2,174.15					
100.00	100.00	81.03	81.03	0.13	0.13	69.70	754.20	2,038.34	2,173.50	2,173.23	0.26	8,279.655		
200.00	199.98	167.66	167.65	0.49	0.41	-0.75	753.77	2,037.80	2,171.01	2,170.10	0.91	2,396.931		
300.00	299.84	276.08	276.07	0.86	0.80	-0.77	754.08	2,037.17	2,165.34	2,163.68	1.66	1,306.276		
400.00	399.45	381.82	381.81	1.23	1.17	-0.78	754.00	2,036.26	2,155.80	2,153.40	2.40	896.803		
500.00	498.70	533.79	533.71	1.63	1.72	-0.72	750.28	2,034.34	2,141.72	2,138.40	3.32	644.886		
600.00	597.47	658.99	658.59	2.05	2.17	-0.54	741.94	2,031.55	2,121.68	2,117.53	4.15	511.632		
700.00	695.62	737.87	737.04	2.51	2.47	-0.34	733.85	2,030.87	2,098.37	2,093.56	4.81	436.451		
800.00	793.06	815.59	814.12	3.00	2.77	-0.07	723.89	2,031.65	2,072.56	2,067.08	5.48	378.271		
900.00	889.64	872.89	870.75	3.53	2.99	0.18	715.36	2,033.40	2,044.70	2,038.61	6.09	335.952		
1,000.00	985.27	920.00	917.20	4.12	3.18	0.42	707.94	2,035.94	2,015.49	2,008.83	6.66	302.574		
1,100.00	1,079.82	986.38	982.42	4.75	3.46	0.80	696.70	2,041.06	1,984.77	1,977.43	7.34	270.551		
1,200.00	1,173.17	1,039.98	1,034.84	5.44	3.69	1.16	686.92	2,046.49	1,952.61	1,944.64	7.97	245.106		
1,300.00	1,265.21	1,089.17	1,082.75	6.18	3.90	1.53	677.68	2,052.69	1,919.36	1,910.76	8.60	223.290		
1,400.00	1,355.84	1,145.22	1,137.14	6.99	4.16	1.98	667.01	2,061.06	1,884.99	1,875.71	9.27	203.261		
1,500.00	1,444.94	1,209.85	1,199.74	7.87	4.46	2.53	654.98	2,071.69	1,849.09	1,839.09	10.00	184.860		
1,600.00	1,532.39	1,279.00	1,266.78	8.80	4.79	3.13	642.93	2,083.59	1,811.23	1,800.47	10.76	168.265		
1,700.00	1,618.11	1,345.37	1,331.06	9.81	5.11	3.75	631.71	2,095.73	1,771.50	1,759.98	11.53	153.678		
1,800.00	1,701.97	1,412.73	1,396.03	10.89	5.45	4.44	620.00	2,109.09	1,730.08	1,717.77	12.31	140.552		
1,900.00	1,783.88	1,487.41	1,467.71	12.04	5.84	5.31	606.19	2,124.86	1,686.73	1,673.57	13.15	128.254		
2,000.00	1,863.74	1,577.39	1,553.91	13.26	6.34	6.46	588.88	2,144.00	1,640.67	1,626.57	14.09	116.405		
2,100.00	1,941.45	1,655.54	1,628.77	14.55	6.77	7.58	573.83	2,160.67	1,592.04	1,577.04	15.00	106.166		
2,200.00	2,016.92	1,745.42	1,714.91	15.92	7.28	8.99	556.68	2,179.70	1,540.80	1,524.82	15.98	96.449		
2,292.11	2,084.36	1,808.96	1,775.85	17.25	7.65	10.15	544.66	2,193.14	1,491.45	1,474.65	16.80	88.773		
2,300.00	2,090.06	1,814.27	1,780.93	17.36	7.68	10.23	543.66	2,194.28	1,487.16	1,470.29	16.88	88.128		
2,400.00	2,162.18	1,900.27	1,863.37	18.84	8.17	11.63	527.63	2,212.81	1,433.21	1,415.33	17.88	80.162		
2,500.00	2,234.31	1,983.63	1,943.46	20.33	8.66	13.09	512.16	2,230.00	1,379.12	1,360.21	18.91	72.939		
2,600.00	2,306.43	2,054.30	2,011.30	21.83	9.07	14.41	499.02	2,244.79	1,325.99	1,306.07	19.92	66.561		
2,700.00	2,378.56	2,122.43	2,076.58	23.33	9.47	15.76	486.27	2,259.56	1,274.23	1,253.25	20.98	60.742		
2,800.00	2,450.68	2,217.42	2,167.45	24.84	10.04	17.83	467.68	2,280.05	1,223.27	1,201.01	22.26	54.959		
2,900.00	2,522.81	2,299.56	2,246.03	26.36	10.54	19.80	450.83	2,297.01	1,172.62	1,149.06	23.56	49.767		
3,000.00	2,594.93	2,370.90	2,314.33	27.88	10.97	21.62	436.46	2,311.77	1,123.24	1,098.34	24.89	45.123		
3,100.00	2,667.06	2,445.67	2,385.94	29.40	11.42	23.61	422.14	2,327.80	1,075.77	1,049.43	26.34	40.843		
3,200.00	2,739.18	2,527.05	2,463.89	30.92	11.92	25.95	406.37	2,345.09	1,029.70	1,001.74	27.96	36.834		
3,300.00	2,811.31	2,603.72	2,537.21	32.45	12.39	28.34	390.87	2,361.29	985.38	955.69	29.69	33.188		
3,400.00	2,883.43	2,682.94	2,612.95	33.98	12.87	30.98	374.83	2,378.04	943.15	911.55	31.60	29.843		
3,500.00	2,955.56	2,761.45	2,688.13	35.51	13.35	33.73	359.52	2,394.71	903.18	869.51	33.66	26.830		
3,600.00	3,027.68	2,841.05	2,764.41	37.04	13.84	36.68	344.34	2,411.66	865.76	829.86	35.90	24.115		
3,700.00	3,099.81	2,926.00	2,845.85	38.57	14.35	40.05	327.95	2,429.42	831.05	792.66	38.39	21.649		
3,800.00	3,171.93	3,008.02	2,924.67	40.11	14.85	43.53	312.03	2,445.59	798.80	757.77	41.04	19.465		
3,900.00	3,244.06	3,078.18	2,992.03	41.64	15.27	46.62	298.81	2,460.05	770.80	727.11	43.69	17.643		
4,000.00	3,316.18	3,155.24	3,065.91	43.18	15.74	50.15	284.09	2,476.29	747.36	700.80	46.56	16.051		
4,100.00	3,388.31	3,237.95	3,145.20	44.71	16.24	54.11	268.02	2,493.46	728.41	678.78	49.64	14.675		
4,200.00	3,460.43	3,318.37	3,222.46	46.25	16.73	58.04	253.09	2,510.07	713.89	661.16	52.73	13.538		
4,300.00	3,532.56	3,396.29	3,297.32	47.79	17.20	61.94	238.59	2,526.11	704.52	648.73	55.79	12.627		
4,400.00	3,604.68	3,471.85	3,369.88	49.33	17.66	65.76	224.49	2,541.78	700.67	641.91	58.75	11.926		
4,413.86	3,614.68	3,481.66	3,379.29	49.54	17.72	66.26	222.61	2,543.82	700.60	641.46	59.14	11.846 CC, ES		
4,500.00	3,676.81	3,542.16	3,437.25	50.87	18.09	69.35	210.63	2,556.36	702.98	641.50	61.49	11.433		
4,600.00	3,748.93	3,622.77	3,514.40	52.41	18.59	73.42	194.46	2,573.25	711.13	646.87	64.26	11.067		
4,700.00	3,821.06	3,710.93	3,598.92	53.95	19.13	77.76	177.65	2,591.88	723.94	656.96	66.98	10.808		
4,800.00	3,893.18	3,784.36	3,669.42	55.49	19.58	81.27	164.14	2,607.31	741.19	672.04	69.15	10.718 SF		
4,900.00	3,965.31	3,857.91	3,739.82	57.03	20.03	84.68	149.79	2,623.04	763.96	692.89	71.08	10.748		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,938.68	3,817.23	58.58	20.53	88.29	133.99	2,639.80	790.90	717.96	72.94	10.843		
5,100.00	4,109.56	4,017.36	3,892.57	60.12	21.01	91.61	118.78	2,656.63	821.58	747.04	74.55	11.021		
5,200.00	4,181.68	4,093.52	3,965.45	61.66	21.49	94.65	103.99	2,673.06	855.73	779.81	75.92	11.271		
5,300.00	4,253.81	4,192.57	4,060.51	63.20	22.09	98.38	85.50	2,693.86	892.30	814.63	77.67	11.488		
5,400.00	4,325.93	4,266.42	4,131.54	64.75	22.54	100.98	72.66	2,709.46	930.48	851.78	78.70	11.823		
5,500.00	4,398.06	4,335.62	4,197.97	66.29	22.96	103.28	59.94	2,724.10	971.78	892.26	79.53	12.220		
5,600.00	4,470.18	4,405.78	4,265.28	67.84	23.39	105.49	46.39	2,738.53	1,015.94	935.66	80.28	12.654		
5,700.00	4,542.31	4,486.19	4,342.15	69.38	23.89	107.81	30.55	2,755.97	1,062.09	980.83	81.26	13.070		
5,800.00	4,614.43	4,548.14	4,401.20	70.92	24.29	109.47	17.86	2,769.80	1,110.27	1,028.50	81.76	13.579		
5,900.00	4,686.56	4,615.70	4,465.46	72.47	24.73	111.17	3.16	2,784.56	1,160.81	1,078.42	82.38	14.090		
6,000.00	4,758.68	4,700.90	4,546.29	74.01	25.29	113.14	-15.80	2,803.67	1,212.78	1,129.32	83.46	14.532		
6,100.00	4,830.81	4,801.86	4,642.91	75.56	25.92	115.38	-35.86	2,825.02	1,264.12	1,179.29	84.83	14.902		
6,200.00	4,902.93	4,878.95	4,717.01	77.10	26.39	117.02	-50.52	2,840.38	1,316.17	1,230.59	85.58	15.379		
6,300.00	4,975.06	4,962.31	4,797.50	78.65	26.87	118.73	-65.78	2,855.82	1,368.97	1,282.55	86.42	15.841		
6,400.00	5,047.18	5,054.77	4,887.37	80.19	27.38	120.60	-81.22	2,871.10	1,422.05	1,334.71	87.35	16.281		
6,500.00	5,119.31	5,174.33	5,004.36	81.74	27.98	122.94	-97.91	2,889.15	1,474.50	1,385.87	88.63	16.636		
6,600.00	5,191.43	5,277.29	5,105.98	83.28	28.43	124.96	-108.15	2,902.12	1,525.74	1,436.32	89.42	17.062		
6,700.00	5,263.56	5,353.92	5,182.03	84.83	28.73	126.49	-114.14	2,909.30	1,577.60	1,487.90	89.70	17.588		
6,800.00	5,335.68	5,436.73	5,264.47	86.37	29.03	128.13	-119.36	2,915.19	1,630.24	1,540.28	89.96	18.122		
6,900.00	5,407.81	5,519.42	5,346.98	87.92	29.29	129.77	-123.03	2,919.10	1,683.50	1,593.39	90.11	18.682		
7,000.00	5,479.93	5,612.89	5,440.39	89.47	29.55	131.60	-125.23	2,921.67	1,737.18	1,646.92	90.26	19.246		
7,100.00	5,552.06	5,689.86	5,517.33	91.01	29.75	133.07	-125.89	2,923.04	1,791.31	1,701.09	90.22	19.855		
7,200.00	5,624.18	5,763.08	5,590.55	92.56	29.93	134.43	-126.05	2,923.73	1,846.31	1,756.18	90.13	20.486		
7,300.00	5,696.31	5,832.06	5,659.54	94.10	30.10	135.67	-125.97	2,923.99	1,902.25	1,812.25	89.99	21.138		
7,400.00	5,768.43	5,895.50	5,722.97	95.65	30.24	136.77	-126.03	2,924.01	1,959.28	1,869.46	89.82	21.813		
7,500.00	5,840.56	5,983.94	5,811.42	97.20	30.45	138.23	-126.04	2,924.11	2,017.01	1,927.16	89.85	22.448		
7,600.00	5,912.68	6,051.27	5,878.74	98.74	30.60	139.29	-125.73	2,924.28	2,075.11	1,985.37	89.74	23.125		
7,700.00	5,984.81	6,115.11	5,942.58	100.29	30.74	140.26	-125.46	2,924.01	2,134.18	2,044.58	89.60	23.820		
7,800.00	6,056.93	6,182.29	6,009.76	101.84	30.89	141.25	-125.29	2,923.59	2,194.05	2,104.56	89.49	24.516		
7,900.00	6,129.06	6,265.49	6,092.96	103.38	31.07	142.41	-125.11	2,923.25	2,254.40	2,164.86	89.54	25.177		
8,000.00	6,201.18	6,334.94	6,162.41	104.93	31.23	143.33	-124.93	2,923.23	2,315.05	2,225.53	89.51	25.862		
8,100.00	6,273.31	6,400.27	6,227.74	106.48	31.38	144.16	-124.89	2,923.10	2,376.36	2,286.88	89.47	26.559		
8,200.00	6,345.43	6,464.87	6,292.34	108.02	31.52	144.96	-124.70	2,922.55	2,438.31	2,348.88	89.43	27.265		
8,300.00	6,417.56	6,599.41	6,426.86	109.57	31.84	146.53	-123.07	2,922.84	2,499.47	2,409.51	89.96	27.784		
8,400.00	6,489.68	6,667.43	6,494.87	111.12	32.01	147.26	-122.30	2,923.88	2,560.56	2,470.53	90.03	28.441		
8,500.00	6,561.81	6,727.18	6,554.61	112.66	32.16	147.88	-121.84	2,924.70	2,622.26	2,532.21	90.05	29.119		
8,600.00	6,633.93	6,800.00	6,653.01	114.21	37.16	148.85	-121.01	2,926.52	2,683.93	2,588.76	95.16	28.204		
8,700.00	6,706.06	6,892.88	6,720.26	115.76	32.60	149.47	-120.32	2,928.21	2,745.51	2,654.95	90.56	30.317		
8,800.00	6,778.18	6,940.00	6,767.38	117.30	32.72	149.90	-120.03	2,928.74	2,808.21	2,717.68	90.53	31.020		
8,900.00	6,850.31	6,982.19	6,809.57	118.85	32.83	150.29	-119.95	2,928.81	2,871.89	2,781.44	90.45	31.751		
9,000.00	6,922.43	7,034.59	6,861.96	120.40	32.96	150.75	-120.08	2,928.66	2,936.32	2,845.86	90.47	32.457		
9,100.00	6,994.56	7,109.97	6,937.34	121.95	33.14	151.39	-120.23	2,928.17	3,001.18	2,910.49	90.69	33.092		
9,200.00	7,066.68	7,185.66	7,013.03	123.49	33.32	152.02	-120.04	2,927.49	3,066.17	2,975.24	90.92	33.723		
9,300.00	7,138.81	7,264.05	7,091.41	125.04	33.50	152.66	-119.48	2,926.65	3,131.25	3,040.07	91.18	34.342		
9,392.50	7,205.52	7,335.32	7,162.67	126.47	33.67	153.23	-118.52	2,925.73	3,191.46	3,100.06	91.41	34.915		
9,400.00	7,210.94	7,340.53	7,167.88	126.59	33.68	152.03	-118.46	2,925.68	3,196.33	3,104.91	91.42	34.963		
9,450.00	7,247.42	7,375.73	7,203.07	127.35	33.76	144.18	-118.17	2,925.39	3,227.48	3,135.98	91.50	35.272		
9,500.00	7,284.35	7,411.54	7,238.89	128.10	33.85	136.59	-118.09	2,925.25	3,256.28	3,164.72	91.56	35.564		
9,550.00	7,321.43	7,442.42	7,269.76	128.83	33.93	129.29	-118.09	2,925.14	3,282.61	3,191.06	91.55	35.857		
9,600.00	7,358.38	7,473.20	7,300.54	129.52	34.00	122.39	-118.05	2,924.94	3,306.34	3,214.85	91.49	36.138		
9,650.00	7,394.93	7,503.44	7,330.78	130.16	34.08	115.99	-117.97	2,924.63	3,327.37	3,235.97	91.40	36.406		
9,700.00	7,430.79	7,551.77	7,379.11	130.76	34.19	110.39	-117.81	2,924.18	3,345.50	3,254.07	91.42	36.593		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,599.59	7,426.93	131.30	34.31	105.43	-117.67	2,923.98	3,360.57	3,269.15	91.42	36.761		
9,800.00	7,499.38	7,637.52	7,464.86	131.78	34.41	101.01	-117.52	2,923.92	3,372.59	3,281.30	91.29	36.945		
9,850.00	7,531.58	7,673.98	7,501.32	132.21	34.50	97.23	-117.33	2,923.88	3,381.59	3,290.48	91.11	37.116		
9,900.00	7,562.06	7,708.39	7,535.73	132.57	34.58	94.07	-117.09	2,923.86	3,387.58	3,296.70	90.88	37.277		
9,950.00	7,590.58	7,731.43	7,558.76	132.87	34.65	91.37	-117.02	2,923.88	3,390.63	3,300.12	90.51	37.460		
10,000.00	7,616.93	7,755.69	7,583.03	133.11	34.71	89.26	-116.99	2,923.92	3,390.78	3,300.65	90.13	37.620		
10,050.00	7,640.90	7,777.99	7,605.32	133.29	34.77	87.67	-117.02	2,923.98	3,388.07	3,298.36	89.71	37.769		
10,100.00	7,662.32	7,798.50	7,625.84	133.42	34.83	86.57	-117.10	2,924.06	3,382.56	3,293.32	89.24	37.903		
10,150.00	7,681.01	7,816.67	7,644.01	133.50	34.88	85.94	-117.16	2,924.12	3,374.33	3,285.59	88.74	38.023		
10,200.00	7,696.85	7,832.07	7,659.41	133.52	34.92	85.74	-117.21	2,924.16	3,363.46	3,275.25	88.21	38.131		
10,250.00	7,709.70	7,844.59	7,671.93	133.51	34.96	85.96	-117.25	2,924.20	3,350.05	3,262.41	87.64	38.225		
10,300.00	7,719.47	7,854.14	7,681.47	133.46	34.99	86.58	-117.28	2,924.22	3,334.20	3,247.15	87.05	38.302		
10,350.00	7,726.09	7,860.64	7,687.98	133.37	35.00	87.62	-117.30	2,924.23	3,316.04	3,229.60	86.44	38.361		
10,400.00	7,729.50	7,864.06	7,691.40	133.26	35.01	89.06	-117.31	2,924.24	3,295.68	3,209.84	85.83	38.397		
10,427.79	7,730.00	7,864.63	7,691.96	133.18	35.01	90.04	-117.32	2,924.24	3,283.45	3,197.96	85.49	38.407		
10,500.00	7,730.00	7,864.84	7,692.18	132.98	35.02	90.04	-117.32	2,924.24	3,251.51	3,166.89	84.62	38.424		
10,600.00	7,730.00	7,865.13	7,692.47	132.72	35.02	90.05	-117.32	2,924.24	3,209.44	3,125.97	83.48	38.447		
10,700.00	7,730.00	7,865.42	7,692.76	132.47	35.02	90.05	-117.32	2,924.25	3,169.97	3,087.56	82.42	38.463		
10,800.00	7,730.00	7,865.71	7,693.05	132.22	35.02	90.06	-117.32	2,924.25	3,133.19	3,051.73	81.46	38.463		
10,900.00	7,730.00	7,866.00	7,693.34	131.99	35.02	90.07	-117.32	2,924.25	3,099.21	3,018.58	80.63	38.437		
11,000.00	7,730.00	7,866.29	7,693.63	131.77	35.02	90.07	-117.32	2,924.25	3,068.11	2,988.16	79.95	38.375		
11,100.00	7,730.00	7,866.58	7,693.92	131.56	35.02	90.08	-117.32	2,924.25	3,039.98	2,960.54	79.44	38.270		
11,200.00	7,730.00	7,866.87	7,694.20	131.36	35.02	90.08	-117.32	2,924.25	3,014.91	2,935.80	79.11	38.112		
11,300.00	7,730.00	7,867.15	7,694.49	131.17	35.02	90.09	-117.32	2,924.25	2,992.97	2,913.99	78.97	37.899		
11,400.00	7,730.00	7,867.44	7,694.78	130.99	35.02	90.09	-117.33	2,924.25	2,974.23	2,895.18	79.05	37.627		
11,500.00	7,730.00	7,867.73	7,695.07	130.82	35.02	90.10	-117.33	2,924.25	2,958.75	2,879.42	79.33	37.298		
11,600.00	7,730.00	7,868.01	7,695.35	130.66	35.02	90.10	-117.33	2,924.25	2,946.59	2,866.77	79.82	36.916		
11,700.00	7,730.00	7,868.30	7,695.64	130.51	35.03	90.11	-117.33	2,924.25	2,937.79	2,857.28	80.51	36.491		
11,800.00	7,730.00	7,868.59	7,695.93	130.37	35.03	90.12	-117.33	2,924.25	2,932.37	2,850.98	81.38	36.032		
11,900.00	7,730.00	7,868.87	7,696.21	130.24	35.03	90.12	-117.33	2,924.25	2,930.35	2,847.92	82.43	35.550		
11,909.07	7,730.00	7,868.90	7,696.24	130.23	35.03	90.12	-117.33	2,924.25	2,930.34	2,847.80	82.53	35.504		
12,000.00	7,730.00	7,869.16	7,696.50	130.13	35.03	90.13	-117.33	2,924.25	2,931.75	2,848.12	83.63	35.057		
12,100.00	7,730.00	7,869.44	7,696.78	130.02	35.03	90.13	-117.33	2,924.25	2,936.55	2,851.59	84.96	34.565		
12,200.00	7,730.00	7,869.73	7,697.06	129.93	35.03	90.14	-117.33	2,924.25	2,944.74	2,858.35	86.40	34.085		
12,300.00	7,730.00	7,870.01	7,697.35	129.85	35.03	90.14	-117.33	2,924.26	2,956.30	2,868.38	87.92	33.624		
12,400.00	7,730.00	7,870.29	7,697.63	129.77	35.03	90.15	-117.33	2,924.26	2,971.18	2,881.66	89.52	33.191		
12,500.00	7,730.00	7,870.57	7,697.91	129.71	35.03	90.15	-117.33	2,924.26	2,989.33	2,898.17	91.16	32.792		
12,600.00	7,730.00	7,870.86	7,698.19	129.66	35.03	90.16	-117.34	2,924.26	3,010.69	2,917.86	92.83	32.431		
12,700.00	7,730.00	7,871.14	7,698.48	129.63	35.03	90.17	-117.34	2,924.26	3,035.20	2,940.68	94.52	32.111		
12,800.00	7,730.00	7,871.42	7,698.76	129.60	35.03	90.17	-117.34	2,924.26	3,062.78	2,966.57	96.21	31.834		
12,900.00	7,730.00	7,871.70	7,699.04	129.59	35.03	90.18	-117.34	2,924.26	3,093.35	2,995.46	97.89	31.600		
13,000.00	7,730.00	7,871.98	7,699.32	129.59	35.04	90.18	-117.34	2,924.26	3,126.82	3,027.27	99.55	31.410		
13,100.00	7,730.00	7,872.26	7,699.60	129.60	35.04	90.19	-117.34	2,924.26	3,163.10	3,061.92	101.18	31.263		
13,200.00	7,730.00	7,872.54	7,699.88	129.63	35.04	90.19	-117.34	2,924.26	3,202.09	3,099.32	102.77	31.158		
13,300.00	7,730.00	7,872.82	7,700.16	129.66	35.04	90.20	-117.34	2,924.26	3,243.69	3,139.37	104.32	31.094		
13,400.00	7,730.00	7,873.10	7,700.44	129.72	35.04	90.20	-117.34	2,924.26	3,287.81	3,181.99	105.82	31.070		
13,500.00	7,730.00	7,873.38	7,700.71	129.78	35.04	90.21	-117.34	2,924.26	3,334.35	3,227.08	107.27	31.083		
13,600.00	7,730.00	7,873.65	7,700.99	129.86	35.04	90.21	-117.34	2,924.26	3,383.21	3,274.54	108.67	31.133		
13,700.00	7,730.00	7,873.93	7,701.27	129.96	35.04	90.22	-117.34	2,924.26	3,434.28	3,324.26	110.02	31.216		
13,800.00	7,730.00	7,874.21	7,701.55	130.07	35.04	90.23	-117.35	2,924.26	3,487.47	3,376.16	111.31	31.332		
13,900.00	7,730.00	7,874.49	7,701.82	130.19	35.04	90.23	-117.35	2,924.26	3,542.69	3,430.15	112.54	31.479		
14,000.00	7,730.00	7,874.76	7,702.10	130.33	35.04	90.24	-117.35	2,924.27	3,599.84	3,486.11	113.72	31.654		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,875.04	7,702.38	130.49	35.04	90.24	-117.35	2,924.27	3,658.83	3,543.97	114.85	31.857		
14,200.00	7,730.00	7,875.31	7,702.65	130.67	35.04	90.25	-117.35	2,924.27	3,719.57	3,603.64	115.93	32.085		
14,300.00	7,730.00	7,875.59	7,702.93	130.86	35.05	90.25	-117.35	2,924.27	3,781.98	3,665.03	116.95	32.338		
14,400.00	7,730.00	7,875.86	7,703.20	131.07	35.05	90.26	-117.35	2,924.27	3,845.98	3,728.05	117.93	32.613		
14,500.00	7,730.00	7,876.14	7,703.47	131.30	35.05	90.26	-117.35	2,924.27	3,911.49	3,792.63	118.85	32.910		
14,600.00	7,730.00	7,876.41	7,703.75	131.55	35.05	90.27	-117.35	2,924.27	3,978.43	3,858.70	119.74	33.227		
14,700.00	7,730.00	7,876.68	7,704.02	131.82	35.05	90.27	-117.35	2,924.27	4,046.74	3,926.17	120.57	33.563		
14,800.00	7,730.00	7,876.95	7,704.29	132.11	35.05	90.28	-117.35	2,924.27	4,116.34	3,994.98	121.37	33.916		
14,900.00	7,730.00	7,877.23	7,704.57	132.42	35.05	90.28	-117.35	2,924.27	4,187.18	4,065.06	122.12	34.287		
15,000.00	7,730.00	7,877.50	7,704.84	132.75	35.05	90.29	-117.36	2,924.27	4,259.18	4,136.35	122.84	34.673		
15,100.00	7,730.00	7,877.77	7,705.11	133.10	35.05	90.30	-117.36	2,924.27	4,332.30	4,208.78	123.52	35.075		
15,200.00	7,730.00	7,878.04	7,705.38	133.48	35.05	90.30	-117.36	2,924.27	4,406.47	4,282.31	124.16	35.490		
15,300.00	7,730.00	7,878.31	7,705.65	133.88	35.05	90.31	-117.36	2,924.27	4,481.65	4,356.88	124.77	35.918		
15,400.00	7,730.00	7,878.58	7,705.92	134.31	35.05	90.31	-117.36	2,924.27	4,557.78	4,432.43	125.35	36.359		
15,500.00	7,730.00	7,878.85	7,706.19	134.76	35.05	90.32	-117.36	2,924.27	4,634.82	4,508.91	125.90	36.812		
15,600.00	7,730.00	7,879.12	7,706.46	135.23	35.06	90.32	-117.36	2,924.27	4,712.72	4,586.29	126.43	37.276		
15,700.00	7,730.00	7,879.39	7,706.73	135.73	35.06	90.33	-117.36	2,924.27	4,791.44	4,664.52	126.92	37.750		
15,800.00	7,730.00	7,879.66	7,707.00	136.26	35.06	90.33	-117.36	2,924.27	4,870.94	4,743.55	127.40	38.235		
15,900.00	7,730.00	7,879.93	7,707.27	136.81	35.06	90.34	-117.36	2,924.28	4,951.19	4,823.34	127.84	38.728		
16,000.00	7,730.00	7,880.21	7,707.55	137.39	35.06	90.34	-117.36	2,924.28	5,032.14	4,903.87	128.27	39.231		
16,100.00	7,730.00	7,880.50	7,707.84	138.00	35.06	90.35	-117.36	2,924.28	5,113.77	4,985.09	128.67	39.742		
16,200.00	7,730.00	7,880.79	7,708.13	138.63	35.06	90.35	-117.36	2,924.28	5,196.04	5,066.98	129.06	40.261		
16,300.00	7,730.00	7,881.07	7,708.41	139.30	35.06	90.36	-117.37	2,924.28	5,278.92	5,149.49	129.43	40.787		
16,400.00	7,730.00	7,881.36	7,708.69	139.99	35.06	90.37	-117.37	2,924.28	5,362.38	5,232.61	129.77	41.321		
16,500.00	7,730.00	7,881.64	7,708.98	140.70	35.06	90.37	-117.37	2,924.28	5,446.40	5,316.30	130.11	41.861		
16,600.00	7,730.00	7,881.92	7,709.26	141.45	35.06	90.38	-117.37	2,924.28	5,530.96	5,400.54	130.42	42.408		
16,700.00	7,730.00	7,882.20	7,709.54	142.22	35.06	90.38	-117.37	2,924.28	5,616.02	5,485.30	130.72	42.961		
16,800.00	7,730.00	7,882.48	7,709.82	143.03	35.06	90.39	-117.37	2,924.28	5,701.57	5,570.56	131.01	43.520		
16,900.00	7,730.00	7,882.75	7,710.09	143.86	35.07	90.39	-117.37	2,924.28	5,787.58	5,656.29	131.28	44.084		
17,000.00	7,730.00	7,883.03	7,710.37	144.71	35.07	90.40	-117.37	2,924.28	5,874.03	5,742.48	131.55	44.654		
17,100.00	7,730.00	7,883.30	7,710.64	145.60	35.07	90.40	-117.37	2,924.28	5,960.91	5,829.11	131.79	45.229		
17,200.00	7,730.00	7,883.57	7,710.91	146.51	35.07	90.41	-117.37	2,924.28	6,048.19	5,916.15	132.03	45.808		
17,300.00	7,730.00	7,883.85	7,711.18	147.44	35.07	90.41	-117.37	2,924.28	6,135.86	6,003.60	132.26	46.392		
17,400.00	7,730.00	7,884.11	7,711.45	148.40	35.07	90.42	-117.37	2,924.28	6,223.90	6,091.42	132.48	46.980		
17,500.00	7,730.00	7,884.38	7,711.72	149.39	35.07	90.42	-117.38	2,924.28	6,312.30	6,179.61	132.69	47.572		
17,600.00	7,730.00	7,884.65	7,711.99	150.40	35.07	90.43	-117.38	2,924.28	6,401.04	6,268.15	132.89	48.169		
17,700.00	7,730.00	7,884.91	7,712.25	151.44	35.07	90.44	-117.38	2,924.29	6,490.10	6,357.02	133.08	48.769		
17,800.00	7,730.00	7,885.18	7,712.52	152.50	35.07	90.44	-117.38	2,924.29	6,579.49	6,446.22	133.26	49.372		
17,900.00	7,730.00	7,885.44	7,712.78	153.58	35.07	90.45	-117.38	2,924.29	6,669.17	6,535.73	133.44	49.979		
18,000.00	7,730.00	7,885.70	7,713.04	154.68	35.07	90.45	-117.38	2,924.29	6,759.14	6,625.53	133.61	50.590		
18,100.00	7,730.00	7,885.96	7,713.30	155.80	35.07	90.46	-117.38	2,924.29	6,849.39	6,715.62	133.77	51.203		
18,200.00	7,730.00	7,886.22	7,713.56	156.95	35.08	90.46	-117.38	2,924.29	6,939.91	6,805.98	133.93	51.819		
18,300.00	7,730.00	7,886.48	7,713.82	158.11	35.08	90.47	-117.38	2,924.29	7,030.68	6,896.61	134.08	52.438		
18,400.00	7,730.00	7,886.73	7,714.07	159.30	35.08	90.47	-117.38	2,924.29	7,121.70	6,987.49	134.22	53.060		
18,500.00	7,730.00	7,886.99	7,714.33	160.50	35.08	90.48	-117.38	2,924.29	7,212.96	7,078.61	134.36	53.685		
18,600.00	7,730.00	7,887.24	7,714.58	161.72	35.08	90.48	-117.38	2,924.29	7,304.45	7,169.96	134.49	54.312		
18,700.00	7,730.00	7,887.50	7,714.83	162.96	35.08	90.49	-117.38	2,924.29	7,396.16	7,261.54	134.62	54.941		
18,800.00	7,730.00	7,887.75	7,715.08	164.21	35.08	90.49	-117.38	2,924.29	7,488.08	7,353.34	134.74	55.573		
18,900.00	7,730.00	7,888.00	7,715.33	165.48	35.08	90.50	-117.39	2,924.29	7,580.21	7,445.34	134.86	56.206		
19,000.00	7,730.00	7,888.24	7,715.58	166.76	35.08	90.50	-117.39	2,924.29	7,672.53	7,537.55	134.98	56.842		
19,100.00	7,730.00	7,888.49	7,715.83	168.06	35.08	90.51	-117.39	2,924.29	7,765.04	7,629.95	135.09	57.480		
19,200.00	7,730.00	7,888.74	7,716.08	169.38	35.08	90.51	-117.39	2,924.29	7,857.74	7,722.54	135.20	58.120		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,888.98	7,716.32	170.70	35.08	90.51	-117.39	2,924.29	7,950.61	7,815.31	135.30	58.761	
19,400.00	7,730.00	7,889.23	7,716.57	172.04	35.08	90.52	-117.39	2,924.29	8,043.66	7,908.25	135.41	59.404	
19,500.00	7,730.00	7,889.47	7,716.81	173.40	35.08	90.52	-117.39	2,924.30	8,136.87	8,001.36	135.50	60.049	
19,600.00	7,730.00	7,889.71	7,717.05	174.76	35.09	90.53	-117.39	2,924.30	8,230.24	8,094.64	135.60	60.696	
19,700.00	7,730.00	7,889.95	7,717.29	176.14	35.09	90.53	-117.39	2,924.30	8,323.76	8,188.07	135.69	61.344	
19,800.00	7,730.00	7,890.19	7,717.53	177.52	35.09	90.54	-117.39	2,924.30	8,417.43	8,281.65	135.78	61.993	
19,900.00	7,730.00	7,890.43	7,717.77	178.92	35.09	90.54	-117.39	2,924.30	8,511.25	8,375.38	135.87	62.644	
20,000.00	7,730.00	7,890.66	7,718.00	180.33	35.09	90.55	-117.39	2,924.30	8,605.20	8,469.25	135.95	63.296	
20,100.00	7,730.00	7,890.90	7,718.24	181.75	35.09	90.55	-117.39	2,924.30	8,699.29	8,563.26	136.03	63.950	
20,184.95	7,730.00	7,891.10	7,718.44	182.96	35.09	90.56	-117.39	2,924.30	8,779.32	8,643.22	136.10	64.506	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.99	747.72	5,314.57	5,367.51					
100.00	100.00	1,159.74	1,141.90	0.13	4.83	80.85	833.60	5,172.93	5,358.43	5,353.59	4.84	1,107.893		
200.00	199.98	1,200.17	1,181.01	0.49	5.05	10.41	838.48	5,163.92	5,336.38	5,331.17	5.21	1,023.405		
300.00	299.84	1,246.00	1,225.47	0.86	5.30	10.43	843.79	5,154.15	5,311.96	5,306.23	5.73	926.640		
400.00	399.45	1,322.14	1,299.47	1.23	5.70	10.42	852.42	5,138.44	5,284.88	5,278.47	6.41	824.425		
500.00	498.70	1,434.29	1,408.38	1.63	6.31	10.37	865.80	5,115.28	5,254.61	5,247.35	7.27	723.112		
600.00	597.47	1,627.06	1,594.69	2.05	7.39	10.18	892.16	5,073.42	5,220.70	5,212.17	8.53	612.213		
700.00	695.62	1,694.93	1,660.15	2.51	7.78	10.21	901.26	5,057.98	5,182.26	5,173.06	9.20	563.107		
800.00	793.06	1,784.74	1,746.82	3.00	8.30	10.23	913.40	5,037.79	5,140.97	5,130.98	9.99	514.787		
900.00	889.64	1,854.55	1,814.24	3.53	8.69	10.30	922.55	5,022.18	5,096.66	5,085.99	10.68	477.368		
1,000.00	985.27	1,900.00	1,858.26	4.12	8.95	10.43	928.08	5,012.29	5,049.81	5,038.55	11.26	448.541		
1,100.00	1,079.82	1,960.97	1,917.46	4.75	9.28	10.56	935.02	4,999.49	5,000.51	4,988.60	11.91	420.001		
1,200.00	1,173.17	2,027.94	1,982.68	5.44	9.64	10.72	942.21	4,986.06	4,948.88	4,936.30	12.58	393.306		
1,300.00	1,265.21	2,155.57	2,106.75	6.18	10.32	10.83	956.71	4,959.89	4,894.13	4,880.60	13.52	361.873		
1,400.00	1,355.84	2,239.29	2,187.92	6.99	10.79	11.01	966.84	4,942.07	4,835.97	4,821.68	14.29	338.513		
1,500.00	1,444.94	2,302.46	2,249.17	7.87	11.13	11.23	974.65	4,928.73	4,775.24	4,760.28	14.96	319.152		
1,600.00	1,532.39	2,358.56	2,303.64	8.80	11.44	11.50	981.43	4,917.15	4,712.17	4,696.55	15.61	301.848		
1,700.00	1,618.11	2,431.01	2,374.03	9.81	11.84	11.79	990.19	4,902.41	4,646.69	4,630.36	16.33	284.561		
1,800.00	1,701.97	2,514.63	2,455.20	10.89	12.30	12.11	1,000.74	4,885.26	4,578.63	4,561.54	17.10	267.834		
1,900.00	1,783.88	2,583.40	2,521.88	12.04	12.67	12.49	1,009.54	4,870.98	4,507.94	4,490.15	17.80	253.267		
2,000.00	1,863.74	2,634.65	2,571.66	13.26	12.95	12.93	1,015.88	4,860.53	4,435.10	4,416.67	18.43	240.608		
2,100.00	1,941.45	2,691.69	2,627.15	14.55	13.26	13.44	1,022.54	4,849.15	4,360.18	4,341.10	19.08	228.499		
2,200.00	2,016.92	2,753.77	2,687.66	15.92	13.59	14.04	1,029.11	4,836.96	4,283.16	4,263.41	19.74	216.925		
2,292.11	2,084.36	2,292.11	2,823.49	17.25	10.95	14.67	1,046.37	4,807.63	4,209.74	4,191.93	17.80	236.437		
2,300.00	2,090.06	2,300.00	2,827.95	17.36	10.99	14.68	1,046.96	4,806.62	4,203.33	4,185.45	17.88	235.148		
2,400.00	2,162.18	2,986.82	2,913.34	18.84	14.89	14.71	1,057.99	4,786.61	4,121.62	4,100.19	21.43	192.287		
2,500.00	2,234.31	3,022.00	2,947.34	20.33	15.09	14.72	1,062.44	4,778.70	4,040.13	4,018.13	22.00	183.643		
2,600.00	2,306.43	3,066.02	2,989.86	21.83	15.35	14.72	1,068.31	4,768.95	3,958.90	3,936.30	22.61	175.112		
2,700.00	2,378.56	3,106.23	3,028.67	23.33	15.58	14.72	1,074.10	4,760.17	3,877.95	3,854.74	23.21	167.059		
2,800.00	2,450.68	3,175.97	3,095.91	24.84	15.98	14.70	1,084.71	4,744.98	3,797.11	3,773.19	23.92	158.760		
2,900.00	2,522.81	3,236.26	3,153.96	26.36	16.34	14.68	1,094.00	4,731.63	3,716.05	3,691.46	24.60	151.078		
3,000.00	2,594.93	3,282.99	3,198.96	27.88	16.61	14.66	1,101.33	4,721.37	3,635.14	3,609.90	25.25	143.991		
3,100.00	2,667.06	3,352.09	3,265.50	29.40	17.01	14.62	1,112.25	4,706.29	3,554.32	3,528.37	25.95	136.946		
3,200.00	2,739.18	3,436.88	3,347.10	30.92	17.51	14.59	1,125.28	4,687.30	3,473.12	3,446.43	26.69	130.120		
3,300.00	2,811.31	3,514.82	3,422.13	32.45	17.97	14.57	1,136.45	4,669.42	3,391.50	3,364.10	27.40	123.771		
3,400.00	2,883.43	3,583.47	3,488.34	33.98	18.37	14.59	1,145.24	4,653.56	3,309.65	3,281.56	28.08	117.848		
3,500.00	2,955.56	3,617.34	3,521.08	35.51	18.57	14.61	1,149.28	4,645.83	3,227.89	3,199.18	28.72	112.397		
3,600.00	3,027.68	3,651.14	3,553.79	37.04	18.76	14.63	1,153.32	4,638.38	3,146.58	3,117.22	29.37	107.149		
3,700.00	3,099.81	3,696.55	3,597.83	38.57	19.01	14.66	1,158.75	4,628.72	3,065.70	3,035.67	30.04	102.070		
3,800.00	3,171.93	3,786.74	3,685.16	40.11	19.52	14.71	1,169.76	4,609.06	2,984.56	2,953.83	30.73	97.131		
3,900.00	3,244.06	3,822.49	3,719.77	41.64	19.72	14.73	1,174.26	4,601.27	2,903.42	2,872.01	31.40	92.452		
4,000.00	3,316.18	3,867.08	3,762.94	43.18	19.97	14.75	1,180.00	4,591.73	2,822.57	2,790.47	32.09	87.947		
4,100.00	3,388.31	3,961.89	3,854.66	44.71	20.51	14.79	1,192.15	4,571.05	2,741.47	2,708.71	32.77	83.670		
4,200.00	3,460.43	4,003.28	3,894.71	46.25	20.74	14.82	1,197.23	4,561.92	2,660.19	2,626.73	33.46	79.499		
4,300.00	3,532.56	4,046.39	3,936.53	47.79	20.98	14.87	1,202.25	4,552.72	2,579.26	2,545.09	34.17	75.481		
4,400.00	3,604.68	4,086.64	3,975.66	49.33	21.20	14.92	1,206.67	4,544.42	2,498.71	2,463.82	34.89	71.612		
4,500.00	3,676.81	4,126.82	4,014.84	50.87	21.41	14.99	1,210.78	4,536.51	2,418.64	2,383.01	35.63	67.881		
4,600.00	3,748.93	4,168.61	4,055.70	52.41	21.62	15.08	1,214.74	4,528.66	2,339.05	2,302.67	36.38	64.294		
4,700.00	3,821.06	4,212.23	4,098.46	53.95	21.83	15.21	1,218.43	4,520.87	2,259.93	2,222.79	37.14	60.848		
4,800.00	3,893.18	4,243.00	4,128.69	55.49	21.98	15.31	1,220.77	4,515.62	2,181.34	2,143.38	37.96	57.458		
4,900.00	3,965.31	4,291.66	4,176.62	57.03	22.20	15.50	1,224.06	4,507.88	2,103.33	2,064.59	38.75	54.284		
5,000.00	4,037.43	4,337.00	4,221.41	58.58	22.40	15.72	1,226.73	4,501.39	2,026.15	1,986.58	39.57	51.206		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,369.65	4,253.73	60.12	22.53	15.89	1,228.48	4,497.15	1,949.73	1,909.27	40.47	48.182		
5,200.00	4,181.68	4,410.28	4,294.02	61.66	22.69	16.12	1,230.53	4,492.35	1,874.17	1,832.81	41.37	45.306		
5,300.00	4,253.81	4,458.95	4,342.37	63.20	22.88	16.42	1,232.77	4,487.24	1,799.43	1,757.17	42.26	42.577		
5,400.00	4,325.93	4,514.58	4,397.70	64.75	23.08	16.83	1,234.85	4,481.83	1,725.19	1,682.03	43.16	39.971		
5,500.00	4,398.06	4,564.20	4,447.10	66.29	23.26	17.23	1,236.39	4,477.43	1,651.53	1,607.40	44.13	37.425		
5,600.00	4,470.18	4,617.00	4,499.72	67.84	23.44	17.69	1,237.97	4,473.37	1,578.68	1,533.55	45.13	34.983		
5,700.00	4,542.31	4,664.54	4,547.14	69.38	23.59	18.15	1,239.13	4,470.28	1,506.68	1,460.47	46.21	32.607		
5,800.00	4,614.43	4,717.10	4,599.63	70.92	23.75	18.73	1,239.87	4,467.51	1,435.58	1,388.25	47.33	30.333		
5,900.00	4,686.56	4,776.00	4,658.48	72.47	23.92	19.48	1,240.04	4,465.02	1,365.27	1,316.78	48.48	28.160		
6,000.00	4,758.68	4,836.21	4,718.65	74.01	24.08	20.34	1,239.63	4,462.98	1,295.67	1,245.94	49.73	26.056		
6,100.00	4,830.81	4,897.99	4,780.41	75.56	24.25	21.30	1,239.51	4,461.29	1,226.78	1,175.73	51.05	24.031		
6,200.00	4,902.93	4,951.84	4,834.25	77.10	24.38	22.20	1,239.53	4,460.38	1,158.92	1,106.38	52.54	22.059		
6,300.00	4,975.06	5,012.35	4,894.75	78.65	24.53	23.31	1,239.46	4,460.21	1,092.36	1,038.24	54.12	20.184		
6,400.00	5,047.18	5,085.76	4,968.16	80.19	24.70	24.81	1,239.34	4,460.19	1,026.40	970.63	55.77	18.405		
6,500.00	5,119.31	5,162.63	5,045.03	81.74	24.89	26.58	1,239.26	4,459.93	960.68	903.09	57.59	16.681		
6,600.00	5,191.43	5,237.12	5,119.52	83.28	25.08	28.53	1,239.21	4,459.35	895.24	835.56	59.68	15.002		
6,700.00	5,263.56	5,309.11	5,191.51	84.83	25.27	30.70	1,239.09	4,458.65	830.35	768.26	62.09	13.374		
6,800.00	5,335.68	5,380.16	5,262.56	86.37	25.45	33.13	1,239.06	4,458.00	766.40	701.53	64.88	11.813		
6,900.00	5,407.81	5,452.63	5,335.02	87.92	25.65	35.99	1,239.06	4,457.30	703.54	635.42	68.13	10.327		
7,000.00	5,479.93	5,525.06	5,407.44	89.47	25.84	39.33	1,238.96	4,456.47	642.05	570.07	71.98	8.920		
7,100.00	5,552.06	5,597.75	5,480.13	91.01	26.03	43.26	1,238.62	4,455.45	582.37	505.77	76.60	7.603		
7,200.00	5,624.18	5,670.19	5,552.56	92.56	26.23	47.89	1,238.01	4,454.15	525.14	442.96	82.18	6.390		
7,300.00	5,696.31	5,742.22	5,624.57	94.10	26.43	53.29	1,237.37	4,452.61	471.37	382.51	88.86	5.304		
7,400.00	5,768.43	5,812.45	5,694.77	95.65	26.62	59.39	1,236.75	4,451.01	422.61	325.87	96.74	4.369		
7,500.00	5,840.56	5,882.56	5,764.86	97.20	26.82	66.36	1,236.08	4,449.41	380.94	275.36	105.58	3.608		
7,600.00	5,912.68	5,952.21	5,834.49	98.74	27.01	74.12	1,235.27	4,447.82	348.99	234.37	114.62	3.045		
7,700.00	5,984.81	6,021.83	5,904.09	100.29	27.20	82.47	1,234.42	4,446.48	329.66	207.41	122.25	2.697		
7,780.71	6,043.02	6,079.13	5,961.38	101.54	27.36	89.58	1,233.74	4,445.50	324.71	198.60	126.11	2.575 CC		
7,800.00	6,056.93	6,092.82	5,975.07	101.84	27.40	91.29	1,233.58	4,445.26	324.99	198.36	126.63	2.566 ES, SF		
7,900.00	6,129.06	6,164.70	6,046.93	103.38	27.59	100.14	1,232.85	4,444.00	335.38	208.60	126.78	2.645		
8,000.00	6,201.18	6,237.15	6,119.37	104.93	27.80	108.58	1,232.45	4,442.78	359.30	235.97	123.33	2.913		
8,100.00	6,273.31	6,310.07	6,192.28	106.48	28.01	116.32	1,232.37	4,441.52	394.25	276.37	117.88	3.344		
8,200.00	6,345.43	6,385.64	6,267.83	108.02	28.24	123.46	1,233.02	4,440.01	437.27	325.40	111.87	3.909		
8,300.00	6,417.56	6,456.78	6,338.95	109.57	28.45	129.33	1,234.10	4,438.53	486.33	380.27	106.06	4.585		
8,400.00	6,489.68	6,527.90	6,410.05	111.12	28.67	134.35	1,234.96	4,437.35	540.14	439.15	100.98	5.349		
8,500.00	6,561.81	6,599.01	6,481.15	112.66	28.88	138.64	1,235.61	4,436.47	597.31	500.58	96.73	6.175		
8,600.00	6,633.93	6,668.63	6,550.77	114.21	29.08	142.20	1,235.84	4,435.86	657.09	563.86	93.24	7.048		
8,700.00	6,706.06	6,740.56	6,622.70	115.76	29.28	145.35	1,235.78	4,435.40	718.77	628.31	90.46	7.946		
8,800.00	6,778.18	6,811.88	6,694.02	117.30	29.48	148.03	1,235.65	4,435.05	781.78	693.56	88.22	8.862		
8,900.00	6,850.31	6,883.17	6,765.31	118.85	29.68	150.34	1,235.26	4,434.84	845.89	759.46	86.43	9.787		
9,000.00	6,922.43	6,955.90	6,838.04	120.40	29.88	152.39	1,234.87	4,434.66	910.78	825.74	85.04	10.710		
9,100.00	6,994.56	7,027.98	6,910.11	121.95	30.07	154.18	1,234.47	4,434.55	976.27	892.33	83.94	11.631		
9,200.00	7,066.68	7,101.36	6,983.49	123.49	30.27	155.78	1,234.01	4,434.54	1,042.24	959.12	83.11	12.540		
9,300.00	7,138.81	7,175.31	7,057.44	125.04	30.47	157.21	1,233.71	4,434.57	1,108.50	1,026.00	82.49	13.437		
9,392.50	7,205.52	7,243.86	7,125.99	126.47	30.66	158.40	1,233.37	4,434.78	1,169.99	1,087.91	82.09	14.253		
9,400.00	7,210.94	7,248.97	7,131.10	126.59	30.67	157.18	1,233.35	4,434.80	1,174.97	1,092.92	82.05	14.321		
9,450.00	7,247.42	7,285.07	7,167.20	127.35	30.77	149.33	1,233.17	4,434.92	1,207.03	1,125.30	81.73	14.769		
9,500.00	7,284.35	7,321.57	7,203.70	128.10	30.86	141.82	1,233.03	4,435.00	1,237.10	1,155.84	81.27	15.223		
9,550.00	7,321.43	7,358.04	7,240.16	128.83	30.97	134.68	1,232.92	4,435.04	1,265.08	1,184.40	80.68	15.681		
9,600.00	7,358.38	7,394.29	7,276.42	129.52	31.07	127.99	1,232.81	4,435.06	1,290.89	1,210.91	79.98	16.140		
9,650.00	7,394.93	7,430.11	7,312.24	130.16	31.17	121.81	1,232.71	4,435.05	1,314.50	1,235.30	79.20	16.598		
9,700.00	7,430.79	7,465.22	7,347.35	130.76	31.27	116.22	1,232.62	4,435.01	1,335.89	1,257.55	78.34	17.052		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,499.35	7,381.48	131.30	31.36	111.23	1,232.53	4,434.94	1,355.08	1,277.64	77.44	17.499		
9,800.00	7,499.38	7,532.37	7,414.50	131.78	31.45	106.87	1,232.45	4,434.86	1,372.09	1,295.58	76.51	17.934		
9,850.00	7,531.58	7,564.10	7,446.23	132.21	31.55	103.12	1,232.36	4,434.78	1,386.97	1,311.38	75.59	18.349		
9,900.00	7,562.06	7,594.18	7,476.31	132.57	31.63	99.94	1,232.24	4,434.70	1,399.78	1,325.08	74.70	18.738		
9,950.00	7,590.58	7,624.11	7,506.24	132.87	31.72	97.35	1,232.11	4,434.63	1,410.60	1,336.67	73.92	19.082		
10,000.00	7,616.93	7,653.86	7,535.99	133.11	31.80	95.30	1,232.00	4,434.61	1,419.44	1,346.14	73.30	19.366		
10,050.00	7,640.90	7,681.02	7,563.15	133.29	31.88	93.68	1,231.90	4,434.66	1,426.41	1,353.61	72.81	19.592		
10,100.00	7,662.32	7,705.35	7,587.48	133.42	31.94	92.43	1,231.83	4,434.75	1,431.63	1,359.14	72.49	19.749		
10,150.00	7,681.01	7,725.34	7,607.47	133.50	32.00	91.46	1,231.78	4,434.85	1,435.21	1,362.86	72.35	19.836		
10,200.00	7,696.85	7,742.44	7,624.56	133.52	32.05	90.78	1,231.72	4,434.95	1,437.26	1,364.80	72.46	19.835		
10,250.00	7,709.70	7,756.40	7,638.53	133.51	32.08	90.34	1,231.66	4,435.05	1,437.88	1,365.04	72.84	19.740		
10,300.00	7,719.47	7,767.12	7,649.24	133.46	32.11	90.13	1,231.62	4,435.13	1,437.16	1,363.66	73.50	19.553		
10,350.00	7,726.09	7,774.47	7,656.59	133.37	32.13	90.12	1,231.59	4,435.19	1,435.16	1,360.72	74.44	19.278		
10,400.00	7,729.50	7,778.39	7,660.51	133.26	32.14	90.28	1,231.57	4,435.22	1,431.95	1,356.29	75.66	18.926		
10,427.79	7,730.00	7,779.06	7,661.19	133.18	32.15	90.45	1,231.57	4,435.22	1,429.65	1,353.20	76.45	18.701		
10,500.00	7,730.00	7,779.41	7,661.54	132.98	32.15	90.46	1,231.57	4,435.23	1,425.04	1,346.20	78.84	18.076		
10,555.08	7,730.00	7,779.68	7,661.81	132.84	32.15	90.48	1,231.56	4,435.23	1,423.97	1,343.02	80.96	17.590		
10,600.00	7,730.00	7,779.90	7,662.03	132.72	32.15	90.48	1,231.56	4,435.23	1,424.68	1,341.86	82.82	17.202		
10,700.00	7,730.00	7,780.39	7,662.52	132.47	32.15	90.50	1,231.56	4,435.23	1,431.33	1,343.98	87.35	16.387		
10,800.00	7,730.00	7,780.89	7,663.01	132.22	32.15	90.52	1,231.56	4,435.24	1,444.88	1,352.72	92.16	15.678		
10,900.00	7,730.00	7,781.38	7,663.51	131.99	32.15	90.54	1,231.56	4,435.24	1,465.15	1,368.09	97.06	15.095		
11,000.00	7,730.00	7,781.88	7,664.01	131.77	32.15	90.56	1,231.55	4,435.25	1,491.86	1,389.98	101.89	14.642		
11,100.00	7,730.00	7,782.38	7,664.51	131.56	32.15	90.58	1,231.55	4,435.25	1,524.68	1,418.16	106.52	14.314		
11,200.00	7,730.00	7,782.89	7,665.01	131.36	32.16	90.60	1,231.55	4,435.26	1,563.21	1,452.33	110.88	14.098		
11,300.00	7,730.00	7,783.39	7,665.52	131.17	32.16	90.62	1,231.55	4,435.26	1,607.05	1,492.12	114.92	13.984		
11,400.00	7,730.00	7,783.90	7,666.03	130.99	32.16	90.64	1,231.54	4,435.26	1,655.77	1,537.14	118.63	13.958		
11,500.00	7,730.00	7,784.42	7,666.54	130.82	32.16	90.67	1,231.54	4,435.27	1,708.96	1,586.98	121.99	14.009		
11,600.00	7,730.00	7,784.93	7,667.06	130.66	32.16	90.69	1,231.54	4,435.27	1,766.22	1,641.21	125.02	14.128		
11,700.00	7,730.00	7,785.45	7,667.58	130.51	32.16	90.71	1,231.54	4,435.28	1,827.16	1,699.43	127.73	14.305		
11,800.00	7,730.00	7,785.97	7,668.10	130.37	32.16	90.73	1,231.54	4,435.28	1,891.43	1,761.28	130.14	14.533		
11,900.00	7,730.00	7,786.50	7,668.62	130.24	32.17	90.75	1,231.53	4,435.29	1,958.69	1,826.40	132.29	14.806		
12,000.00	7,730.00	7,787.02	7,669.15	130.13	32.17	90.77	1,231.53	4,435.29	2,028.66	1,894.46	134.20	15.117		
12,100.00	7,730.00	7,787.55	7,669.68	130.02	32.17	90.79	1,231.53	4,435.30	2,101.06	1,965.17	135.89	15.462		
12,200.00	7,730.00	7,788.09	7,670.21	129.93	32.17	90.81	1,231.52	4,435.30	2,175.64	2,038.26	137.38	15.836		
12,300.00	7,730.00	7,788.62	7,670.75	129.85	32.17	90.83	1,231.52	4,435.30	2,252.20	2,113.49	138.70	16.237		
12,400.00	7,730.00	7,789.16	7,671.29	129.77	32.17	90.86	1,231.52	4,435.31	2,330.53	2,190.65	139.87	16.662		
12,500.00	7,730.00	7,789.70	7,671.83	129.71	32.17	90.88	1,231.52	4,435.31	2,410.46	2,269.56	140.91	17.106		
12,600.00	7,730.00	7,790.25	7,672.37	129.66	32.18	90.90	1,231.51	4,435.32	2,491.85	2,350.02	141.83	17.570		
12,700.00	7,730.00	7,790.80	7,672.92	129.63	32.18	90.92	1,231.51	4,435.32	2,574.55	2,431.91	142.64	18.049		
12,800.00	7,730.00	7,791.35	7,673.47	129.60	32.18	90.94	1,231.51	4,435.33	2,658.43	2,515.07	143.36	18.544		
12,900.00	7,730.00	7,791.91	7,674.03	129.59	32.18	90.97	1,231.51	4,435.33	2,743.40	2,599.40	144.00	19.051		
13,000.00	7,730.00	7,792.46	7,674.59	129.59	32.18	90.99	1,231.50	4,435.34	2,829.35	2,684.78	144.57	19.571		
13,100.00	7,730.00	7,793.02	7,675.15	129.60	32.18	91.01	1,231.50	4,435.34	2,916.19	2,771.11	145.08	20.101		
13,200.00	7,730.00	7,793.59	7,675.71	129.63	32.18	91.03	1,231.50	4,435.35	3,003.86	2,858.33	145.53	20.641		
13,300.00	7,730.00	7,794.16	7,676.28	129.66	32.19	91.06	1,231.50	4,435.35	3,092.27	2,946.34	145.93	21.190		
13,400.00	7,730.00	7,794.73	7,676.85	129.72	32.19	91.08	1,231.49	4,435.36	3,181.37	3,035.07	146.29	21.747		
13,500.00	7,730.00	7,795.30	7,677.43	129.78	32.19	91.10	1,231.49	4,435.36	3,271.10	3,124.48	146.61	22.311		
13,600.00	7,730.00	7,795.88	7,678.00	129.86	32.19	91.13	1,231.49	4,435.37	3,361.40	3,214.50	146.90	22.882		
13,700.00	7,730.00	7,796.46	7,678.59	129.96	32.19	91.15	1,231.48	4,435.37	3,452.25	3,305.09	147.16	23.459		
13,800.00	7,730.00	7,797.05	7,679.17	130.07	32.19	91.17	1,231.48	4,435.38	3,543.58	3,396.19	147.39	24.042		
13,900.00	7,730.00	7,797.63	7,679.76	130.19	32.20	91.20	1,231.48	4,435.38	3,635.37	3,487.78	147.60	24.630		
14,000.00	7,730.00	7,798.23	7,680.35	130.33	32.20	91.22	1,231.48	4,435.39	3,727.59	3,579.80	147.78	25.223		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,798.82	7,680.95	130.49	32.20	91.25	1,231.47	4,435.40	3,820.19	3,672.24	147.95	25.821		
14,200.00	7,730.00	7,799.42	7,681.54	130.67	32.20	91.27	1,231.47	4,435.40	3,913.16	3,765.06	148.10	26.422		
14,300.00	7,730.00	7,800.02	7,682.15	130.86	32.20	91.29	1,231.47	4,435.41	4,006.47	3,858.23	148.24	27.027		
14,400.00	7,730.00	7,800.63	7,682.75	131.07	32.20	91.32	1,231.46	4,435.41	4,100.09	3,951.74	148.36	27.636		
14,500.00	7,730.00	7,801.24	7,683.36	131.30	32.21	91.34	1,231.46	4,435.42	4,194.01	4,045.54	148.47	28.249		
14,600.00	7,730.00	7,801.85	7,683.98	131.55	32.21	91.37	1,231.46	4,435.42	4,288.20	4,139.64	148.57	28.864		
14,700.00	7,730.00	7,802.47	7,684.59	131.82	32.21	91.39	1,231.45	4,435.43	4,382.65	4,234.00	148.66	29.482		
14,800.00	7,730.00	7,803.09	7,685.21	132.11	32.21	91.42	1,231.45	4,435.44	4,477.35	4,328.61	148.74	30.103		
14,900.00	7,730.00	7,803.71	7,685.84	132.42	32.21	91.44	1,231.45	4,435.44	4,572.26	4,423.45	148.81	30.726		
15,000.00	7,730.00	7,804.34	7,686.47	132.75	32.21	91.47	1,231.44	4,435.45	4,667.39	4,518.52	148.87	31.351		
15,100.00	7,730.00	7,804.97	7,687.10	133.10	32.22	91.49	1,231.44	4,435.45	4,762.72	4,613.79	148.93	31.979		
15,200.00	7,730.00	7,805.61	7,687.73	133.48	32.22	91.52	1,231.44	4,435.46	4,858.24	4,709.25	148.99	32.609		
15,300.00	7,730.00	7,806.25	7,688.37	133.88	32.22	91.54	1,231.43	4,435.47	4,953.93	4,804.90	149.03	33.240		
15,400.00	7,730.00	7,806.90	7,689.02	134.31	32.22	91.57	1,231.43	4,435.47	5,049.79	4,900.71	149.08	33.874		
15,500.00	7,730.00	7,807.54	7,689.67	134.76	32.22	91.60	1,231.43	4,435.48	5,145.81	4,996.69	149.12	34.509		
15,600.00	7,730.00	7,808.20	7,690.32	135.23	32.22	91.62	1,231.42	4,435.48	5,241.97	5,092.82	149.15	35.145		
15,700.00	7,730.00	7,808.85	7,690.97	135.73	32.23	91.65	1,231.42	4,435.49	5,338.28	5,189.10	149.18	35.784		
15,800.00	7,730.00	7,809.51	7,691.64	136.26	32.23	91.68	1,231.42	4,435.50	5,434.72	5,285.51	149.21	36.423		
15,900.00	7,730.00	7,810.18	7,692.30	136.81	32.23	91.70	1,231.41	4,435.50	5,531.29	5,382.05	149.24	37.064		
16,000.00	7,730.00	7,810.85	7,692.97	137.39	32.23	91.73	1,231.41	4,435.51	5,627.98	5,478.72	149.26	37.706		
16,100.00	7,730.00	7,811.52	7,693.64	138.00	32.23	91.76	1,231.41	4,435.52	5,724.78	5,575.50	149.28	38.349		
16,200.00	7,730.00	7,812.20	7,694.32	138.63	32.24	91.78	1,231.40	4,435.52	5,821.69	5,672.39	149.30	38.993		
16,300.00	7,730.00	7,812.88	7,695.00	139.30	32.24	91.81	1,231.40	4,435.53	5,918.70	5,769.38	149.32	39.638		
16,400.00	7,730.00	7,813.56	7,695.69	139.99	32.24	91.84	1,231.40	4,435.54	6,015.81	5,866.47	149.33	40.285		
16,500.00	7,730.00	7,814.25	7,696.38	140.70	32.24	91.87	1,231.39	4,435.54	6,113.01	5,963.66	149.35	40.932		
16,600.00	7,730.00	7,814.95	7,697.07	141.45	32.24	91.89	1,231.39	4,435.55	6,210.30	6,060.94	149.36	41.580		
16,700.00	7,730.00	7,815.65	7,697.77	142.22	32.25	91.92	1,231.38	4,435.56	6,307.68	6,158.31	149.37	42.228		
16,800.00	7,730.00	7,816.35	7,698.47	143.03	32.25	91.95	1,231.38	4,435.57	6,405.13	6,255.75	149.38	42.878		
16,900.00	7,730.00	7,817.06	7,699.18	143.86	32.25	91.98	1,231.38	4,435.57	6,502.67	6,353.28	149.39	43.528		
17,000.00	7,730.00	7,817.78	7,699.89	144.71	32.25	92.01	1,231.37	4,435.57	6,600.28	6,450.89	149.39	44.181		
17,100.00	7,730.00	7,818.50	7,700.60	145.56	32.25	92.04	1,231.37	4,435.58	6,697.96	6,548.56	149.40	44.833		
17,200.00	7,730.00	7,819.22	7,701.31	146.41	32.25	92.07	1,231.36	4,435.58	6,795.70	6,646.30	149.41	45.485		
17,300.00	7,730.00	7,819.94	7,702.02	147.26	32.25	92.10	1,231.36	4,435.59	6,893.51	6,744.10	149.41	46.138		
17,400.00	7,730.00	7,820.66	7,702.73	148.11	32.25	92.13	1,231.35	4,435.59	6,991.39	6,841.97	149.42	46.791		
17,500.00	7,730.00	7,821.38	7,703.44	148.96	32.25	92.16	1,231.35	4,435.60	7,089.32	6,939.90	149.42	47.445		
17,600.00	7,730.00	7,822.10	7,704.15	149.81	32.25	92.19	1,231.34	4,435.60	7,187.31	7,037.88	149.43	48.099		
17,700.00	7,730.00	7,822.82	7,704.86	150.66	32.25	92.22	1,231.34	4,435.61	7,285.35	7,135.92	149.43	48.754		
17,800.00	7,730.00	7,823.54	7,705.57	151.51	32.25	92.25	1,231.33	4,435.61	7,383.45	7,234.01	149.44	49.409		
17,900.00	7,730.00	7,824.26	7,706.28	152.36	32.25	92.28	1,231.32	4,435.61	7,481.59	7,332.15	149.44	50.064		
18,000.00	7,730.00	7,824.98	7,706.99	153.21	32.25	92.31	1,231.31	4,435.61	7,579.79	7,430.34	149.44	50.720		
18,100.00	7,730.00	7,825.70	7,707.70	154.06	32.25	92.34	1,231.30	4,435.61	7,678.03	7,528.58	149.45	51.376		
18,200.00	7,730.00	7,826.42	7,708.41	154.91	32.25	92.37	1,231.29	4,435.61	7,776.31	7,626.86	149.45	52.032		
18,300.00	7,730.00	7,827.14	7,709.12	155.76	32.25	92.40	1,231.28	4,435.61	7,874.64	7,725.19	149.46	52.689		
18,400.00	7,730.00	7,827.86	7,709.83	156.61	32.25	92.43	1,231.27	4,435.61	7,973.01	7,823.55	149.46	53.346		
18,500.00	7,730.00	7,828.58	7,710.54	157.46	32.25	92.46	1,231.26	4,435.61	8,071.43	7,921.96	149.46	54.003		
18,600.00	7,730.00	7,829.30	7,711.25	158.31	32.25	92.49	1,231.25	4,435.61	8,169.87	8,020.41	149.47	54.660		
18,700.00	7,730.00	7,829.99	7,711.96	159.16	32.25	92.52	1,231.24	4,435.61	8,268.36	8,118.89	149.47	55.318		
18,800.00	7,730.00	7,830.69	7,712.67	160.01	32.25	92.55	1,231.23	4,435.61	8,366.88	8,217.41	149.47	55.975		
18,900.00	7,730.00	7,831.39	7,713.38	160.86	32.25	92.58	1,231.22	4,435.61	8,465.44	8,315.96	149.48	56.633		
19,000.00	7,730.00	7,832.09	7,714.09	161.71	32.25	92.61	1,231.21	4,435.61	8,564.03	8,414.55	149.48	57.291		
19,100.00	7,730.00	7,832.79	7,714.80	162.56	32.25	92.64	1,231.20	4,435.61	8,662.65	8,513.17	149.49	57.949		
19,200.00	7,730.00	7,833.49	7,715.51	163.41	32.25	92.67	1,231.19	4,435.61	8,761.31	8,611.82	149.49	58.608		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,825.55	7,707.68	170.70	32.27	92.32	1,231.33	4,435.63	8,859.99	8,710.49	149.50	59.266	
19,400.00	7,730.00	7,826.09	7,708.22	172.04	32.27	92.34	1,231.33	4,435.64	8,958.70	8,809.20	149.50	59.924	
19,500.00	7,730.00	7,826.64	7,708.76	173.40	32.28	92.36	1,231.33	4,435.64	9,057.44	8,907.94	149.51	60.583	
19,600.00	7,730.00	7,827.18	7,709.30	174.76	32.28	92.39	1,231.33	4,435.64	9,156.21	9,006.70	149.51	61.241	
19,700.00	7,730.00	7,827.72	7,709.84	176.14	32.28	92.41	1,231.32	4,435.65	9,255.01	9,105.49	149.52	61.900	
19,800.00	7,730.00	7,828.27	7,710.39	177.52	32.28	92.43	1,231.32	4,435.65	9,353.83	9,204.31	149.52	62.559	
19,900.00	7,730.00	7,828.81	7,710.93	178.92	32.28	92.45	1,231.32	4,435.66	9,452.67	9,303.15	149.53	63.217	
20,000.00	7,730.00	7,829.36	7,711.48	180.33	32.28	92.47	1,231.31	4,435.66	9,551.54	9,402.01	149.53	63.876	
20,100.00	7,730.00	7,829.90	7,712.03	181.75	32.28	92.49	1,231.31	4,435.67	9,650.44	9,500.90	149.54	64.535	
20,184.95	7,730.00	7,830.37	7,712.49	182.96	32.29	92.51	1,231.31	4,435.67	9,734.47	9,584.92	149.54	65.094	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.97	751.37	5,322.97	5,376.33					
100.00	100.00	37.79	37.79	0.13	0.06	81.97	751.35	5,322.91	5,375.70	5,375.51	0.19	N/A		
200.00	199.98	157.41	157.41	0.49	0.40	11.53	751.19	5,322.17	5,373.34	5,372.45	0.89	6,017.633		
300.00	299.84	248.47	248.47	0.86	0.73	11.56	751.17	5,321.60	5,367.59	5,366.00	1.58	3,387.014		
400.00	399.45	354.28	354.27	1.23	1.11	11.61	751.28	5,320.97	5,358.48	5,356.15	2.33	2,297.786		
500.00	498.70	415.91	415.89	1.63	1.32	11.69	750.69	5,320.87	5,346.25	5,343.34	2.91	1,834.191		
600.00	597.47	480.45	480.40	2.05	1.54	11.79	748.69	5,321.40	5,331.31	5,327.80	3.51	1,518.412		
700.00	695.62	534.00	533.87	2.51	1.73	11.92	745.92	5,322.30	5,313.63	5,309.55	4.07	1,304.555		
800.00	793.06	589.77	589.48	3.00	1.93	12.08	741.96	5,323.83	5,293.40	5,288.74	4.66	1,137.030		
900.00	889.64	644.90	644.34	3.53	2.13	12.27	736.95	5,326.08	5,270.78	5,265.53	5.25	1,004.710		
1,000.00	985.27	716.00	714.86	4.12	2.39	12.53	728.60	5,329.52	5,245.36	5,239.45	5.91	887.408		
1,100.00	1,079.82	759.86	758.20	4.75	2.57	12.77	722.43	5,332.08	5,217.42	5,210.93	6.49	803.613		
1,200.00	1,173.17	809.00	806.60	5.44	2.77	13.05	714.72	5,335.66	5,187.31	5,180.20	7.11	729.922		
1,300.00	1,265.21	845.10	842.05	6.18	2.92	13.31	708.62	5,338.68	5,154.92	5,147.23	7.69	670.467		
1,400.00	1,355.84	902.00	897.80	6.99	3.17	13.68	698.49	5,343.94	5,120.24	5,111.87	8.37	611.651		
1,500.00	1,444.94	947.58	942.34	7.87	3.37	14.04	689.99	5,348.53	5,083.18	5,074.15	9.03	562.995		
1,600.00	1,532.39	995.00	988.59	8.80	3.59	14.43	680.84	5,353.60	5,043.75	5,034.04	9.71	519.512		
1,700.00	1,618.11	1,058.55	1,050.34	9.81	3.90	14.94	667.71	5,360.86	5,001.92	4,991.43	10.49	476.781		
1,800.00	1,701.97	1,138.47	1,127.64	10.89	4.30	15.59	649.81	5,370.46	4,957.61	4,946.23	11.38	435.646		
1,900.00	1,783.88	1,200.00	1,226.00	12.04	8.26	16.39	627.76	5,382.19	4,910.18	4,894.42	15.75	311.702		
2,000.00	1,863.74	1,300.25	1,284.60	13.26	5.13	17.03	615.35	5,389.08	4,860.07	4,846.85	13.22	367.499		
2,100.00	1,941.45	1,351.06	1,333.91	14.55	5.40	17.68	604.81	5,395.27	4,807.87	4,793.84	14.03	342.728		
2,200.00	2,016.92	1,423.07	1,403.63	15.92	5.78	18.52	589.16	5,404.27	4,753.31	4,738.35	14.97	317.627		
2,292.11	2,084.36	1,479.61	1,458.18	17.25	6.09	19.30	576.16	5,411.45	4,700.98	4,685.17	15.81	297.360		
2,300.00	2,090.06	1,484.27	1,462.67	17.36	6.12	19.33	575.06	5,412.05	4,696.42	4,680.53	15.88	295.658		
2,400.00	2,162.18	1,552.93	1,528.69	18.84	6.50	19.82	558.47	5,420.98	4,638.86	4,622.00	16.86	275.136		
2,500.00	2,234.31	1,650.58	1,622.65	20.33	7.06	20.52	534.94	5,433.41	4,581.43	4,563.41	18.02	254.281		
2,600.00	2,306.43	1,735.93	1,705.10	21.83	7.53	21.13	515.48	5,443.76	4,523.87	4,504.75	19.12	236.565		
2,700.00	2,378.56	1,788.63	1,756.08	23.33	7.82	21.51	503.79	5,450.26	4,466.81	4,446.73	20.08	222.499		
2,800.00	2,450.68	1,863.61	1,828.61	24.84	8.24	22.06	487.31	5,459.71	4,410.28	4,389.11	21.17	208.363		
2,900.00	2,522.81	1,967.17	1,928.92	26.36	8.81	22.83	464.89	5,472.36	4,353.82	4,331.40	22.42	194.159		
3,000.00	2,594.93	2,038.51	1,998.18	27.88	9.20	23.37	449.97	5,480.72	4,297.32	4,273.78	23.54	182.584		
3,100.00	2,667.06	2,103.60	2,061.24	29.40	9.55	23.88	435.84	5,488.52	4,241.39	4,216.74	24.64	172.107		
3,200.00	2,739.18	2,200.38	2,154.76	30.92	10.10	24.67	413.66	5,499.81	4,185.64	4,159.68	25.96	161.239		
3,300.00	2,811.31	2,292.10	2,243.27	32.45	10.62	25.45	391.85	5,510.00	4,129.93	4,102.65	27.28	151.367		
3,400.00	2,883.43	2,390.65	2,338.67	33.98	11.17	26.29	369.52	5,520.48	4,074.29	4,045.63	28.66	142.152		
3,500.00	2,955.56	2,489.55	2,434.96	35.51	11.70	27.13	349.19	5,530.32	4,018.46	3,988.42	30.04	133.756		
3,600.00	3,027.68	2,558.05	2,501.63	37.04	12.06	27.73	334.96	5,537.01	3,962.96	3,931.66	31.30	126.630		
3,700.00	3,099.81	2,592.36	2,534.96	38.57	12.25	28.03	327.62	5,540.53	3,908.30	3,875.89	32.40	120.614		
3,800.00	3,171.93	2,628.98	2,570.48	40.11	12.45	28.37	319.69	5,544.61	3,854.78	3,821.23	33.55	114.903		
3,900.00	3,244.06	3,900.00	2,658.00	41.64	19.47	29.20	299.94	5,554.76	3,801.85	3,760.77	41.08	92.548		
4,000.00	3,316.18	2,830.79	2,766.18	43.18	13.56	30.27	275.45	5,566.22	3,748.67	3,712.02	36.65	102.277		
4,100.00	3,388.31	2,891.08	2,824.60	44.71	13.89	30.87	261.83	5,572.29	3,696.08	3,658.05	38.04	97.174		
4,200.00	3,460.43	2,958.12	2,889.43	46.25	14.27	31.55	246.19	5,579.17	3,644.30	3,604.80	39.50	92.267		
4,300.00	3,532.56	3,038.79	2,967.54	47.79	14.72	32.38	227.82	5,587.40	3,593.04	3,551.96	41.07	87.477		
4,400.00	3,604.68	3,075.13	3,002.69	49.33	14.93	32.76	219.47	5,591.32	3,542.78	3,500.36	42.42	83.525		
4,500.00	3,676.81	3,121.94	3,047.90	50.87	15.19	33.26	208.56	5,596.64	3,493.73	3,449.88	43.85	79.669		
4,600.00	3,748.93	3,192.26	3,115.83	52.41	15.59	34.01	192.37	5,604.90	3,445.64	3,400.17	45.47	75.773		
4,700.00	3,821.06	3,308.95	3,228.95	53.95	16.24	35.27	167.09	5,618.34	3,397.95	3,350.54	47.41	71.672		
4,800.00	3,893.18	3,381.17	3,299.02	55.49	16.64	36.08	151.45	5,626.13	3,350.42	3,301.31	49.11	68.223		
4,900.00	3,965.31	3,447.90	3,363.62	57.03	17.01	36.84	136.26	5,633.15	3,303.69	3,252.86	50.83	64.998		
5,000.00	4,037.43	3,507.63	3,421.41	58.58	17.35	37.54	122.54	5,639.54	3,257.96	3,205.42	52.54	62.009		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,557.53	3,469.64	60.12	17.64	38.13	111.02	5,645.15	3,213.50	3,159.28	54.22	59.267		
5,200.00	4,181.68	3,645.04	3,554.27	61.66	18.13	39.18	91.32	5,655.46	3,170.25	3,114.05	56.20	56.413		
5,300.00	4,253.81	3,748.25	3,654.70	63.20	18.68	40.40	70.68	5,667.32	3,127.05	3,068.77	58.28	53.652		
5,400.00	4,325.93	3,823.17	3,727.80	64.75	19.08	41.29	56.71	5,675.87	3,084.41	3,024.21	60.21	51.229		
5,500.00	4,398.06	3,889.82	3,792.76	66.29	19.43	42.10	43.83	5,683.42	3,042.80	2,980.67	62.13	48.979		
5,600.00	4,470.18	3,953.97	3,855.23	67.84	19.77	42.90	31.29	5,690.82	3,002.36	2,938.29	64.07	46.862		
5,700.00	4,542.31	4,008.63	3,908.43	69.38	20.06	43.58	20.57	5,697.36	2,963.26	2,897.28	65.98	44.911		
5,800.00	4,614.43	4,068.27	3,966.41	70.92	20.38	44.34	8.85	5,704.92	2,925.69	2,857.73	67.96	43.049		
5,900.00	4,686.56	4,155.69	4,051.40	72.47	20.85	45.47	-8.44	5,715.87	2,889.15	2,818.95	70.19	41.160		
6,000.00	4,758.68	4,220.71	4,114.65	74.01	21.20	46.32	-21.09	5,724.08	2,853.70	2,781.41	72.29	39.476		
6,100.00	4,830.81	4,384.20	4,274.38	75.56	22.04	48.47	-49.84	5,743.73	2,818.45	2,743.33	75.12	37.519		
6,200.00	4,902.93	4,461.88	4,350.64	77.10	22.42	49.50	-62.04	5,752.09	2,782.78	2,705.41	77.36	35.971		
6,300.00	4,975.06	4,512.27	4,399.96	78.65	22.68	50.20	-70.96	5,757.33	2,748.78	2,669.32	79.46	34.592		
6,400.00	5,047.18	4,612.92	4,498.31	80.19	23.19	51.63	-89.84	5,767.28	2,716.18	2,634.17	82.01	33.122		
6,500.00	5,119.31	4,811.20	4,692.96	81.74	24.15	54.53	-124.47	5,782.21	2,683.28	2,598.00	85.28	31.463		
6,600.00	5,191.43	4,874.12	4,755.07	83.28	24.43	55.45	-133.51	5,786.46	2,649.76	2,562.17	87.59	30.251		
6,700.00	5,263.56	4,983.72	4,863.48	84.83	24.91	57.06	-147.61	5,794.27	2,617.31	2,527.11	90.20	29.017		
6,800.00	5,335.68	5,320.91	5,199.17	86.37	26.11	62.11	-174.62	5,805.58	2,582.06	2,488.48	93.58	27.593		
6,900.00	5,407.81	5,405.66	5,283.80	87.92	26.37	63.46	-179.05	5,804.32	2,544.05	2,448.01	96.04	26.491		
7,000.00	5,479.93	5,515.12	5,393.17	89.47	26.67	65.20	-183.07	5,803.09	2,507.18	2,408.65	98.53	25.447		
7,100.00	5,552.06	5,610.84	5,488.88	91.01	26.90	66.71	-183.11	5,802.46	2,470.22	2,369.27	100.95	24.470		
7,200.00	5,624.18	5,691.36	5,569.40	92.56	27.08	67.99	-182.68	5,801.99	2,434.54	2,331.16	103.38	23.549		
7,300.00	5,696.31	5,771.49	5,649.53	94.10	27.26	69.30	-182.09	5,801.15	2,399.99	2,294.14	105.84	22.675		
7,400.00	5,768.43	5,842.09	5,720.12	95.65	27.42	70.48	-181.52	5,800.34	2,366.92	2,258.59	108.33	21.849		
7,500.00	5,840.56	5,906.94	5,784.96	97.20	27.57	71.57	-181.19	5,799.58	2,335.60	2,224.76	110.85	21.071		
7,600.00	5,912.68	5,977.84	5,855.86	98.74	27.74	72.79	-181.05	5,798.73	2,306.13	2,192.76	113.37	20.341		
7,700.00	5,984.81	6,055.93	5,933.94	100.29	27.93	74.15	-180.77	5,797.76	2,278.34	2,162.43	115.90	19.657		
7,800.00	6,056.93	6,136.55	6,014.55	101.84	28.12	75.58	-180.34	5,796.41	2,252.06	2,133.63	118.43	19.016		
7,900.00	6,129.06	6,211.47	6,089.45	103.38	28.29	76.92	-179.70	5,795.13	2,227.52	2,106.57	120.95	18.417		
8,000.00	6,201.18	6,285.43	6,163.40	104.93	28.47	78.26	-178.93	5,793.86	2,204.83	2,081.38	123.44	17.861		
8,100.00	6,273.31	6,356.91	6,234.87	106.48	28.64	79.56	-178.10	5,792.67	2,184.10	2,058.19	125.91	17.346		
8,200.00	6,345.43	6,417.82	6,295.77	108.02	28.79	80.68	-177.31	5,791.88	2,165.54	2,037.20	128.34	16.873		
8,300.00	6,417.56	6,468.71	6,346.65	109.57	28.91	81.62	-176.87	5,791.72	2,149.68	2,018.97	130.71	16.446		
8,400.00	6,489.68	6,529.85	6,407.79	111.12	29.08	82.74	-176.66	5,792.00	2,136.56	2,003.53	133.03	16.061		
8,500.00	6,561.81	6,597.54	6,475.48	112.66	29.26	84.00	-176.70	5,792.23	2,125.82	1,990.52	135.29	15.713		
8,600.00	6,633.93	6,669.99	6,547.93	114.21	29.47	85.35	-176.90	5,792.30	2,117.34	1,979.84	137.50	15.399		
8,700.00	6,706.06	6,749.21	6,627.15	115.76	29.68	86.85	-177.11	5,792.06	2,110.98	1,971.36	139.63	15.119		
8,800.00	6,778.18	6,821.11	6,699.04	117.30	29.88	88.21	-177.22	5,791.66	2,106.75	1,965.09	141.66	14.872		
8,900.00	6,850.31	6,888.92	6,766.86	118.85	30.06	89.49	-177.29	5,791.53	2,104.88	1,961.30	143.58	14.660		
8,924.94	6,868.29	6,905.09	6,783.03	119.24	30.11	89.79	-177.33	5,791.53	2,104.80	1,960.76	144.04	14.612		
9,000.00	6,922.43	6,953.86	6,831.80	120.40	30.25	90.71	-177.50	5,791.59	2,105.52	1,960.12	145.40	14.481		
9,100.00	6,994.56	7,025.64	6,903.58	121.95	30.46	92.06	-177.84	5,791.75	2,108.56	1,961.43	147.12	14.332		
9,200.00	7,066.68	7,098.85	6,976.79	123.49	30.67	93.44	-178.20	5,791.83	2,113.85	1,965.11	148.74	14.212		
9,300.00	7,138.81	7,170.16	7,048.10	125.04	30.88	94.78	-178.56	5,791.73	2,121.37	1,971.13	150.24	14.120		
9,392.50	7,205.52	7,233.07	7,111.00	126.47	31.06	95.96	-178.95	5,791.70	2,130.41	1,978.89	151.51	14.061		
9,400.00	7,210.94	7,238.38	7,116.32	126.59	31.08	95.31	-178.98	5,791.70	2,131.18	1,979.57	151.61	14.057		
9,450.00	7,247.42	7,275.92	7,153.86	127.35	31.19	90.81	-179.24	5,791.68	2,134.16	1,981.89	152.27	14.016		
9,500.00	7,284.35	7,313.85	7,191.79	128.10	31.30	86.04	-179.49	5,791.60	2,133.34	1,980.44	152.90	13.953		
9,550.00	7,321.43	7,350.00	7,227.93	128.83	31.40	81.12	-179.72	5,791.50	2,128.71	1,975.22	153.49	13.869		
9,600.00	7,358.38	7,384.79	7,262.72	129.52	31.51	76.19	-179.97	5,791.38	2,120.34	1,966.29	154.04	13.765		
9,650.00	7,394.93	7,419.23	7,297.16	130.16	31.61	71.44	-180.26	5,791.27	2,108.24	1,953.69	154.55	13.641		
9,700.00	7,430.79	7,453.08	7,331.01	130.76	31.71	66.98	-180.58	5,791.15	2,092.49	1,937.47	155.02	13.498		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,486.09	7,364.01	131.30	31.80	62.88	-180.92	5,791.04	2,073.14	1,917.71	155.44	13.338		
9,800.00	7,499.38	7,518.01	7,395.93	131.78	31.90	59.20	-181.28	5,790.92	2,050.31	1,894.50	155.80	13.160		
9,850.00	7,531.58	7,545.66	7,423.58	132.21	31.98	55.90	-181.64	5,790.83	2,024.12	1,868.02	156.11	12.966		
9,900.00	7,562.06	7,572.18	7,450.10	132.57	32.06	53.04	-182.04	5,790.75	1,994.75	1,838.39	156.36	12.757		
9,950.00	7,590.58	7,597.20	7,475.11	132.87	32.14	50.59	-182.46	5,790.69	1,962.34	1,805.77	156.57	12.533		
10,000.00	7,616.93	7,625.89	7,503.80	133.11	32.23	48.70	-182.99	5,790.63	1,927.06	1,770.30	156.76	12.293		
10,050.00	7,640.90	7,656.98	7,534.89	133.29	32.32	47.36	-183.47	5,790.61	1,888.99	1,732.07	156.93	12.038		
10,100.00	7,662.32	7,684.63	7,562.54	133.42	32.41	46.43	-183.81	5,790.62	1,848.38	1,691.33	157.05	11.770		
10,150.00	7,681.01	7,708.63	7,586.54	133.50	32.48	45.93	-184.04	5,790.65	1,805.49	1,648.36	157.13	11.491		
10,200.00	7,696.85	7,723.61	7,601.51	133.52	32.53	45.62	-184.17	5,790.68	1,760.65	1,603.50	157.15	11.203		
10,250.00	7,709.70	7,736.68	7,614.58	133.51	32.57	45.90	-184.28	5,790.72	1,714.16	1,557.00	157.16	10.907		
10,300.00	7,719.47	7,746.74	7,624.64	133.46	32.60	46.99	-184.37	5,790.74	1,666.31	1,509.17	157.15	10.604		
10,350.00	7,726.09	7,753.71	7,631.61	133.37	32.62	49.75	-184.44	5,790.76	1,617.43	1,460.30	157.12	10.294		
10,400.00	7,729.50	7,757.53	7,635.43	133.26	32.63	58.35	-184.47	5,790.78	1,567.85	1,410.74	157.10	9.980		
10,427.79	7,730.00	7,758.27	7,636.17	133.18	32.63	77.73	-184.48	5,790.78	1,540.11	1,383.02	157.09	9.804		
10,500.00	7,730.00	7,758.92	7,636.82	132.98	32.63	78.29	-184.48	5,790.78	1,467.97	1,310.90	157.07	9.346		
10,600.00	7,730.00	7,759.82	7,637.72	132.72	32.64	79.07	-184.49	5,790.78	1,368.08	1,211.05	157.03	8.712		
10,700.00	7,730.00	7,760.73	7,638.62	132.47	32.64	79.86	-184.50	5,790.79	1,268.20	1,111.21	156.98	8.079		
10,800.00	7,730.00	7,761.63	7,639.53	132.22	32.64	80.65	-184.51	5,790.79	1,168.34	1,011.41	156.93	7.445		
10,900.00	7,730.00	7,762.54	7,640.44	131.99	32.64	81.45	-184.52	5,790.79	1,068.50	911.64	156.86	6.812		
11,000.00	7,730.00	7,763.45	7,641.35	131.77	32.65	82.25	-184.53	5,790.80	968.70	811.93	156.77	6.179		
11,100.00	7,730.00	7,764.36	7,642.26	131.56	32.65	83.06	-184.53	5,790.80	868.95	712.29	156.66	5.547		
11,200.00	7,730.00	7,765.27	7,643.17	131.36	32.65	83.87	-184.54	5,790.80	769.25	612.74	156.51	4.915		
11,300.00	7,730.00	7,766.19	7,644.08	131.17	32.66	84.68	-184.55	5,790.80	669.65	513.35	156.31	4.284		
11,400.00	7,730.00	7,767.10	7,645.00	130.99	32.66	85.50	-184.56	5,790.81	570.19	414.18	156.00	3.655		
11,500.00	7,730.00	7,768.02	7,645.92	130.82	32.66	86.33	-184.57	5,790.81	470.94	315.42	155.52	3.028		
11,600.00	7,730.00	7,768.94	7,646.84	130.66	32.66	87.15	-184.58	5,790.81	372.11	217.44	154.67	2.406		
11,700.00	7,730.00	7,769.86	7,647.76	130.51	32.67	87.98	-184.58	5,790.82	274.11	121.22	152.89	1.793		
11,800.00	7,730.00	7,770.79	7,648.69	130.37	32.67	88.81	-184.59	5,790.82	178.35	30.42	147.93	1.206 Level 2		
11,900.00	7,730.00	7,771.71	7,649.61	130.24	32.67	89.65	-184.60	5,790.82	92.09	-31.76	123.86	0.744 Level 1		
11,966.66	7,730.00	7,772.33	7,650.23	130.16	32.67	90.21	-184.61	5,790.83	63.55	-19.30	82.85	0.767 Level 1, CC		
12,000.00	7,730.00	7,772.64	7,650.54	130.13	32.68	90.49	-184.61	5,790.83	71.76	-40.69	112.45	0.638 Level 1, ES, SF		
12,100.00	7,730.00	7,773.57	7,651.47	130.02	32.68	91.32	-184.62	5,790.83	147.71	-3.21	150.91	0.979 Level 1		
12,200.00	7,730.00	7,774.50	7,652.40	129.93	32.68	92.16	-184.63	5,790.83	241.83	85.90	155.93	1.551		
12,300.00	7,730.00	7,775.44	7,653.34	129.85	32.68	93.01	-184.64	5,790.84	339.33	182.19	157.14	2.159		
12,400.00	7,730.00	7,776.37	7,654.27	129.77	32.69	93.85	-184.64	5,790.84	437.96	280.41	157.55	2.780		
12,500.00	7,730.00	7,777.31	7,655.21	129.71	32.69	94.69	-184.65	5,790.84	537.09	379.37	157.72	3.405		
12,600.00	7,730.00	7,778.25	7,656.15	129.66	32.69	95.53	-184.66	5,790.85	636.50	478.71	157.79	4.034		
12,700.00	7,730.00	7,779.19	7,657.09	129.63	32.70	96.37	-184.67	5,790.85	736.06	578.24	157.82	4.664		
12,800.00	7,730.00	7,780.14	7,658.03	129.60	32.70	97.21	-184.68	5,790.85	835.73	677.89	157.83	5.295		
12,900.00	7,730.00	7,781.08	7,658.98	129.59	32.70	98.05	-184.69	5,790.86	935.46	777.63	157.84	5.927		
13,000.00	7,730.00	7,782.03	7,659.93	129.59	32.70	98.88	-184.70	5,790.86	1,035.25	877.42	157.83	6.559		
13,100.00	7,730.00	7,782.98	7,660.88	129.60	32.71	99.72	-184.71	5,790.87	1,135.07	977.24	157.83	7.192		
13,200.00	7,730.00	7,783.93	7,661.83	129.63	32.71	100.55	-184.72	5,790.87	1,234.93	1,077.10	157.83	7.825		
13,300.00	7,730.00	7,784.89	7,662.78	129.66	32.71	101.38	-184.72	5,790.87	1,334.80	1,176.98	157.82	8.458		
13,400.00	7,730.00	7,785.84	7,663.74	129.72	32.72	102.21	-184.73	5,790.88	1,434.69	1,276.87	157.82	9.091		
13,500.00	7,730.00	7,786.80	7,664.70	129.78	32.72	103.03	-184.74	5,790.88	1,534.59	1,376.78	157.82	9.724		
13,600.00	7,730.00	7,787.76	7,665.66	129.86	32.72	103.85	-184.75	5,790.88	1,634.51	1,476.69	157.81	10.357		
13,700.00	7,730.00	7,788.72	7,666.62	129.96	32.72	104.67	-184.76	5,790.89	1,734.43	1,576.62	157.81	10.991		
13,800.00	7,730.00	7,789.69	7,667.58	130.07	32.73	105.48	-184.77	5,790.89	1,834.36	1,676.55	157.81	11.624		
13,900.00	7,730.00	7,790.65	7,668.55	130.19	32.73	106.29	-184.78	5,790.90	1,934.30	1,776.49	157.81	12.257		
14,000.00	7,730.00	7,791.62	7,669.52	130.33	32.73	107.09	-184.79	5,790.90	2,034.25	1,876.44	157.81	12.891		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,792.59	7,670.49	130.49	32.74	107.89	-184.80	5,790.90	2,134.20	1,976.39	157.81	13.524		
14,200.00	7,730.00	7,793.56	7,671.46	130.67	32.74	108.68	-184.81	5,790.91	2,234.15	2,076.34	157.81	14.157		
14,300.00	7,730.00	7,794.54	7,672.43	130.86	32.74	109.47	-184.82	5,790.91	2,334.11	2,176.29	157.81	14.790		
14,400.00	7,730.00	7,795.51	7,673.41	131.07	32.75	110.25	-184.83	5,790.92	2,434.07	2,276.25	157.82	15.423		
14,500.00	7,730.00	7,796.49	7,674.39	131.30	32.75	111.03	-184.83	5,790.92	2,534.03	2,376.21	157.82	16.057		
14,600.00	7,730.00	7,797.47	7,675.37	131.55	32.75	111.79	-184.84	5,790.92	2,633.99	2,476.17	157.82	16.690		
14,700.00	7,730.00	7,798.46	7,676.35	131.82	32.75	112.56	-184.85	5,790.93	2,733.96	2,576.13	157.83	17.323		
14,800.00	7,730.00	7,799.44	7,677.34	132.11	32.76	113.31	-184.86	5,790.93	2,833.93	2,676.10	157.83	17.955		
14,900.00	7,730.00	7,800.43	7,678.32	132.42	32.76	114.06	-184.87	5,790.94	2,933.90	2,776.07	157.84	18.588		
15,000.00	7,730.00	7,801.42	7,679.31	132.75	32.76	114.80	-184.88	5,790.94	3,033.87	2,876.03	157.84	19.221		
15,100.00	7,730.00	7,802.41	7,680.31	133.10	32.77	115.54	-184.89	5,790.95	3,133.85	2,976.00	157.85	19.854		
15,200.00	7,730.00	7,803.40	7,681.30	133.48	32.77	116.27	-184.90	5,790.95	3,233.82	3,075.97	157.85	20.486		
15,300.00	7,730.00	7,804.40	7,682.29	133.88	32.77	116.99	-184.91	5,790.96	3,333.80	3,175.94	157.86	21.119		
15,400.00	7,730.00	7,805.40	7,683.29	134.31	32.78	117.70	-184.92	5,790.96	3,433.78	3,275.91	157.87	21.751		
15,500.00	7,730.00	7,806.40	7,684.29	134.76	32.78	118.41	-184.93	5,790.96	3,533.76	3,375.88	157.87	22.383		
15,600.00	7,730.00	7,807.40	7,685.29	135.23	32.78	119.10	-184.94	5,790.97	3,633.74	3,475.85	157.88	23.016		
15,700.00	7,730.00	7,808.40	7,686.30	135.73	32.79	119.79	-184.95	5,790.97	3,733.72	3,575.83	157.89	23.648		
15,800.00	7,730.00	7,809.41	7,687.30	136.26	32.79	120.48	-184.96	5,790.98	3,833.70	3,675.80	157.90	24.280		
15,900.00	7,730.00	7,807.96	7,688.85	136.81	32.78	119.49	-184.94	5,790.97	3,933.68	3,775.78	157.90	24.912		
16,000.00	7,730.00	7,808.71	7,686.61	137.39	32.79	120.00	-184.95	5,790.97	4,033.67	3,875.76	157.91	25.544		
16,100.00	7,730.00	7,809.46	7,687.36	138.00	32.79	120.51	-184.96	5,790.97	4,133.65	3,975.73	157.92	26.176		
16,200.00	7,730.00	7,810.21	7,688.10	138.63	32.79	121.01	-184.96	5,790.98	4,233.63	4,075.71	157.93	26.807		
16,300.00	7,730.00	7,810.94	7,688.84	139.30	32.79	121.49	-184.97	5,790.98	4,333.62	4,175.68	157.94	27.439		
16,400.00	7,730.00	7,811.67	7,689.57	139.99	32.79	121.97	-184.98	5,790.98	4,433.61	4,275.66	157.95	28.070		
16,500.00	7,730.00	7,812.40	7,690.30	140.70	32.80	122.44	-184.98	5,790.99	4,533.59	4,375.64	157.96	28.702		
16,600.00	7,730.00	7,813.12	7,691.01	141.45	32.80	122.91	-184.99	5,790.99	4,633.58	4,475.61	157.97	29.333		
16,700.00	7,730.00	7,813.83	7,691.73	142.22	32.80	123.36	-184.99	5,790.99	4,733.56	4,575.59	157.98	29.964		
16,800.00	7,730.00	7,814.54	7,692.44	143.03	32.80	123.81	-185.00	5,790.99	4,833.55	4,675.57	157.99	30.595		
16,900.00	7,730.00	7,815.24	7,693.14	143.86	32.81	124.24	-185.01	5,791.00	4,933.54	4,775.54	158.00	31.225		
17,000.00	7,730.00	7,815.94	7,693.84	144.71	32.81	124.67	-185.01	5,791.00	5,033.53	4,875.52	158.01	31.856		
17,100.00	7,730.00	7,816.63	7,694.53	145.60	32.81	125.09	-185.02	5,791.00	5,133.52	4,975.50	158.02	32.487		
17,200.00	7,730.00	7,817.32	7,695.22	146.51	32.81	125.51	-185.02	5,791.00	5,233.51	5,075.47	158.03	33.117		
17,300.00	7,730.00	7,818.00	7,695.90	147.44	32.81	125.92	-185.03	5,791.01	5,333.49	5,175.45	158.04	33.747		
17,400.00	7,730.00	7,818.68	7,696.57	148.40	32.82	126.32	-185.04	5,791.01	5,433.48	5,275.43	158.06	34.377		
17,500.00	7,730.00	7,819.35	7,697.24	149.39	32.82	126.71	-185.04	5,791.01	5,533.47	5,375.41	158.07	35.007		
17,600.00	7,730.00	7,820.01	7,697.91	150.40	32.82	127.10	-185.05	5,791.01	5,633.46	5,475.38	158.08	35.637		
17,700.00	7,730.00	7,820.67	7,698.57	151.44	32.82	127.47	-185.05	5,791.02	5,733.45	5,575.36	158.09	36.266		
17,800.00	7,730.00	7,821.33	7,699.22	152.50	32.82	127.85	-185.06	5,791.02	5,833.44	5,675.34	158.11	36.896		
17,900.00	7,730.00	7,821.98	7,699.87	153.58	32.83	128.21	-185.06	5,791.02	5,933.43	5,775.32	158.12	37.525		
18,000.00	7,730.00	7,822.62	7,700.52	154.68	32.83	128.57	-185.07	5,791.02	6,033.43	5,875.29	158.13	38.154		
18,100.00	7,730.00	7,823.27	7,701.16	155.80	32.83	128.93	-185.07	5,791.03	6,133.42	5,975.27	158.15	38.783		
18,200.00	7,730.00	7,823.90	7,701.80	156.95	32.83	129.27	-185.08	5,791.03	6,233.41	6,075.25	158.16	39.412		
18,300.00	7,730.00	7,824.53	7,702.43	158.11	32.83	129.62	-185.09	5,791.03	6,333.40	6,175.23	158.17	40.041		
18,400.00	7,730.00	7,825.16	7,703.06	159.30	32.84	129.95	-185.09	5,791.03	6,433.39	6,275.20	158.19	40.669		
18,500.00	7,730.00	7,825.78	7,703.68	160.50	32.84	130.28	-185.10	5,791.04	6,533.38	6,375.18	158.20	41.298		
18,600.00	7,730.00	7,826.40	7,704.29	161.72	32.84	130.61	-185.10	5,791.04	6,633.37	6,475.16	158.22	41.926		
18,700.00	7,730.00	7,827.01	7,704.91	162.96	32.84	130.92	-185.11	5,791.04	6,733.37	6,575.14	158.23	42.554		
18,800.00	7,730.00	7,827.62	7,705.52	164.21	32.84	131.24	-185.11	5,791.04	6,833.36	6,675.11	158.25	43.182		
18,900.00	7,730.00	7,828.22	7,706.12	165.48	32.85	131.55	-185.12	5,791.04	6,933.35	6,775.09	158.26	43.809		
19,000.00	7,730.00	7,828.82	7,706.72	166.76	32.85	131.85	-185.12	5,791.05	7,033.34	6,875.07	158.28	44.437		
19,100.00	7,730.00	7,829.42	7,707.32	168.06	32.85	132.15	-185.13	5,791.05	7,133.34	6,975.04	158.29	45.064		
19,200.00	7,730.00	7,830.01	7,707.91	169.38	32.85	132.44	-185.13	5,791.05	7,233.33	7,075.02	158.31	45.691		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,830.60	7,708.49	170.70	32.85	132.73	-185.13	5,791.05	7,333.32	7,175.00	158.33	46.318	
19,400.00	7,730.00	7,831.18	7,709.08	172.04	32.85	133.01	-185.14	5,791.05	7,433.32	7,274.97	158.34	46.944	
19,500.00	7,730.00	7,831.76	7,709.65	173.40	32.86	133.29	-185.14	5,791.06	7,533.31	7,374.95	158.36	47.571	
19,600.00	7,730.00	7,832.33	7,710.23	174.76	32.86	133.57	-185.15	5,791.06	7,633.30	7,474.93	158.38	48.197	
19,700.00	7,730.00	7,832.90	7,710.80	176.14	32.86	133.84	-185.15	5,791.06	7,733.30	7,574.90	158.39	48.823	
19,800.00	7,730.00	7,833.47	7,711.37	177.52	32.86	134.11	-185.16	5,791.06	7,833.29	7,674.88	158.41	49.449	
19,900.00	7,730.00	7,834.03	7,711.93	178.92	32.86	134.37	-185.16	5,791.06	7,933.28	7,774.86	158.43	50.075	
20,000.00	7,730.00	7,834.59	7,712.49	180.33	32.86	134.63	-185.17	5,791.06	8,033.28	7,874.83	158.45	50.701	
20,100.00	7,730.00	7,835.14	7,713.04	181.75	32.87	134.88	-185.17	5,791.07	8,133.27	7,974.81	158.46	51.326	
20,184.95	7,730.00	7,835.61	7,713.51	182.96	32.87	135.09	-185.17	5,791.07	8,218.22	8,059.74	158.48	51.857	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.88	762.30	5,342.57	5,397.28					
100.00	100.00	56.47	56.47	0.13	0.09	81.88	762.31	5,342.37	5,396.61	5,396.38	0.23	N/A		
200.00	199.98	177.43	177.42	0.49	0.36	11.44	762.52	5,340.79	5,393.56	5,392.70	0.86	6,289.349		
300.00	299.84	231.11	231.09	0.86	0.55	11.46	763.05	5,340.37	5,387.78	5,386.37	1.41	3,818.311		
400.00	399.45	328.44	328.39	1.23	0.90	11.49	765.46	5,339.82	5,379.03	5,376.91	2.12	2,531.978		
500.00	498.70	395.41	395.26	1.63	1.15	11.51	769.03	5,339.41	5,367.22	5,364.49	2.74	1,962.108		
600.00	597.47	460.50	460.13	2.05	1.39	11.53	774.38	5,339.12	5,352.61	5,349.26	3.35	1,598.515		
700.00	695.62	1,091.51	1,079.45	2.51	4.18	10.62	883.65	5,300.00	5,331.83	5,325.31	6.52	818.131		
800.00	793.06	1,171.66	1,157.05	3.00	4.59	10.56	901.24	5,290.32	5,301.43	5,294.14	7.30	726.493		
900.00	889.64	1,260.69	1,243.47	3.53	5.05	10.50	919.85	5,279.87	5,268.00	5,259.88	8.12	648.601		
1,000.00	985.27	1,310.86	1,292.34	4.12	5.30	10.55	929.73	5,274.22	5,231.73	5,222.97	8.76	597.425		
1,100.00	1,079.82	1,371.00	1,350.95	4.75	5.61	10.59	941.76	5,268.16	5,193.26	5,183.81	9.45	549.776		
1,200.00	1,173.17	1,403.24	1,382.35	5.44	5.77	10.70	948.43	5,265.15	5,152.34	5,142.33	10.01	514.641		
1,300.00	1,265.21	1,464.00	1,441.38	6.18	6.08	10.76	961.73	5,259.65	5,108.98	5,098.26	10.73	476.330		
1,400.00	1,355.84	1,600.02	1,572.81	6.99	6.82	10.65	994.21	5,246.56	5,062.39	5,050.54	11.85	427.149		
1,500.00	1,444.94	1,685.35	1,655.00	7.87	7.29	10.66	1,015.35	5,237.69	5,012.32	4,999.60	12.72	393.905		
1,600.00	1,532.39	1,745.00	1,712.73	8.80	7.62	10.77	1,029.19	5,231.90	4,959.70	4,946.23	13.47	368.298		
1,700.00	1,618.11	1,840.33	1,805.34	9.81	8.12	10.83	1,050.01	5,222.97	4,904.32	4,889.94	14.37	341.182		
1,800.00	1,701.97	1,913.39	1,876.55	10.89	8.49	10.98	1,064.85	5,216.27	4,846.08	4,830.92	15.16	319.590		
1,900.00	1,783.88	1,970.83	1,932.72	12.04	8.78	11.20	1,075.76	5,211.29	4,785.32	4,769.44	15.88	301.337		
2,000.00	1,863.74	2,025.00	1,985.70	13.26	9.05	11.44	1,086.19	5,206.87	4,722.29	4,705.71	16.58	284.742		
2,100.00	1,941.45	2,150.10	2,107.33	14.55	9.70	11.58	1,113.27	5,195.85	4,656.57	4,638.95	17.62	264.222		
2,200.00	2,016.92	2,295.49	2,248.49	15.92	10.47	11.72	1,144.61	5,180.78	4,587.06	4,568.32	18.74	244.720		
2,292.11	2,084.36	2,361.14	2,312.44	17.25	10.81	12.02	1,157.63	5,173.68	4,520.50	4,501.04	19.45	232.376		
2,300.00	2,090.06	2,366.32	2,317.50	17.36	10.83	12.02	1,158.61	5,173.12	4,514.71	4,495.19	19.52	231.334		
2,400.00	2,162.18	2,423.36	2,373.25	18.84	11.12	11.95	1,169.07	5,167.16	4,441.42	4,421.21	20.22	219.688		
2,500.00	2,234.31	2,471.60	2,420.36	20.33	11.37	11.90	1,178.20	5,162.26	4,368.42	4,347.53	20.89	209.110		
2,600.00	2,306.43	2,518.72	2,466.32	21.83	11.61	11.83	1,187.55	5,157.61	4,295.73	4,274.16	21.57	199.130		
2,700.00	2,378.56	2,565.09	2,511.48	23.33	11.85	11.76	1,197.11	5,153.22	4,223.41	4,201.14	22.26	189.703		
2,800.00	2,450.68	2,650.13	2,594.18	24.84	12.29	11.61	1,215.26	5,145.25	4,151.28	4,128.18	23.10	179.676		
2,900.00	2,522.81	2,745.17	2,686.51	26.36	12.79	11.43	1,235.62	5,135.63	4,078.63	4,054.65	23.98	170.097		
3,000.00	2,594.93	2,831.62	2,770.51	27.88	13.25	11.26	1,253.88	5,126.48	4,005.65	3,980.83	24.82	161.395		
3,100.00	2,667.06	2,899.76	2,836.57	29.40	13.62	11.11	1,268.78	5,118.95	3,932.46	3,906.86	25.60	153.598		
3,200.00	2,739.18	2,955.92	2,890.92	30.92	13.93	10.97	1,281.51	5,112.78	3,859.45	3,833.10	26.35	146.449		
3,300.00	2,811.31	3,002.57	2,935.96	32.45	14.19	10.85	1,292.57	5,107.77	3,786.75	3,759.66	27.09	139.786		
3,400.00	2,883.43	3,054.00	2,985.45	33.98	14.48	10.69	1,305.52	5,102.42	3,714.47	3,686.62	27.85	133.391		
3,500.00	2,955.56	3,105.35	3,034.76	35.51	14.78	10.51	1,318.87	5,097.23	3,642.54	3,613.92	28.62	127.293		
3,600.00	3,027.68	3,173.12	3,099.84	37.04	15.17	10.28	1,336.55	5,090.54	3,570.82	3,541.38	29.44	121.310		
3,700.00	3,099.81	3,262.99	3,186.14	38.57	15.69	9.95	1,359.88	5,081.32	3,498.85	3,468.54	30.31	115.426		
3,800.00	3,171.93	3,346.39	3,266.17	40.11	16.18	9.62	1,381.55	5,072.34	3,426.58	3,395.41	31.17	109.947		
3,900.00	3,244.06	3,401.20	3,318.73	41.64	16.50	9.40	1,395.93	5,066.43	3,354.37	3,322.42	31.95	104.979		
4,000.00	3,316.18	3,490.05	3,403.83	43.18	17.03	9.01	1,419.56	5,056.77	3,282.24	3,249.42	32.82	100.022		
4,100.00	3,388.31	3,569.00	3,479.31	44.71	17.50	8.63	1,440.78	5,047.49	3,209.56	3,175.90	33.65	95.372		
4,200.00	3,460.43	3,631.06	3,538.64	46.25	17.87	8.32	1,457.47	5,040.20	3,136.96	3,102.50	34.46	91.042		
4,300.00	3,532.56	3,687.33	3,592.69	47.79	18.19	8.06	1,471.78	5,033.97	3,064.62	3,029.37	35.25	86.951		
4,400.00	3,604.68	3,744.85	3,648.24	49.33	18.52	7.80	1,485.48	5,028.03	2,992.58	2,956.54	36.04	83.045		
4,500.00	3,676.81	3,803.07	3,704.43	50.87	18.85	7.53	1,499.55	5,022.18	2,920.82	2,884.00	36.83	79.313		
4,600.00	3,748.93	3,896.80	3,794.65	52.41	19.38	7.04	1,522.99	5,012.31	2,848.93	2,811.29	37.65	75.676		
4,700.00	3,821.06	3,977.71	3,872.63	53.95	19.84	6.61	1,542.61	5,003.40	2,776.65	2,738.21	38.44	72.229		
4,800.00	3,893.18	4,048.76	3,941.44	55.49	20.23	6.24	1,558.50	4,995.67	2,704.20	2,664.98	39.22	68.943		
4,900.00	3,965.31	4,113.06	4,003.78	57.03	20.58	5.90	1,572.70	4,988.72	2,631.80	2,591.80	40.00	65.792		
5,000.00	4,037.43	4,172.15	4,061.25	58.58	20.89	5.60	1,585.02	4,982.72	2,559.65	2,518.87	40.78	62.764		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,243.40	4,130.75	60.12	21.26	5.25	1,599.10	4,975.80	2,487.66	2,446.11	41.54	59.882		
5,200.00	4,181.68	4,332.54	4,217.72	61.66	21.71	4.78	1,616.49	4,966.83	2,415.45	2,373.18	42.27	57.146		
5,300.00	4,253.81	4,421.94	4,304.70	63.20	22.18	4.24	1,634.49	4,956.70	2,342.55	2,299.57	42.99	54.495		
5,400.00	4,325.93	4,485.28	4,366.20	64.75	22.52	3.81	1,647.57	4,949.08	2,269.38	2,225.62	43.76	51.859		
5,500.00	4,398.06	4,532.10	4,411.79	66.29	22.76	3.50	1,656.92	4,943.92	2,196.77	2,152.19	44.59	49.269		
5,600.00	4,470.18	4,576.05	4,454.72	67.84	22.98	3.21	1,665.27	4,939.64	2,124.91	2,079.48	45.43	46.773		
5,700.00	4,542.31	4,617.64	4,495.56	69.38	23.17	2.97	1,672.48	4,936.36	2,054.00	2,007.71	46.29	44.373		
5,800.00	4,614.43	4,682.09	4,559.13	70.92	23.46	2.63	1,682.33	4,932.54	1,983.98	1,936.92	47.07	42.154		
5,900.00	4,686.56	4,773.97	4,650.03	72.47	23.85	2.19	1,694.38	4,926.71	1,913.24	1,865.55	47.69	40.119		
6,000.00	4,758.68	4,840.99	4,716.55	74.01	24.11	1.92	1,701.52	4,922.83	1,842.41	1,793.99	48.42	38.049		
6,100.00	4,830.81	4,905.02	4,780.24	75.56	24.34	1.69	1,707.34	4,919.63	1,771.80	1,722.64	49.16	36.042		
6,200.00	4,902.93	4,978.55	4,853.47	77.10	24.60	1.45	1,713.09	4,916.41	1,701.34	1,651.51	49.83	34.146		
6,300.00	4,975.06	5,047.99	4,922.71	78.65	24.83	1.26	1,717.40	4,913.53	1,630.68	1,580.17	50.51	32.283		
6,400.00	5,047.18	5,107.00	4,981.62	80.19	25.02	1.14	1,720.28	4,911.70	1,560.44	1,509.15	51.29	30.425		
6,500.00	5,119.31	5,188.81	5,063.39	81.74	25.25	1.07	1,722.24	4,909.96	1,490.30	1,438.48	51.82	28.760		
6,600.00	5,191.43	5,259.48	5,134.05	83.28	25.42	1.14	1,721.55	4,908.86	1,419.76	1,367.32	52.43	27.077		
6,700.00	5,263.56	5,328.35	5,202.89	84.83	25.57	1.27	1,720.00	4,908.28	1,349.41	1,296.34	53.07	25.428		
6,800.00	5,335.68	5,402.81	5,277.33	86.37	25.74	1.43	1,718.27	4,907.59	1,278.99	1,225.37	53.62	23.851		
6,900.00	5,407.81	5,483.72	5,358.21	87.92	25.92	1.62	1,716.40	4,906.35	1,208.18	1,154.10	54.08	22.342		
7,000.00	5,479.93	5,552.30	5,426.76	89.47	26.08	1.80	1,714.79	4,905.03	1,137.10	1,082.38	54.72	20.782		
7,100.00	5,552.06	5,618.44	5,492.87	91.01	26.24	1.98	1,713.40	4,903.90	1,066.22	1,010.81	55.41	19.242		
7,200.00	5,624.18	5,683.88	5,558.29	92.56	26.39	2.16	1,712.41	4,903.00	995.71	939.57	56.14	17.737		
7,300.00	5,696.31	5,751.66	5,626.07	94.10	26.56	2.36	1,711.68	4,902.29	925.51	868.66	56.84	16.282		
7,400.00	5,768.43	5,822.46	5,696.86	95.65	26.73	2.58	1,711.05	4,901.67	855.49	797.99	57.50	14.879		
7,500.00	5,840.56	5,892.56	5,766.96	97.20	26.91	2.84	1,710.52	4,901.05	785.48	727.30	58.18	13.501		
7,600.00	5,912.68	5,961.00	5,835.39	98.74	27.08	3.12	1,710.23	4,900.62	715.75	656.82	58.93	12.145		
7,700.00	5,984.81	6,033.69	5,908.09	100.29	27.27	3.46	1,710.05	4,900.23	646.11	586.54	59.58	10.845		
7,800.00	6,056.93	6,104.43	5,978.83	101.84	27.46	3.86	1,709.96	4,899.80	576.47	516.17	60.31	9.559		
7,900.00	6,129.06	6,175.40	6,049.79	103.38	27.65	4.35	1,710.12	4,899.46	507.01	445.95	61.06	8.303		
8,000.00	6,201.18	6,247.15	6,121.54	104.93	27.85	4.96	1,710.43	4,899.12	437.63	375.79	61.83	7.077		
8,100.00	6,273.31	6,317.76	6,192.15	106.48	28.05	5.77	1,710.86	4,898.92	368.43	305.69	62.75	5.872		
8,200.00	6,345.43	6,389.08	6,263.47	108.02	28.24	6.99	1,711.21	4,898.96	299.52	235.73	63.79	4.695		
8,300.00	6,417.56	6,461.35	6,335.74	109.57	28.43	9.10	1,711.19	4,899.26	230.90	165.72	65.17	3.543		
8,400.00	6,489.68	6,533.99	6,408.38	111.12	28.63	12.95	1,711.20	4,899.44	162.46	94.87	67.59	2.404		
8,500.00	6,561.81	6,606.14	6,480.53	112.66	28.82	22.06	1,711.17	4,899.61	94.98	20.29	74.70	1.272 Level 3		
8,600.00	6,633.93	6,678.52	6,552.91	114.21	29.01	59.51	1,711.03	4,899.71	34.69	-81.97	116.67	0.297 Level 1		
8,631.52	6,656.67	6,701.23	6,575.62	114.70	29.07	89.86	1,710.97	4,899.68	26.93	-111.85	138.78	0.194 Level 1, CC, ES, SF		
8,700.00	6,706.06	6,750.52	6,624.91	115.76	29.21	141.69	1,710.86	4,899.58	54.66	-39.80	94.46	0.579 Level 1		
8,800.00	6,778.18	6,822.55	6,696.94	117.30	29.40	162.19	1,710.77	4,899.46	120.02	45.38	74.64	1.608		
8,900.00	6,850.31	6,894.35	6,768.74	118.85	29.60	168.61	1,710.75	4,899.26	188.34	117.42	70.91	2.656		
9,000.00	6,922.43	6,966.18	6,840.57	120.40	29.80	171.67	1,710.73	4,899.02	257.31	187.29	70.03	3.675		
9,100.00	6,994.56	7,038.05	6,912.44	121.95	30.00	173.44	1,710.67	4,898.77	326.53	256.55	69.98	4.666		
9,200.00	7,066.68	7,110.13	6,984.52	123.49	30.20	174.60	1,710.64	4,898.53	395.84	325.57	70.26	5.634		
9,300.00	7,138.81	7,182.57	7,056.96	125.04	30.41	175.43	1,710.72	4,898.31	465.14	394.42	70.72	6.577		
9,392.50	7,205.52	7,248.15	7,122.53	126.47	30.60	176.02	1,710.89	4,898.03	529.32	458.19	71.13	7.442		
9,400.00	7,210.94	7,253.48	7,127.87	126.59	30.61	174.62	1,710.91	4,898.00	534.52	463.36	71.16	7.511		
9,450.00	7,247.42	7,289.28	7,163.66	127.35	30.72	165.67	1,711.03	4,897.78	568.57	497.25	71.32	7.972		
9,500.00	7,284.35	7,325.40	7,199.79	128.10	30.82	157.27	1,711.14	4,897.53	601.48	530.06	71.42	8.421		
9,550.00	7,321.43	7,361.62	7,236.00	128.83	30.93	149.43	1,711.24	4,897.24	633.15	561.61	71.54	8.850		
9,600.00	7,358.38	7,398.20	7,272.58	129.52	31.04	142.18	1,711.35	4,896.93	663.53	591.75	71.78	9.244		
9,650.00	7,394.93	7,434.33	7,308.71	130.16	31.14	135.55	1,711.48	4,896.60	692.59	620.40	72.19	9.595		
9,700.00	7,430.79	7,469.72	7,344.10	130.76	31.25	129.55	1,711.64	4,896.27	720.38	647.55	72.83	9.891		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,504.11	7,378.48	131.30	31.35	124.17	1,711.82	4,895.94	746.96	673.18	73.77	10.125		
9,800.00	7,499.38	7,537.21	7,411.58	131.78	31.45	119.41	1,712.01	4,895.61	772.41	697.35	75.06	10.291		
9,850.00	7,531.58	7,569.92	7,444.30	132.21	31.54	115.27	1,712.21	4,895.28	796.81	720.06	76.75	10.383		
9,900.00	7,562.06	7,601.57	7,475.94	132.57	31.64	111.69	1,712.38	4,895.03	820.22	741.41	78.81	10.407		
9,950.00	7,590.58	7,631.33	7,505.70	132.87	31.73	108.55	1,712.50	4,894.86	842.74	761.53	81.22	10.376		
10,000.00	7,616.93	7,658.67	7,533.04	133.11	31.81	105.78	1,712.59	4,894.75	864.49	780.57	83.92	10.301		
10,050.00	7,640.90	7,683.42	7,557.79	133.29	31.88	103.32	1,712.67	4,894.68	885.58	798.70	86.88	10.193		
10,100.00	7,662.32	7,705.54	7,579.91	133.42	31.95	101.10	1,712.74	4,894.63	906.10	816.03	90.06	10.061		
10,150.00	7,681.01	7,724.85	7,599.22	133.50	32.00	99.08	1,712.81	4,894.62	926.12	832.71	93.41	9.914		
10,200.00	7,696.85	7,741.19	7,615.56	133.52	32.05	97.22	1,712.86	4,894.61	945.70	848.82	96.88	9.761		
10,250.00	7,709.70	7,753.79	7,628.16	133.51	32.09	95.44	1,712.90	4,894.61	964.88	864.48	100.41	9.610		
10,300.00	7,719.47	7,763.51	7,637.88	133.46	32.12	93.78	1,712.93	4,894.61	983.66	879.69	103.96	9.462		
10,350.00	7,726.09	7,770.08	7,644.45	133.37	32.14	92.21	1,712.94	4,894.61	1,002.00	894.49	107.51	9.320		
10,400.00	7,729.50	7,773.42	7,647.79	133.26	32.15	90.73	1,712.95	4,894.61	1,019.86	908.86	111.00	9.188		
10,427.79	7,730.00	7,773.87	7,648.24	133.18	32.15	89.95	1,712.95	4,894.61	1,029.55	916.64	112.91	9.118		
10,500.00	7,730.00	7,773.72	7,648.08	132.98	32.15	89.95	1,712.95	4,894.61	1,056.67	939.04	117.63	8.983		
10,600.00	7,730.00	7,773.50	7,647.87	132.72	32.15	89.93	1,712.95	4,894.61	1,100.96	977.50	123.46	8.918		
10,700.00	7,730.00	7,773.29	7,647.66	132.47	32.15	89.92	1,712.95	4,894.61	1,152.26	1,023.80	128.46	8.970		
10,800.00	7,730.00	7,773.07	7,647.44	132.22	32.15	89.91	1,712.95	4,894.61	1,209.66	1,076.99	132.66	9.118		
10,900.00	7,730.00	7,772.85	7,647.22	131.99	32.14	89.89	1,712.95	4,894.61	1,272.34	1,136.17	136.17	9.344		
11,000.00	7,730.00	7,772.63	7,647.00	131.77	32.14	89.88	1,712.95	4,894.61	1,339.56	1,200.49	139.06	9.633		
11,100.00	7,730.00	7,772.41	7,646.78	131.56	32.14	89.87	1,712.95	4,894.61	1,410.67	1,269.22	141.45	9.973		
11,200.00	7,730.00	7,772.19	7,646.56	131.36	32.14	89.86	1,712.95	4,894.61	1,485.11	1,341.71	143.40	10.356		
11,300.00	7,730.00	7,771.96	7,646.33	131.17	32.14	89.84	1,712.95	4,894.61	1,562.41	1,417.41	145.00	10.775		
11,400.00	7,730.00	7,771.74	7,646.11	130.99	32.14	89.83	1,712.95	4,894.61	1,642.16	1,495.85	146.32	11.223		
11,500.00	7,730.00	7,771.51	7,645.88	130.82	32.14	89.81	1,712.94	4,894.61	1,724.03	1,576.63	147.39	11.697		
11,600.00	7,730.00	7,771.28	7,645.65	130.66	32.14	89.80	1,712.94	4,894.61	1,807.72	1,659.44	148.27	12.192		
11,700.00	7,730.00	7,771.05	7,645.41	130.51	32.14	89.79	1,712.94	4,894.61	1,892.99	1,743.99	149.00	12.705		
11,800.00	7,730.00	7,770.81	7,645.18	130.37	32.14	89.77	1,712.94	4,894.61	1,979.64	1,830.05	149.59	13.233		
11,900.00	7,730.00	7,770.58	7,644.94	130.24	32.14	89.76	1,712.94	4,894.61	2,067.50	1,917.41	150.08	13.776		
12,000.00	7,730.00	7,770.34	7,644.71	130.13	32.14	89.75	1,712.94	4,894.61	2,156.41	2,005.93	150.48	14.330		
12,100.00	7,730.00	7,770.10	7,644.47	130.02	32.14	89.73	1,712.94	4,894.61	2,246.26	2,095.45	150.81	14.894		
12,200.00	7,730.00	7,769.86	7,644.23	129.93	32.14	89.72	1,712.94	4,894.61	2,336.93	2,185.85	151.08	15.468		
12,300.00	7,730.00	7,769.61	7,643.98	129.85	32.13	89.70	1,712.94	4,894.61	2,428.34	2,277.04	151.30	16.050		
12,400.00	7,730.00	7,769.37	7,643.74	129.77	32.13	89.69	1,712.94	4,894.61	2,520.40	2,368.92	151.48	16.639		
12,500.00	7,730.00	7,769.12	7,643.49	129.71	32.13	89.67	1,712.94	4,894.61	2,613.04	2,461.42	151.62	17.234		
12,600.00	7,730.00	7,768.87	7,643.24	129.66	32.13	89.66	1,712.94	4,894.61	2,706.20	2,554.47	151.74	17.835		
12,700.00	7,730.00	7,768.62	7,642.99	129.63	32.13	89.64	1,712.94	4,894.61	2,799.84	2,648.01	151.83	18.441		
12,800.00	7,730.00	7,768.37	7,642.73	129.60	32.13	89.63	1,712.94	4,894.61	2,893.90	2,742.01	151.90	19.052		
12,900.00	7,730.00	7,768.11	7,642.48	129.59	32.13	89.61	1,712.94	4,894.61	2,988.35	2,836.40	151.95	19.667		
13,000.00	7,730.00	7,767.85	7,642.22	129.59	32.13	89.60	1,712.94	4,894.61	3,083.15	2,931.16	151.99	20.286		
13,100.00	7,730.00	7,767.59	7,641.96	129.60	32.13	89.58	1,712.94	4,894.61	3,178.27	3,026.25	152.01	20.908		
13,200.00	7,730.00	7,767.33	7,641.70	129.63	32.13	89.57	1,712.94	4,894.61	3,273.68	3,121.65	152.03	21.533		
13,300.00	7,730.00	7,767.06	7,641.43	129.66	32.13	89.55	1,712.93	4,894.61	3,369.35	3,217.31	152.04	22.161		
13,400.00	7,730.00	7,766.80	7,641.17	129.72	32.13	89.54	1,712.93	4,894.61	3,465.27	3,313.23	152.04	22.792		
13,500.00	7,730.00	7,766.53	7,640.90	129.78	32.13	89.52	1,712.93	4,894.61	3,561.41	3,409.38	152.03	23.425		
13,600.00	7,730.00	7,766.26	7,640.63	129.86	32.12	89.50	1,712.93	4,894.61	3,657.76	3,505.74	152.02	24.061		
13,700.00	7,730.00	7,765.98	7,640.35	129.96	32.12	89.49	1,712.93	4,894.61	3,754.30	3,602.30	152.01	24.698		
13,800.00	7,730.00	7,765.71	7,640.08	130.07	32.12	89.47	1,712.93	4,894.61	3,851.02	3,699.03	151.99	25.337		
13,900.00	7,730.00	7,765.43	7,639.80	130.19	32.12	89.45	1,712.93	4,894.61	3,947.90	3,795.93	151.97	25.978		
14,000.00	7,730.00	7,765.15	7,639.52	130.33	32.12	89.44	1,712.93	4,894.61	4,044.93	3,892.99	151.95	26.621		
14,100.00	7,730.00	7,764.87	7,639.23	130.49	32.12	89.42	1,712.93	4,894.61	4,142.11	3,990.19	151.92	27.265		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,764.58	7,638.95	130.67	32.12	89.40	1,712.93	4,894.61	4,239.41	4,087.52	151.89	27.910		
14,300.00	7,730.00	7,764.29	7,638.66	130.86	32.12	89.39	1,712.93	4,894.61	4,336.84	4,184.98	151.87	28.557		
14,400.00	7,730.00	7,764.00	7,638.37	131.07	32.12	89.37	1,712.93	4,894.61	4,434.38	4,282.55	151.84	29.205		
14,500.00	7,730.00	7,763.71	7,638.08	131.30	32.12	89.35	1,712.93	4,894.61	4,532.03	4,380.23	151.81	29.854		
14,600.00	7,730.00	7,763.41	7,637.78	131.55	32.12	89.33	1,712.93	4,894.61	4,629.78	4,478.01	151.78	30.504		
14,700.00	7,730.00	7,763.11	7,637.48	131.82	32.12	89.32	1,712.93	4,894.61	4,727.63	4,575.88	151.75	31.155		
14,800.00	7,730.00	7,762.81	7,637.18	132.11	32.11	89.30	1,712.92	4,894.61	4,825.56	4,673.85	151.72	31.807		
14,900.00	7,730.00	7,762.51	7,636.88	132.42	32.11	89.28	1,712.92	4,894.61	4,923.58	4,771.89	151.68	32.459		
15,000.00	7,730.00	7,762.20	7,636.57	132.75	32.11	89.26	1,712.92	4,894.61	5,021.67	4,870.02	151.65	33.113		
15,100.00	7,730.00	7,761.89	7,636.26	133.10	32.11	89.24	1,712.92	4,894.61	5,119.84	4,968.21	151.62	33.767		
15,200.00	7,730.00	7,761.58	7,635.95	133.48	32.11	89.23	1,712.92	4,894.61	5,218.07	5,066.48	151.59	34.422		
15,300.00	7,730.00	7,761.26	7,635.63	133.88	32.11	89.21	1,712.92	4,894.61	5,316.38	5,164.81	151.56	35.077		
15,400.00	7,730.00	7,760.94	7,635.31	134.31	32.11	89.19	1,712.92	4,894.61	5,414.74	5,263.21	151.53	35.733		
15,500.00	7,730.00	7,760.62	7,634.99	134.76	32.11	89.17	1,712.92	4,894.61	5,513.17	5,361.66	151.51	36.389		
15,600.00	7,730.00	7,760.30	7,634.67	135.23	32.11	89.15	1,712.92	4,894.61	5,611.65	5,460.17	151.48	37.046		
15,700.00	7,730.00	7,759.97	7,634.34	135.73	32.11	89.13	1,712.92	4,894.61	5,710.18	5,558.73	151.45	37.704		
15,800.00	7,730.00	7,759.64	7,634.01	136.26	32.11	89.11	1,712.92	4,894.61	5,808.76	5,657.34	151.42	38.362		
15,900.00	7,730.00	7,759.31	7,633.68	136.81	32.10	89.09	1,712.92	4,894.61	5,907.39	5,756.00	151.39	39.020		
16,000.00	7,730.00	7,758.97	7,633.34	137.39	32.10	89.07	1,712.91	4,894.61	6,006.07	5,854.70	151.37	39.679		
16,100.00	7,730.00	7,758.63	7,633.00	138.00	32.10	89.05	1,712.91	4,894.61	6,104.78	5,953.44	151.34	40.338		
16,200.00	7,730.00	7,758.29	7,632.66	138.63	32.10	89.03	1,712.91	4,894.61	6,203.54	6,052.23	151.32	40.997		
16,300.00	7,730.00	7,757.94	7,632.31	139.30	32.10	89.01	1,712.91	4,894.61	6,302.34	6,151.05	151.29	41.657		
16,400.00	7,730.00	7,757.59	7,631.96	139.99	32.10	88.99	1,712.91	4,894.61	6,401.18	6,249.91	151.27	42.316		
16,500.00	7,730.00	7,757.24	7,631.61	140.70	32.10	88.97	1,712.91	4,894.61	6,500.05	6,348.80	151.25	42.977		
16,600.00	7,730.00	7,756.88	7,631.25	141.45	32.10	88.95	1,712.91	4,894.61	6,598.96	6,447.73	151.22	43.637		
16,700.00	7,730.00	7,756.52	7,630.89	142.22	32.10	88.93	1,712.91	4,894.61	6,697.89	6,546.69	151.20	44.298		
16,800.00	7,730.00	7,756.16	7,630.52	143.03	32.10	88.90	1,712.91	4,894.61	6,796.86	6,645.68	151.18	44.958		
16,900.00	7,730.00	7,755.79	7,630.16	143.86	32.09	88.88	1,712.91	4,894.61	6,895.86	6,744.70	151.16	45.619		
17,000.00	7,730.00	7,755.42	7,629.79	144.71	32.09	88.86	1,712.90	4,894.61	6,994.89	6,843.75	151.14	46.280		
17,100.00	7,730.00	7,755.04	7,629.41	145.60	32.09	88.84	1,712.90	4,894.61	7,093.94	6,942.82	151.12	46.942		
17,200.00	7,730.00	7,754.66	7,629.03	146.51	32.09	88.82	1,712.90	4,894.61	7,193.02	7,041.92	151.10	47.603		
17,300.00	7,730.00	7,754.28	7,628.65	147.44	32.09	88.79	1,712.90	4,894.61	7,292.13	7,141.04	151.09	48.265		
17,400.00	7,730.00	7,753.89	7,628.26	148.40	32.09	88.77	1,712.90	4,894.61	7,391.26	7,240.19	151.07	48.926		
17,500.00	7,730.00	7,753.50	7,627.87	149.39	32.09	88.75	1,712.90	4,894.61	7,490.41	7,339.36	151.05	49.588		
17,600.00	7,730.00	7,753.11	7,627.48	150.40	32.09	88.72	1,712.90	4,894.61	7,589.59	7,438.55	151.04	50.250		
17,700.00	7,730.00	7,752.71	7,627.08	151.44	32.08	88.70	1,712.90	4,894.61	7,688.78	7,537.76	151.02	50.912		
17,800.00	7,730.00	7,752.31	7,626.68	152.50	32.08	88.68	1,712.90	4,894.61	7,788.00	7,636.99	151.01	51.574		
17,900.00	7,730.00	7,751.90	7,626.27	153.58	32.08	88.65	1,712.89	4,894.61	7,887.24	7,736.24	150.99	52.236		
18,000.00	7,730.00	7,751.49	7,625.86	154.68	32.08	88.63	1,712.89	4,894.61	7,986.49	7,835.51	150.98	52.898		
18,100.00	7,730.00	7,751.07	7,625.44	155.80	32.08	88.60	1,712.89	4,894.61	8,085.77	7,934.80	150.97	53.560		
18,200.00	7,730.00	7,750.65	7,625.02	156.95	32.08	88.58	1,712.89	4,894.61	8,185.06	8,034.10	150.96	54.222		
18,300.00	7,730.00	7,750.23	7,624.60	158.11	32.08	88.55	1,712.89	4,894.61	8,284.37	8,133.42	150.94	54.884		
18,400.00	7,730.00	7,749.80	7,624.17	159.30	32.08	88.53	1,712.89	4,894.61	8,383.69	8,232.76	150.93	55.546		
18,500.00	7,730.00	7,749.37	7,623.74	160.50	32.08	88.50	1,712.89	4,894.61	8,483.04	8,332.11	150.92	56.208		
18,600.00	7,730.00	7,748.93	7,623.30	161.72	32.07	88.48	1,712.89	4,894.61	8,582.39	8,431.48	150.91	56.869		
18,700.00	7,730.00	7,748.49	7,622.85	162.96	32.07	88.45	1,712.88	4,894.61	8,681.76	8,530.86	150.90	57.531		
18,800.00	7,730.00	7,748.04	7,622.41	164.21	32.07	88.42	1,712.88	4,894.61	8,781.15	8,630.25	150.90	58.193		
18,900.00	7,730.00	7,747.58	7,621.95	165.48	32.07	88.40	1,712.88	4,894.61	8,880.55	8,729.66	150.89	58.855		
19,000.00	7,730.00	7,747.13	7,621.50	166.76	32.07	88.37	1,712.88	4,894.61	8,979.96	8,829.08	150.88	59.517		
19,100.00	7,730.00	7,746.66	7,621.03	168.06	32.07	88.34	1,712.88	4,894.61	9,079.39	8,928.51	150.87	60.179		
19,200.00	7,730.00	7,746.20	7,620.56	169.38	32.07	88.31	1,712.88	4,894.61	9,178.82	9,027.96	150.87	60.840		
19,300.00	7,730.00	7,745.72	7,620.09	170.70	32.06	88.29	1,712.88	4,894.61	9,278.27	9,127.41	150.86	61.502		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,745.24	7,619.61	172.04	32.06	88.26	1,712.87	4,894.61	9,377.73	9,226.88	150.86	62.163	
19,500.00	7,730.00	7,744.76	7,619.13	173.40	32.06	88.23	1,712.87	4,894.61	9,477.21	9,326.36	150.85	62.824	
19,600.00	7,730.00	7,744.27	7,618.64	174.76	32.06	88.20	1,712.87	4,894.61	9,576.69	9,425.84	150.85	63.486	
19,700.00	7,730.00	7,743.77	7,618.14	176.14	32.06	88.17	1,712.87	4,894.61	9,676.19	9,525.34	150.84	64.147	
19,800.00	7,730.00	7,743.27	7,617.64	177.52	32.06	88.14	1,712.87	4,894.61	9,775.69	9,624.85	150.84	64.808	
19,900.00	7,730.00	7,742.76	7,617.13	178.92	32.06	88.11	1,712.87	4,894.61	9,875.21	9,724.37	150.84	65.469	
20,000.00	7,730.00	7,742.25	7,616.62	180.33	32.05	88.08	1,712.87	4,894.61	9,974.73	9,823.89	150.84	66.130	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.76	776.88	5,367.76	5,424.30					
100.00	100.00	0.00	0.00	0.13	0.00	81.76	776.88	5,367.76	5,423.72	5,423.59	0.13	N/A		
200.00	199.98	67.33	67.33	0.49	0.11	11.31	777.21	5,368.04	5,422.55	5,421.94	0.60	9,023.415		
300.00	299.84	138.00	137.98	0.86	0.23	11.33	778.26	5,368.92	5,418.80	5,417.72	1.08	5,023.678		
400.00	399.45	164.80	164.77	1.23	0.33	11.35	778.90	5,369.48	5,412.47	5,410.93	1.54	3,514.353		
500.00	498.70	200.49	200.43	1.63	0.46	11.38	780.06	5,370.55	5,403.94	5,401.90	2.04	2,652.025		
600.00	597.47	229.00	228.89	2.05	0.56	11.43	781.23	5,371.67	5,393.18	5,390.67	2.51	2,145.645		
700.00	695.62	267.14	266.94	2.51	0.70	11.48	783.01	5,373.62	5,380.23	5,377.20	3.03	1,774.748		
800.00	793.06	320.00	319.61	3.00	0.90	11.54	785.63	5,377.24	5,365.26	5,361.66	3.61	1,486.647		
900.00	889.64	320.00	319.61	3.53	0.90	11.61	785.63	5,377.24	5,347.93	5,343.93	4.00	1,336.624		
1,000.00	985.27	373.10	372.43	4.12	1.10	11.70	788.54	5,381.79	5,328.39	5,323.80	4.60	1,158.907		
1,100.00	1,079.82	411.00	410.08	4.75	1.26	11.80	790.84	5,385.48	5,306.62	5,301.48	5.15	1,031.204		
1,200.00	1,173.17	451.50	450.25	5.44	1.42	11.91	793.62	5,389.82	5,282.59	5,276.87	5.72	923.818		
1,300.00	1,265.21	503.00	501.22	6.18	1.63	12.04	797.82	5,395.92	5,256.35	5,250.01	6.34	828.914		
1,400.00	1,355.84	529.09	526.97	6.99	1.75	12.17	800.26	5,399.25	5,227.81	5,220.92	6.88	759.313		
1,500.00	1,444.94	568.14	565.45	7.87	1.92	12.31	804.37	5,404.51	5,197.07	5,189.58	7.49	693.865		
1,600.00	1,532.39	594.00	590.87	8.80	2.03	12.46	807.39	5,408.18	5,164.17	5,156.11	8.06	640.958		
1,700.00	1,618.11	659.45	654.99	9.81	2.34	12.62	816.14	5,417.92	5,128.81	5,120.01	8.80	582.904		
1,800.00	1,701.97	705.51	699.94	10.89	2.56	12.80	823.22	5,425.09	5,091.15	5,081.67	9.48	537.075		
1,900.00	1,783.88	748.44	741.69	12.04	2.78	12.98	830.30	5,432.11	5,051.23	5,041.06	10.16	496.936		
2,000.00	1,863.74	801.57	793.19	13.26	3.05	13.19	839.66	5,441.22	5,009.05	4,998.14	10.91	459.140		
2,100.00	1,941.45	877.21	866.27	14.55	3.45	13.40	854.14	5,454.30	4,964.22	4,952.46	11.76	422.002		
2,200.00	2,016.92	977.12	962.48	15.92	4.00	13.61	875.16	5,471.20	4,916.32	4,903.58	12.75	385.720		
2,292.11	2,084.36	1,036.27	1,019.25	17.25	4.33	13.84	888.40	5,481.15	4,869.72	4,856.19	13.53	360.045		
2,300.00	2,090.06	1,041.30	1,024.08	17.36	4.36	13.84	889.55	5,482.00	4,865.63	4,852.04	13.60	357.887		
2,400.00	2,162.18	1,124.23	1,103.46	18.84	4.83	13.79	908.97	5,496.10	4,814.00	4,799.47	14.53	331.305		
2,500.00	2,234.31	1,304.00	1,276.02	20.33	5.86	13.68	950.68	5,524.33	4,760.94	4,745.05	15.89	299.606		
2,600.00	2,306.43	1,375.54	1,344.85	21.83	6.26	13.64	966.90	5,535.22	4,707.68	4,690.90	16.78	280.475		
2,700.00	2,378.56	1,443.57	1,410.17	23.33	6.65	13.60	982.70	5,545.72	4,654.69	4,637.02	17.67	263.381		
2,800.00	2,450.68	1,504.68	1,468.71	24.84	7.01	13.55	997.36	5,555.34	4,602.08	4,583.54	18.54	248.186		
2,900.00	2,522.81	1,561.72	1,523.22	26.36	7.35	13.51	1,011.41	5,564.57	4,549.95	4,530.55	19.41	234.470		
3,000.00	2,594.93	1,618.00	1,576.91	27.88	7.68	13.46	1,025.38	5,574.03	4,498.38	4,478.11	20.27	221.899		
3,100.00	2,667.06	1,704.58	1,659.55	29.40	8.20	13.39	1,046.51	5,588.91	4,447.09	4,425.83	21.27	209.112		
3,200.00	2,739.18	1,841.75	1,791.26	30.92	9.00	13.32	1,076.88	5,612.20	4,395.25	4,372.81	22.44	195.882		
3,300.00	2,811.31	2,009.62	1,953.85	32.45	9.92	13.31	1,108.67	5,639.22	4,342.23	4,318.56	23.67	183.426		
3,400.00	2,883.43	2,086.50	2,028.79	33.98	10.32	13.34	1,120.88	5,651.29	4,288.38	4,263.80	24.58	174.443		
3,500.00	2,955.56	2,147.82	2,088.61	35.51	10.63	13.38	1,129.90	5,661.26	4,234.84	4,209.40	25.45	166.426		
3,600.00	3,027.68	2,179.00	2,119.02	37.04	10.79	13.41	1,134.41	5,666.46	4,181.91	4,155.68	26.23	159.434		
3,700.00	3,099.81	2,232.78	2,171.36	38.57	11.07	13.44	1,142.37	5,675.96	4,129.74	4,102.65	27.09	152.446		
3,800.00	3,171.93	2,272.00	2,209.37	40.11	11.28	13.47	1,148.45	5,683.43	4,078.69	4,050.77	27.92	146.109		
3,900.00	3,244.06	2,315.57	2,251.48	41.64	11.52	13.49	1,155.40	5,692.17	4,028.58	3,999.81	28.77	140.047		
4,000.00	3,316.18	2,366.00	2,300.11	43.18	11.81	13.52	1,163.62	5,702.75	3,979.33	3,949.69	29.64	134.241		
4,100.00	3,388.31	2,445.27	2,376.37	44.71	12.26	13.55	1,176.99	5,719.74	3,930.60	3,899.98	30.61	128.394		
4,200.00	3,460.43	2,515.53	2,443.89	46.25	12.67	13.58	1,189.12	5,734.90	3,882.06	3,850.50	31.56	122.995		
4,300.00	3,532.56	2,606.91	2,531.67	47.79	13.20	13.62	1,204.70	5,754.98	3,833.85	3,801.27	32.58	117.692		
4,400.00	3,604.68	2,777.67	2,696.23	49.33	14.18	13.70	1,233.83	5,790.02	3,784.21	3,750.42	33.78	112.012		
4,500.00	3,676.81	2,852.71	2,768.63	50.87	14.61	13.73	1,246.84	5,804.81	3,734.02	3,699.27	34.75	107.455		
4,600.00	3,748.93	2,951.30	2,863.67	52.41	15.17	13.75	1,264.71	5,824.01	3,683.75	3,647.97	35.77	102.974		
4,700.00	3,821.06	3,006.67	2,916.87	53.95	15.49	13.75	1,275.57	5,834.85	3,633.78	3,597.08	36.71	98.994		
4,800.00	3,893.18	3,126.11	3,031.46	55.49	16.20	13.73	1,300.01	5,858.06	3,583.83	3,546.05	37.78	94.866		
4,900.00	3,965.31	3,189.54	3,092.39	57.03	16.57	13.73	1,312.66	5,870.34	3,533.73	3,494.99	38.74	91.225		
5,000.00	4,037.43	3,280.16	3,179.48	58.58	17.10	13.73	1,330.09	5,888.32	3,483.95	3,444.20	39.75	87.651		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,351.61	3,248.22	60.12	17.52	13.74	1,343.46	5,902.53	3,434.14	3,393.41	40.73	84.316		
5,200.00	4,181.68	3,423.91	3,317.60	61.66	17.95	13.75	1,357.37	5,917.31	3,384.87	3,343.16	41.72	81.141		
5,300.00	4,253.81	3,515.01	3,404.97	63.20	18.49	13.75	1,375.33	5,935.90	3,335.65	3,292.92	42.73	78.055		
5,400.00	4,325.93	3,603.09	3,489.35	64.75	19.02	13.74	1,393.18	5,953.72	3,286.36	3,242.62	43.75	75.121		
5,500.00	4,398.06	3,709.98	3,591.81	66.29	19.66	13.73	1,414.68	5,975.30	3,237.07	3,192.29	44.78	72.288		
5,600.00	4,470.18	3,813.70	3,691.67	67.84	20.26	13.73	1,434.54	5,995.11	3,186.54	3,140.74	45.80	69.571		
5,700.00	4,542.31	3,874.73	3,750.35	69.38	20.62	13.74	1,446.21	6,007.16	3,136.64	3,089.85	46.79	67.035		
5,800.00	4,614.43	3,954.23	3,826.67	70.92	21.09	13.74	1,461.67	6,023.18	3,087.15	3,039.35	47.80	64.587		
5,900.00	4,686.56	4,041.63	3,910.60	72.47	21.60	13.75	1,478.34	6,040.95	3,037.77	2,988.96	48.81	62.233		
6,000.00	4,758.68	4,163.22	4,027.74	74.01	22.30	13.79	1,500.34	6,064.98	2,987.71	2,937.87	49.84	59.951		
6,100.00	4,830.81	4,222.72	4,085.06	75.56	22.65	13.81	1,511.18	6,076.74	2,937.71	2,886.86	50.85	57.775		
6,200.00	4,902.93	4,358.11	4,215.37	77.10	23.43	13.83	1,537.00	6,102.80	2,887.38	2,835.53	51.85	55.692		
6,300.00	4,975.06	4,430.39	4,284.93	78.65	23.85	13.82	1,551.35	6,116.20	2,836.54	2,783.69	52.86	53.666		
6,400.00	5,047.18	4,528.71	4,379.57	80.19	24.42	13.82	1,570.79	6,134.44	2,785.71	2,731.86	53.85	51.732		
6,500.00	5,119.31	4,604.09	4,452.06	81.74	24.86	13.80	1,586.10	6,148.38	2,734.89	2,680.03	54.86	49.851		
6,600.00	5,191.43	4,755.68	4,597.91	83.28	25.73	13.74	1,617.78	6,174.83	2,683.35	2,627.60	55.75	48.135		
6,700.00	5,263.56	4,885.27	4,723.47	84.83	26.44	13.73	1,642.85	6,194.82	2,629.71	2,573.08	56.63	46.437		
6,800.00	5,335.68	4,969.60	4,805.27	86.37	26.89	13.72	1,659.20	6,207.15	2,575.47	2,517.87	57.60	44.716		
6,900.00	5,407.81	5,135.89	4,967.07	87.92	27.75	13.72	1,680.17	6,229.77	2,520.60	2,462.32	58.29	43.246		
7,000.00	5,479.93	5,255.40	5,084.50	89.47	28.30	13.84	1,708.04	6,242.91	2,462.60	2,403.50	59.10	41.667		
7,100.00	5,552.06	5,336.90	5,164.95	91.01	28.65	14.00	1,717.37	6,252.00	2,404.43	2,344.34	60.09	40.016		
7,200.00	5,624.18	5,431.27	5,258.28	92.56	29.05	14.26	1,726.44	6,262.61	2,346.13	2,285.09	61.04	38.435		
7,300.00	5,696.31	5,759.08	5,584.63	94.10	30.15	15.62	1,745.77	6,283.65	2,284.63	2,224.00	60.63	37.681		
7,400.00	5,768.43	5,875.50	5,701.04	95.65	30.43	16.36	1,746.58	6,283.88	2,216.98	2,155.61	61.37	36.126		
7,500.00	5,840.56	5,964.75	5,790.28	97.20	30.63	16.98	1,746.90	6,282.82	2,148.41	2,086.11	62.31	34.482		
7,600.00	5,912.68	6,042.01	5,867.53	98.74	30.80	17.56	1,747.21	6,281.55	2,079.64	2,016.28	63.37	32.820		
7,700.00	5,984.81	6,118.40	5,943.90	100.29	30.97	18.16	1,747.56	6,280.08	2,010.78	1,946.31	64.47	31.187		
7,800.00	6,056.93	6,189.15	6,014.64	101.84	31.13	18.77	1,747.89	6,278.64	1,941.95	1,876.27	65.68	29.565		
7,900.00	6,129.06	6,258.76	6,084.24	103.38	31.28	19.40	1,748.14	6,277.23	1,873.26	1,806.29	66.97	27.973		
8,000.00	6,201.18	6,330.74	6,156.20	104.93	31.44	20.11	1,748.26	6,275.83	1,804.75	1,736.45	68.29	26.426		
8,100.00	6,273.31	6,404.38	6,229.82	106.48	31.61	20.91	1,747.91	6,274.30	1,736.27	1,666.57	69.69	24.913		
8,200.00	6,345.43	6,471.18	6,296.61	108.02	31.75	21.71	1,747.33	6,272.97	1,668.03	1,596.76	71.27	23.406		
8,300.00	6,417.56	6,533.95	6,359.36	109.57	31.89	22.51	1,746.84	6,271.93	1,600.25	1,527.26	72.99	21.924		
8,400.00	6,489.68	6,599.18	6,424.59	111.12	32.04	23.38	1,746.84	6,271.17	1,533.09	1,458.30	74.79	20.499		
8,500.00	6,561.81	6,671.75	6,497.15	112.66	32.22	24.41	1,747.10	6,270.38	1,466.27	1,389.65	76.62	19.136		
8,600.00	6,633.93	6,739.01	6,564.42	114.21	32.38	25.44	1,747.43	6,269.72	1,399.83	1,321.16	78.67	17.793		
8,700.00	6,706.06	6,806.94	6,632.34	115.76	32.55	26.58	1,747.74	6,269.26	1,333.96	1,253.07	80.88	16.492		
8,800.00	6,778.18	6,875.49	6,700.88	117.30	32.72	27.83	1,747.86	6,268.98	1,268.67	1,185.38	83.30	15.231		
8,900.00	6,850.31	6,944.66	6,770.06	118.85	32.89	29.23	1,747.75	6,268.85	1,204.04	1,118.10	85.94	14.010		
9,000.00	6,922.43	7,015.12	6,840.52	120.40	33.05	30.80	1,747.44	6,268.84	1,140.11	1,051.25	88.85	12.831		
9,100.00	6,994.56	7,085.91	6,911.31	121.95	33.22	32.55	1,746.93	6,268.90	1,076.94	984.85	92.09	11.695		
9,200.00	7,066.68	7,156.68	6,982.07	123.49	33.39	34.49	1,746.16	6,269.02	1,014.67	918.96	95.71	10.602		
9,300.00	7,138.81	7,227.20	7,052.59	125.04	33.56	36.64	1,745.25	6,269.22	953.49	853.72	99.77	9.557		
9,392.50	7,205.52	7,295.58	7,120.96	126.47	33.73	38.95	1,744.39	6,269.41	897.97	794.04	103.92	8.641		
9,400.00	7,210.94	7,301.16	7,126.54	126.59	33.74	37.87	1,744.33	6,269.42	893.49	789.22	104.27	8.569		
9,450.00	7,247.42	7,338.72	7,164.10	127.35	33.83	30.31	1,743.93	6,269.46	863.01	756.61	106.39	8.111		
9,500.00	7,284.35	7,375.11	7,200.48	128.10	33.92	22.03	1,743.51	6,269.49	831.48	723.34	108.14	7.689		
9,550.00	7,321.43	7,412.04	7,237.41	128.83	34.01	13.16	1,743.03	6,269.52	799.00	689.56	109.44	7.301		
9,600.00	7,358.38	7,448.29	7,273.65	129.52	34.10	3.77	1,742.50	6,269.55	765.70	655.47	110.23	6.946		
9,650.00	7,394.93	7,484.07	7,309.43	130.16	34.18	-6.04	1,741.92	6,269.61	731.81	621.36	110.44	6.626		
9,700.00	7,430.79	7,519.35	7,344.70	130.76	34.27	-16.12	1,741.27	6,269.70	697.58	587.58	109.99	6.342		
9,750.00	7,465.70	7,553.88	7,379.23	131.30	34.35	-26.35	1,740.63	6,269.82	663.35	554.56	108.79	6.098		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,800.00	7,499.38	7,587.35	7,412.69	131.78	34.44	-36.53	1,740.01	6,269.99	629.56	522.85	106.71	5.900	
9,850.00	7,531.58	7,619.59	7,444.93	132.21	34.51	-46.42	1,739.42	6,270.18	596.78	493.13	103.65	5.758	
9,900.00	7,562.06	7,650.40	7,475.73	132.57	34.59	-55.77	1,738.87	6,270.40	565.70	466.17	99.53	5.684	
9,950.00	7,590.58	7,679.34	7,504.66	132.87	34.66	-64.33	1,738.36	6,270.61	537.17	442.83	94.34	5.694	
10,000.00	7,616.93	7,706.18	7,531.50	133.11	34.73	-71.90	1,737.89	6,270.83	512.20	423.94	88.26	5.803	
10,050.00	7,640.90	7,729.81	7,555.13	133.29	34.79	-78.29	1,737.49	6,271.06	491.92	410.07	81.85	6.010	
10,100.00	7,662.32	7,751.20	7,576.51	133.42	34.85	-83.57	1,737.14	6,271.32	477.46	401.28	76.18	6.267	
10,150.00	7,681.01	7,770.01	7,595.32	133.50	34.89	-87.72	1,736.84	6,271.57	469.84	396.90	72.94	6.441	
10,175.47	7,689.44	7,778.55	7,603.85	133.51	34.92	-89.41	1,736.70	6,271.70	468.84	396.10	72.74	6.445 CC, ES	
10,200.00	7,696.85	7,786.08	7,611.39	133.52	34.93	-90.76	1,736.58	6,271.81	469.78	396.22	73.57	6.386	
10,250.00	7,709.70	7,799.49	7,624.80	133.51	34.97	-92.71	1,736.38	6,272.03	477.58	399.65	77.93	6.128	
10,300.00	7,719.47	7,810.40	7,635.70	133.46	35.00	-93.59	1,736.20	6,272.21	493.04	408.48	84.56	5.831	
10,350.00	7,726.09	7,818.10	7,643.40	133.37	35.02	-93.26	1,736.07	6,272.34	515.55	423.64	91.91	5.609	
10,400.00	7,729.50	7,822.52	7,647.82	133.26	35.03	-91.57	1,736.00	6,272.41	544.22	445.26	98.96	5.499	
10,427.79	7,730.00	7,823.53	7,648.83	133.18	35.03	-89.98	1,735.98	6,272.43	562.43	459.90	102.53	5.485 SF	
10,500.00	7,730.00	7,824.81	7,650.10	132.98	35.03	-90.15	1,735.96	6,272.45	613.92	503.16	110.76	5.543	
10,600.00	7,730.00	7,826.59	7,651.89	132.72	35.04	-90.40	1,735.93	6,272.48	691.38	571.38	119.99	5.762	
10,700.00	7,730.00	7,828.40	7,653.70	132.47	35.04	-90.65	1,735.90	6,272.50	774.02	646.89	127.12	6.089	
10,800.00	7,730.00	7,830.24	7,655.53	132.22	35.05	-90.91	1,735.87	6,272.53	860.34	727.70	132.65	6.486	
10,900.00	7,730.00	7,832.09	7,657.39	131.99	35.05	-91.17	1,735.83	6,272.56	949.35	812.37	136.98	6.930	
11,000.00	7,730.00	7,833.98	7,659.27	131.77	35.06	-91.43	1,735.80	6,272.59	1,040.36	899.92	140.44	7.408	
11,100.00	7,730.00	7,835.89	7,661.18	131.56	35.06	-91.69	1,735.77	6,272.63	1,132.88	989.64	143.24	7.909	
11,200.00	7,730.00	7,837.82	7,663.11	131.36	35.07	-91.96	1,735.73	6,272.66	1,226.57	1,081.04	145.53	8.428	
11,300.00	7,730.00	7,839.78	7,665.07	131.17	35.07	-92.23	1,735.69	6,272.69	1,321.19	1,173.74	147.45	8.961	
11,400.00	7,730.00	7,841.77	7,667.06	130.99	35.08	-92.51	1,735.66	6,272.72	1,416.54	1,267.49	149.06	9.503	
11,500.00	7,730.00	7,843.78	7,669.07	130.82	35.08	-92.79	1,735.62	6,272.75	1,512.49	1,362.07	150.43	10.055	
11,600.00	7,730.00	7,845.83	7,671.12	130.66	35.09	-93.07	1,735.58	6,272.78	1,608.93	1,457.33	151.60	10.613	
11,700.00	7,730.00	7,847.90	7,673.19	130.51	35.09	-93.36	1,735.55	6,272.82	1,705.78	1,553.15	152.63	11.176	
11,800.00	7,730.00	7,850.00	7,675.29	130.37	35.10	-93.65	1,735.51	6,272.85	1,802.97	1,649.45	153.52	11.744	
11,900.00	7,730.00	7,852.13	7,677.42	130.24	35.10	-93.95	1,735.47	6,272.89	1,900.45	1,746.14	154.31	12.316	
12,000.00	7,730.00	7,854.29	7,679.58	130.13	35.11	-94.24	1,735.43	6,272.92	1,998.18	1,843.17	155.01	12.891	
12,100.00	7,730.00	7,856.48	7,681.77	130.02	35.12	-94.55	1,735.38	6,272.95	2,096.12	1,940.48	155.64	13.468	
12,200.00	7,730.00	7,858.70	7,683.99	129.93	35.12	-94.85	1,735.34	6,272.99	2,194.24	2,038.05	156.20	14.048	
12,300.00	7,730.00	7,860.96	7,686.24	129.85	35.13	-95.16	1,735.30	6,273.02	2,292.53	2,135.82	156.70	14.630	
12,400.00	7,730.00	7,863.25	7,688.53	129.77	35.13	-95.48	1,735.25	6,273.06	2,390.95	2,233.79	157.16	15.213	
12,500.00	7,730.00	7,865.57	7,690.86	129.71	35.14	-95.80	1,735.21	6,273.10	2,489.50	2,331.92	157.58	15.798	
12,600.00	7,730.00	7,867.93	7,693.21	129.66	35.15	-96.12	1,735.16	6,273.13	2,588.16	2,430.19	157.97	16.384	
12,700.00	7,730.00	7,870.32	7,695.60	129.63	35.15	-96.45	1,735.11	6,273.17	2,686.91	2,528.60	158.32	16.972	
12,800.00	7,730.00	7,872.75	7,698.03	129.60	35.16	-96.78	1,735.06	6,273.21	2,785.76	2,627.11	158.64	17.560	
12,900.00	7,730.00	7,875.22	7,700.50	129.59	35.16	-97.12	1,735.01	6,273.25	2,884.68	2,725.74	158.94	18.149	
13,000.00	7,730.00	7,877.72	7,703.00	129.59	35.17	-97.46	1,734.96	6,273.29	2,983.67	2,824.45	159.22	18.739	
13,100.00	7,730.00	7,880.27	7,705.54	129.60	35.18	-97.81	1,734.91	6,273.33	3,082.72	2,923.24	159.48	19.330	
13,200.00	7,730.00	7,882.85	7,708.13	129.63	35.18	-98.16	1,734.86	6,273.37	3,181.83	3,022.12	159.72	19.922	
13,300.00	7,730.00	7,885.47	7,710.75	129.66	35.19	-98.51	1,734.80	6,273.41	3,281.00	3,121.05	159.94	20.514	
13,400.00	7,730.00	7,888.14	7,713.41	129.72	35.20	-98.87	1,734.75	6,273.45	3,380.21	3,220.05	160.15	21.106	
13,500.00	7,730.00	7,890.84	7,716.12	129.78	35.20	-99.24	1,734.69	6,273.49	3,479.46	3,319.11	160.35	21.699	
13,600.00	7,730.00	7,893.60	7,718.87	129.86	35.21	-99.61	1,734.63	6,273.53	3,578.76	3,418.22	160.54	22.292	
13,700.00	7,730.00	7,896.39	7,721.67	129.96	35.22	-99.99	1,734.57	6,273.57	3,678.09	3,517.37	160.72	22.885	
13,800.00	7,730.00	7,899.23	7,724.51	130.07	35.23	-100.37	1,734.51	6,273.62	3,777.46	3,616.57	160.88	23.479	
13,900.00	7,730.00	7,902.12	7,727.39	130.19	35.23	-100.75	1,734.44	6,273.66	3,876.85	3,715.81	161.04	24.073	
14,000.00	7,730.00	7,905.06	7,730.33	130.33	35.24	-101.14	1,734.38	6,273.71	3,976.28	3,815.08	161.19	24.668	
14,100.00	7,730.00	7,908.05	7,733.32	130.49	35.25	-101.54	1,734.31	6,273.75	4,075.73	3,914.39	161.34	25.262	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,903.15	7,728.42	130.67	35.24	-100.89	1,734.43	6,273.68	4,175.22	4,013.74	161.48	25.857		
14,300.00	7,730.00	7,904.95	7,730.22	130.86	35.24	-101.13	1,734.39	6,273.71	4,274.72	4,113.12	161.61	26.452		
14,400.00	7,730.00	7,906.73	7,732.00	131.07	35.25	-101.37	1,734.36	6,273.74	4,374.25	4,212.52	161.73	27.047		
14,500.00	7,730.00	7,908.50	7,733.77	131.30	35.25	-101.60	1,734.32	6,273.76	4,473.79	4,311.94	161.85	27.642		
14,600.00	7,730.00	7,910.27	7,735.54	131.55	35.25	-101.84	1,734.28	6,273.79	4,573.36	4,411.40	161.96	28.237		
14,700.00	7,730.00	7,912.02	7,737.29	131.82	35.26	-102.07	1,734.25	6,273.82	4,672.94	4,510.87	162.07	28.833		
14,800.00	7,730.00	7,913.76	7,739.03	132.11	35.26	-102.30	1,734.21	6,273.84	4,772.54	4,610.36	162.18	29.428		
14,900.00	7,730.00	7,915.50	7,740.76	132.42	35.27	-102.53	1,734.18	6,273.87	4,872.15	4,709.88	162.28	30.024		
15,000.00	7,730.00	7,917.22	7,742.49	132.75	35.27	-102.75	1,734.14	6,273.90	4,971.78	4,809.41	162.37	30.619		
15,100.00	7,730.00	7,918.93	7,744.20	133.10	35.28	-102.98	1,734.11	6,273.93	5,071.43	4,908.96	162.47	31.215		
15,200.00	7,730.00	7,920.63	7,745.90	133.48	35.28	-103.20	1,734.07	6,273.95	5,171.08	5,008.53	162.56	31.811		
15,300.00	7,730.00	7,922.33	7,747.59	133.88	35.29	-103.42	1,734.04	6,273.98	5,270.75	5,108.11	162.64	32.407		
15,400.00	7,730.00	7,924.01	7,749.27	134.31	35.29	-103.64	1,734.01	6,274.01	5,370.43	5,207.70	162.73	33.002		
15,500.00	7,730.00	7,925.68	7,750.95	134.76	35.29	-103.86	1,733.97	6,274.03	5,470.12	5,307.31	162.81	33.598		
15,600.00	7,730.00	7,927.35	7,752.61	135.23	35.30	-104.08	1,733.94	6,274.06	5,569.83	5,406.94	162.89	34.194		
15,700.00	7,730.00	7,929.00	7,754.26	135.73	35.30	-104.29	1,733.91	6,274.09	5,669.54	5,506.57	162.97	34.790		
15,800.00	7,730.00	7,930.64	7,755.91	136.26	35.31	-104.50	1,733.87	6,274.11	5,769.26	5,606.22	163.04	35.386		
15,900.00	7,730.00	7,932.28	7,757.54	136.81	35.31	-104.72	1,733.84	6,274.14	5,868.99	5,705.88	163.11	35.981		
16,000.00	7,730.00	7,933.91	7,759.17	137.39	35.32	-104.93	1,733.81	6,274.16	5,968.73	5,805.55	163.18	36.577		
16,100.00	7,730.00	7,935.52	7,760.78	138.00	35.32	-105.13	1,733.78	6,274.19	6,068.48	5,905.22	163.25	37.173		
16,200.00	7,730.00	7,937.13	7,762.39	138.63	35.32	-105.34	1,733.75	6,274.21	6,168.23	6,004.91	163.32	37.768		
16,300.00	7,730.00	7,938.73	7,763.99	139.30	35.33	-105.54	1,733.71	6,274.24	6,267.99	6,104.61	163.38	38.364		
16,400.00	7,730.00	7,940.32	7,765.58	139.99	35.33	-105.75	1,733.68	6,274.27	6,367.76	6,204.31	163.45	38.959		
16,500.00	7,730.00	7,941.90	7,767.16	140.70	35.34	-105.95	1,733.65	6,274.29	6,467.54	6,304.03	163.51	39.555		
16,600.00	7,730.00	7,943.47	7,768.73	141.45	35.34	-106.15	1,733.62	6,274.32	6,567.32	6,403.75	163.57	40.150		
16,700.00	7,730.00	7,945.03	7,770.29	142.22	35.34	-106.35	1,733.59	6,274.34	6,667.11	6,503.48	163.63	40.745		
16,800.00	7,730.00	7,946.59	7,771.85	143.03	35.35	-106.55	1,733.56	6,274.37	6,766.90	6,603.21	163.69	41.341		
16,900.00	7,730.00	7,948.13	7,773.39	143.86	35.35	-106.74	1,733.53	6,274.39	6,866.70	6,702.96	163.74	41.936		
17,000.00	7,730.00	7,949.67	7,774.93	144.71	35.36	-106.94	1,733.50	6,274.42	6,966.50	6,802.71	163.80	42.531		
17,100.00	7,730.00	7,951.20	7,776.46	145.60	35.36	-107.13	1,733.47	6,274.44	7,066.31	6,902.46	163.85	43.126		
17,200.00	7,730.00	7,952.72	7,777.98	146.51	35.36	-107.32	1,733.45	6,274.46	7,166.13	7,002.22	163.91	43.721		
17,300.00	7,730.00	7,954.23	7,779.49	147.44	35.37	-107.51	1,733.42	6,274.49	7,265.95	7,101.99	163.96	44.316		
17,400.00	7,730.00	7,955.74	7,780.99	148.40	35.37	-107.70	1,733.39	6,274.51	7,365.77	7,201.76	164.01	44.910		
17,500.00	7,730.00	7,957.23	7,782.49	149.39	35.38	-107.88	1,733.36	6,274.54	7,465.60	7,301.54	164.06	45.505		
17,600.00	7,730.00	7,958.72	7,783.97	150.40	35.38	-108.07	1,733.33	6,274.56	7,565.43	7,401.32	164.11	46.099		
17,700.00	7,730.00	7,960.20	7,785.45	151.44	35.38	-108.25	1,733.30	6,274.59	7,665.27	7,501.11	164.16	46.694		
17,800.00	7,730.00	7,961.67	7,786.92	152.50	35.39	-108.44	1,733.28	6,274.61	7,765.11	7,600.90	164.21	47.288		
17,900.00	7,730.00	7,963.14	7,788.39	153.58	35.39	-108.62	1,733.25	6,274.63	7,864.95	7,700.70	164.26	47.882		
18,000.00	7,730.00	7,964.59	7,789.84	154.68	35.39	-108.80	1,733.22	6,274.66	7,964.80	7,800.50	164.30	48.476		
18,100.00	7,730.00	7,966.04	7,791.29	155.80	35.40	-108.98	1,733.20	6,274.68	8,064.65	7,900.30	164.35	49.070		
18,200.00	7,730.00	7,967.48	7,792.73	156.95	35.40	-109.15	1,733.17	6,274.70	8,164.51	8,000.11	164.40	49.663		
18,300.00	7,730.00	7,968.91	7,794.16	158.11	35.41	-109.33	1,733.14	6,274.73	8,264.36	8,099.92	164.44	50.257		
18,400.00	7,730.00	7,970.34	7,795.59	159.30	35.41	-109.50	1,733.12	6,274.75	8,364.22	8,199.74	164.49	50.850		
18,500.00	7,730.00	7,971.76	7,797.00	160.50	35.41	-109.68	1,733.09	6,274.77	8,464.09	8,299.56	164.53	51.444		
18,600.00	7,730.00	7,973.17	7,798.41	161.72	35.42	-109.85	1,733.06	6,274.80	8,563.95	8,399.38	164.58	52.037		
18,700.00	7,730.00	7,974.57	7,799.82	162.96	35.42	-110.02	1,733.04	6,274.82	8,663.82	8,499.20	164.62	52.630		
18,800.00	7,730.00	7,975.96	7,801.21	164.21	35.42	-110.19	1,733.01	6,274.84	8,763.70	8,599.03	164.66	53.222		
18,900.00	7,730.00	7,977.35	7,802.60	165.48	35.43	-110.36	1,732.99	6,274.87	8,863.57	8,698.87	164.70	53.815		
19,000.00	7,730.00	7,978.73	7,803.98	166.76	35.43	-110.52	1,732.96	6,274.89	8,963.45	8,798.70	164.75	54.408		
19,100.00	7,730.00	7,980.10	7,805.35	168.06	35.44	-110.69	1,732.94	6,274.91	9,063.33	8,898.54	164.79	54.999		
19,200.00	7,730.00	7,981.48	7,806.72	169.38	35.44	-110.86	1,732.92	6,274.93	9,163.21	8,998.42	164.83	55.591		
19,300.00	7,730.00	7,982.86	7,808.09	170.70	35.44	-111.03	1,732.90	6,274.95	9,263.09	9,098.30	164.87	56.184		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,985.11	7,810.35	172.04	35.45	-111.29	1,732.85	6,274.99	9,362.98	9,198.07	164.91	56.776	
19,500.00	7,730.00	7,987.54	7,812.78	173.40	35.45	-111.58	1,732.80	6,275.04	9,462.87	9,297.91	164.95	57.367	
19,600.00	7,730.00	7,989.99	7,815.23	174.76	35.46	-111.87	1,732.76	6,275.08	9,562.76	9,397.76	165.00	57.958	
19,700.00	7,730.00	7,992.46	7,817.70	176.14	35.47	-112.16	1,732.71	6,275.12	9,662.65	9,497.61	165.04	58.548	
19,800.00	7,730.00	7,994.94	7,820.19	177.52	35.47	-112.45	1,732.67	6,275.16	9,762.54	9,597.46	165.08	59.139	
19,900.00	7,730.00	7,997.45	7,822.69	178.92	35.48	-112.74	1,732.62	6,275.20	9,862.44	9,697.32	165.12	59.729	
20,000.00	7,730.00	7,999.98	7,825.22	180.33	35.49	-113.04	1,732.58	6,275.25	9,962.34	9,797.17	165.16	60.319	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.85	765.95	5,350.97	5,406.10					
100.00	100.00	39.92	39.92	0.13	0.05	81.85	765.99	5,350.89	5,405.47	5,405.28	0.19	N/A		
200.00	199.98	138.00	138.00	0.49	0.39	11.41	766.13	5,350.32	5,403.22	5,402.34	0.88	6,143.552		
300.00	299.84	205.95	205.94	0.86	0.62	11.44	765.63	5,350.25	5,397.93	5,396.45	1.48	3,648.490		
400.00	399.45	229.00	228.99	1.23	0.70	11.48	765.21	5,350.41	5,390.23	5,388.30	1.92	2,800.986		
500.00	498.70	275.37	275.34	1.63	0.87	11.55	764.05	5,351.33	5,380.19	5,377.73	2.45	2,191.799		
600.00	597.47	320.00	319.90	2.05	1.02	11.63	762.55	5,353.20	5,368.22	5,365.24	2.98	1,800.825		
700.00	695.62	320.00	319.90	2.51	1.02	11.69	762.55	5,353.20	5,354.06	5,350.71	3.36	1,594.241		
800.00	793.06	370.20	369.95	3.00	1.21	11.81	760.35	5,356.31	5,337.68	5,333.76	3.92	1,360.560		
900.00	889.64	411.00	410.56	3.53	1.36	11.94	758.09	5,359.56	5,319.20	5,314.74	4.46	1,192.510		
1,000.00	985.27	442.11	441.48	4.12	1.47	12.07	756.09	5,362.43	5,298.50	5,293.52	4.98	1,064.656		
1,100.00	1,079.82	502.00	500.85	4.75	1.70	12.28	751.58	5,368.83	5,275.69	5,270.08	5.61	940.335		
1,200.00	1,173.17	502.00	500.85	5.44	1.70	12.39	751.58	5,368.83	5,250.51	5,244.48	6.03	870.757		
1,300.00	1,265.21	547.12	545.47	6.18	1.89	12.60	747.89	5,374.46	5,223.22	5,216.59	6.64	787.175		
1,400.00	1,355.84	593.00	590.73	6.99	2.08	12.84	744.22	5,380.98	5,193.98	5,186.72	7.26	715.824		
1,500.00	1,444.94	593.00	590.73	7.87	2.08	12.99	744.22	5,380.98	5,162.64	5,154.92	7.71	669.411		
1,600.00	1,532.39	643.35	640.27	8.80	2.30	13.27	740.18	5,389.02	5,129.11	5,120.73	8.38	611.980		
1,700.00	1,618.11	684.00	680.14	9.81	2.48	13.56	736.83	5,396.16	5,093.64	5,084.62	9.03	564.344		
1,800.00	1,701.97	714.93	710.44	10.89	2.62	13.84	734.41	5,401.92	5,056.05	5,046.41	9.65	524.071		
1,900.00	1,783.88	776.00	770.21	12.04	2.91	14.22	730.57	5,413.83	5,016.40	5,006.00	10.40	482.191		
2,000.00	1,863.74	801.07	794.72	13.26	3.03	14.52	729.23	5,418.93	4,974.40	4,963.36	11.03	450.837		
2,100.00	1,941.45	849.15	841.66	14.55	3.26	14.92	726.52	5,429.00	4,930.23	4,918.46	11.77	418.863		
2,200.00	2,016.92	910.92	901.85	15.92	3.57	15.40	722.93	5,442.38	4,883.76	4,871.18	12.58	388.103		
2,292.11	2,084.36	981.28	970.41	17.25	3.92	15.93	719.27	5,457.77	4,838.66	4,825.27	13.39	361.371		
2,300.00	2,090.06	988.52	977.47	17.36	3.95	15.95	718.92	5,459.35	4,834.70	4,821.23	13.47	358.997		
2,400.00	2,162.18	1,078.87	1,065.55	18.84	4.41	16.28	714.80	5,479.02	4,784.45	4,770.04	14.41	331.997		
2,500.00	2,234.31	1,164.52	1,149.10	20.33	4.84	16.59	711.23	5,497.56	4,734.23	4,718.88	15.35	308.434		
2,600.00	2,306.43	1,244.44	1,227.01	21.83	5.25	16.89	707.32	5,514.91	4,684.14	4,667.86	16.28	287.680		
2,700.00	2,378.56	1,303.68	1,284.68	23.33	5.56	17.13	703.72	5,527.99	4,634.41	4,617.25	17.16	270.107		
2,800.00	2,450.68	1,369.78	1,348.89	24.84	5.92	17.41	699.02	5,542.95	4,585.23	4,567.16	18.08	253.638		
2,900.00	2,522.81	1,443.41	1,420.37	26.36	6.31	17.72	693.63	5,559.76	4,536.38	4,517.33	19.05	238.191		
3,000.00	2,594.93	1,501.47	1,476.69	27.88	6.63	17.98	689.49	5,573.25	4,488.02	4,468.06	19.97	224.794		
3,100.00	2,667.06	1,559.87	1,533.27	29.40	6.95	18.23	685.45	5,587.14	4,440.30	4,419.39	20.90	212.438		
3,200.00	2,739.18	1,620.00	1,591.43	30.92	7.29	18.51	681.13	5,601.79	4,393.21	4,371.35	21.86	200.964		
3,300.00	2,811.31	1,755.61	1,722.79	32.45	8.04	19.12	671.72	5,634.11	4,345.76	4,322.63	23.13	187.861		
3,400.00	2,883.43	1,836.16	1,800.91	33.98	8.49	19.50	666.41	5,653.00	4,298.25	4,274.06	24.20	177.622		
3,500.00	2,955.56	1,924.00	1,886.12	35.51	8.97	19.91	660.99	5,673.67	4,250.99	4,225.68	25.31	167.988		
3,600.00	3,027.68	2,030.66	1,989.77	37.04	9.55	20.40	655.51	5,698.22	4,203.44	4,176.95	26.49	158.685		
3,700.00	3,099.81	2,114.50	2,071.29	38.57	10.00	20.79	651.64	5,717.41	4,155.96	4,128.36	27.60	150.580		
3,800.00	3,171.93	2,199.72	2,154.15	40.11	10.47	21.20	647.37	5,736.85	4,108.60	4,079.86	28.73	142.985		
3,900.00	3,244.06	2,273.37	2,225.68	41.64	10.87	21.58	642.61	5,753.75	4,061.53	4,031.68	29.85	136.053		
4,000.00	3,316.18	2,373.83	2,323.23	43.18	11.42	22.11	635.50	5,776.70	4,014.61	3,983.51	31.10	129.100		
4,100.00	3,388.31	4,100.00	2,412.91	44.71	20.83	22.62	628.93	5,797.37	3,967.50	3,928.47	39.03	101.645		
4,200.00	3,460.43	2,521.06	2,466.29	46.25	12.23	22.92	624.91	5,809.82	3,920.88	3,887.44	33.44	117.259		
4,300.00	3,532.56	2,589.30	2,532.45	47.79	12.61	23.31	620.11	5,825.84	3,875.14	3,840.52	34.62	111.944		
4,400.00	3,604.68	2,811.48	2,748.71	49.33	13.80	24.57	607.07	5,874.97	3,828.89	3,792.52	36.37	105.277		
4,500.00	3,676.81	2,865.57	2,801.63	50.87	14.08	24.88	604.09	5,885.80	3,780.75	3,743.21	37.53	100.728		
4,600.00	3,748.93	2,898.56	2,833.79	52.41	14.26	25.08	601.93	5,892.85	3,733.92	3,695.27	38.65	96.619		
4,700.00	3,821.06	2,937.76	2,871.85	53.95	14.47	25.33	599.00	5,901.73	3,688.45	3,648.65	39.80	92.671		
4,800.00	3,893.18	3,023.57	2,955.14	55.49	14.94	25.86	593.38	5,921.59	3,643.67	3,602.51	41.16	88.526		
4,900.00	3,965.31	3,118.41	3,047.29	57.03	15.46	26.45	588.30	5,943.46	3,599.01	3,556.45	42.56	84.555		
5,000.00	4,037.43	3,202.19	3,128.70	58.58	15.92	26.98	583.49	5,962.63	3,554.50	3,510.54	43.96	80.863		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,316.18	3,239.59	60.12	16.54	27.73	576.71	5,988.13	3,509.84	3,464.35	45.49	77.149		
5,200.00	4,181.68	3,383.66	3,305.28	61.66	16.90	28.17	573.23	6,003.20	3,465.39	3,418.51	46.88	73.927		
5,300.00	4,253.81	3,450.54	3,370.31	63.20	17.26	28.62	569.84	6,018.44	3,421.63	3,373.35	48.28	70.866		
5,400.00	4,325.93	3,521.26	3,438.97	64.75	17.65	29.12	565.44	6,034.79	3,378.59	3,328.85	49.74	67.920		
5,500.00	4,398.06	3,607.74	3,522.84	66.29	18.13	29.75	558.86	6,054.80	3,336.10	3,284.78	51.32	65.010		
5,600.00	4,470.18	3,734.06	3,645.63	67.84	18.82	30.70	549.91	6,083.07	3,293.26	3,240.17	53.09	62.036		
5,700.00	4,542.31	3,856.22	3,764.74	69.38	19.47	31.64	542.27	6,109.13	3,249.82	3,194.97	54.86	59.243		
5,800.00	4,614.43	3,944.46	3,850.93	70.92	19.93	32.31	538.02	6,127.52	3,206.15	3,149.65	56.51	56.738		
5,900.00	4,686.56	4,015.83	3,920.64	72.47	20.30	32.86	535.16	6,142.56	3,162.94	3,104.82	58.13	54.415		
6,000.00	4,758.68	4,084.94	3,988.07	74.01	20.66	33.41	531.71	6,157.33	3,120.51	3,060.73	59.78	52.198		
6,100.00	4,830.81	4,180.38	4,081.11	75.56	21.16	34.19	526.82	6,178.00	3,078.80	3,017.22	61.58	49.996		
6,200.00	4,902.93	4,404.59	4,301.10	77.10	22.26	36.10	516.95	6,220.07	3,034.67	2,970.80	63.87	47.515		
6,300.00	4,975.06	4,599.47	4,493.77	78.65	23.11	37.90	509.03	6,248.07	2,987.25	2,921.23	66.02	45.249		
6,400.00	5,047.18	5,035.31	4,928.06	80.19	24.59	42.34	500.75	6,279.79	2,935.34	2,867.11	68.24	43.018		
6,500.00	5,119.31	5,152.69	5,045.43	81.74	24.89	43.65	501.51	6,280.34	2,878.07	2,808.00	70.06	41.079		
6,600.00	5,191.43	5,229.57	5,122.31	83.28	25.08	44.55	501.99	6,280.20	2,820.98	2,749.01	71.97	39.196		
6,700.00	5,263.56	5,303.75	5,196.49	84.83	25.26	45.45	502.36	6,279.99	2,764.40	2,690.45	73.94	37.385		
6,800.00	5,335.68	5,380.81	5,273.54	86.37	25.45	46.40	503.02	6,279.75	2,708.33	2,632.35	75.97	35.648		
6,900.00	5,407.81	5,463.93	5,356.66	87.92	25.65	47.47	503.96	6,279.29	2,652.64	2,574.59	78.06	33.984		
7,000.00	5,479.93	5,535.88	5,428.61	89.47	25.82	48.42	504.81	6,278.76	2,597.48	2,517.26	80.22	32.378		
7,100.00	5,552.06	5,608.79	5,501.51	91.01	26.00	49.42	505.65	6,278.18	2,543.00	2,460.54	82.46	30.839		
7,200.00	5,624.18	5,683.17	5,575.88	92.56	26.18	50.48	506.44	6,277.52	2,489.22	2,404.45	84.77	29.365		
7,300.00	5,696.31	5,759.42	5,652.13	94.10	26.36	51.60	506.99	6,276.62	2,436.15	2,348.99	87.16	27.951		
7,400.00	5,768.43	5,837.85	5,730.55	95.65	26.55	52.80	507.52	6,275.47	2,383.76	2,294.14	89.62	26.597		
7,500.00	5,840.56	5,915.61	5,808.29	97.20	26.74	54.03	508.07	6,274.09	2,332.10	2,239.93	92.17	25.302		
7,600.00	5,912.68	5,989.76	5,882.43	98.74	26.91	55.24	508.55	6,272.58	2,281.28	2,186.47	94.81	24.062		
7,700.00	5,984.81	6,060.28	5,952.92	100.29	27.08	56.43	508.98	6,271.06	2,231.48	2,133.94	97.54	22.877		
7,800.00	6,056.93	6,128.37	6,021.00	101.84	27.25	57.61	509.42	6,269.69	2,182.88	2,082.52	100.36	21.751		
7,900.00	6,129.06	6,194.70	6,087.32	103.38	27.41	58.80	509.71	6,268.40	2,135.64	2,032.37	103.27	20.681		
8,000.00	6,201.18	6,265.10	6,157.70	104.93	27.58	60.09	509.79	6,267.02	2,089.80	1,983.55	106.25	19.668		
8,100.00	6,273.31	6,330.41	6,223.00	106.48	27.75	61.33	509.75	6,265.70	2,045.42	1,936.09	109.33	18.709		
8,200.00	6,345.43	6,390.42	6,283.01	108.02	27.90	62.49	509.56	6,264.74	2,002.88	1,890.40	112.48	17.807		
8,300.00	6,417.56	6,444.91	6,337.49	109.57	28.04	63.57	509.33	6,264.28	1,962.44	1,846.74	115.70	16.961		
8,400.00	6,489.68	6,500.14	6,392.72	111.12	28.20	64.67	509.13	6,264.44	1,924.30	1,805.34	118.96	16.176		
8,500.00	6,561.81	6,556.40	6,448.97	112.66	28.37	65.80	508.84	6,265.16	1,888.55	1,766.30	122.25	15.448		
8,600.00	6,633.93	6,635.79	6,528.35	114.21	28.60	67.43	508.32	6,266.58	1,855.01	1,729.44	125.57	14.773		
8,700.00	6,706.06	6,719.15	6,611.70	115.76	28.85	69.19	507.86	6,267.26	1,822.80	1,693.87	128.93	14.138		
8,800.00	6,778.18	6,793.94	6,686.50	117.30	29.06	70.81	507.47	6,267.62	1,792.50	1,660.21	132.29	13.549		
8,900.00	6,850.31	6,868.35	6,760.90	118.85	29.28	72.46	506.99	6,267.76	1,764.29	1,628.64	135.66	13.006		
9,000.00	6,922.43	6,940.21	6,832.76	120.40	29.48	74.08	506.49	6,267.80	1,738.36	1,599.37	138.99	12.507		
9,100.00	6,994.56	7,006.52	6,899.06	121.95	29.67	75.60	505.98	6,267.89	1,714.93	1,572.66	142.27	12.054		
9,200.00	7,066.68	7,074.70	6,967.24	123.49	29.86	77.19	505.27	6,268.20	1,694.30	1,548.82	145.48	11.647		
9,300.00	7,138.81	7,149.46	7,042.00	125.04	30.08	78.94	504.50	6,268.51	1,676.25	1,527.65	148.60	11.280		
9,392.50	7,205.52	7,213.75	7,106.28	126.47	30.27	80.47	503.83	6,268.76	1,661.96	1,510.58	151.38	10.979		
9,400.00	7,210.94	7,219.01	7,111.54	126.59	30.29	79.79	503.77	6,268.78	1,660.86	1,509.27	151.60	10.956		
9,450.00	7,247.42	7,255.09	7,147.62	127.35	30.39	75.03	503.36	6,268.93	1,651.68	1,498.67	153.01	10.795		
9,500.00	7,284.35	7,292.18	7,184.71	128.10	30.50	69.94	502.90	6,269.02	1,639.22	1,484.88	154.34	10.621		
9,550.00	7,321.43	7,329.35	7,221.87	128.83	30.61	64.62	502.40	6,269.04	1,623.47	1,467.90	155.57	10.436		
9,600.00	7,358.38	7,367.11	7,259.63	129.52	30.72	59.23	501.88	6,269.03	1,604.46	1,447.75	156.71	10.238		
9,650.00	7,394.93	7,404.54	7,297.05	130.16	30.83	53.86	501.40	6,269.03	1,582.21	1,424.46	157.75	10.030		
9,700.00	7,430.79	7,441.33	7,333.84	130.76	30.93	48.60	500.95	6,269.04	1,556.80	1,398.10	158.70	9.810		
9,750.00	7,465.70	7,477.19	7,369.71	131.30	31.04	43.49	500.54	6,269.07	1,528.32	1,368.78	159.54	9.579		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,511.85	7,404.36	131.78	31.14	38.51	500.16	6,269.10	1,496.90	1,336.61	160.29	9.339		
9,850.00	7,531.58	7,546.00	7,438.50	132.21	31.24	33.64	499.82	6,269.14	1,462.68	1,301.74	160.93	9.089		
9,900.00	7,562.06	7,578.46	7,470.97	132.57	31.33	28.72	499.54	6,269.17	1,425.82	1,264.33	161.48	8.829		
9,950.00	7,590.58	7,608.80	7,501.31	132.87	31.42	23.56	499.31	6,269.19	1,386.53	1,224.59	161.94	8.562		
10,000.00	7,616.93	7,634.95	7,527.46	133.11	31.50	17.84	499.13	6,269.22	1,345.08	1,182.79	162.29	8.288		
10,050.00	7,640.90	7,658.76	7,551.26	133.29	31.57	11.17	498.97	6,269.29	1,301.74	1,139.20	162.54	8.009		
10,100.00	7,662.32	7,680.10	7,572.61	133.42	31.63	2.94	498.83	6,269.37	1,256.81	1,094.12	162.69	7.725		
10,150.00	7,681.01	7,709.28	7,591.22	133.50	31.72	-7.68	498.71	6,269.47	1,210.61	1,047.83	162.77	7.437		
10,200.00	7,696.85	7,714.92	7,607.42	133.52	31.74	-21.55	498.61	6,269.57	1,163.48	1,000.81	162.68	7.152		
10,250.00	7,709.70	7,728.13	7,620.64	133.51	31.78	-38.60	498.53	6,269.65	1,115.84	953.34	162.50	6.867		
10,300.00	7,719.47	7,738.26	7,630.76	133.46	31.81	-56.61	498.47	6,269.71	1,068.08	905.90	162.18	6.586		
10,350.00	7,726.09	7,745.22	7,637.72	133.37	31.83	-72.29	498.42	6,269.75	1,020.70	858.99	161.71	6.312		
10,400.00	7,729.50	7,748.96	7,641.47	133.26	31.84	-84.03	498.40	6,269.77	974.19	813.14	161.05	6.049		
10,427.79	7,730.00	7,749.64	7,642.14	133.18	31.84	-88.91	498.40	6,269.78	948.92	788.33	160.59	5.909		
10,500.00	7,730.00	7,750.09	7,642.59	132.98	31.84	-88.97	498.39	6,269.78	884.47	725.34	159.13	5.558		
10,600.00	7,730.00	7,750.72	7,643.22	132.72	31.85	-89.06	498.39	6,269.78	797.42	641.00	156.42	5.098		
10,700.00	7,730.00	7,751.34	7,643.85	132.47	31.85	-89.15	498.38	6,269.79	713.77	561.22	152.56	4.679		
10,800.00	7,730.00	7,751.97	7,644.47	132.22	31.85	-89.23	498.38	6,269.79	634.87	487.92	146.95	4.320		
10,900.00	7,730.00	7,752.59	7,645.10	131.99	31.85	-89.32	498.38	6,269.80	562.72	423.97	138.75	4.056		
11,000.00	7,730.00	7,753.22	7,645.72	131.77	31.85	-89.41	498.37	6,269.80	500.24	373.34	126.90	3.942 SF		
11,100.00	7,730.00	7,753.85	7,646.35	131.56	31.85	-89.49	498.37	6,269.80	451.47	340.83	110.64	4.081		
11,200.00	7,730.00	7,754.47	7,646.97	131.36	31.86	-89.58	498.36	6,269.81	421.21	329.86	91.35	4.611 ES		
11,282.07	7,730.00	7,754.98	7,647.49	131.20	31.86	-89.65	498.36	6,269.81	413.13	335.05	78.09	5.291 CC		
11,300.00	7,730.00	7,755.10	7,647.60	131.17	31.86	-89.67	498.36	6,269.81	413.52	337.24	76.28	5.421		
11,400.00	7,730.00	7,755.72	7,648.22	130.99	31.86	-89.75	498.36	6,269.82	429.63	352.19	77.44	5.548		
11,500.00	7,730.00	7,756.35	7,648.85	130.82	31.86	-89.84	498.35	6,269.82	467.09	375.50	91.58	5.100		
11,600.00	7,730.00	7,756.97	7,649.48	130.66	31.86	-89.93	498.35	6,269.82	521.30	414.25	107.05	4.870		
11,700.00	7,730.00	7,757.60	7,650.10	130.51	31.87	-90.01	498.35	6,269.83	587.65	468.02	119.63	4.912		
11,800.00	7,730.00	7,758.22	7,650.73	130.37	31.87	-90.10	498.34	6,269.83	662.51	533.42	129.08	5.132		
11,900.00	7,730.00	7,758.85	7,651.35	130.24	31.87	-90.19	498.34	6,269.83	743.30	607.23	136.07	5.463		
12,000.00	7,730.00	7,759.48	7,651.98	130.13	31.87	-90.27	498.33	6,269.84	828.30	687.03	141.27	5.863		
12,100.00	7,730.00	7,760.10	7,652.60	130.02	31.87	-90.36	498.33	6,269.84	916.33	771.13	145.20	6.311		
12,200.00	7,730.00	7,760.73	7,653.23	129.93	31.88	-90.45	498.33	6,269.85	1,006.60	858.38	148.22	6.791		
12,300.00	7,730.00	7,761.35	7,653.85	129.85	31.88	-90.53	498.32	6,269.85	1,098.55	947.96	150.59	7.295		
12,400.00	7,730.00	7,761.98	7,654.48	129.77	31.88	-90.62	498.32	6,269.85	1,191.80	1,039.32	152.48	7.816		
12,500.00	7,730.00	7,762.60	7,655.10	129.71	31.88	-90.71	498.31	6,269.86	1,286.07	1,132.05	154.01	8.350		
12,600.00	7,730.00	7,763.23	7,655.73	129.66	31.88	-90.79	498.31	6,269.86	1,381.14	1,225.87	155.27	8.895		
12,700.00	7,730.00	7,763.85	7,656.36	129.63	31.89	-90.88	498.31	6,269.86	1,476.86	1,320.54	156.32	9.448		
12,800.00	7,730.00	7,764.48	7,656.98	129.60	31.89	-90.97	498.30	6,269.87	1,573.12	1,415.91	157.20	10.007		
12,900.00	7,730.00	7,765.11	7,657.61	129.59	31.89	-91.05	498.30	6,269.87	1,669.81	1,511.86	157.95	10.572		
13,000.00	7,730.00	7,765.73	7,658.23	129.59	31.89	-91.14	498.29	6,269.88	1,766.87	1,608.27	158.60	11.141		
13,100.00	7,730.00	7,766.36	7,658.86	129.60	31.89	-91.23	498.29	6,269.88	1,864.24	1,705.09	159.16	11.713		
13,200.00	7,730.00	7,766.98	7,659.48	129.63	31.89	-91.31	498.29	6,269.88	1,961.88	1,802.24	159.65	12.289		
13,300.00	7,730.00	7,767.61	7,660.11	129.66	31.90	-91.40	498.28	6,269.89	2,059.75	1,899.67	160.08	12.867		
13,400.00	7,730.00	7,768.23	7,660.73	129.72	31.90	-91.49	498.28	6,269.89	2,157.80	1,997.35	160.46	13.448		
13,500.00	7,730.00	7,768.86	7,661.36	129.78	31.90	-91.57	498.27	6,269.89	2,256.03	2,095.24	160.80	14.030		
13,600.00	7,730.00	7,769.48	7,661.99	129.86	31.90	-91.66	498.27	6,269.90	2,354.41	2,193.31	161.10	14.614		
13,700.00	7,730.00	7,770.11	7,662.61	129.96	31.90	-91.75	498.27	6,269.90	2,452.92	2,291.54	161.38	15.200		
13,800.00	7,730.00	7,770.74	7,663.24	130.07	31.91	-91.83	498.26	6,269.91	2,551.55	2,389.92	161.62	15.787		
13,900.00	7,730.00	7,771.36	7,663.86	130.19	31.91	-91.92	498.26	6,269.91	2,650.27	2,488.42	161.85	16.375		
14,000.00	7,730.00	7,771.99	7,664.49	130.33	31.91	-92.01	498.25	6,269.91	2,749.09	2,587.04	162.06	16.964		
14,100.00	7,730.00	7,772.61	7,665.11	130.49	31.91	-92.09	498.25	6,269.92	2,848.00	2,685.75	162.25	17.554		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,773.24	7,665.74	130.67	31.91	-92.18	498.25	6,269.92	2,946.97	2,784.55	162.42	18.144		
14,300.00	7,730.00	7,773.86	7,666.36	130.86	31.92	-92.27	498.24	6,269.92	3,046.02	2,883.43	162.58	18.735		
14,400.00	7,730.00	7,774.49	7,666.99	131.07	31.92	-92.35	498.24	6,269.93	3,145.12	2,982.39	162.73	19.327		
14,500.00	7,730.00	7,775.11	7,667.62	131.30	31.92	-92.44	498.24	6,269.93	3,244.28	3,081.41	162.87	19.920		
14,600.00	7,730.00	7,775.74	7,668.24	131.55	31.92	-92.53	498.23	6,269.94	3,343.48	3,180.49	163.00	20.513		
14,700.00	7,730.00	7,776.37	7,668.87	131.82	31.92	-92.61	498.23	6,269.94	3,442.74	3,279.62	163.12	21.106		
14,800.00	7,730.00	7,776.99	7,669.49	132.11	31.93	-92.70	498.22	6,269.94	3,542.03	3,378.81	163.23	21.700		
14,900.00	7,730.00	7,777.62	7,670.12	132.42	31.93	-92.79	498.22	6,269.95	3,641.37	3,478.03	163.33	22.294		
15,000.00	7,730.00	7,778.24	7,670.74	132.75	31.93	-92.87	498.22	6,269.95	3,740.74	3,577.30	163.43	22.888		
15,100.00	7,730.00	7,778.87	7,671.37	133.10	31.93	-92.96	498.21	6,269.96	3,840.14	3,676.61	163.53	23.483		
15,200.00	7,730.00	7,779.49	7,671.99	133.48	31.93	-93.05	498.21	6,269.96	3,939.57	3,775.95	163.62	24.078		
15,300.00	7,730.00	7,780.12	7,672.62	133.88	31.93	-93.13	498.20	6,269.96	4,039.03	3,875.33	163.70	24.673		
15,400.00	7,730.00	7,780.74	7,673.25	134.31	31.94	-93.22	498.20	6,269.97	4,138.52	3,974.74	163.78	25.268		
15,500.00	7,730.00	7,781.37	7,673.87	134.76	31.94	-93.31	498.20	6,269.97	4,238.03	4,074.17	163.86	25.864		
15,600.00	7,730.00	7,782.00	7,674.50	135.23	31.94	-93.39	498.19	6,269.97	4,337.56	4,173.63	163.93	26.460		
15,700.00	7,730.00	7,782.62	7,675.12	135.73	31.94	-93.48	498.19	6,269.98	4,437.12	4,273.11	164.00	27.055		
15,800.00	7,730.00	7,783.25	7,675.75	136.26	31.94	-93.56	498.18	6,269.98	4,536.69	4,372.62	164.07	27.651		
15,900.00	7,730.00	7,783.87	7,676.37	136.81	31.95	-93.65	498.18	6,269.99	4,636.28	4,472.15	164.13	28.247		
16,000.00	7,730.00	7,784.50	7,677.00	137.39	31.95	-93.74	498.18	6,269.99	4,735.89	4,571.70	164.19	28.843		
16,100.00	7,730.00	7,785.12	7,677.62	138.00	31.95	-93.82	498.17	6,269.99	4,835.51	4,671.26	164.25	29.440		
16,200.00	7,730.00	7,785.75	7,678.25	138.63	31.95	-93.91	498.17	6,270.00	4,935.15	4,770.84	164.31	30.036		
16,300.00	7,730.00	7,786.37	7,678.87	139.30	31.95	-94.00	498.16	6,270.00	5,034.81	4,870.44	164.36	30.632		
16,400.00	7,730.00	7,787.00	7,679.50	139.99	31.96	-94.08	498.16	6,270.00	5,134.48	4,970.06	164.42	31.228		
16,500.00	7,730.00	7,787.63	7,680.13	140.70	31.96	-94.17	498.16	6,270.01	5,234.16	5,069.69	164.47	31.825		
16,600.00	7,730.00	7,788.25	7,680.75	141.45	31.96	-94.25	498.15	6,270.01	5,333.85	5,169.33	164.52	32.421		
16,700.00	7,730.00	7,788.88	7,681.38	142.22	31.96	-94.34	498.15	6,270.02	5,433.55	5,268.98	164.57	33.017		
16,800.00	7,730.00	7,789.50	7,682.00	143.03	31.96	-94.43	498.14	6,270.02	5,533.26	5,368.65	164.61	33.614		
16,900.00	7,730.00	7,790.13	7,682.63	143.86	31.97	-94.51	498.14	6,270.02	5,632.99	5,468.33	164.66	34.210		
17,000.00	7,730.00	7,790.75	7,683.25	144.71	31.97	-94.60	498.14	6,270.03	5,732.72	5,568.02	164.70	34.806		
17,100.00	7,730.00	7,791.38	7,683.88	145.60	31.97	-94.69	498.13	6,270.03	5,832.46	5,667.72	164.75	35.403		
17,200.00	7,730.00	7,792.00	7,684.50	146.51	31.97	-94.77	498.13	6,270.03	5,932.21	5,767.43	164.79	35.999		
17,300.00	7,730.00	7,792.63	7,685.13	147.44	31.97	-94.86	498.13	6,270.04	6,031.97	5,867.14	164.83	36.595		
17,400.00	7,730.00	7,793.26	7,685.76	148.40	31.97	-94.94	498.12	6,270.04	6,131.74	5,966.87	164.87	37.191		
17,500.00	7,730.00	7,793.88	7,686.38	149.39	31.98	-95.03	498.12	6,270.05	6,231.52	6,066.61	164.91	37.787		
17,600.00	7,730.00	7,794.51	7,687.01	150.40	31.98	-95.12	498.11	6,270.05	6,331.30	6,166.35	164.95	38.383		
17,700.00	7,730.00	7,795.13	7,687.63	151.44	31.98	-95.20	498.11	6,270.05	6,431.09	6,266.10	164.99	38.979		
17,800.00	7,730.00	7,795.76	7,688.26	152.50	31.98	-95.29	498.11	6,270.06	6,530.88	6,365.86	165.02	39.575		
17,900.00	7,730.00	7,796.38	7,688.88	153.58	31.98	-95.37	498.10	6,270.06	6,630.68	6,465.62	165.06	40.171		
18,000.00	7,730.00	7,797.01	7,689.51	154.68	31.99	-95.46	498.10	6,270.07	6,730.49	6,565.39	165.10	40.767		
18,100.00	7,730.00	7,797.63	7,690.13	155.80	31.99	-95.55	498.09	6,270.07	6,830.30	6,665.17	165.13	41.362		
18,200.00	7,730.00	7,798.26	7,690.76	156.95	31.99	-95.63	498.09	6,270.07	6,930.12	6,764.95	165.17	41.958		
18,300.00	7,730.00	7,798.89	7,691.39	158.11	31.99	-95.72	498.09	6,270.08	7,029.94	6,864.74	165.20	42.553		
18,400.00	7,730.00	7,799.51	7,692.01	159.30	31.99	-95.80	498.08	6,270.08	7,129.77	6,964.53	165.24	43.149		
18,500.00	7,730.00	7,800.14	7,692.64	160.50	32.00	-95.89	498.08	6,270.08	7,229.60	7,064.33	165.27	43.744		
18,600.00	7,730.00	7,800.76	7,693.26	161.72	32.00	-95.97	498.07	6,270.09	7,329.44	7,164.13	165.30	44.339		
18,700.00	7,730.00	7,801.39	7,693.89	162.96	32.00	-96.06	498.07	6,270.09	7,429.28	7,263.94	165.34	44.934		
18,800.00	7,730.00	7,802.01	7,694.51	164.21	32.00	-96.15	498.07	6,270.10	7,529.12	7,363.75	165.37	45.529		
18,900.00	7,730.00	7,802.64	7,695.14	165.48	32.00	-96.23	498.06	6,270.10	7,628.97	7,463.57	165.40	46.124		
19,000.00	7,730.00	7,803.26	7,695.76	166.76	32.01	-96.32	498.06	6,270.10	7,728.83	7,563.39	165.43	46.719		
19,100.00	7,730.00	7,803.89	7,696.39	168.06	32.01	-96.40	498.05	6,270.11	7,828.68	7,663.22	165.46	47.313		
19,200.00	7,730.00	7,804.52	7,697.02	169.38	32.01	-96.49	498.05	6,270.11	7,928.54	7,763.05	165.50	47.908		
19,300.00	7,730.00	7,805.14	7,697.64	170.70	32.01	-96.57	498.05	6,270.11	8,028.41	7,862.88	165.53	48.502		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,805.77	7,698.27	172.04	32.01	-96.66	498.04	6,270.12	8,128.27	7,962.72	165.56	49.096	
19,500.00	7,730.00	7,806.39	7,698.89	173.40	32.01	-96.74	498.04	6,270.12	8,228.14	8,062.56	165.59	49.690	
19,600.00	7,730.00	7,807.02	7,699.52	174.76	32.02	-96.83	498.03	6,270.13	8,328.02	8,162.40	165.62	50.284	
19,700.00	7,730.00	7,807.62	7,700.12	176.14	32.02	-96.91	498.03	6,270.13	8,427.89	8,262.24	165.65	50.878	
19,800.00	7,730.00	7,808.25	7,700.75	177.52	32.02	-97.00	498.03	6,270.13	8,527.77	8,362.09	165.68	51.471	
19,900.00	7,730.00	7,808.88	7,701.38	178.92	32.02	-97.08	498.02	6,270.14	8,627.66	8,461.95	165.71	52.065	
20,000.00	7,730.00	7,809.50	7,702.00	180.33	32.02	-97.17	498.02	6,270.14	8,727.54	8,561.80	165.74	52.658	
20,100.00	7,730.00	7,810.13	7,702.63	181.75	32.03	-97.25	498.02	6,270.15	8,827.43	8,661.66	165.77	53.251	
20,184.95	7,730.00	7,810.66	7,703.16	182.96	32.03	-97.33	498.01	6,270.15	8,912.29	8,746.49	165.80	53.755	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.91	758.66	5,334.17	5,388.46					
100.00	100.00	23.49	23.49	0.13	0.04	81.91	758.64	5,334.16	5,387.84	5,387.67	0.17	N/A		
200.00	199.98	118.65	118.64	0.49	0.26	11.47	757.98	5,334.10	5,385.97	5,385.22	0.75	7,134.715		
300.00	299.84	169.00	168.97	0.86	0.45	11.51	756.55	5,334.39	5,381.17	5,379.87	1.30	4,141.426		
400.00	399.45	237.07	236.94	1.23	0.70	11.59	753.07	5,335.53	5,373.65	5,371.74	1.92	2,803.477		
500.00	498.70	295.09	294.77	1.63	0.92	11.69	748.67	5,337.28	5,363.63	5,361.13	2.51	2,140.723		
600.00	597.47	351.00	350.39	2.05	1.13	11.82	743.48	5,339.46	5,350.93	5,347.83	3.09	1,729.639		
700.00	695.62	412.84	411.77	2.51	1.38	11.99	736.56	5,342.48	5,335.59	5,331.87	3.72	1,433.379		
800.00	793.06	442.00	440.64	3.00	1.50	12.13	732.83	5,344.16	5,317.81	5,313.58	4.22	1,258.673		
900.00	889.64	495.26	493.22	3.53	1.74	12.33	725.19	5,347.87	5,297.64	5,292.80	4.85	1,092.690		
1,000.00	985.27	533.00	530.32	4.12	1.90	12.53	719.10	5,351.13	5,275.38	5,269.97	5.41	974.715		
1,100.00	1,079.82	565.58	562.24	4.75	2.06	12.73	713.44	5,354.35	5,250.96	5,244.98	5.97	878.860		
1,200.00	1,173.17	624.00	619.21	5.44	2.34	13.04	702.40	5,361.10	5,224.57	5,217.90	6.67	783.321		
1,300.00	1,265.21	641.80	636.49	6.18	2.44	13.24	698.80	5,363.36	5,195.76	5,188.57	7.19	722.488		
1,400.00	1,355.84	703.38	696.04	6.99	2.76	13.63	685.37	5,371.50	5,164.65	5,156.70	7.95	649.663		
1,500.00	1,444.94	750.56	741.37	7.87	3.03	14.00	674.13	5,378.11	5,131.11	5,122.45	8.66	592.315		
1,600.00	1,532.39	808.00	796.25	8.80	3.36	14.45	659.55	5,386.81	5,095.40	5,085.95	9.45	539.106		
1,700.00	1,618.11	842.92	829.43	9.81	3.58	14.83	650.23	5,392.39	5,057.41	5,047.26	10.15	498.482		
1,800.00	1,701.97	902.00	885.28	10.89	3.95	15.37	633.65	5,402.21	5,017.18	5,006.18	11.00	456.144		
1,900.00	1,783.88	949.57	930.10	12.04	4.26	15.90	619.94	5,410.41	4,974.67	4,962.85	11.81	421.167		
2,000.00	1,863.74	1,011.33	988.23	13.26	4.67	16.55	602.21	5,421.33	4,929.85	4,917.12	12.74	387.053		
2,100.00	1,941.45	1,093.42	1,065.26	14.55	5.22	17.38	577.85	5,435.88	4,882.46	4,868.64	13.82	353.293		
2,200.00	2,016.92	1,207.15	1,171.89	15.92	6.00	18.52	543.70	5,455.86	4,832.49	4,817.35	15.14	319.229		
2,292.11	2,084.36	2,292.11	1,291.14	17.25	13.32	19.81	506.59	5,476.09	4,782.94	4,760.36	22.58	211.865		
2,300.00	2,090.06	2,300.00	1,296.47	17.36	13.38	19.85	504.94	5,476.98	4,778.61	4,755.93	22.68	210.730		
2,400.00	2,162.18	1,390.66	1,344.86	18.84	7.25	20.23	489.79	5,484.99	4,723.95	4,706.40	17.55	269.168		
2,500.00	2,234.31	1,433.00	1,384.64	20.33	7.54	20.56	477.08	5,492.00	4,670.29	4,651.82	18.47	252.874		
2,600.00	2,306.43	1,462.47	1,412.23	21.83	7.75	20.79	468.05	5,497.09	4,617.59	4,598.26	19.33	238.848		
2,700.00	2,378.56	1,497.87	1,445.22	23.33	8.00	21.07	456.91	5,503.46	4,565.94	4,545.68	20.26	225.389		
2,800.00	2,450.68	1,540.73	1,484.96	24.84	8.32	21.42	443.01	5,511.49	4,515.33	4,494.07	21.26	212.396		
2,900.00	2,522.81	1,618.58	1,557.03	26.36	8.90	22.07	417.52	5,526.17	4,465.37	4,442.83	22.54	198.094		
3,000.00	2,594.93	1,689.82	1,623.06	27.88	9.43	22.67	394.37	5,539.57	4,415.91	4,392.11	23.80	185.555		
3,100.00	2,667.06	1,828.86	1,752.55	29.40	10.44	23.85	350.46	5,564.77	4,366.43	4,340.87	25.56	170.839		
3,200.00	2,739.18	1,893.48	1,813.06	30.92	10.90	24.40	330.82	5,576.12	4,317.03	4,290.23	26.80	161.082		
3,300.00	2,811.31	1,966.82	1,881.90	32.45	11.42	25.02	309.12	5,589.12	4,268.24	4,240.12	28.12	151.798		
3,400.00	2,883.43	2,037.31	1,948.16	33.98	11.91	25.63	288.60	5,601.64	4,220.00	4,190.56	29.44	143.355		
3,500.00	2,955.56	2,102.18	2,009.12	35.51	12.36	26.20	269.69	5,613.23	4,172.41	4,141.66	30.74	135.718		
3,600.00	3,027.68	2,157.58	2,061.07	37.04	12.76	26.69	253.24	5,623.26	4,125.65	4,093.64	32.01	128.881		
3,700.00	3,099.81	2,214.43	2,114.22	38.57	13.16	27.21	236.00	5,633.74	4,079.82	4,046.51	33.32	122.450		
3,800.00	3,171.93	2,272.78	2,168.72	40.11	13.59	27.75	218.26	5,644.68	4,034.91	4,000.25	34.66	116.403		
3,900.00	3,244.06	2,420.96	2,307.72	41.64	14.63	29.13	174.36	5,671.30	3,989.86	3,953.15	36.70	108.713		
4,000.00	3,316.18	2,496.54	2,378.96	43.18	15.16	29.84	152.75	5,684.35	3,944.97	3,906.75	38.22	103.222		
4,100.00	3,388.31	2,558.42	2,437.19	44.71	15.59	30.43	134.81	5,695.10	3,900.91	3,861.25	39.66	98.350		
4,200.00	3,460.43	2,614.13	2,489.45	46.25	15.98	30.98	118.13	5,704.86	3,857.84	3,816.74	41.10	93.861		
4,300.00	3,532.56	2,688.21	2,558.68	47.79	16.51	31.73	95.26	5,717.93	3,815.80	3,773.08	42.72	89.330		
4,400.00	3,604.68	2,773.93	2,639.27	49.33	17.12	32.59	70.24	5,732.99	3,774.19	3,729.74	44.44	84.922		
4,500.00	3,676.81	2,835.85	2,697.44	50.87	17.55	33.22	52.00	5,743.88	3,733.46	3,687.46	46.01	81.150		
4,600.00	3,748.93	2,886.52	2,744.89	52.41	17.92	33.74	36.71	5,752.91	3,693.90	3,646.39	47.52	77.741		
4,700.00	3,821.06	2,938.52	2,793.45	53.95	18.29	34.29	20.71	5,762.39	3,655.64	3,606.58	49.06	74.511		
4,800.00	3,893.18	2,997.98	2,848.86	55.49	18.73	34.93	2.18	5,773.42	3,618.62	3,567.92	50.70	71.368		
4,900.00	3,965.31	3,063.45	2,909.77	57.03	19.22	35.64	-18.47	5,785.69	3,582.78	3,530.35	52.43	68.332		
5,000.00	4,037.43	3,134.25	2,975.53	58.58	19.74	36.42	-41.14	5,798.89	3,548.00	3,493.75	54.24	65.408		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,208.19	3,044.04	60.12	20.30	37.25	-65.44	5,812.42	3,514.23	3,458.10	56.13	62.612		
5,200.00	4,181.68	3,322.34	3,150.00	61.66	21.15	38.56	-102.79	5,832.56	3,481.06	3,422.63	58.44	59.569		
5,300.00	4,253.81	3,416.11	3,237.77	63.20	21.83	39.63	-131.35	5,849.11	3,448.37	3,387.82	60.55	56.952		
5,400.00	4,325.93	3,468.91	3,287.28	64.75	22.20	40.22	-147.01	5,858.66	3,416.81	3,354.53	62.28	54.860		
5,500.00	4,398.06	3,518.56	3,333.79	66.29	22.56	40.79	-161.79	5,867.83	3,386.69	3,322.68	64.01	52.909		
5,600.00	4,470.18	3,561.68	3,374.00	67.84	22.88	41.29	-175.06	5,875.97	3,358.32	3,292.62	65.69	51.122		
5,700.00	4,542.31	3,622.63	3,430.60	69.38	23.33	42.01	-194.36	5,887.73	3,331.68	3,264.10	67.58	49.299		
5,800.00	4,614.43	3,780.73	3,578.19	70.92	24.49	43.88	-242.52	5,917.56	3,305.88	3,235.38	70.50	46.891		
5,900.00	4,686.56	3,847.39	3,640.81	72.47	24.96	44.67	-261.99	5,929.56	3,279.96	3,207.47	72.49	45.248		
6,000.00	4,758.68	3,909.73	3,699.32	74.01	25.40	45.41	-280.35	5,940.76	3,255.37	3,180.92	74.46	43.721		
6,100.00	4,830.81	3,961.00	3,747.25	75.56	25.77	46.04	-296.16	5,949.78	3,232.39	3,156.06	76.33	42.347		
6,200.00	4,902.93	4,013.92	3,796.58	77.10	26.16	46.70	-312.79	5,959.26	3,211.20	3,132.96	78.24	41.043		
6,300.00	4,975.06	4,065.68	3,844.77	78.65	26.54	47.34	-328.96	5,969.06	3,191.91	3,111.77	80.14	39.830		
6,400.00	5,047.18	4,139.43	3,913.41	80.19	27.09	48.25	-351.85	5,983.32	3,174.20	3,091.90	82.30	38.568		
6,500.00	5,119.31	4,233.10	4,000.63	81.74	27.78	49.42	-381.14	6,000.92	3,157.65	3,072.93	84.72	37.270		
6,600.00	5,191.43	4,297.13	4,060.24	83.28	28.25	50.23	-401.39	6,012.55	3,142.34	3,055.53	86.81	36.198		
6,700.00	5,263.56	4,355.66	4,114.74	84.83	28.69	50.97	-419.66	6,023.64	3,128.76	3,039.93	88.83	35.223		
6,800.00	5,335.68	4,410.23	4,165.47	86.37	29.09	51.66	-436.65	6,034.36	3,117.03	3,026.24	90.79	34.333		
6,900.00	5,407.81	4,476.30	4,226.81	87.92	29.59	52.49	-457.26	6,047.66	3,107.11	3,014.21	92.90	33.446		
7,000.00	5,479.93	4,547.29	4,292.68	89.47	30.13	53.39	-479.65	6,061.81	3,098.72	3,003.63	95.08	32.590		
7,100.00	5,552.06	4,614.82	4,355.21	91.01	30.64	54.26	-501.67	6,074.70	3,091.92	2,994.69	97.23	31.800		
7,200.00	5,624.18	4,670.48	4,406.60	92.56	31.07	54.99	-520.42	6,084.98	3,086.93	2,987.71	99.22	31.112		
7,300.00	5,696.31	4,723.74	4,455.62	94.10	31.48	55.69	-538.78	6,094.75	3,083.92	2,982.76	101.17	30.483		
7,400.00	5,768.43	4,774.23	4,502.05	95.65	31.88	56.35	-556.00	6,104.64	3,082.98	2,979.93	103.05	29.917		
7,435.96	5,794.37	5,056.89	4,766.82	96.21	33.90	59.89	-637.13	6,160.60	3,081.38	2,974.13	107.25	28.731		
7,500.00	5,840.56	5,133.15	4,839.32	97.20	34.40	60.86	-657.31	6,172.87	3,077.92	2,968.90	109.02	28.232		
7,600.00	5,912.68	6,127.57	5,815.37	98.74	38.70	73.63	-803.68	6,248.84	3,069.50	2,952.50	117.00	26.234		
7,700.00	5,984.81	6,216.36	5,904.16	100.29	38.87	74.78	-804.11	6,248.70	3,044.54	2,925.34	119.20	25.542		
7,800.00	6,056.93	6,293.04	5,980.84	101.84	39.01	75.78	-804.36	6,248.31	3,020.73	2,899.34	121.40	24.883		
7,900.00	6,129.06	6,365.69	6,053.48	103.38	39.14	76.74	-804.56	6,247.84	2,998.27	2,874.66	123.60	24.257		
8,000.00	6,201.18	6,440.24	6,128.03	104.93	39.28	77.74	-804.76	6,247.32	2,977.24	2,851.43	125.81	23.664		
8,100.00	6,273.31	6,517.23	6,205.01	106.48	39.41	78.78	-804.97	6,246.59	2,957.60	2,829.58	128.02	23.103		
8,200.00	6,345.43	6,596.14	6,283.92	108.02	39.55	79.85	-805.02	6,245.77	2,939.34	2,809.12	130.22	22.572		
8,300.00	6,417.56	6,675.68	6,363.45	109.57	39.69	80.94	-804.91	6,244.79	2,922.45	2,790.03	132.42	22.070		
8,400.00	6,489.68	6,743.53	6,431.30	111.12	39.81	81.87	-804.72	6,243.99	2,907.09	2,772.48	134.60	21.597		
8,500.00	6,561.81	6,833.14	6,520.90	112.66	39.97	83.11	-804.28	6,243.03	2,893.26	2,756.49	136.76	21.155		
8,600.00	6,633.93	6,908.21	6,595.96	114.21	40.10	84.16	-803.70	6,241.66	2,880.60	2,741.68	138.91	20.736		
8,700.00	6,706.06	6,977.22	6,664.95	115.76	40.22	85.12	-803.32	6,240.35	2,869.73	2,728.68	141.04	20.346		
8,800.00	6,778.18	7,062.50	6,750.21	117.30	40.36	86.33	-802.80	6,238.28	2,860.35	2,717.21	143.14	19.983		
8,900.00	6,850.31	7,147.86	6,835.53	118.85	40.51	87.55	-801.95	6,235.87	2,852.34	2,707.14	145.20	19.644		
9,000.00	6,922.43	7,225.10	6,912.73	120.40	40.64	88.65	-800.90	6,233.62	2,845.82	2,698.59	147.23	19.329		
9,100.00	6,994.56	7,284.01	6,971.62	121.95	40.74	89.48	-799.98	6,232.24	2,841.07	2,691.84	149.23	19.039		
9,200.00	7,066.68	7,342.27	7,029.87	123.49	40.85	90.30	-799.00	6,231.90	2,838.41	2,687.24	151.17	18.776		
9,284.85	7,127.88	7,394.97	7,082.56	124.81	40.95	91.04	-798.41	6,231.34	2,837.70	2,684.92	152.78	18.574		
9,300.00	7,138.81	7,404.19	7,091.78	125.04	40.96	91.17	-798.36	6,231.15	2,837.72	2,684.66	153.06	18.540		
9,392.50	7,205.52	7,459.23	7,146.79	126.47	41.07	91.96	-798.31	6,229.50	2,838.87	2,684.11	154.76	18.343		
9,400.00	7,210.94	7,463.61	7,151.17	126.59	41.07	91.27	-798.33	6,229.33	2,839.00	2,684.10	154.90	18.328		
9,450.00	7,247.42	7,492.76	7,180.29	127.35	41.13	86.43	-798.53	6,228.04	2,837.67	2,681.88	155.79	18.215		
9,500.00	7,284.35	7,517.00	7,204.49	128.10	41.17	81.23	-798.80	6,226.77	2,832.60	2,675.96	156.65	18.083		
9,550.00	7,321.43	7,543.48	7,230.94	128.83	41.23	75.90	-799.18	6,225.43	2,823.86	2,666.39	157.48	17.932		
9,600.00	7,358.38	7,566.68	7,254.11	129.52	41.28	70.51	-799.57	6,224.49	2,811.50	2,653.25	158.26	17.765		
9,650.00	7,394.93	7,590.11	7,277.53	130.16	41.33	65.24	-800.01	6,223.77	2,795.57	2,636.58	159.00	17.583		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,430.79	7,615.09	7,302.50	130.76	41.38	60.22	-800.53	6,223.24	2,776.12	2,616.44	159.68	17.385		
9,750.00	7,465.70	7,651.72	7,339.12	131.30	41.47	55.66	-801.24	6,222.90	2,753.15	2,592.79	160.35	17.169		
9,800.00	7,499.38	7,687.87	7,375.27	131.78	41.56	51.42	-801.81	6,223.05	2,726.68	2,565.72	160.97	16.939		
9,850.00	7,531.58	7,715.95	7,403.34	132.21	41.63	47.38	-802.17	6,223.48	2,696.90	2,535.39	161.51	16.698		
9,900.00	7,562.06	7,736.39	7,423.78	132.57	41.68	43.51	-802.50	6,223.89	2,664.09	2,502.11	161.98	16.447		
9,950.00	7,590.58	7,755.81	7,443.19	132.87	41.73	39.83	-802.88	6,224.34	2,628.45	2,466.06	162.39	16.186		
10,000.00	7,616.93	7,774.05	7,461.41	133.11	41.78	36.25	-803.29	6,224.80	2,590.18	2,427.44	162.74	15.916		
10,050.00	7,640.90	7,799.00	7,486.34	133.29	41.85	32.75	-803.95	6,225.52	2,549.53	2,386.47	163.05	15.636		
10,100.00	7,662.32	7,807.49	7,494.82	133.42	41.87	28.69	-804.20	6,225.78	2,506.68	2,343.41	163.27	15.353		
10,150.00	7,681.01	7,823.33	7,510.65	133.50	41.92	24.13	-804.68	6,226.29	2,461.94	2,298.49	163.45	15.062		
10,200.00	7,696.85	7,837.08	7,524.38	133.52	41.96	18.22	-805.12	6,226.76	2,415.59	2,252.01	163.59	14.766		
10,250.00	7,709.70	7,848.60	7,535.89	133.51	41.99	9.62	-805.50	6,227.17	2,367.96	2,204.29	163.67	14.468		
10,300.00	7,719.47	7,857.77	7,545.05	133.46	42.02	-4.45	-805.81	6,227.50	2,319.37	2,155.66	163.71	14.168		
10,350.00	7,726.09	7,864.49	7,551.76	133.37	42.04	-28.46	-806.05	6,227.75	2,270.19	2,106.49	163.70	13.868		
10,400.00	7,729.50	7,868.67	7,555.93	133.26	42.05	-60.62	-806.20	6,227.91	2,220.79	2,057.14	163.65	13.570		
10,427.79	7,730.00	7,869.86	7,557.13	133.18	42.05	-76.26	-806.24	6,227.96	2,193.38	2,029.78	163.60	13.407		
10,500.00	7,730.00	7,871.92	7,559.18	132.98	42.06	-76.56	-806.32	6,228.04	2,122.35	1,958.89	163.46	12.984		
10,600.00	7,730.00	7,874.82	7,562.08	132.72	42.07	-76.98	-806.42	6,228.15	2,024.10	1,860.86	163.24	12.400		
10,700.00	7,730.00	7,877.76	7,565.02	132.47	42.08	-77.41	-806.53	6,228.26	1,926.02	1,763.04	162.98	11.817		
10,800.00	7,730.00	7,880.75	7,568.00	132.22	42.08	-77.85	-806.64	6,228.38	1,828.15	1,665.45	162.70	11.237		
10,900.00	7,730.00	7,883.80	7,571.04	131.99	42.09	-78.29	-806.75	6,228.50	1,730.51	1,568.15	162.36	10.658		
11,000.00	7,730.00	7,886.89	7,574.13	131.77	42.10	-78.75	-806.87	6,228.62	1,633.16	1,471.18	161.97	10.083		
11,100.00	7,730.00	7,890.04	7,577.27	131.56	42.11	-79.21	-806.99	6,228.75	1,536.13	1,374.61	161.52	9.511		
11,200.00	7,730.00	7,893.76	7,580.99	131.36	42.12	-79.76	-807.13	6,228.90	1,439.50	1,278.53	160.98	8.942		
11,300.00	7,730.00	7,898.30	7,585.52	131.17	42.14	-80.44	-807.30	6,229.08	1,343.36	1,183.02	160.34	8.378		
11,400.00	7,730.00	7,902.76	7,589.98	130.99	42.15	-81.10	-807.47	6,229.26	1,247.81	1,088.25	159.55	7.821		
11,500.00	7,730.00	7,907.16	7,594.37	130.82	42.16	-81.76	-807.63	6,229.42	1,153.00	994.41	158.59	7.270		
11,600.00	7,730.00	7,911.49	7,598.69	130.66	42.17	-82.41	-807.79	6,229.58	1,059.13	901.74	157.39	6.729		
11,700.00	7,730.00	7,915.75	7,602.95	130.51	42.19	-83.04	-807.95	6,229.74	966.47	810.61	155.86	6.201		
11,800.00	7,730.00	7,919.95	7,607.14	130.37	42.20	-83.67	-808.10	6,229.89	875.41	721.54	153.87	5.689		
11,900.00	7,730.00	7,924.08	7,611.27	130.24	42.21	-84.30	-808.25	6,230.03	786.51	635.26	151.25	5.200		
12,000.00	7,730.00	7,928.15	7,615.34	130.13	42.22	-84.91	-808.40	6,230.17	700.58	552.87	147.72	4.743		
12,100.00	7,730.00	7,932.17	7,619.34	130.02	42.23	-85.51	-808.54	6,230.30	618.88	476.03	142.85	4.332		
12,200.00	7,730.00	7,936.12	7,623.29	129.93	42.24	-86.11	-808.68	6,230.43	543.30	407.25	136.05	3.993		
12,300.00	7,730.00	7,940.01	7,627.18	129.85	42.26	-86.70	-808.82	6,230.55	476.77	350.21	126.56	3.767		
12,400.00	7,730.00	7,943.85	7,631.02	129.77	42.27	-87.28	-808.95	6,230.66	423.59	309.56	114.03	3.715		
12,500.00	7,730.00	7,947.64	7,634.80	129.71	42.28	-87.85	-809.09	6,230.78	389.24	288.65	100.59	3.869		
12,589.76	7,730.00	7,950.99	7,638.14	129.67	42.29	-88.36	-809.20	6,230.87	378.76	283.96	94.81	3.995 CC, ES		
12,600.00	7,730.00	7,951.36	7,638.52	129.66	42.29	-88.41	-809.21	6,230.88	378.90	283.97	94.93	3.991		
12,700.00	7,730.00	7,955.04	7,642.19	129.63	42.30	-88.97	-809.34	6,230.99	394.46	289.88	104.58	3.772		
12,800.00	7,730.00	7,958.66	7,645.82	129.60	42.31	-89.52	-809.46	6,231.09	433.14	312.50	120.63	3.590 SF		
12,900.00	7,730.00	7,962.24	7,649.38	129.59	42.32	-90.06	-809.58	6,231.18	489.48	355.11	134.37	3.643		
13,000.00	7,730.00	7,965.76	7,652.91	129.59	42.33	-90.59	-809.70	6,231.27	558.17	414.03	144.14	3.872		
13,100.00	7,730.00	7,969.24	7,656.38	129.60	42.34	-91.11	-809.81	6,231.36	635.21	484.46	150.75	4.214		
13,200.00	7,730.00	7,972.66	7,659.80	129.63	42.35	-91.63	-809.93	6,231.44	717.92	562.71	155.21	4.626		
13,300.00	7,730.00	7,976.04	7,663.18	129.66	42.36	-92.14	-810.04	6,231.52	804.55	646.28	158.27	5.083		
13,400.00	7,730.00	7,979.38	7,666.51	129.72	42.37	-92.64	-810.15	6,231.60	893.96	733.54	160.42	5.573		
13,500.00	7,730.00	7,982.67	7,669.80	129.78	42.38	-93.14	-810.25	6,231.67	985.40	823.43	161.97	6.084		
13,600.00	7,730.00	7,985.91	7,673.04	129.86	42.39	-93.62	-810.36	6,231.74	1,078.35	915.24	163.11	6.611		
13,700.00	7,730.00	7,989.11	7,676.24	129.96	42.40	-94.11	-810.46	6,231.81	1,172.46	1,008.49	163.97	7.151		
13,800.00	7,730.00	7,992.28	7,679.40	130.07	42.41	-94.58	-810.56	6,231.87	1,267.45	1,102.83	164.62	7.699		
13,900.00	7,730.00	7,994.09	7,681.21	130.19	42.41	-94.85	-810.61	6,231.91	1,363.16	1,198.03	165.14	8.255		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,730.00	7,996.64	7,683.76	130.33	42.42	-95.23	-810.69	6,231.96	1,459.44	1,293.91	165.54	8.816		
14,100.00	7,730.00	7,999.10	7,686.22	130.49	42.42	-95.60	-810.76	6,232.01	1,556.19	1,390.33	165.86	9.382		
14,200.00	7,730.00	8,001.49	7,688.61	130.67	42.43	-95.95	-810.83	6,232.05	1,653.32	1,487.19	166.12	9.952		
14,300.00	7,730.00	8,003.80	7,690.92	130.86	42.44	-96.30	-810.90	6,232.09	1,750.76	1,584.43	166.34	10.525		
14,400.00	7,730.00	8,006.05	7,693.16	131.07	42.44	-96.63	-810.96	6,232.13	1,848.48	1,681.96	166.51	11.101		
14,500.00	7,730.00	8,008.22	7,695.34	131.30	42.45	-96.95	-811.02	6,232.17	1,946.42	1,779.76	166.66	11.679		
14,600.00	7,730.00	8,010.33	7,697.45	131.55	42.45	-97.27	-811.08	6,232.20	2,044.56	1,877.78	166.79	12.259		
14,700.00	7,730.00	8,012.38	7,699.49	131.82	42.46	-97.57	-811.13	6,232.23	2,142.87	1,975.98	166.89	12.840		
14,800.00	7,730.00	8,014.37	7,701.48	132.11	42.46	-97.86	-811.19	6,232.26	2,241.33	2,074.35	166.98	13.423		
14,900.00	7,730.00	8,016.31	7,703.42	132.42	42.47	-98.15	-811.24	6,232.29	2,339.92	2,172.86	167.06	14.006		
15,000.00	7,730.00	8,018.19	7,705.30	132.75	42.47	-98.43	-811.29	6,232.32	2,438.62	2,271.49	167.13	14.591		
15,100.00	7,730.00	8,020.02	7,707.13	133.10	42.48	-98.69	-811.33	6,232.34	2,537.42	2,370.23	167.19	15.177		
15,200.00	7,730.00	8,021.80	7,708.91	133.48	42.48	-98.96	-811.38	6,232.37	2,636.30	2,469.06	167.24	15.764		
15,300.00	7,730.00	8,023.53	7,710.64	133.88	42.49	-99.21	-811.42	6,232.39	2,735.27	2,567.98	167.29	16.351		
15,400.00	7,730.00	8,025.22	7,712.32	134.31	42.49	-99.46	-811.46	6,232.41	2,834.31	2,666.98	167.33	16.939		
15,500.00	7,730.00	8,026.86	7,713.96	134.76	42.50	-99.70	-811.50	6,232.44	2,933.41	2,766.05	167.37	17.527		
15,600.00	7,730.00	8,028.46	7,715.56	135.23	42.50	-99.93	-811.54	6,232.45	3,032.57	2,865.17	167.40	18.116		
15,700.00	7,730.00	8,030.02	7,717.12	135.73	42.51	-100.16	-811.58	6,232.47	3,131.78	2,964.35	167.43	18.705		
15,800.00	7,730.00	8,031.53	7,718.64	136.26	42.51	-100.38	-811.61	6,232.49	3,231.04	3,063.58	167.46	19.295		
15,900.00	7,730.00	8,033.02	7,720.12	136.81	42.51	-100.59	-811.65	6,232.51	3,330.34	3,162.86	167.48	19.885		
16,000.00	7,730.00	8,034.46	7,721.57	137.39	42.52	-100.80	-811.68	6,232.52	3,429.69	3,262.18	167.51	20.475		
16,100.00	7,730.00	8,035.87	7,722.98	138.00	42.52	-101.01	-811.71	6,232.54	3,529.07	3,361.54	167.53	21.065		
16,200.00	7,730.00	8,037.25	7,724.35	138.63	42.53	-101.21	-811.74	6,232.55	3,628.48	3,460.93	167.55	21.656		
16,300.00	7,730.00	8,038.59	7,725.70	139.30	42.53	-101.40	-811.77	6,232.57	3,727.92	3,560.35	167.57	22.247		
16,400.00	7,730.00	8,039.91	7,727.01	139.99	42.53	-101.59	-811.80	6,232.58	3,827.39	3,659.80	167.59	22.838		
16,500.00	7,730.00	8,041.19	7,728.29	140.70	42.54	-101.78	-811.83	6,232.59	3,926.89	3,759.28	167.61	23.429		
16,600.00	7,730.00	8,042.44	7,729.54	141.45	42.54	-101.96	-811.85	6,232.60	4,026.41	3,858.78	167.62	24.020		
16,700.00	7,730.00	8,043.67	7,730.77	142.22	42.54	-102.13	-811.88	6,232.61	4,125.95	3,958.31	167.64	24.612		
16,800.00	7,730.00	8,044.87	7,731.97	143.03	42.55	-102.30	-811.90	6,232.62	4,225.52	4,057.86	167.66	25.203		
16,900.00	7,730.00	8,046.04	7,733.14	143.86	42.55	-102.47	-811.93	6,232.63	4,325.10	4,157.43	167.67	25.795		
17,000.00	7,730.00	8,047.18	7,734.28	144.71	42.55	-102.64	-811.95	6,232.64	4,424.70	4,257.02	167.69	26.387		
17,100.00	7,730.00	8,048.30	7,735.40	145.60	42.55	-102.80	-811.97	6,232.65	4,524.32	4,356.62	167.70	26.978		
17,200.00	7,730.00	8,049.40	7,736.50	146.51	42.56	-102.95	-811.99	6,232.66	4,623.96	4,456.24	167.72	27.570		
17,300.00	7,730.00	8,050.48	7,737.57	147.44	42.56	-103.11	-812.02	6,232.67	4,723.61	4,555.88	167.73	28.162		
17,400.00	7,730.00	8,051.53	7,738.63	148.40	42.56	-103.26	-812.04	6,232.68	4,823.27	4,655.53	167.74	28.754		
17,500.00	7,730.00	8,052.56	7,739.65	149.39	42.57	-103.40	-812.06	6,232.68	4,922.95	4,755.19	167.76	29.345		
17,600.00	7,730.00	8,053.57	7,740.66	150.40	42.57	-103.55	-812.07	6,232.69	5,022.64	4,854.87	167.77	29.937		
17,700.00	7,730.00	8,054.55	7,741.65	151.44	42.57	-103.69	-812.09	6,232.70	5,122.34	4,954.56	167.79	30.529		
17,800.00	7,730.00	8,055.52	7,742.62	152.50	42.57	-103.82	-812.11	6,232.70	5,222.06	5,054.26	167.80	31.121		
17,900.00	7,730.00	8,056.47	7,743.57	153.58	42.58	-103.96	-812.13	6,232.71	5,321.78	5,153.97	167.81	31.712		
18,000.00	7,730.00	8,057.40	7,744.50	154.68	42.58	-104.09	-812.15	6,232.72	5,421.51	5,253.68	167.83	32.304		
18,100.00	7,730.00	8,058.31	7,745.41	155.80	42.58	-104.22	-812.16	6,232.72	5,521.25	5,353.41	167.84	32.896		
18,200.00	7,730.00	8,059.21	7,746.30	156.95	42.58	-104.35	-812.18	6,232.73	5,621.01	5,453.15	167.85	33.487		
18,300.00	7,730.00	8,060.09	7,747.18	158.11	42.59	-104.47	-812.19	6,232.73	5,720.77	5,552.90	167.87	34.079		
18,400.00	7,730.00	8,079.00	7,766.09	159.30	42.64	-107.10	-812.49	6,232.79	5,820.59	5,652.68	167.91	34.665		
18,500.00	7,730.00	8,079.00	7,766.09	160.50	42.64	-107.10	-812.49	6,232.79	5,920.36	5,752.44	167.92	35.256		
18,600.00	7,730.00	8,079.00	7,766.09	161.72	42.64	-107.10	-812.49	6,232.79	6,020.14	5,852.20	167.94	35.848		
18,700.00	7,730.00	8,079.00	7,766.09	162.96	42.64	-107.10	-812.49	6,232.79	6,119.92	5,951.97	167.95	36.439		
18,800.00	7,730.00	8,079.00	7,766.09	164.21	42.64	-107.10	-812.49	6,232.79	6,219.71	6,051.75	167.96	37.030		
18,900.00	7,730.00	8,079.00	7,766.09	165.48	42.64	-107.10	-812.49	6,232.79	6,319.51	6,151.54	167.98	37.622		
19,000.00	7,730.00	8,079.00	7,766.09	166.76	42.64	-107.10	-812.49	6,232.79	6,419.32	6,251.33	167.99	38.213		
19,100.00	7,730.00	8,079.00	7,766.09	168.06	42.64	-107.10	-812.49	6,232.79	6,519.13	6,351.12	168.00	38.804		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,730.00	8,079.00	7,766.09	169.38	42.64	-107.10	-812.49	6,232.79	6,618.94	6,450.93	168.02	39.395	
19,300.00	7,730.00	8,079.00	7,766.09	170.70	42.64	-107.10	-812.49	6,232.79	6,718.76	6,550.74	168.03	39.986	
19,400.00	7,730.00	8,079.00	7,766.09	172.04	42.64	-107.10	-812.49	6,232.79	6,818.59	6,650.55	168.04	40.576	
19,500.00	7,730.00	8,079.00	7,766.09	173.40	42.64	-107.10	-812.49	6,232.79	6,918.42	6,750.37	168.06	41.167	
19,600.00	7,730.00	8,079.00	7,766.09	174.76	42.64	-107.10	-812.49	6,232.79	7,018.26	6,850.19	168.07	41.758	
19,700.00	7,730.00	8,079.00	7,766.09	176.14	42.64	-107.10	-812.49	6,232.79	7,118.10	6,950.02	168.09	42.348	
19,800.00	7,730.00	8,079.00	7,766.09	177.52	42.64	-107.10	-812.49	6,232.79	7,217.95	7,049.85	168.10	42.938	
19,900.00	7,730.00	8,079.00	7,766.09	178.92	42.64	-107.10	-812.49	6,232.79	7,317.80	7,149.68	168.11	43.529	
20,000.00	7,730.00	8,079.00	7,766.09	180.33	42.64	-107.10	-812.49	6,232.79	7,417.65	7,249.52	168.13	44.119	
20,100.00	7,730.00	8,079.00	7,766.09	181.75	42.64	-107.10	-812.49	6,232.79	7,517.51	7,349.36	168.14	44.709	
20,184.95	7,730.00	8,079.00	7,766.09	182.96	42.64	-107.10	-812.49	6,232.79	7,602.34	7,434.19	168.16	45.210	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1,138.35	1,116.17	0.00	5.03	83.21	615.80	5,168.49	5,340.72					
100.00	100.00	1,197.35	1,172.75	0.13	5.38	83.32	603.55	5,157.06	5,318.68	5,313.49	5.19	1,024.600		
200.00	199.98	1,283.85	1,255.76	0.49	5.90	13.16	585.50	5,140.77	5,295.54	5,289.72	5.82	909.951		
300.00	299.84	1,361.46	1,330.08	0.86	6.36	13.47	568.41	5,126.37	5,269.29	5,262.77	6.52	808.021		
400.00	399.45	1,714.25	1,665.59	1.23	8.60	14.54	489.13	5,051.89	5,236.28	5,227.58	8.70	601.785		
500.00	498.70	1,775.00	1,723.37	1.63	8.99	14.89	476.54	5,037.97	5,199.77	5,190.42	9.35	556.350		
600.00	597.47	1,846.19	1,791.17	2.05	9.45	15.31	461.82	5,021.98	5,160.66	5,150.61	10.05	513.252		
700.00	695.62	1,907.15	1,849.25	2.51	9.83	15.73	449.30	5,008.35	5,118.74	5,108.02	10.72	477.710		
800.00	793.06	1,962.00	1,901.78	3.00	10.17	16.16	439.08	4,996.37	5,074.49	5,063.14	11.35	447.074		
900.00	889.64	2,013.57	1,951.30	3.53	10.48	16.61	429.74	4,985.40	5,027.91	5,015.94	11.97	419.920		
1,000.00	985.27	1,000.00	2,050.28	4.12	4.29	17.30	410.16	4,963.68	4,978.64	4,971.29	7.34	678.002		
1,100.00	1,079.82	2,239.40	2,167.68	4.75	11.87	18.12	387.07	4,936.83	4,925.81	4,911.97	13.84	355.952		
1,200.00	1,173.17	2,327.81	2,252.34	5.44	12.41	18.90	370.86	4,917.16	4,870.14	4,855.47	14.66	332.146		
1,300.00	1,265.21	2,391.71	2,313.56	6.18	12.80	19.65	359.38	4,902.94	4,811.88	4,796.50	15.38	312.848		
1,400.00	1,355.84	2,459.80	2,378.86	6.99	13.22	20.49	347.22	4,887.98	4,751.34	4,735.20	16.13	294.555		
1,500.00	1,444.94	2,523.00	2,439.45	7.87	13.61	21.40	335.81	4,874.07	4,688.34	4,671.47	16.87	277.876		
1,600.00	1,532.39	2,578.17	2,492.34	8.80	13.94	22.35	325.65	4,862.11	4,623.22	4,605.62	17.60	262.744		
1,700.00	1,618.11	2,626.49	2,538.68	9.81	14.24	23.36	316.52	4,851.94	4,556.22	4,537.92	18.31	248.885		
1,800.00	1,701.97	2,704.40	2,613.42	10.89	14.72	24.68	301.83	4,835.56	4,487.10	4,467.93	19.17	234.052		
1,900.00	1,783.88	2,743.11	2,650.60	12.04	14.95	25.84	294.71	4,827.45	4,415.98	4,396.10	19.88	222.180		
2,000.00	1,863.74	2,778.09	2,684.28	13.26	15.15	27.08	288.52	4,820.33	4,343.27	4,322.68	20.59	210.974		
2,100.00	1,941.45	2,840.88	2,744.90	14.55	15.52	28.69	277.94	4,807.82	4,268.97	4,247.53	21.44	199.129		
2,200.00	2,016.92	3,021.22	2,918.20	15.92	16.60	31.79	247.91	4,768.05	4,191.11	4,168.32	22.80	183.850		
2,292.11	2,084.36	3,042.96	2,939.06	17.25	16.73	33.33	244.26	4,763.10	4,118.10	4,094.62	23.48	175.356		
2,300.00	2,090.06	3,044.80	2,940.82	17.36	16.74	33.36	243.95	4,762.69	4,111.80	4,088.26	23.55	174.617		
2,400.00	2,162.18	3,084.00	2,978.52	18.84	16.98	33.85	237.47	4,754.11	4,032.41	4,008.02	24.39	165.363		
2,500.00	2,234.31	3,111.85	3,005.34	20.33	17.15	34.21	232.89	4,748.14	3,953.46	3,928.25	25.21	156.810		
2,600.00	2,306.43	3,190.41	3,080.86	21.83	17.62	35.24	219.85	4,730.92	3,874.65	3,848.38	26.28	147.462		
2,700.00	2,378.56	3,234.02	3,122.76	23.33	17.88	35.84	212.50	4,721.29	3,796.06	3,768.82	27.24	139.348		
2,800.00	2,450.68	3,281.06	3,167.94	24.84	18.17	36.50	204.46	4,710.93	3,717.84	3,689.58	28.26	131.556		
2,900.00	2,522.81	3,323.60	3,208.77	26.36	18.43	37.12	197.02	4,701.63	3,640.06	3,610.75	29.30	124.213		
3,000.00	2,594.93	3,368.06	3,249.40	27.88	18.70	37.76	189.40	4,692.47	3,562.78	3,532.37	30.40	117.186		
3,100.00	2,667.06	3,416.85	3,298.23	29.40	18.99	38.54	180.10	4,681.51	3,485.97	3,454.41	31.56	110.449		
3,200.00	2,739.18	3,467.75	3,347.07	30.92	19.31	39.35	170.80	4,670.55	3,409.61	3,376.83	32.78	104.020		
3,300.00	2,811.31	3,505.62	3,383.41	32.45	19.54	39.96	163.84	4,662.48	3,333.84	3,299.85	33.99	98.087		
3,400.00	2,883.43	3,545.56	3,421.75	33.98	19.78	40.62	156.44	4,654.10	3,258.75	3,223.49	35.26	92.425		
3,500.00	2,955.56	3,581.15	3,455.94	35.51	19.99	41.23	149.81	4,646.76	3,184.41	3,147.85	36.56	87.098		
3,600.00	3,027.68	3,616.04	3,489.49	37.04	20.20	41.83	143.30	4,639.76	3,110.93	3,073.02	37.92	82.050		
3,700.00	3,099.81	3,647.00	3,519.30	38.57	20.39	42.37	137.52	4,633.70	3,038.37	2,999.06	39.31	77.298		
3,800.00	3,171.93	3,677.85	3,549.04	40.11	20.56	42.92	131.75	4,627.87	2,966.85	2,926.10	40.75	72.799		
3,900.00	3,244.06	3,706.01	3,576.23	41.64	20.73	43.43	126.50	4,622.82	2,896.52	2,854.27	42.25	68.561		
4,000.00	3,316.18	3,741.00	3,610.10	43.18	20.93	44.07	119.96	4,616.88	2,827.44	2,783.61	43.84	64.501		
4,100.00	3,388.31	3,804.90	3,671.92	44.71	21.29	45.27	107.93	4,606.11	2,759.34	2,713.70	45.64	60.464		
4,200.00	3,460.43	3,925.99	3,788.72	46.25	21.99	47.67	85.02	4,583.87	2,691.39	2,643.58	47.81	56.296		
4,300.00	3,532.56	3,986.07	3,846.56	47.79	22.35	48.91	73.99	4,571.97	2,623.51	2,573.76	49.76	52.728		
4,400.00	3,604.68	4,040.63	3,899.13	49.33	22.67	50.06	64.16	4,561.09	2,556.56	2,504.80	51.75	49.398		
4,500.00	3,676.81	4,088.03	3,944.85	50.87	22.95	51.08	55.89	4,551.75	2,490.78	2,436.98	53.80	46.301		
4,600.00	3,748.93	4,143.77	3,998.72	52.41	23.27	52.30	46.49	4,540.94	2,426.26	2,370.30	55.96	43.359		
4,700.00	3,821.06	4,211.27	4,063.93	53.95	23.66	53.83	35.26	4,527.58	2,362.77	2,304.50	58.26	40.552		
4,800.00	3,893.18	4,259.60	4,110.51	55.49	23.95	54.96	26.90	4,517.79	2,300.55	2,239.96	60.59	37.969		
4,900.00	3,965.31	4,306.91	4,155.95	57.03	24.23	56.10	18.02	4,508.07	2,239.97	2,176.95	63.02	35.546		
5,000.00	4,037.43	4,374.21	4,220.44	58.58	24.64	57.78	5.01	4,493.89	2,180.93	2,115.25	65.68	33.205		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,431.76	4,275.51	60.12	25.00	59.25	-6.06	4,481.41	2,123.45	2,055.06	68.39	31.050		
5,200.00	4,181.68	4,483.15	4,324.60	61.66	25.33	60.60	-16.22	4,470.06	2,067.91	1,996.75	71.16	29.060		
5,300.00	4,253.81	4,536.76	4,375.68	63.20	25.67	62.05	-27.11	4,458.02	2,014.53	1,940.48	74.05	27.205		
5,400.00	4,325.93	4,589.95	4,426.27	64.75	26.01	63.52	-38.15	4,445.80	1,963.45	1,886.42	77.03	25.489		
5,500.00	4,398.06	4,644.14	4,477.72	66.29	26.37	65.04	-49.51	4,433.13	1,914.86	1,834.76	80.10	23.905		
5,600.00	4,470.18	4,701.83	4,532.44	67.84	26.75	66.70	-61.56	4,419.44	1,868.96	1,785.70	83.26	22.447		
5,700.00	4,542.31	4,767.71	4,595.05	69.38	27.18	68.61	-74.64	4,403.65	1,825.73	1,739.21	86.52	21.102		
5,800.00	4,614.43	4,803.44	4,629.04	70.92	27.41	69.66	-81.60	4,395.09	1,785.64	1,696.09	89.55	19.940		
5,900.00	4,686.56	4,837.00	4,660.93	72.47	27.63	70.66	-88.43	4,387.18	1,749.42	1,656.87	92.55	18.903		
6,000.00	4,758.68	4,871.69	4,693.86	74.01	27.86	71.70	-95.79	4,379.13	1,717.32	1,621.82	95.50	17.982		
6,100.00	4,830.81	4,914.73	4,734.77	75.56	28.14	73.00	-104.98	4,369.42	1,689.41	1,590.95	98.46	17.159		
6,200.00	4,902.93	4,959.19	4,777.14	77.10	28.43	74.34	-114.35	4,359.74	1,665.74	1,564.42	101.31	16.441		
6,300.00	4,975.06	5,020.99	4,836.11	78.65	28.82	76.22	-127.12	4,346.38	1,646.19	1,541.98	104.21	15.796		
6,400.00	5,047.18	5,077.12	4,889.69	80.19	29.17	77.93	-138.44	4,334.04	1,630.71	1,523.82	106.89	15.257		
6,500.00	5,119.31	5,128.47	4,938.80	81.74	29.49	79.51	-148.56	4,322.99	1,619.64	1,510.34	109.31	14.818		
6,600.00	5,191.43	5,193.60	5,001.32	83.28	29.88	81.49	-160.83	4,309.52	1,612.95	1,501.31	111.63	14.449		
6,700.00	5,263.56	5,269.71	5,074.96	84.83	30.31	83.78	-173.49	4,295.04	1,610.07	1,496.26	113.81	14.147		
6,730.51	5,285.56	5,293.95	5,098.57	85.30	30.44	84.49	-177.08	4,290.86	1,609.91	1,495.49	114.42	14.070		
6,800.00	5,335.68	5,352.78	5,156.14	86.37	30.75	86.21	-184.91	4,281.67	1,610.69	1,494.93	115.76	13.914 ES		
6,900.00	5,407.81	5,421.71	5,223.98	87.92	31.06	88.18	-192.93	4,272.47	1,614.85	1,497.54	117.31	13.765		
7,000.00	5,479.93	5,490.49	5,292.00	89.47	31.35	90.09	-199.91	4,265.00	1,622.49	1,503.87	118.62	13.678		
7,100.00	5,552.06	5,568.82	5,369.74	91.01	31.65	92.21	-206.84	4,258.49	1,633.43	1,513.65	119.78	13.637		
7,200.00	5,624.18	5,664.48	5,464.98	92.56	31.98	94.72	-213.58	4,252.59	1,646.98	1,526.16	120.83	13.631 SF		
7,300.00	5,696.31	5,773.68	5,574.01	94.10	32.30	97.47	-218.23	4,248.95	1,662.17	1,540.44	121.73	13.655		
7,400.00	5,768.43	5,874.82	5,675.13	95.65	32.54	99.90	-219.99	4,248.12	1,678.74	1,556.35	122.39	13.716		
7,500.00	5,840.56	5,951.10	5,751.41	97.20	32.71	101.69	-220.37	4,248.48	1,697.24	1,574.40	122.83	13.818		
7,600.00	5,912.68	6,021.62	5,821.93	98.74	32.86	103.32	-220.77	4,248.75	1,718.37	1,595.25	123.12	13.957		
7,700.00	5,984.81	6,092.22	5,892.52	100.29	33.01	104.93	-221.24	4,248.88	1,742.06	1,618.77	123.29	14.130		
7,800.00	6,056.93	6,162.22	5,962.52	101.84	33.17	106.51	-221.77	4,248.98	1,768.23	1,644.87	123.35	14.335		
7,900.00	6,129.06	6,234.14	6,034.44	103.38	33.33	108.10	-222.38	4,249.14	1,796.74	1,673.41	123.33	14.569		
8,000.00	6,201.18	6,309.19	6,109.49	104.93	33.50	109.72	-222.98	4,249.35	1,827.40	1,704.17	123.24	14.829		
8,100.00	6,273.31	6,385.72	6,186.01	106.48	33.67	111.35	-223.41	4,249.68	1,859.96	1,736.88	123.08	15.112		
8,200.00	6,345.43	6,459.51	6,259.80	108.02	33.83	112.88	-223.72	4,249.98	1,894.38	1,771.52	122.85	15.420		
8,300.00	6,417.56	6,531.15	6,331.44	109.57	33.99	114.33	-223.98	4,250.15	1,930.64	1,808.07	122.58	15.751		
8,400.00	6,489.68	6,604.44	6,404.73	111.12	34.16	115.79	-224.22	4,250.23	1,968.67	1,846.41	122.26	16.102		
8,500.00	6,561.81	6,678.69	6,478.98	112.66	34.33	117.23	-224.41	4,250.37	2,008.31	1,886.38	121.93	16.471		
8,600.00	6,633.93	6,752.00	6,552.29	114.21	34.49	118.62	-224.52	4,250.50	2,049.44	1,927.87	121.57	16.858		
8,700.00	6,706.06	6,820.92	6,621.21	115.76	34.65	119.89	-224.71	4,250.74	2,092.10	1,970.92	121.18	17.264		
8,800.00	6,778.18	6,893.41	6,693.70	117.30	34.81	121.18	-225.05	4,251.16	2,136.21	2,015.39	120.81	17.682		
8,900.00	6,850.31	6,969.41	6,769.69	118.85	34.98	122.49	-225.39	4,251.75	2,181.55	2,061.09	120.46	18.110		
9,000.00	6,922.43	7,045.56	6,845.84	120.40	35.15	123.77	-225.66	4,252.58	2,227.94	2,107.81	120.12	18.547		
9,100.00	6,994.56	7,117.75	6,918.03	121.95	35.31	124.95	-225.84	4,253.27	2,275.42	2,155.66	119.77	18.999		
9,200.00	7,066.68	7,189.09	6,989.36	123.49	35.47	126.08	-226.02	4,253.86	2,324.00	2,204.59	119.42	19.461		
9,300.00	7,138.81	7,260.33	7,060.60	125.04	35.63	127.18	-226.23	4,254.45	2,373.62	2,254.54	119.08	19.933		
9,392.50	7,205.52	7,325.71	7,125.97	126.47	35.78	128.16	-226.46	4,254.97	2,420.39	2,301.60	118.78	20.376		
9,400.00	7,210.94	7,330.96	7,131.23	126.59	35.80	127.30	-226.48	4,255.01	2,424.18	2,305.42	118.76	20.412		
9,450.00	7,247.42	7,366.35	7,166.62	127.35	35.88	121.54	-226.63	4,255.28	2,447.57	2,328.99	118.58	20.640		
9,500.00	7,284.35	7,402.23	7,202.50	128.10	35.96	115.78	-226.80	4,255.54	2,467.64	2,349.27	118.37	20.846		
9,550.00	7,321.43	7,438.42	7,238.68	128.83	36.05	110.12	-226.97	4,255.78	2,484.30	2,366.17	118.13	21.030		
9,600.00	7,358.38	7,474.44	7,274.71	129.52	36.14	104.68	-227.14	4,255.98	2,497.50	2,379.64	117.85	21.192		
9,650.00	7,394.93	7,510.03	7,310.30	130.16	36.22	99.58	-227.31	4,256.15	2,507.18	2,389.65	117.53	21.332		
9,700.00	7,430.79	7,544.92	7,345.18	130.76	36.31	94.94	-227.47	4,256.28	2,513.36	2,396.20	117.16	21.453		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY		Offset Site Error: 0.00 usft	
Survey Program: 109-MWD OWSG															Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
9,750.00	7,465.70	7,578.83	7,379.10	131.30	36.39	90.81	-227.63	4,256.37	2,516.04	2,399.31	116.73	21.554				
9,800.00	7,499.38	7,613.63	7,413.89	131.78	36.48	87.29	-227.80	4,256.48	2,515.25	2,398.97	116.27	21.632				
9,850.00	7,531.58	7,647.03	7,447.29	132.21	36.56	84.35	-227.98	4,256.63	2,511.01	2,395.26	115.75	21.693				
9,900.00	7,562.06	7,679.20	7,479.46	132.57	36.64	82.01	-228.17	4,256.82	2,503.42	2,388.24	115.18	21.734				
9,950.00	7,590.58	7,711.15	7,511.41	132.87	36.71	80.27	-228.34	4,257.03	2,492.55	2,377.99	114.56	21.757				
10,000.00	7,616.93	7,740.66	7,540.91	133.11	36.79	79.09	-228.47	4,257.25	2,478.51	2,364.63	113.88	21.764				
10,050.00	7,640.90	7,767.48	7,567.74	133.29	36.85	78.44	-228.56	4,257.46	2,461.44	2,348.30	113.14	21.756				
10,100.00	7,662.32	7,789.65	7,589.90	133.42	36.90	78.28	-228.62	4,257.65	2,441.49	2,329.16	112.33	21.735				
10,150.00	7,681.01	7,809.04	7,609.29	133.50	36.95	78.64	-228.67	4,257.81	2,418.83	2,307.37	111.46	21.701				
10,200.00	7,696.85	7,825.47	7,625.72	133.52	36.99	79.51	-228.72	4,257.95	2,393.63	2,283.08	110.55	21.652				
10,250.00	7,709.70	7,838.82	7,639.07	133.51	37.02	80.91	-228.75	4,258.06	2,366.06	2,256.46	109.59	21.590				
10,300.00	7,719.47	7,848.99	7,649.24	133.46	37.04	82.84	-228.77	4,258.14	2,336.30	2,227.70	108.60	21.513				
10,350.00	7,726.09	7,855.90	7,656.15	133.37	37.06	85.33	-228.78	4,258.20	2,304.54	2,196.96	107.58	21.421				
10,400.00	7,729.50	7,859.52	7,659.77	133.26	37.07	88.40	-228.79	4,258.23	2,270.97	2,164.43	106.55	21.314				
10,427.79	7,730.00	7,860.09	7,660.34	133.18	37.07	90.37	-228.79	4,258.24	2,251.60	2,145.64	105.97	21.248				
10,500.00	7,730.00	7,860.24	7,660.49	132.98	37.07	90.38	-228.79	4,258.24	2,201.27	2,096.84	104.43	21.079				
10,600.00	7,730.00	7,860.44	7,660.69	132.72	37.07	90.38	-228.79	4,258.24	2,133.63	2,031.43	102.20	20.878				
10,700.00	7,730.00	7,860.65	7,660.90	132.47	37.07	90.39	-228.79	4,258.24	2,068.61	1,968.77	99.85	20.717				
10,800.00	7,730.00	7,860.85	7,661.10	132.22	37.07	90.40	-228.79	4,258.24	2,006.48	1,909.08	97.40	20.600				
10,900.00	7,730.00	7,861.06	7,661.31	131.99	37.07	90.41	-228.79	4,258.25	1,947.50	1,852.62	94.88	20.526				
11,000.00	7,730.00	7,861.26	7,661.51	131.77	37.07	90.41	-228.79	4,258.25	1,891.97	1,799.66	92.31	20.495				
11,100.00	7,730.00	7,861.47	7,661.72	131.56	37.07	90.42	-228.79	4,258.25	1,840.20	1,750.45	89.75	20.504				
11,200.00	7,730.00	7,861.67	7,661.92	131.36	37.07	90.43	-228.80	4,258.25	1,792.52	1,705.26	87.26	20.542				
11,300.00	7,730.00	7,861.87	7,662.12	131.17	37.08	90.44	-228.80	4,258.25	1,749.27	1,664.33	84.94	20.594				
11,400.00	7,730.00	7,862.07	7,662.33	130.99	37.08	90.44	-228.80	4,258.25	1,710.77	1,627.87	82.90	20.636				
11,500.00	7,730.00	7,862.28	7,662.53	130.82	37.08	90.45	-228.80	4,258.26	1,677.36	1,596.07	81.28	20.636				
11,600.00	7,730.00	7,862.48	7,662.73	130.66	37.08	90.46	-228.80	4,258.26	1,649.34	1,569.10	80.24	20.556				
11,700.00	7,730.00	7,862.68	7,662.93	130.51	37.08	90.46	-228.80	4,258.26	1,627.00	1,547.10	79.90	20.363				
11,800.00	7,730.00	7,862.88	7,663.13	130.37	37.08	90.47	-228.80	4,258.26	1,610.56	1,530.18	80.38	20.038				
11,900.00	7,730.00	7,863.08	7,663.33	130.24	37.08	90.48	-228.80	4,258.26	1,600.22	1,518.51	81.71	19.584				
12,000.00	7,730.00	7,863.28	7,663.53	130.13	37.08	90.49	-228.80	4,258.26	1,596.09	1,512.22	83.86	19.032				
12,016.03	7,730.00	7,863.31	7,663.56	130.11	37.08	90.49	-228.80	4,258.26	1,596.01	1,511.72	84.28	18.936 CC				
12,100.00	7,730.00	7,863.48	7,663.73	130.02	37.08	90.49	-228.80	4,258.27	1,598.21	1,511.49	86.73	18.428				
12,200.00	7,730.00	7,863.68	7,663.93	129.93	37.08	90.50	-228.80	4,258.27	1,606.58	1,516.44	90.14	17.823				
12,300.00	7,730.00	7,863.88	7,664.13	129.85	37.08	90.51	-228.80	4,258.27	1,621.07	1,527.14	93.93	17.258				
12,400.00	7,730.00	7,864.08	7,664.33	129.77	37.08	90.51	-228.80	4,258.27	1,641.55	1,543.61	97.94	16.761				
12,500.00	7,730.00	7,864.28	7,664.53	129.71	37.08	90.52	-228.80	4,258.27	1,667.77	1,565.76	102.01	16.349				
12,600.00	7,730.00	7,864.48	7,664.73	129.66	37.08	90.53	-228.80	4,258.27	1,699.49	1,593.45	106.04	16.027				
12,700.00	7,730.00	7,864.69	7,664.94	129.63	37.08	90.54	-228.80	4,258.28	1,736.39	1,626.46	109.93	15.796				
12,800.00	7,730.00	7,864.89	7,665.14	129.60	37.08	90.54	-228.80	4,258.28	1,778.16	1,664.54	113.62	15.650				
12,900.00	7,730.00	7,865.10	7,665.35	129.59	37.08	90.55	-228.80	4,258.28	1,824.46	1,707.38	117.08	15.583				
13,000.00	7,730.00	7,865.30	7,665.55	129.59	37.08	90.56	-228.80	4,258.28	1,874.95	1,754.67	120.28	15.588				
13,100.00	7,730.00	7,865.51	7,665.76	129.60	37.08	90.57	-228.80	4,258.28	1,929.31	1,806.08	123.22	15.657				
13,200.00	7,730.00	7,865.71	7,665.96	129.63	37.08	90.57	-228.80	4,258.29	1,987.21	1,861.31	125.90	15.783				
13,300.00	7,730.00	7,865.92	7,666.17	129.66	37.08	90.58	-228.80	4,258.29	2,048.37	1,920.03	128.34	15.961				
13,400.00	7,730.00	7,866.12	7,666.38	129.72	37.09	90.59	-228.80	4,258.29	2,112.49	1,981.96	130.53	16.184				
13,500.00	7,730.00	7,866.33	7,666.58	129.78	37.09	90.60	-228.80	4,258.29	2,179.31	2,046.80	132.51	16.447				
13,600.00	7,730.00	7,866.54	7,666.79	129.86	37.09	90.60	-228.81	4,258.29	2,248.60	2,114.31	134.28	16.745				
13,700.00	7,730.00	7,866.74	7,667.00	129.96	37.09	90.61	-228.81	4,258.29	2,320.13	2,184.25	135.88	17.075				
13,800.00	7,730.00	7,866.95	7,667.20	130.07	37.09	90.62	-228.81	4,258.30	2,393.70	2,256.39	137.30	17.434				
13,900.00	7,730.00	7,867.16	7,667.41	130.19	37.09	90.62	-228.81	4,258.30	2,469.12	2,330.54	138.58	17.817				
14,000.00	7,730.00	7,867.37	7,667.62	130.33	37.09	90.63	-228.81	4,258.30	2,546.24	2,406.52	139.72	18.223				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 109-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,867.57	7,667.82	130.49	37.09	90.64	-228.81	4,258.30	2,624.91	2,484.16	140.75	18.650		
14,200.00	7,730.00	7,867.78	7,668.03	130.67	37.09	90.65	-228.81	4,258.30	2,704.99	2,563.32	141.67	19.094		
14,300.00	7,730.00	7,867.99	7,668.24	130.86	37.09	90.65	-228.81	4,258.30	2,786.35	2,643.86	142.49	19.555		
14,400.00	7,730.00	7,868.20	7,668.45	131.07	37.09	90.66	-228.81	4,258.31	2,868.89	2,725.67	143.22	20.031		
14,500.00	7,730.00	7,868.41	7,668.66	131.30	37.09	90.67	-228.81	4,258.31	2,952.51	2,808.62	143.89	20.520		
14,600.00	7,730.00	7,868.61	7,668.87	131.55	37.09	90.68	-228.81	4,258.31	3,037.12	2,892.64	144.48	21.021		
14,700.00	7,730.00	7,868.82	7,669.07	131.82	37.09	90.68	-228.81	4,258.31	3,122.64	2,977.63	145.01	21.533		
14,800.00	7,730.00	7,869.03	7,669.28	132.11	37.09	90.69	-228.81	4,258.31	3,209.00	3,063.51	145.49	22.056		
14,900.00	7,730.00	7,869.24	7,669.49	132.42	37.09	90.70	-228.81	4,258.32	3,296.13	3,150.21	145.93	22.587		
15,000.00	7,730.00	7,869.45	7,669.70	132.75	37.09	90.71	-228.81	4,258.32	3,383.97	3,237.66	146.32	23.128		
15,100.00	7,730.00	7,869.66	7,669.91	133.10	37.09	90.71	-228.81	4,258.32	3,472.47	3,325.80	146.67	23.676		
15,200.00	7,730.00	7,869.87	7,670.12	133.48	37.09	90.72	-228.81	4,258.32	3,561.58	3,414.59	146.99	24.231		
15,300.00	7,730.00	7,870.08	7,670.33	133.88	37.09	90.73	-228.81	4,258.32	3,651.25	3,503.98	147.27	24.792		
15,400.00	7,730.00	7,870.29	7,670.54	134.31	37.10	90.74	-228.81	4,258.32	3,741.45	3,593.91	147.53	25.360		
15,500.00	7,730.00	7,870.50	7,670.75	134.76	37.10	90.75	-228.81	4,258.33	3,832.13	3,684.36	147.77	25.933		
15,600.00	7,730.00	7,870.71	7,670.96	135.23	37.10	90.75	-228.81	4,258.33	3,923.27	3,775.28	147.98	26.511		
15,700.00	7,730.00	7,870.92	7,671.17	135.73	37.10	90.76	-228.81	4,258.33	4,014.82	3,866.65	148.18	27.095		
15,800.00	7,730.00	7,871.13	7,671.39	136.26	37.10	90.77	-228.82	4,258.33	4,106.78	3,958.42	148.35	27.682		
15,900.00	7,730.00	7,871.35	7,671.60	136.81	37.10	90.78	-228.82	4,258.33	4,199.10	4,050.58	148.51	28.274		
16,000.00	7,730.00	7,871.56	7,671.81	137.39	37.10	90.78	-228.82	4,258.33	4,291.76	4,143.10	148.66	28.870		
16,100.00	7,730.00	7,871.77	7,672.02	138.00	37.10	90.79	-228.82	4,258.34	4,384.74	4,235.95	148.79	29.469		
16,200.00	7,730.00	7,871.98	7,672.23	138.63	37.10	90.80	-228.82	4,258.34	4,478.03	4,329.12	148.91	30.072		
16,300.00	7,730.00	7,872.19	7,672.44	139.30	37.10	90.81	-228.82	4,258.34	4,571.60	4,422.58	149.02	30.677		
16,400.00	7,730.00	7,872.41	7,672.66	139.99	37.10	90.81	-228.82	4,258.34	4,665.44	4,516.32	149.12	31.286		
16,500.00	7,730.00	7,872.62	7,672.87	140.70	37.10	90.82	-228.82	4,258.34	4,759.53	4,610.32	149.21	31.897		
16,600.00	7,730.00	7,872.83	7,673.08	141.45	37.10	90.83	-228.82	4,258.35	4,853.86	4,704.56	149.30	32.511		
16,700.00	7,730.00	7,873.04	7,673.30	142.22	37.10	90.84	-228.82	4,258.35	4,948.41	4,799.03	149.37	33.128		
16,800.00	7,730.00	7,873.26	7,673.51	143.03	37.10	90.84	-228.82	4,258.35	5,043.17	4,893.72	149.44	33.746		
16,900.00	7,730.00	7,873.47	7,673.72	143.86	37.10	90.85	-228.82	4,258.35	5,138.12	4,988.61	149.51	34.367		
17,000.00	7,730.00	7,873.68	7,673.94	144.71	37.10	90.86	-228.82	4,258.35	5,233.27	5,083.70	149.57	34.990		
17,100.00	7,730.00	7,873.90	7,674.15	145.60	37.10	90.87	-228.82	4,258.35	5,328.59	5,178.97	149.62	35.614		
17,200.00	7,730.00	7,874.11	7,674.36	146.51	37.10	90.87	-228.82	4,258.36	5,424.08	5,274.41	149.67	36.240		
17,300.00	7,730.00	7,874.33	7,674.58	147.44	37.10	90.88	-228.82	4,258.36	5,519.73	5,370.02	149.71	36.868		
17,400.00	7,730.00	7,874.54	7,674.79	148.40	37.11	90.89	-228.82	4,258.36	5,615.54	5,465.78	149.76	37.498		
17,500.00	7,730.00	7,874.76	7,675.01	149.39	37.11	90.90	-228.82	4,258.36	5,711.48	5,561.69	149.80	38.129		
17,600.00	7,730.00	7,874.97	7,675.22	150.40	37.11	90.91	-228.82	4,258.36	5,807.57	5,657.74	149.83	38.761		
17,700.00	7,730.00	7,875.19	7,675.44	151.44	37.11	90.91	-228.82	4,258.37	5,903.78	5,753.92	149.86	39.395		
17,800.00	7,730.00	7,875.40	7,675.65	152.50	37.11	90.92	-228.82	4,258.37	6,000.12	5,850.22	149.89	40.029		
17,900.00	7,730.00	7,875.62	7,675.87	153.58	37.11	90.93	-228.82	4,258.37	6,096.57	5,946.65	149.92	40.665		
18,000.00	7,730.00	7,875.83	7,676.09	154.68	37.11	90.94	-228.82	4,258.37	6,193.14	6,043.19	149.95	41.302		
18,100.00	7,730.00	7,876.05	7,676.30	155.80	37.11	90.94	-228.83	4,258.37	6,289.82	6,139.84	149.97	41.940		
18,200.00	7,730.00	7,876.27	7,676.52	156.95	37.11	90.95	-228.83	4,258.37	6,386.59	6,236.60	149.99	42.579		
18,300.00	7,730.00	7,876.48	7,676.73	158.11	37.11	90.96	-228.83	4,258.38	6,483.47	6,333.45	150.01	43.219		
18,400.00	7,730.00	7,876.70	7,676.95	159.30	37.11	90.97	-228.83	4,258.38	6,580.44	6,430.40	150.03	43.860		
18,500.00	7,730.00	7,876.92	7,677.17	160.50	37.11	90.98	-228.83	4,258.38	6,677.49	6,527.44	150.05	44.502		
18,600.00	7,730.00	7,877.13	7,677.39	161.72	37.11	90.98	-228.83	4,258.38	6,774.64	6,624.57	150.07	45.144		
18,700.00	7,730.00	7,877.35	7,677.60	162.96	37.11	90.99	-228.83	4,258.38	6,871.86	6,721.78	150.08	45.787		
18,800.00	7,730.00	7,877.57	7,677.82	164.21	37.11	91.00	-228.83	4,258.39	6,969.17	6,819.07	150.10	46.431		
18,900.00	7,730.00	7,877.79	7,678.04	165.48	37.11	91.01	-228.83	4,258.39	7,066.55	6,916.43	150.11	47.075		
19,000.00	7,730.00	7,878.01	7,678.26	166.76	37.11	91.01	-228.83	4,258.39	7,164.00	7,013.87	150.13	47.720		
19,100.00	7,730.00	7,878.22	7,678.48	168.06	37.11	91.02	-228.83	4,258.39	7,261.52	7,111.38	150.14	48.366		
19,200.00	7,730.00	7,878.44	7,678.69	169.38	37.11	91.03	-228.83	4,258.39	7,359.11	7,208.96	150.15	49.012		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,878.66	7,678.91	170.70	37.12	91.04	-228.83	4,258.39	7,456.76	7,306.60	150.16	49.658	
19,400.00	7,730.00	7,878.88	7,679.13	172.04	37.12	91.05	-228.83	4,258.40	7,554.47	7,404.30	150.17	50.305	
19,500.00	7,730.00	7,879.10	7,679.35	173.40	37.12	91.05	-228.83	4,258.40	7,652.24	7,502.06	150.18	50.952	
19,600.00	7,730.00	7,879.32	7,679.57	174.76	37.12	91.06	-228.83	4,258.40	7,750.07	7,599.88	150.19	51.600	
19,700.00	7,730.00	7,879.54	7,679.79	176.14	37.12	91.07	-228.83	4,258.40	7,847.95	7,697.75	150.20	52.248	
19,800.00	7,730.00	7,879.76	7,680.01	177.52	37.12	91.08	-228.83	4,258.40	7,945.89	7,795.68	150.21	52.897	
19,900.00	7,730.00	7,879.98	7,680.23	178.92	37.12	91.09	-228.83	4,258.41	8,043.88	7,893.65	150.22	53.546	
20,000.00	7,730.00	7,880.20	7,680.45	180.33	37.12	91.09	-228.83	4,258.41	8,141.91	7,991.68	150.23	54.195	
20,100.00	7,730.00	7,880.42	7,680.67	181.75	37.12	91.10	-228.83	4,258.41	8,240.00	8,089.75	150.24	54.844	
20,184.95	7,730.00	7,880.61	7,680.86	182.96	37.12	91.11	-228.84	4,258.41	8,323.36	8,173.11	150.25	55.396	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	135.06	-2,068.71	2,064.07	2,922.66					
100.00	100.00	72.50	72.50	0.13	0.12	135.07	-2,068.60	2,063.87	2,922.15	2,921.90	0.25	N/A		
200.00	199.98	185.15	185.14	0.49	0.42	64.68	-2,068.04	2,062.96	2,920.47	2,919.55	0.92	3,190.576		
300.00	299.84	300.10	300.08	0.86	0.84	64.85	-2,067.05	2,061.94	2,917.00	2,915.31	1.69	1,724.870		
400.00	399.45	394.96	394.93	1.23	1.18	65.09	-2,066.06	2,060.94	2,911.82	2,909.42	2.41	1,210.615		
500.00	498.70	485.42	485.38	1.63	1.50	65.40	-2,064.95	2,060.48	2,905.44	2,902.32	3.12	932.122		
600.00	597.47	641.48	641.40	2.05	2.06	65.97	-2,061.66	2,058.90	2,896.63	2,892.54	4.09	708.340		
700.00	695.62	760.37	760.22	2.51	2.49	66.58	-2,058.14	2,056.61	2,885.32	2,880.37	4.96	582.266		
800.00	793.06	849.53	849.31	3.00	2.81	67.17	-2,055.04	2,055.12	2,872.56	2,866.82	5.75	499.854		
900.00	889.64	900.00	1,644.96	3.53	2.82	71.59	-1,962.28	1,981.09	2,856.47	2,850.36	6.11	467.841		
1,000.00	985.27	1,000.00	1,815.29	4.12	3.02	73.52	-1,922.53	1,946.15	2,816.92	2,810.12	6.80	414.400		
1,100.00	1,079.82	2,069.50	2,035.71	4.75	8.43	76.20	-1,862.46	1,893.84	2,772.31	2,760.78	11.53	240.535		
1,200.00	1,173.17	2,170.86	2,130.04	5.44	9.08	78.11	-1,834.60	1,869.40	2,725.58	2,713.07	12.51	217.871		
1,300.00	1,265.21	2,226.23	2,181.64	6.18	9.45	79.70	-1,819.60	1,855.99	2,678.90	2,665.49	13.42	199.671		
1,400.00	1,355.84	2,289.65	2,240.91	6.99	9.86	81.43	-1,802.87	1,840.89	2,632.89	2,618.48	14.41	182.665		
1,500.00	1,444.94	2,359.69	2,306.45	7.87	10.32	83.31	-1,784.92	1,823.93	2,587.40	2,571.90	15.50	166.922		
1,600.00	1,532.39	2,433.81	2,375.87	8.80	10.81	85.31	-1,765.75	1,806.36	2,542.50	2,525.83	16.67	152.490		
1,700.00	1,618.11	2,505.33	2,442.86	9.81	11.29	87.33	-1,746.87	1,789.96	2,498.35	2,480.44	17.92	139.442		
1,800.00	1,701.97	2,587.37	2,519.72	10.89	11.84	89.56	-1,725.03	1,771.30	2,455.13	2,435.87	19.27	127.431		
1,900.00	1,783.88	2,662.31	2,589.75	12.04	12.35	91.76	-1,705.10	1,753.59	2,412.83	2,392.15	20.68	116.649		
2,000.00	1,863.74	2,726.04	2,649.32	13.26	12.78	93.79	-1,688.21	1,738.49	2,372.18	2,350.01	22.17	107.009		
2,100.00	1,941.45	2,785.78	2,705.21	14.55	13.19	95.75	-1,672.29	1,724.64	2,333.59	2,309.85	23.73	98.320		
2,200.00	2,016.92	2,857.28	2,772.12	15.92	13.68	97.94	-1,653.05	1,708.39	2,297.30	2,271.89	25.41	90.397		
2,292.11	2,084.36	2,935.15	2,844.73	17.25	14.23	100.22	-1,632.06	1,689.63	2,265.80	2,238.74	27.06	83.741		
2,300.00	2,090.06	2,942.97	2,852.00	17.36	14.28	100.39	-1,629.91	1,687.71	2,263.18	2,235.98	27.20	83.197		
2,400.00	2,162.18	3,025.58	2,928.60	18.84	14.87	102.16	-1,606.65	1,667.31	2,230.89	2,201.85	29.04	76.822		
2,500.00	2,234.31	3,082.75	2,981.51	20.33	15.29	103.40	-1,590.40	1,653.01	2,200.99	2,170.12	30.87	71.293		
2,600.00	2,306.43	3,128.19	3,023.57	21.83	15.62	104.40	-1,577.60	1,641.56	2,173.89	2,141.17	32.72	66.444		
2,700.00	2,378.56	3,169.52	3,061.94	23.33	15.92	105.31	-1,566.24	1,631.17	2,150.00	2,115.42	34.58	62.180		
2,800.00	2,450.68	3,223.87	3,112.48	24.84	16.31	106.52	-1,551.60	1,617.59	2,129.36	2,092.90	36.46	58.404		
2,900.00	2,522.81	3,294.34	3,177.98	26.36	16.82	108.09	-1,532.23	1,600.26	2,111.46	2,073.11	38.35	55.053		
3,000.00	2,594.93	3,350.13	3,229.79	27.88	17.22	109.35	-1,516.78	1,586.49	2,096.48	2,056.25	40.23	52.115		
3,100.00	2,667.06	3,412.17	3,287.35	29.40	17.68	110.75	-1,499.62	1,570.93	2,084.60	2,042.50	42.09	49.524		
3,200.00	2,739.18	3,481.34	3,351.36	30.92	18.19	112.32	-1,480.24	1,553.33	2,075.64	2,031.70	43.94	47.239		
3,300.00	2,811.31	3,562.82	3,426.49	32.45	18.80	114.19	-1,466.73	1,532.27	2,069.40	2,023.64	45.76	45.222		
3,400.00	2,883.43	3,613.59	3,473.22	33.98	19.19	115.35	-1,441.82	1,519.16	2,066.16	2,018.63	47.52	43.476		
3,442.14	2,913.82	3,633.85	3,491.91	34.62	19.34	115.81	-1,435.92	1,514.03	2,065.85	2,017.59	48.25	42.814 CC		
3,500.00	2,955.56	3,661.99	3,517.91	35.51	19.55	116.45	-1,427.76	1,507.02	2,066.43	2,017.20	49.24	41.970 ES		
3,600.00	3,027.68	3,702.79	3,555.71	37.04	19.85	117.38	-1,416.13	1,497.03	2,070.30	2,019.42	50.88	40.691		
3,700.00	3,099.81	3,743.44	3,593.52	38.57	20.15	118.30	-1,404.86	1,487.22	2,077.85	2,025.40	52.45	39.612		
3,800.00	3,171.93	3,802.40	3,648.51	40.11	20.57	119.62	-1,388.84	1,473.21	2,088.89	2,034.91	53.97	38.702		
3,900.00	3,244.06	3,869.66	3,711.19	41.64	21.06	121.12	-1,370.26	1,457.38	2,102.73	2,047.30	55.43	37.936		
4,000.00	3,316.18	3,924.34	3,761.98	43.18	21.46	122.35	-1,355.06	1,444.04	2,119.57	2,062.77	56.80	37.316		
4,100.00	3,388.31	3,985.73	3,818.85	44.71	21.91	123.72	-1,337.95	1,428.49	2,139.47	2,081.37	58.10	36.822		
4,200.00	3,460.43	4,054.92	3,882.98	46.25	22.43	125.25	-1,318.42	1,411.37	2,162.04	2,102.70	59.34	36.434		
4,300.00	3,532.56	4,112.05	3,936.03	47.79	22.84	126.50	-1,302.27	1,397.65	2,187.32	2,126.84	60.48	36.165		
4,400.00	3,604.68	4,165.20	3,985.48	49.33	23.23	127.64	-1,287.31	1,385.15	2,215.32	2,153.77	61.54	35.996		
4,500.00	3,676.81	4,213.30	4,030.27	50.87	23.58	128.67	-1,273.95	1,373.77	2,246.14	2,183.62	62.52	35.925		
4,600.00	3,748.93	4,279.60	4,092.00	52.41	24.07	130.07	-1,255.64	1,358.01	2,279.57	2,216.11	63.46	35.923 SF		
4,700.00	3,821.06	4,347.55	4,155.16	53.95	24.56	131.49	-1,236.43	1,341.91	2,314.98	2,250.65	64.33	35.985		
4,800.00	3,893.18	4,399.90	4,203.75	55.49	24.95	132.58	-1,221.56	1,329.32	2,352.71	2,287.59	65.12	36.130		
4,900.00	3,965.31	4,452.91	4,252.93	57.03	25.34	133.67	-1,206.56	1,316.39	2,392.76	2,326.92	65.84	36.341		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,507.14	4,303.31	58.58	25.74	134.76	-1,191.38	1,303.32	2,434.98	2,368.47	66.51	36.609		
5,100.00	4,109.56	4,554.54	4,347.47	60.12	26.08	135.70	-1,178.34	1,292.06	2,479.32	2,412.20	67.11	36.941		
5,200.00	4,181.68	4,601.25	4,391.16	61.66	26.42	136.61	-1,165.86	1,281.17	2,525.77	2,458.10	67.67	37.326		
5,300.00	4,253.81	4,648.50	4,435.52	63.20	26.75	137.51	-1,153.66	1,270.44	2,574.19	2,506.02	68.17	37.761		
5,400.00	4,325.93	4,696.80	4,481.12	64.75	27.08	138.40	-1,141.71	1,259.90	2,624.46	2,555.82	68.64	38.234		
5,500.00	4,398.06	4,745.71	4,527.53	66.29	27.39	139.28	-1,130.16	1,249.65	2,676.43	2,607.35	69.08	38.746		
5,600.00	4,470.18	4,795.55	4,575.04	67.84	27.71	140.14	-1,118.94	1,239.63	2,729.98	2,660.49	69.49	39.287		
5,700.00	4,542.31	4,842.57	4,620.11	69.38	27.99	140.93	-1,108.99	1,230.65	2,785.02	2,715.17	69.85	39.869		
5,800.00	4,614.43	4,893.00	4,668.74	70.92	28.29	141.75	-1,099.15	1,221.64	2,841.49	2,771.27	70.22	40.463		
5,900.00	4,686.56	4,957.30	4,731.05	72.47	28.64	142.74	-1,087.39	1,210.92	2,899.07	2,828.44	70.62	41.049		
6,000.00	4,758.68	5,016.34	4,788.43	74.01	28.95	143.62	-1,077.07	1,201.70	2,957.50	2,886.51	70.99	41.659		
6,100.00	4,830.81	5,068.59	4,839.41	75.56	29.22	144.36	-1,068.60	1,194.00	3,016.97	2,945.65	71.32	42.299		
6,200.00	4,902.93	5,126.62	4,896.22	77.10	29.50	145.15	-1,059.90	1,185.93	3,077.40	3,005.73	71.67	42.938		
6,300.00	4,975.06	5,191.52	4,959.94	78.65	29.81	146.00	-1,050.88	1,177.49	3,138.60	3,066.55	72.05	43.564		
6,400.00	5,047.18	5,280.51	5,047.84	80.19	30.19	147.06	-1,040.51	1,168.48	3,200.13	3,127.58	72.55	44.108		
6,500.00	5,119.31	5,345.11	5,111.96	81.74	30.42	147.76	-1,034.38	1,163.54	3,261.99	3,189.06	72.93	44.729		
6,600.00	5,191.43	5,421.94	5,188.42	83.28	30.68	148.54	-1,028.34	1,158.96	3,324.22	3,250.84	73.38	45.304		
6,700.00	5,263.56	5,511.68	5,277.91	84.83	30.95	149.37	-1,022.79	1,155.52	3,386.54	3,312.64	73.90	45.826		
6,800.00	5,335.68	5,581.07	5,347.22	86.37	31.14	149.95	-1,019.53	1,154.28	3,448.83	3,374.50	74.33	46.401		
6,900.00	5,407.81	5,629.47	5,395.59	87.92	31.26	150.34	-1,018.04	1,153.76	3,511.77	3,437.13	74.64	47.050		
7,000.00	5,479.93	5,680.57	5,446.68	89.47	31.39	150.72	-1,017.16	1,153.39	3,575.41	3,500.44	74.97	47.694		
7,100.00	5,552.06	5,733.18	5,499.29	91.01	31.51	151.10	-1,016.72	1,153.04	3,639.65	3,564.35	75.30	48.335		
7,200.00	5,624.18	5,819.67	5,585.78	92.56	31.70	151.69	-1,016.46	1,152.72	3,704.18	3,628.34	75.84	48.842		
7,300.00	5,696.31	5,891.93	5,658.03	94.10	31.87	152.17	-1,016.11	1,152.64	3,768.65	3,692.34	76.30	49.392		
7,400.00	5,768.43	5,958.63	5,724.73	95.65	32.02	152.61	-1,015.50	1,152.22	3,833.37	3,756.64	76.73	49.962		
7,500.00	5,840.56	6,024.81	5,790.90	97.20	32.18	153.03	-1,014.90	1,151.69	3,898.36	3,821.21	77.15	50.529		
7,600.00	5,912.68	6,096.08	5,862.16	98.74	32.35	153.47	-1,014.26	1,151.04	3,963.56	3,885.95	77.61	51.071		
7,700.00	5,984.81	6,162.02	5,928.11	100.29	32.51	153.87	-1,013.64	1,150.37	4,028.95	3,950.92	78.04	51.629		
7,800.00	6,056.93	6,226.66	5,992.74	101.84	32.67	154.26	-1,013.13	1,149.63	4,094.63	4,016.17	78.46	52.189		
7,900.00	6,129.06	6,298.17	6,064.24	103.38	32.84	154.67	-1,012.60	1,148.78	4,160.49	4,081.56	78.93	52.714		
8,000.00	6,201.18	6,375.37	6,141.44	104.93	33.03	155.10	-1,012.00	1,147.89	4,226.44	4,147.01	79.43	53.207		
8,100.00	6,273.31	6,451.01	6,217.07	106.48	33.22	155.50	-1,011.35	1,147.11	4,292.42	4,212.48	79.93	53.699		
8,200.00	6,345.43	6,527.14	6,293.19	108.02	33.41	155.90	-1,010.82	1,146.48	4,358.46	4,278.01	80.44	54.180		
8,300.00	6,417.56	6,614.70	6,380.75	109.57	33.62	156.34	-1,010.41	1,146.11	4,424.49	4,343.45	81.03	54.601		
8,400.00	6,489.68	6,709.36	6,475.41	111.12	33.85	156.78	-1,010.01	1,146.51	4,490.12	4,408.44	81.67	54.976		
8,500.00	6,561.81	6,762.49	6,528.54	112.66	33.97	157.03	-1,009.78	1,146.64	4,555.96	4,473.91	82.05	55.530		
8,600.00	6,633.93	6,832.33	6,598.37	114.21	34.15	157.35	-1,009.38	1,146.49	4,622.11	4,539.58	82.53	56.005		
8,700.00	6,706.06	6,903.07	6,669.12	115.76	34.32	157.66	-1,008.75	1,146.24	4,688.30	4,605.28	83.02	56.471		
8,800.00	6,778.18	6,962.64	6,728.68	117.30	34.47	157.93	-1,008.35	1,145.98	4,754.72	4,671.27	83.44	56.982		
8,900.00	6,850.31	7,047.35	6,813.39	118.85	34.69	158.28	-1,007.88	1,145.64	4,821.24	4,737.21	84.04	57.371		
9,000.00	6,922.43	7,145.93	6,911.97	120.40	34.94	158.69	-1,007.19	1,145.66	4,887.55	4,802.82	84.73	57.686		
9,100.00	6,994.56	7,222.66	6,988.69	121.95	35.13	158.99	-1,006.55	1,145.94	4,953.66	4,868.39	85.27	58.091		
9,200.00	7,066.68	7,284.90	7,050.93	123.49	35.29	159.23	-1,005.93	1,146.07	5,019.88	4,934.16	85.73	58.556		
9,300.00	7,138.81	7,338.69	7,104.71	125.04	35.43	159.44	-1,005.36	1,145.93	5,086.42	5,000.29	86.12	59.059		
9,392.50	7,205.52	7,402.77	7,168.79	126.47	35.60	159.69	-1,004.52	1,145.48	5,148.17	5,061.58	86.59	59.454		
9,400.00	7,210.94	7,408.24	7,174.26	126.59	35.62	158.40	-1,004.44	1,145.43	5,153.17	5,066.54	86.63	59.484		
9,450.00	7,247.42	7,444.98	7,210.98	127.35	35.72	149.98	-1,003.77	1,145.05	5,185.31	5,098.42	86.89	59.676		
9,500.00	7,284.35	7,473.00	7,239.00	128.10	35.80	141.80	-1,003.21	1,144.69	5,215.41	5,128.32	87.09	59.887		
9,550.00	7,321.43	7,501.41	7,267.40	128.83	35.88	133.97	-1,002.62	1,144.26	5,243.27	5,155.99	87.28	60.075		
9,600.00	7,358.38	7,529.51	7,295.49	129.52	35.96	126.59	-1,002.01	1,143.77	5,268.74	5,181.28	87.46	60.243		
9,650.00	7,394.93	7,571.68	7,337.64	130.16	36.08	119.85	-1,001.12	1,143.02	5,291.63	5,203.91	87.72	60.323		
9,700.00	7,430.79	9,700.00	7,444.63	130.76	41.48	114.22	-999.96	1,142.82	5,311.50	5,217.93	93.57	56.765		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,748.07	7,514.00	131.30	36.53	108.99	-999.88	1,143.92	5,328.22	5,239.37	88.85	59.968		
9,800.00	7,499.38	7,765.18	7,531.10	131.78	36.57	104.04	-999.96	1,144.29	5,341.95	5,253.05	88.90	60.091		
9,850.00	7,531.58	7,781.43	7,547.36	132.21	36.61	99.76	-1,000.04	1,144.59	5,352.82	5,263.91	88.91	60.202		
9,900.00	7,562.06	7,796.73	7,562.65	132.57	36.64	96.11	-1,000.11	1,144.81	5,360.78	5,271.88	88.90	60.301		
9,950.00	7,590.58	7,819.00	7,584.92	132.87	36.69	93.15	-1,000.20	1,145.04	5,365.80	5,276.89	88.91	60.351		
10,000.00	7,616.93	7,819.00	7,584.92	133.11	36.69	90.57	-1,000.20	1,145.04	5,367.86	5,279.12	88.74	60.491		
10,050.00	7,640.90	7,837.57	7,603.49	133.29	36.74	88.71	-1,000.29	1,145.15	5,366.96	5,278.28	88.68	60.523		
10,100.00	7,662.32	7,849.22	7,615.14	133.42	36.77	87.31	-1,000.36	1,145.20	5,363.13	5,274.59	88.54	60.572		
10,150.00	7,681.01	7,859.42	7,625.34	133.50	36.79	86.39	-1,000.43	1,145.22	5,356.41	5,268.03	88.38	60.607		
10,200.00	7,696.85	7,868.09	7,634.01	133.52	36.81	85.94	-1,000.49	1,145.23	5,346.86	5,258.67	88.19	60.629		
10,250.00	7,709.70	7,875.17	7,641.09	133.51	36.83	85.94	-1,000.54	1,145.23	5,334.54	5,246.57	87.98	60.635		
10,300.00	7,719.47	7,880.62	7,646.54	133.46	36.84	86.39	-1,000.59	1,145.22	5,319.55	5,231.80	87.75	60.623		
10,350.00	7,726.09	7,884.39	7,650.31	133.37	36.85	87.29	-1,000.62	1,145.21	5,301.98	5,214.48	87.50	60.591		
10,400.00	7,729.50	7,886.45	7,652.37	133.26	36.86	88.65	-1,000.63	1,145.21	5,281.95	5,194.70	87.25	60.536		
10,427.79	7,730.00	7,886.85	7,652.77	133.18	36.86	89.61	-1,000.64	1,145.21	5,269.80	5,182.69	87.11	60.494		
10,500.00	7,730.00	7,887.18	7,653.10	132.98	36.86	89.61	-1,000.64	1,145.21	5,237.72	5,150.96	86.75	60.375		
10,600.00	7,730.00	7,887.65	7,653.57	132.72	36.86	89.62	-1,000.65	1,145.20	5,194.61	5,108.33	86.28	60.206		
10,700.00	7,730.00	7,888.12	7,654.04	132.47	36.86	89.62	-1,000.65	1,145.20	5,153.09	5,067.24	85.84	60.029		
10,800.00	7,730.00	7,888.59	7,654.51	132.22	36.86	89.63	-1,000.65	1,145.20	5,113.18	5,027.74	85.44	59.843		
10,900.00	7,730.00	7,889.06	7,654.98	131.99	36.86	89.63	-1,000.66	1,145.20	5,074.93	4,989.85	85.08	59.647		
11,000.00	7,730.00	7,889.54	7,655.46	131.77	36.86	89.64	-1,000.66	1,145.20	5,038.38	4,953.61	84.77	59.436		
11,100.00	7,730.00	7,890.02	7,655.94	131.56	36.86	89.65	-1,000.67	1,145.20	5,003.56	4,919.05	84.50	59.212		
11,200.00	7,730.00	7,890.51	7,656.43	131.36	36.87	89.65	-1,000.67	1,145.20	4,970.50	4,886.21	84.29	58.970		
11,300.00	7,730.00	7,891.00	7,656.92	131.17	36.87	89.66	-1,000.67	1,145.19	4,939.25	4,855.12	84.13	58.711		
11,400.00	7,730.00	7,891.49	7,657.41	130.99	36.87	89.66	-1,000.68	1,145.19	4,909.84	4,825.81	84.03	58.432		
11,500.00	7,730.00	7,891.99	7,657.90	130.82	36.87	89.67	-1,000.68	1,145.19	4,882.30	4,798.32	83.98	58.135		
11,600.00	7,730.00	7,892.48	7,658.40	130.66	36.87	89.68	-1,000.69	1,145.19	4,856.66	4,772.66	84.00	57.817		
11,700.00	7,730.00	7,892.99	7,658.91	130.51	36.87	89.68	-1,000.69	1,145.19	4,832.96	4,748.88	84.08	57.480		
11,800.00	7,730.00	7,893.49	7,659.41	130.37	36.87	89.69	-1,000.70	1,145.19	4,811.21	4,726.99	84.22	57.124		
11,900.00	7,730.00	7,894.00	7,659.92	130.24	36.87	89.69	-1,000.70	1,145.18	4,791.46	4,707.03	84.43	56.751		
12,000.00	7,730.00	7,894.52	7,660.44	130.13	36.87	89.70	-1,000.71	1,145.18	4,773.72	4,689.02	84.70	56.361		
12,100.00	7,730.00	7,895.03	7,660.95	130.02	36.88	89.71	-1,000.71	1,145.18	4,758.01	4,672.98	85.03	55.957		
12,200.00	7,730.00	7,895.56	7,661.47	129.93	36.88	89.71	-1,000.72	1,145.18	4,744.37	4,658.94	85.42	55.540		
12,300.00	7,730.00	7,896.08	7,662.00	129.85	36.88	89.72	-1,000.72	1,145.18	4,732.79	4,646.92	85.87	55.114		
12,400.00	7,730.00	7,896.61	7,662.53	129.77	36.88	89.73	-1,000.72	1,145.17	4,723.31	4,636.93	86.38	54.682		
12,500.00	7,730.00	7,897.14	7,663.06	129.71	36.88	89.73	-1,000.73	1,145.17	4,715.92	4,628.98	86.94	54.245		
12,600.00	7,730.00	7,897.68	7,663.60	129.66	36.88	89.74	-1,000.73	1,145.17	4,710.65	4,623.10	87.55	53.807		
12,700.00	7,730.00	7,898.22	7,664.14	129.63	36.88	89.75	-1,000.74	1,145.17	4,707.50	4,619.29	88.20	53.372		
12,798.50	7,730.00	7,898.75	7,664.67	129.60	36.88	89.75	-1,000.74	1,145.16	4,706.47	4,617.58	88.89	52.947		
12,800.00	7,730.00	7,898.76	7,664.68	129.60	36.88	89.75	-1,000.74	1,145.16	4,706.47	4,617.57	88.90	52.941		
12,900.00	7,730.00	7,899.31	7,665.23	129.59	36.89	89.76	-1,000.75	1,145.16	4,707.56	4,617.92	89.64	52.518		
13,000.00	7,730.00	7,899.86	7,665.78	129.59	36.89	89.77	-1,000.75	1,145.16	4,710.78	4,620.37	90.41	52.105		
13,100.00	7,730.00	7,914.00	7,679.92	129.60	36.92	89.94	-1,000.89	1,145.08	4,716.15	4,624.81	91.34	51.633		
13,200.00	7,730.00	7,914.00	7,679.92	129.63	36.92	89.94	-1,000.89	1,145.08	4,723.59	4,631.43	92.16	51.253		
13,300.00	7,730.00	7,914.00	7,679.92	129.66	36.92	89.94	-1,000.89	1,145.08	4,733.14	4,640.13	93.01	50.889		
13,400.00	7,730.00	7,914.00	7,679.92	129.72	36.92	89.94	-1,000.89	1,145.08	4,744.77	4,650.90	93.87	50.544		
13,500.00	7,730.00	7,914.00	7,679.92	129.78	36.92	89.94	-1,000.89	1,145.08	4,758.48	4,663.72	94.76	50.218		
13,600.00	7,730.00	7,914.00	7,679.92	129.86	36.92	89.94	-1,000.89	1,145.08	4,774.24	4,678.59	95.65	49.914		
13,700.00	7,730.00	7,914.00	7,679.92	129.96	36.92	89.94	-1,000.89	1,145.08	4,792.04	4,695.49	96.55	49.632		
13,800.00	7,730.00	7,914.00	7,679.92	130.07	36.92	89.94	-1,000.89	1,145.08	4,811.85	4,714.39	97.46	49.373		
13,900.00	7,730.00	7,914.00	7,679.92	130.19	36.92	89.94	-1,000.89	1,145.08	4,833.65	4,735.28	98.37	49.138		
14,000.00	7,730.00	7,914.00	7,679.92	130.33	36.92	89.94	-1,000.89	1,145.08	4,857.41	4,758.13	99.28	48.926		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,914.00	7,679.92	130.49	36.92	89.94	-1,000.89	1,145.08	4,883.11	4,782.92	100.19	48.739		
14,200.00	7,730.00	7,914.00	7,679.92	130.67	36.92	89.94	-1,000.89	1,145.08	4,910.70	4,809.61	101.09	48.576		
14,300.00	7,730.00	7,914.00	7,679.92	130.86	36.92	89.94	-1,000.89	1,145.08	4,940.17	4,838.18	101.99	48.438		
14,400.00	7,730.00	7,914.00	7,679.92	131.07	36.92	89.94	-1,000.89	1,145.08	4,971.47	4,868.60	102.88	48.324		
14,500.00	7,730.00	7,914.00	7,679.92	131.30	36.92	89.94	-1,000.89	1,145.08	5,004.58	4,900.82	103.76	48.234		
14,600.00	7,730.00	7,914.00	7,679.92	131.55	36.92	89.94	-1,000.89	1,145.08	5,039.45	4,934.83	104.62	48.168		
14,700.00	7,730.00	7,914.00	7,679.92	131.82	36.92	89.94	-1,000.89	1,145.08	5,076.06	4,970.58	105.47	48.126		
14,800.00	7,730.00	7,914.00	7,679.92	132.11	36.92	89.94	-1,000.89	1,145.08	5,114.36	5,008.04	106.31	48.107		
14,900.00	7,730.00	7,914.00	7,679.92	132.42	36.92	89.94	-1,000.89	1,145.08	5,154.31	5,047.17	107.14	48.110		
15,000.00	7,730.00	7,914.00	7,679.92	132.75	36.92	89.94	-1,000.89	1,145.08	5,195.88	5,087.94	107.94	48.135		
15,100.00	7,730.00	7,914.00	7,679.92	133.10	36.92	89.94	-1,000.89	1,145.08	5,239.03	5,130.30	108.73	48.182		
15,200.00	7,730.00	7,914.00	7,679.92	133.48	36.92	89.94	-1,000.89	1,145.08	5,283.72	5,174.22	109.51	48.250		
15,300.00	7,730.00	7,914.00	7,679.92	133.88	36.92	89.94	-1,000.89	1,145.08	5,329.91	5,219.65	110.26	48.339		
15,400.00	7,730.00	7,914.65	7,680.57	134.31	36.92	89.95	-1,000.90	1,145.08	5,377.57	5,266.57	111.00	48.445		
15,500.00	7,730.00	7,915.55	7,681.46	134.76	36.93	89.96	-1,000.91	1,145.07	5,426.65	5,314.92	111.73	48.571		
15,600.00	7,730.00	7,916.45	7,682.37	135.23	36.93	89.97	-1,000.92	1,145.06	5,477.12	5,364.68	112.43	48.715		
15,700.00	7,730.00	7,917.38	7,683.30	135.73	36.93	89.98	-1,000.93	1,145.06	5,528.93	5,415.81	113.12	48.877		
15,800.00	7,730.00	7,918.32	7,684.23	136.26	36.93	89.99	-1,000.94	1,145.05	5,582.05	5,468.27	113.79	49.056		
15,900.00	7,730.00	7,919.27	7,685.19	136.81	36.93	90.00	-1,000.95	1,145.05	5,636.45	5,522.01	114.44	49.253		
16,000.00	7,730.00	7,920.25	7,686.16	137.39	36.94	90.01	-1,000.96	1,145.04	5,692.09	5,577.02	115.07	49.466		
16,100.00	7,730.00	7,921.24	7,687.15	138.00	36.94	90.03	-1,000.97	1,145.03	5,748.92	5,633.24	115.68	49.695		
16,200.00	7,730.00	7,922.24	7,688.16	138.63	36.94	90.04	-1,000.98	1,145.02	5,806.92	5,690.64	116.28	49.939		
16,300.00	7,730.00	7,923.27	7,689.18	139.30	36.94	90.05	-1,000.99	1,145.02	5,866.06	5,749.20	116.86	50.198		
16,400.00	7,730.00	7,924.31	7,690.23	139.99	36.95	90.06	-1,001.00	1,145.01	5,926.28	5,808.87	117.42	50.472		
16,500.00	7,730.00	7,925.37	7,691.29	140.70	36.95	90.08	-1,001.02	1,145.00	5,987.58	5,869.62	117.96	50.759		
16,600.00	7,730.00	7,926.45	7,692.37	141.45	36.95	90.09	-1,001.03	1,144.99	6,049.90	5,931.42	118.49	51.059		
16,700.00	7,730.00	7,927.56	7,693.47	142.22	36.95	90.10	-1,001.04	1,144.98	6,113.23	5,994.23	119.00	51.372		
16,800.00	7,730.00	7,928.68	7,694.59	143.03	36.96	90.12	-1,001.05	1,144.97	6,177.53	6,058.03	119.49	51.697		
16,900.00	7,730.00	7,929.82	7,695.74	143.86	36.96	90.13	-1,001.07	1,144.97	6,242.76	6,122.79	119.97	52.034		
17,000.00	7,730.00	7,930.99	7,696.90	144.71	36.96	90.14	-1,001.08	1,144.96	6,308.91	6,188.47	120.44	52.383		
17,100.00	7,730.00	7,932.17	7,698.09	145.60	36.97	90.16	-1,001.10	1,144.95	6,375.93	6,255.05	120.89	52.742		
17,200.00	7,730.00	7,933.38	7,699.30	146.51	36.97	90.17	-1,001.11	1,144.94	6,443.82	6,322.49	121.32	53.112		
17,300.00	7,730.00	7,934.62	7,700.53	147.44	36.97	90.19	-1,001.13	1,144.93	6,512.53	6,390.78	121.75	53.493		
17,400.00	7,730.00	7,935.88	7,701.79	148.40	36.97	90.20	-1,001.14	1,144.91	6,582.04	6,459.88	122.15	53.883		
17,500.00	7,730.00	7,937.16	7,703.08	149.39	36.98	90.22	-1,001.16	1,144.90	6,652.33	6,529.78	122.55	54.283		
17,600.00	7,730.00	7,938.47	7,704.39	150.40	36.98	90.24	-1,001.17	1,144.89	6,723.37	6,600.43	122.93	54.691		
17,700.00	7,730.00	7,939.81	7,705.72	151.44	36.98	90.25	-1,001.19	1,144.88	6,795.13	6,671.83	123.30	55.109		
17,800.00	7,730.00	7,941.17	7,707.09	152.50	36.99	90.27	-1,001.21	1,144.87	6,867.61	6,743.95	123.66	55.535		
17,900.00	7,730.00	7,942.56	7,708.48	153.58	36.99	90.29	-1,001.23	1,144.86	6,940.77	6,816.76	124.01	55.969		
18,000.00	7,730.00	7,943.98	7,709.90	154.68	36.99	90.30	-1,001.24	1,144.84	7,014.59	6,890.24	124.35	56.412		
18,100.00	7,730.00	7,945.44	7,711.35	155.80	37.00	90.32	-1,001.26	1,144.83	7,089.05	6,964.38	124.67	56.861		
18,200.00	7,730.00	7,946.92	7,712.83	156.95	37.00	90.34	-1,001.28	1,144.81	7,164.14	7,039.15	124.99	57.318		
18,300.00	7,730.00	7,948.43	7,714.35	158.11	37.00	90.36	-1,001.30	1,144.80	7,239.82	7,114.53	125.29	57.782		
18,400.00	7,730.00	7,949.98	7,715.89	159.30	37.01	90.38	-1,001.32	1,144.78	7,316.09	7,190.50	125.59	58.253		
18,500.00	7,730.00	7,951.56	7,717.48	160.50	37.01	90.40	-1,001.35	1,144.77	7,392.93	7,267.05	125.88	58.731		
18,600.00	7,730.00	7,953.18	7,719.09	161.72	37.02	90.42	-1,001.37	1,144.75	7,470.31	7,344.16	126.16	59.214		
18,700.00	7,730.00	7,954.83	7,720.75	162.96	37.02	90.44	-1,001.39	1,144.74	7,548.23	7,421.80	126.43	59.704		
18,800.00	7,730.00	7,956.53	7,722.44	164.21	37.02	90.46	-1,001.42	1,144.72	7,626.66	7,499.97	126.69	60.200		
18,900.00	7,730.00	7,958.26	7,724.17	165.48	37.03	90.48	-1,001.44	1,144.70	7,705.59	7,578.65	126.94	60.701		
19,000.00	7,730.00	7,960.03	7,725.94	166.76	37.03	90.50	-1,001.47	1,144.68	7,785.00	7,657.81	127.19	61.208		
19,100.00	7,730.00	7,961.85	7,727.76	168.06	37.04	90.52	-1,001.49	1,144.66	7,864.89	7,737.46	127.43	61.720		
19,200.00	7,730.00	7,963.70	7,729.61	169.38	37.04	90.54	-1,001.52	1,144.64	7,945.22	7,817.56	127.66	62.237		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,965.61	7,731.52	170.70	37.05	90.57	-1,001.55	1,144.62	8,026.00	7,898.12	127.89	62.759	
19,400.00	7,730.00	7,967.56	7,733.47	172.04	37.05	90.59	-1,001.58	1,144.60	8,107.21	7,979.11	128.10	63.286	
19,500.00	7,730.00	7,969.55	7,735.47	173.40	37.06	90.61	-1,001.61	1,144.58	8,188.83	8,060.52	128.32	63.817	
19,600.00	7,730.00	7,971.60	7,737.51	174.76	37.06	90.64	-1,001.64	1,144.55	8,270.86	8,142.34	128.52	64.353	
19,700.00	7,730.00	7,973.71	7,739.62	176.14	37.07	90.66	-1,001.68	1,144.53	8,353.28	8,224.55	128.72	64.893	
19,800.00	7,730.00	7,975.86	7,741.77	177.52	37.07	90.69	-1,001.71	1,144.50	8,436.07	8,307.15	128.92	65.437	
19,900.00	7,730.00	7,978.07	7,743.98	178.92	37.08	90.72	-1,001.75	1,144.47	8,519.24	8,390.13	129.11	65.985	
20,000.00	7,730.00	7,980.34	7,746.25	180.33	37.08	90.75	-1,001.79	1,144.45	8,602.76	8,473.47	129.29	66.537	
20,100.00	7,730.00	7,982.68	7,748.59	181.75	37.09	90.77	-1,001.82	1,144.42	8,686.63	8,557.16	129.47	67.092	
20,184.95	7,730.00	7,984.71	7,750.62	182.96	37.09	90.80	-1,001.86	1,144.39	8,758.15	8,628.53	129.62	67.567	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	135.23	-2,072.35	2,055.67	2,919.32					
100.00	100.00	63.80	63.80	0.13	0.10	135.23	-2,072.24	2,055.65	2,918.89	2,918.66	0.24	N/A		
200.00	199.98	167.44	167.44	0.49	0.36	64.82	-2,071.65	2,055.56	2,917.68	2,916.83	0.85	3,415.200		
300.00	299.84	266.34	266.34	0.86	0.72	64.96	-2,071.26	2,055.46	2,915.11	2,913.53	1.57	1,854.992		
400.00	399.45	372.97	372.96	1.23	1.10	65.20	-2,070.75	2,055.20	2,910.91	2,908.59	2.33	1,250.819		
500.00	498.70	500.00	553.57	1.63	1.55	65.76	-2,069.34	2,051.19	2,903.64	2,900.46	3.17	914.700		
600.00	597.47	721.17	720.60	2.05	2.35	66.61	-2,068.95	2,038.84	2,891.47	2,887.09	4.38	659.919		
700.00	695.62	804.87	803.85	2.51	2.67	67.29	-2,070.61	2,030.36	2,878.26	2,873.13	5.13	561.229		
800.00	793.06	880.23	878.69	3.00	2.96	68.02	-2,073.32	2,021.92	2,864.42	2,858.53	5.88	486.734		
900.00	889.64	950.00	947.84	3.53	3.23	68.80	-2,077.30	2,013.55	2,850.55	2,843.88	6.67	427.554		
1,000.00	985.27	1,002.13	999.40	4.12	3.44	69.49	-2,081.35	2,006.94	2,836.88	2,829.45	7.43	381.571		
1,100.00	1,079.82	1,044.00	1,040.70	4.75	3.61	70.13	-2,085.33	2,001.37	2,823.71	2,815.50	8.21	343.817		
1,200.00	1,173.17	1,098.93	1,094.78	5.44	3.83	70.92	-2,091.54	1,994.07	2,811.30	2,802.20	9.11	308.702		
1,300.00	1,265.21	1,139.00	1,134.18	6.18	4.00	71.57	-2,096.79	1,988.93	2,800.03	2,790.04	10.00	280.068		
1,400.00	1,355.84	1,181.00	1,175.40	6.99	4.18	72.25	-2,102.92	1,983.77	2,789.98	2,779.02	10.96	254.504		
1,500.00	1,444.94	1,233.00	1,226.36	7.87	4.40	73.07	-2,111.37	1,977.77	2,781.33	2,769.29	12.04	231.035		
1,600.00	1,532.39	1,254.80	1,247.69	8.80	4.50	73.49	-2,115.22	1,975.39	2,774.05	2,761.01	13.04	212.683		
1,700.00	1,618.11	1,296.23	1,288.14	9.81	4.68	74.16	-2,123.01	1,971.05	2,768.42	2,754.21	14.21	194.831		
1,800.00	1,701.97	1,338.00	1,328.86	10.89	4.86	74.83	-2,131.30	1,966.82	2,764.29	2,748.84	15.45	178.945		
1,900.00	1,783.88	1,373.88	1,363.76	12.04	5.02	75.41	-2,138.86	1,963.30	2,761.85	2,745.12	16.73	165.074		
1,978.60	1,846.82	1,400.38	1,389.47	13.00	5.14	75.82	-2,144.75	1,960.75	2,761.25	2,743.47	17.78	155.280 CC		
2,000.00	1,863.74	1,407.43	1,396.30	13.26	5.17	75.93	-2,146.36	1,960.09	2,761.30	2,743.23	18.07	152.829 ES		
2,100.00	1,941.45	1,433.00	1,421.04	14.55	5.29	76.31	-2,152.37	1,957.69	2,762.75	2,743.32	19.43	142.194		
2,200.00	2,016.92	1,466.91	1,453.76	15.92	5.45	76.79	-2,160.72	1,954.64	2,766.29	2,745.39	20.90	132.344		
2,292.11	2,084.36	1,491.60	1,477.53	17.25	5.57	77.10	-2,167.08	1,952.57	2,771.52	2,749.24	22.28	124.421		
2,300.00	2,090.06	1,493.67	1,479.52	17.36	5.58	77.13	-2,167.62	1,952.40	2,772.06	2,749.66	22.39	123.783		
2,400.00	2,162.18	1,527.00	1,511.51	18.84	5.74	77.70	-2,176.60	1,949.80	2,780.55	2,756.60	23.95	116.104		
2,500.00	2,234.31	1,527.00	1,511.51	20.33	5.74	77.70	-2,176.60	1,949.80	2,792.16	2,766.88	25.28	110.444		
2,600.00	2,306.43	1,574.34	1,556.80	21.83	5.98	78.49	-2,190.00	1,946.56	2,806.44	2,779.55	26.89	104.358		
2,700.00	2,378.56	1,622.00	1,602.22	23.33	6.22	79.28	-2,204.19	1,943.92	2,823.92	2,795.43	28.49	99.119		
2,800.00	2,450.68	1,637.31	1,616.78	24.84	6.30	79.54	-2,208.86	1,943.13	2,843.93	2,814.09	29.85	95.288		
2,900.00	2,522.81	1,693.55	1,670.32	26.36	6.58	80.46	-2,225.95	1,940.86	2,866.45	2,834.99	31.45	91.138		
3,000.00	2,594.93	1,791.33	1,763.61	27.88	7.09	82.04	-2,255.04	1,937.48	2,890.83	2,857.50	33.32	86.750		
3,100.00	2,667.06	1,850.63	1,820.35	29.40	7.40	82.99	-2,272.11	1,935.41	2,916.56	2,881.65	34.91	83.554		
3,200.00	2,739.18	1,899.01	1,866.64	30.92	7.66	83.75	-2,286.14	1,934.12	2,944.46	2,908.07	36.39	80.923		
3,300.00	2,811.31	2,009.27	1,972.37	32.45	8.24	85.46	-2,317.34	1,932.13	2,973.91	2,935.64	38.28	77.697		
3,400.00	2,883.43	2,061.24	2,022.31	33.98	8.52	86.26	-2,331.69	1,931.47	3,004.72	2,964.99	39.73	75.633		
3,500.00	2,955.56	2,116.49	2,075.39	35.51	8.81	87.09	-2,347.02	1,930.82	3,037.34	2,996.16	41.18	73.763		
3,600.00	3,027.68	2,167.47	2,124.30	37.04	9.09	87.87	-2,361.37	1,929.72	3,071.80	3,029.24	42.57	72.166		
3,700.00	3,099.81	2,211.71	2,166.67	38.57	9.34	88.54	-2,374.02	1,928.39	3,108.16	3,064.28	43.87	70.844		
3,800.00	3,171.93	2,252.30	2,205.48	40.11	9.57	89.14	-2,385.86	1,927.40	3,146.48	3,101.35	45.12	69.733		
3,900.00	3,244.06	2,363.86	2,312.22	41.64	10.19	90.76	-2,418.28	1,926.63	3,186.51	3,139.62	46.89	67.952		
4,000.00	3,316.18	2,412.26	2,358.70	43.18	10.46	91.45	-2,431.76	1,927.10	3,227.01	3,178.85	48.15	67.016		
4,100.00	3,388.31	2,450.00	2,394.86	44.71	10.67	91.98	-2,442.57	1,927.21	3,269.32	3,220.02	49.30	66.319		
4,200.00	3,460.43	2,504.91	2,447.37	46.25	10.98	92.75	-2,458.64	1,927.03	3,313.34	3,262.78	50.55	65.544		
4,300.00	3,532.56	2,581.43	2,520.59	47.79	11.41	93.81	-2,480.84	1,926.67	3,358.45	3,306.50	51.96	64.636		
4,400.00	3,604.68	2,664.61	2,600.28	49.33	11.88	94.92	-2,504.64	1,927.83	3,404.46	3,351.06	53.41	63.746		
4,500.00	3,676.81	2,766.38	2,698.07	50.87	12.45	96.27	-2,532.80	1,927.99	3,451.02	3,396.04	54.98	62.766		
4,600.00	3,748.93	2,853.40	2,781.90	52.41	12.95	97.46	-2,555.75	1,923.87	3,498.16	3,441.76	56.40	62.022		
4,700.00	3,821.06	2,898.61	2,825.45	53.95	13.20	98.07	-2,567.58	1,921.27	3,546.41	3,488.95	57.46	61.718		
4,800.00	3,893.18	2,952.28	2,877.13	55.49	13.51	98.78	-2,581.87	1,918.99	3,595.97	3,537.40	58.57	61.397		
4,900.00	3,965.31	3,027.50	2,949.59	57.03	13.94	99.75	-2,601.99	1,917.15	3,646.49	3,586.66	59.84	60.939		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,084.32	3,004.34	58.58	14.26	100.46	-2,617.14	1,916.07	3,697.90	3,636.96	60.94	60.683		
5,100.00	4,109.56	3,129.00	3,047.39	60.12	14.51	101.02	-2,629.04	1,914.55	3,750.39	3,688.49	61.91	60.579		
5,200.00	4,181.68	3,171.75	3,088.52	61.66	14.76	101.56	-2,640.52	1,912.68	3,804.10	3,741.26	62.84	60.536		
5,300.00	4,253.81	3,207.91	3,123.25	63.20	14.97	102.01	-2,650.44	1,910.88	3,859.09	3,795.40	63.69	60.591		
5,400.00	4,325.93	3,269.85	3,182.67	64.75	15.34	102.78	-2,667.61	1,907.54	3,915.20	3,850.46	64.75	60.470		
5,500.00	4,398.06	3,347.16	3,256.92	66.29	15.79	103.72	-2,688.74	1,903.53	3,971.89	3,905.97	65.92	60.252		
5,600.00	4,470.18	3,416.50	3,323.57	67.84	16.19	104.55	-2,707.66	1,900.60	4,029.20	3,962.18	67.02	60.122		
5,700.00	4,542.31	3,455.26	3,360.80	69.38	16.42	105.00	-2,718.37	1,899.18	4,087.36	4,019.54	67.83	60.261		
5,800.00	4,614.43	3,495.74	3,399.61	70.92	16.66	105.46	-2,729.75	1,897.76	4,146.53	4,077.90	68.64	60.412		
5,900.00	4,686.56	3,574.81	3,475.39	72.47	17.13	106.34	-2,752.22	1,895.43	4,206.47	4,136.67	69.80	60.268		
6,000.00	4,758.68	3,652.31	3,549.73	74.01	17.58	107.18	-2,774.07	1,894.05	4,266.67	4,195.74	70.94	60.147		
6,100.00	4,830.81	3,712.51	3,607.47	75.56	17.94	107.81	-2,791.06	1,893.44	4,327.35	4,255.44	71.91	60.177		
6,200.00	4,902.93	3,754.53	3,647.76	77.10	18.19	108.25	-2,803.03	1,892.90	4,388.80	4,316.10	72.70	60.371		
6,300.00	4,975.06	3,790.00	3,681.73	78.65	18.40	108.62	-2,813.21	1,892.25	4,451.08	4,377.67	73.41	60.636		
6,400.00	5,047.18	3,823.63	3,713.90	80.19	18.60	108.96	-2,822.98	1,891.36	4,514.24	4,440.16	74.08	60.936		
6,500.00	5,119.31	5,030.86	4,898.27	81.74	24.17	120.18	-3,028.14	1,861.98	4,576.99	4,493.75	83.24	54.984		
6,600.00	5,191.43	5,119.84	4,987.18	83.28	24.44	120.93	-3,031.22	1,860.82	4,624.94	4,540.68	84.26	54.887		
6,700.00	5,263.56	5,204.02	5,071.32	84.83	24.70	121.63	-3,033.84	1,859.87	4,673.20	4,587.95	85.25	54.818		
6,800.00	5,335.68	5,258.07	5,125.34	86.37	24.86	122.07	-3,035.53	1,859.27	4,722.03	4,635.94	86.09	54.851		
6,900.00	5,407.81	5,424.87	5,292.07	87.92	25.36	123.41	-3,040.01	1,858.33	4,771.16	4,683.74	87.42	54.579		
7,000.00	5,479.93	5,490.14	5,357.33	89.47	25.54	123.91	-3,041.18	1,858.47	4,819.81	4,731.52	88.29	54.593		
7,100.00	5,552.06	5,567.58	5,434.76	91.01	25.76	124.51	-3,042.59	1,858.69	4,868.97	4,779.78	89.20	54.586		
7,200.00	5,624.18	5,643.27	5,510.43	92.56	25.98	125.08	-3,043.87	1,858.86	4,918.56	4,828.47	90.09	54.597		
7,300.00	5,696.31	5,723.38	5,590.53	94.10	26.21	125.68	-3,045.10	1,858.97	4,968.56	4,877.57	90.99	54.608		
7,400.00	5,768.43	5,816.29	5,683.44	95.65	26.48	126.36	-3,046.24	1,859.08	5,018.83	4,926.90	91.93	54.597		
7,500.00	5,840.56	5,916.61	5,783.75	97.20	26.76	127.09	-3,046.98	1,859.44	5,069.15	4,976.26	92.88	54.576		
7,600.00	5,912.68	6,011.24	5,878.39	98.74	27.01	127.77	-3,047.05	1,859.56	5,119.56	5,025.77	93.79	54.586		
7,700.00	5,984.81	6,086.13	5,953.27	100.29	27.20	128.30	-3,046.67	1,859.37	5,170.18	5,075.59	94.59	54.657		
7,800.00	6,056.93	6,141.99	6,009.13	101.84	27.34	128.69	-3,046.43	1,859.03	5,221.38	5,126.08	95.31	54.785		
7,900.00	6,129.06	6,199.34	6,066.48	103.38	27.49	129.09	-3,046.30	1,858.56	5,273.22	5,177.20	96.02	54.920		
8,000.00	6,201.18	6,264.16	6,131.29	104.93	27.67	129.54	-3,046.34	1,858.02	5,325.64	5,228.89	96.75	55.046		
8,100.00	6,273.31	6,375.59	6,242.73	106.48	27.96	130.28	-3,046.35	1,857.74	5,378.23	5,280.56	97.67	55.065		
8,200.00	6,345.43	6,470.33	6,337.46	108.02	28.20	130.91	-3,045.70	1,857.77	5,430.63	5,332.13	98.51	55.130		
8,300.00	6,417.56	6,529.61	6,396.74	109.57	28.35	131.30	-3,045.12	1,857.45	5,483.46	5,384.28	99.18	55.287		
8,400.00	6,489.68	6,578.59	6,445.72	111.12	28.47	131.62	-3,044.60	1,856.82	5,536.88	5,437.08	99.80	55.479		
8,500.00	6,561.81	6,629.00	6,496.11	112.66	28.61	131.95	-3,044.03	1,855.68	5,590.97	5,490.56	100.41	55.680		
8,600.00	6,633.93	6,674.81	6,541.90	114.21	28.73	132.25	-3,043.54	1,854.34	5,645.72	5,544.73	100.99	55.904		
8,700.00	6,706.06	6,723.00	6,590.06	115.76	28.86	132.57	-3,043.10	1,852.72	5,701.09	5,599.53	101.56	56.133		
8,800.00	6,778.18	6,774.26	6,641.28	117.30	29.01	132.90	-3,042.75	1,850.86	5,757.06	5,654.92	102.14	56.363		
8,900.00	6,850.31	6,827.98	6,694.96	118.85	29.16	133.24	-3,042.56	1,848.83	5,813.60	5,710.88	102.72	56.595		
9,000.00	6,922.43	6,903.20	6,770.14	120.40	29.37	133.71	-3,042.64	1,846.43	5,870.52	5,767.12	103.40	56.774		
9,100.00	6,994.56	6,958.38	6,825.30	121.95	29.54	134.05	-3,042.91	1,844.92	5,927.79	5,823.80	103.99	57.004		
9,200.00	7,066.68	7,015.76	6,882.65	123.49	29.71	134.40	-3,043.25	1,843.14	5,985.57	5,880.99	104.58	57.236		
9,300.00	7,138.81	7,167.73	7,034.50	125.04	30.14	135.33	-3,042.19	1,837.14	6,043.29	5,937.73	105.56	57.247		
9,392.50	7,205.52	7,253.76	7,120.44	126.47	30.38	135.84	-3,040.49	1,833.67	6,096.26	5,990.04	106.22	57.394		
9,400.00	7,210.94	7,259.46	7,126.14	126.59	30.39	134.85	-3,040.41	1,833.49	6,100.53	5,994.26	106.27	57.408		
9,450.00	7,247.42	7,319.76	7,186.41	127.35	30.56	128.37	-3,039.78	1,832.05	6,127.20	6,020.49	106.70	57.423		
9,500.00	7,284.35	7,350.00	7,235.92	128.10	30.54	121.93	-3,039.49	1,831.80	6,150.35	6,036.63	113.72	54.083		
9,550.00	7,321.43	7,418.66	7,285.31	128.83	30.83	115.66	-3,039.25	1,831.67	6,170.18	6,062.63	107.55	57.372		
9,600.00	7,358.38	7,440.60	7,307.25	129.52	30.89	109.52	-3,039.19	1,831.59	6,186.65	6,078.80	107.85	57.362		
9,650.00	7,394.93	7,462.18	7,328.83	130.16	30.95	103.78	-3,039.15	1,831.45	6,199.66	6,091.50	108.16	57.322		
9,700.00	7,430.79	7,484.86	7,351.51	130.76	31.02	98.53	-3,039.11	1,831.24	6,209.14	6,100.68	108.46	57.249		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,513.10	7,379.75	131.30	31.10	93.89	-3,039.10	1,830.93	6,215.02	6,106.24	108.78	57.134		
9,800.00	7,499.38	9,800.00	7,486.33	131.78	37.56	90.39	-3,038.86	1,830.27	6,217.18	6,100.84	116.35	53.437		
9,850.00	7,531.58	7,700.04	7,566.67	132.21	31.63	87.35	-3,038.25	1,830.73	6,215.19	6,105.18	110.01	56.495		
9,900.00	7,562.06	7,714.21	7,580.84	132.57	31.67	84.47	-3,038.17	1,830.91	6,209.56	6,099.34	110.22	56.339		
9,950.00	7,590.58	7,727.53	7,594.16	132.87	31.71	82.18	-3,038.14	1,831.06	6,200.45	6,090.06	110.39	56.167		
10,000.00	7,616.93	7,739.91	7,606.54	133.11	31.74	80.46	-3,038.15	1,831.20	6,187.94	6,077.41	110.53	55.982		
10,050.00	7,640.90	7,761.00	7,627.63	133.29	31.80	79.38	-3,038.24	1,831.43	6,172.13	6,061.44	110.69	55.760		
10,100.00	7,662.32	7,761.00	7,627.63	133.42	31.80	78.68	-3,038.24	1,831.43	6,153.08	6,042.37	110.71	55.578		
10,150.00	7,681.01	7,761.00	7,627.63	133.50	31.80	78.54	-3,038.24	1,831.43	6,130.99	6,020.28	110.70	55.384		
10,200.00	7,696.85	7,779.49	7,646.12	133.52	31.86	79.15	-3,038.39	1,831.62	6,105.92	5,995.16	110.77	55.125		
10,250.00	7,709.70	7,786.35	7,652.98	133.51	31.88	80.26	-3,038.47	1,831.69	6,078.11	5,967.37	110.74	54.885		
10,300.00	7,719.47	7,791.70	7,658.33	133.46	31.90	81.99	-3,038.53	1,831.75	6,047.72	5,937.03	110.69	54.636		
10,350.00	7,726.09	7,795.47	7,662.09	133.37	31.91	84.41	-3,038.58	1,831.79	6,014.95	5,904.33	110.61	54.378		
10,400.00	7,729.50	7,797.60	7,664.23	133.26	31.92	87.59	-3,038.61	1,831.81	5,980.02	5,869.50	110.52	54.110		
10,427.79	7,730.00	7,798.06	7,664.69	133.18	31.92	89.71	-3,038.62	1,831.81	5,959.75	5,849.30	110.45	53.957		
10,500.00	7,730.00	7,798.60	7,665.22	132.98	31.92	89.72	-3,038.62	1,831.82	5,906.57	5,796.29	110.28	53.558		
10,600.00	7,730.00	7,799.35	7,665.97	132.72	31.92	89.73	-3,038.64	1,831.83	5,833.59	5,723.54	110.05	53.010		
10,700.00	7,730.00	7,800.12	7,666.74	132.47	31.92	89.74	-3,038.65	1,831.83	5,761.42	5,651.61	109.81	52.468		
10,800.00	7,730.00	7,800.90	7,667.53	132.22	31.93	89.75	-3,038.66	1,831.84	5,690.09	5,580.52	109.57	51.932		
10,900.00	7,730.00	7,801.71	7,668.33	131.99	31.93	89.76	-3,038.67	1,831.85	5,619.64	5,510.31	109.33	51.401		
11,000.00	7,730.00	7,802.53	7,669.15	131.77	31.93	89.77	-3,038.68	1,831.86	5,550.09	5,441.00	109.09	50.876		
11,100.00	7,730.00	7,803.37	7,669.99	131.56	31.93	89.79	-3,038.70	1,831.87	5,481.48	5,372.63	108.85	50.357		
11,200.00	7,730.00	7,804.23	7,670.85	131.36	31.94	89.80	-3,038.71	1,831.88	5,413.86	5,305.24	108.62	49.844		
11,300.00	7,730.00	7,805.11	7,671.74	131.17	31.94	89.81	-3,038.72	1,831.89	5,347.24	5,238.86	108.38	49.337		
11,400.00	7,730.00	7,806.02	7,672.64	130.99	31.94	89.82	-3,038.74	1,831.90	5,281.68	5,173.53	108.15	48.836		
11,500.00	7,730.00	7,806.94	7,673.56	130.82	31.94	89.84	-3,038.75	1,831.90	5,217.22	5,109.29	107.92	48.342		
11,600.00	7,730.00	7,807.89	7,674.51	130.66	31.95	89.85	-3,038.77	1,831.91	5,153.88	5,046.18	107.70	47.854		
11,700.00	7,730.00	7,808.86	7,675.49	130.51	31.95	89.86	-3,038.78	1,831.92	5,091.73	4,984.24	107.48	47.373		
11,800.00	7,730.00	7,809.86	7,676.48	130.37	31.95	89.88	-3,038.80	1,831.94	5,030.79	4,923.52	107.27	46.898		
11,900.00	7,730.00	7,810.88	7,677.50	130.24	31.96	89.89	-3,038.82	1,831.95	4,971.11	4,864.05	107.07	46.430		
12,000.00	7,730.00	7,811.93	7,678.55	130.13	31.96	89.91	-3,038.83	1,831.96	4,912.75	4,805.88	106.87	45.968		
12,100.00	7,730.00	7,813.01	7,679.63	130.02	31.96	89.92	-3,038.85	1,831.97	4,855.75	4,749.06	106.69	45.513		
12,200.00	7,730.00	7,814.11	7,680.74	129.93	31.97	89.94	-3,038.87	1,831.98	4,800.15	4,693.63	106.52	45.065		
12,300.00	7,730.00	7,815.25	7,681.87	129.85	31.97	89.96	-3,038.89	1,831.99	4,746.01	4,639.65	106.36	44.624		
12,400.00	7,730.00	7,816.42	7,683.04	129.77	31.97	89.97	-3,038.91	1,832.00	4,693.37	4,587.16	106.21	44.190		
12,500.00	7,730.00	7,817.62	7,684.24	129.71	31.98	89.99	-3,038.93	1,832.02	4,642.29	4,536.21	106.08	43.762		
12,600.00	7,730.00	7,818.85	7,685.47	129.66	31.98	90.01	-3,038.96	1,832.03	4,592.82	4,486.85	105.97	43.341		
12,700.00	7,730.00	7,820.12	7,686.74	129.63	31.98	90.02	-3,038.98	1,832.04	4,545.01	4,439.13	105.88	42.928		
12,800.00	7,730.00	7,821.43	7,688.05	129.60	31.99	90.04	-3,039.00	1,832.05	4,498.91	4,393.11	105.80	42.521		
12,900.00	7,730.00	7,822.77	7,689.39	129.59	31.99	90.06	-3,039.03	1,832.07	4,454.58	4,348.83	105.76	42.121		
13,000.00	7,730.00	7,824.16	7,690.78	129.59	32.00	90.08	-3,039.06	1,832.08	4,412.08	4,306.34	105.73	41.729		
13,100.00	7,730.00	7,825.59	7,692.21	129.60	32.00	90.10	-3,039.08	1,832.10	4,371.44	4,265.71	105.73	41.344		
13,200.00	7,730.00	7,827.06	7,693.68	129.63	32.01	90.12	-3,039.11	1,832.11	4,332.74	4,226.97	105.76	40.966		
13,300.00	7,730.00	7,828.58	7,695.20	129.66	32.01	90.15	-3,039.14	1,832.13	4,296.01	4,190.19	105.82	40.596		
13,400.00	7,730.00	7,830.15	7,696.76	129.72	32.02	90.17	-3,039.18	1,832.14	4,261.31	4,155.40	105.91	40.234		
13,500.00	7,730.00	7,831.76	7,698.38	129.78	32.02	90.19	-3,039.21	1,832.16	4,228.70	4,122.66	106.04	39.880		
13,600.00	7,730.00	7,833.44	7,700.05	129.86	32.03	90.21	-3,039.25	1,832.18	4,198.21	4,092.02	106.19	39.534		
13,700.00	7,730.00	7,835.16	7,701.78	129.96	32.03	90.24	-3,039.28	1,832.20	4,169.89	4,063.51	106.38	39.198		
13,800.00	7,730.00	7,836.95	7,703.57	130.07	32.04	90.27	-3,039.32	1,832.21	4,143.80	4,037.19	106.61	38.870		
13,900.00	7,730.00	7,838.80	7,705.41	130.19	32.04	90.29	-3,039.36	1,832.23	4,119.97	4,013.10	106.87	38.553		
14,000.00	7,730.00	7,840.71	7,707.33	130.33	32.05	90.32	-3,039.41	1,832.25	4,098.43	3,991.27	107.16	38.246		
14,100.00	7,730.00	7,842.70	7,709.31	130.49	32.05	90.35	-3,039.45	1,832.27	4,079.24	3,971.75	107.49	37.950		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,844.75	7,711.37	130.67	32.06	90.38	-3,039.50	1,832.29	4,062.41	3,954.56	107.85	37.666		
14,300.00	7,730.00	7,846.88	7,713.50	130.86	32.07	90.41	-3,039.55	1,832.32	4,047.99	3,939.74	108.25	37.394		
14,400.00	7,730.00	7,849.10	7,715.71	131.07	32.07	90.44	-3,039.61	1,832.34	4,035.99	3,927.31	108.68	37.135		
14,500.00	7,730.00	7,851.40	7,718.01	131.30	32.08	90.47	-3,039.67	1,832.36	4,026.44	3,917.29	109.15	36.890		
14,600.00	7,730.00	7,853.79	7,720.40	131.55	32.09	90.51	-3,039.73	1,832.39	4,019.35	3,909.71	109.64	36.659		
14,700.00	7,730.00	7,856.28	7,722.88	131.82	32.10	90.54	-3,039.79	1,832.41	4,014.74	3,904.58	110.16	36.444		
14,800.00	7,730.00	7,858.86	7,725.47	132.11	32.10	90.58	-3,039.86	1,832.44	4,012.62	3,901.91	110.71	36.245		
14,835.30	7,730.00	7,859.80	7,726.41	132.21	32.11	90.59	-3,039.89	1,832.45	4,012.46	3,901.55	110.91	36.178		
14,900.00	7,730.00	7,861.56	7,728.17	132.42	32.11	90.62	-3,039.93	1,832.47	4,012.98	3,901.70	111.28	36.063		
15,000.00	7,730.00	7,864.38	7,730.98	132.75	32.12	90.66	-3,040.01	1,832.49	4,015.84	3,903.97	111.87	35.898		
15,100.00	7,730.00	7,867.31	7,733.92	133.10	32.13	90.70	-3,040.09	1,832.52	4,021.18	3,908.70	112.48	35.750		
15,200.00	7,730.00	7,868.37	7,734.98	133.48	32.14	90.71	-3,040.11	1,832.53	4,028.99	3,915.91	113.08	35.628		
15,300.00	7,730.00	7,870.84	7,737.44	133.88	32.14	90.75	-3,040.17	1,832.56	4,039.27	3,925.55	113.72	35.521		
15,400.00	7,730.00	7,873.32	7,739.92	134.31	32.15	90.78	-3,040.24	1,832.58	4,051.98	3,937.63	114.36	35.433		
15,500.00	7,730.00	7,875.81	7,742.41	134.76	32.16	90.82	-3,040.30	1,832.61	4,067.11	3,952.11	115.00	35.366		
15,600.00	7,730.00	7,878.31	7,744.91	135.23	32.17	90.86	-3,040.37	1,832.63	4,084.64	3,968.99	115.65	35.319		
15,700.00	7,730.00	7,880.83	7,747.43	135.73	32.18	90.89	-3,040.44	1,832.66	4,104.52	3,988.22	116.30	35.293		
15,800.00	7,730.00	7,883.36	7,749.96	136.26	32.18	90.93	-3,040.51	1,832.68	4,126.73	4,009.78	116.95	35.287 SF		
15,900.00	7,730.00	7,885.90	7,752.50	136.81	32.19	90.96	-3,040.57	1,832.71	4,151.23	4,033.64	117.59	35.302		
16,000.00	7,730.00	7,888.45	7,755.05	137.39	32.20	91.00	-3,040.64	1,832.73	4,177.98	4,059.75	118.23	35.337		
16,100.00	7,730.00	7,891.02	7,757.61	138.00	32.21	91.04	-3,040.71	1,832.76	4,206.93	4,088.07	118.86	35.394		
16,200.00	7,730.00	7,893.60	7,760.19	138.63	32.22	91.07	-3,040.78	1,832.78	4,238.05	4,118.57	119.48	35.470		
16,300.00	7,730.00	7,896.19	7,762.78	139.30	32.23	91.11	-3,040.85	1,832.80	4,271.28	4,151.19	120.09	35.567		
16,400.00	7,730.00	7,898.80	7,765.39	139.99	32.23	91.15	-3,040.92	1,832.83	4,306.57	4,185.89	120.69	35.684		
16,500.00	7,730.00	7,901.41	7,768.01	140.70	32.24	91.19	-3,040.99	1,832.85	4,343.88	4,222.61	121.27	35.821		
16,600.00	7,730.00	7,904.05	7,770.64	141.45	32.25	91.22	-3,041.06	1,832.88	4,383.15	4,261.32	121.83	35.976		
16,700.00	7,730.00	7,906.69	7,773.28	142.22	32.26	91.26	-3,041.14	1,832.90	4,424.33	4,301.94	122.38	36.151		
16,800.00	7,730.00	7,909.35	7,775.94	143.03	32.27	91.30	-3,041.21	1,832.93	4,467.37	4,344.45	122.92	36.344		
16,900.00	7,730.00	7,912.02	7,778.61	143.86	32.28	91.34	-3,041.28	1,832.95	4,512.21	4,388.77	123.44	36.555		
17,000.00	7,730.00	7,914.71	7,781.30	144.71	32.28	91.38	-3,041.36	1,832.98	4,558.80	4,434.87	123.94	36.784		
17,100.00	7,730.00	7,917.41	7,783.99	145.60	32.29	91.41	-3,041.43	1,833.00	4,607.10	4,482.68	124.42	37.029		
17,200.00	7,730.00	7,920.12	7,786.71	146.51	32.30	91.45	-3,041.51	1,833.02	4,657.03	4,532.15	124.88	37.291		
17,300.00	7,730.00	7,922.85	7,789.43	147.44	32.31	91.49	-3,041.58	1,833.05	4,708.56	4,583.23	125.33	37.570		
17,400.00	7,730.00	7,925.59	7,792.17	148.40	32.32	91.53	-3,041.66	1,833.07	4,761.63	4,635.88	125.76	37.864		
17,500.00	7,730.00	7,928.35	7,794.93	149.39	32.33	91.57	-3,041.73	1,833.10	4,816.20	4,690.03	126.17	38.172		
17,600.00	7,730.00	7,931.12	7,797.70	150.40	32.34	91.61	-3,041.81	1,833.12	4,872.20	4,745.63	126.56	38.496		
17,700.00	7,730.00	7,933.91	7,800.48	151.44	32.35	91.65	-3,041.89	1,833.15	4,929.59	4,802.65	126.94	38.834		
17,800.00	7,730.00	7,936.70	7,803.28	152.50	32.36	91.69	-3,041.97	1,833.17	4,988.32	4,861.02	127.30	39.185		
17,900.00	7,730.00	7,939.52	7,806.09	153.58	32.36	91.73	-3,042.05	1,833.19	5,048.36	4,920.71	127.65	39.549		
18,000.00	7,730.00	7,942.35	7,808.92	154.68	32.37	91.77	-3,042.13	1,833.22	5,109.64	4,981.66	127.98	39.926		
18,100.00	7,730.00	7,945.19	7,811.77	155.80	32.38	91.81	-3,042.21	1,833.24	5,172.13	5,043.83	128.29	40.315		
18,200.00	7,730.00	7,948.05	7,814.62	156.95	32.39	91.85	-3,042.29	1,833.27	5,235.78	5,107.18	128.59	40.716		
18,300.00	7,730.00	7,950.93	7,817.50	158.11	32.40	91.89	-3,042.37	1,833.29	5,300.55	5,171.67	128.88	41.128		
18,400.00	7,730.00	7,953.81	7,820.38	159.30	32.41	91.93	-3,042.45	1,833.32	5,366.40	5,237.25	129.15	41.552		
18,500.00	7,730.00	7,956.72	7,823.29	160.50	32.42	91.97	-3,042.54	1,833.34	5,433.29	5,303.88	129.41	41.985		
18,600.00	7,730.00	7,959.64	7,826.21	161.72	32.43	92.02	-3,042.62	1,833.36	5,501.19	5,371.53	129.66	42.429		
18,700.00	7,730.00	7,961.30	7,827.86	162.96	32.44	92.04	-3,042.67	1,833.37	5,570.05	5,440.16	129.88	42.885		
18,800.00	7,730.00	7,963.95	7,830.51	164.21	32.44	92.08	-3,042.74	1,833.40	5,639.84	5,509.74	130.11	43.348		
18,900.00	7,730.00	7,966.62	7,833.18	165.48	32.45	92.12	-3,042.82	1,833.42	5,710.53	5,580.21	130.32	43.820		
19,000.00	7,730.00	7,969.30	7,835.86	166.76	32.46	92.15	-3,042.90	1,833.44	5,782.09	5,651.57	130.52	44.301		
19,100.00	7,730.00	7,971.99	7,838.55	168.06	32.47	92.19	-3,042.98	1,833.46	5,854.47	5,723.76	130.71	44.790		
19,200.00	7,730.00	7,974.70	7,841.26	169.38	32.48	92.23	-3,043.06	1,833.47	5,927.66	5,796.77	130.89	45.286		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,977.43	7,843.99	170.70	32.49	92.27	-3,043.14	1,833.49	6,001.62	5,870.56	131.07	45.791	
19,400.00	7,730.00	7,980.17	7,846.72	172.04	32.50	92.31	-3,043.22	1,833.51	6,076.33	5,945.10	131.23	46.303	
19,500.00	7,730.00	7,982.92	7,849.48	173.40	32.51	92.35	-3,043.30	1,833.53	6,151.75	6,020.36	131.39	46.822	
19,600.00	7,730.00	7,985.69	7,852.25	174.76	32.52	92.39	-3,043.38	1,833.55	6,227.86	6,096.33	131.54	47.347	
19,700.00	7,730.00	7,988.48	7,855.03	176.14	32.52	92.43	-3,043.46	1,833.57	6,304.64	6,172.96	131.68	47.879	
19,800.00	7,730.00	7,991.28	7,857.83	177.52	32.53	92.47	-3,043.54	1,833.59	6,382.06	6,250.25	131.81	48.417	
19,900.00	7,730.00	7,994.10	7,860.65	178.92	32.54	92.51	-3,043.63	1,833.60	6,460.10	6,328.16	131.94	48.962	
20,000.00	7,730.00	7,996.93	7,863.48	180.33	32.55	92.55	-3,043.71	1,833.62	6,538.74	6,406.67	132.06	49.512	
20,100.00	7,730.00	7,999.78	7,866.32	181.75	32.56	92.59	-3,043.80	1,833.64	6,617.95	6,485.77	132.18	50.067	
20,184.95	7,730.00	8,002.21	7,868.76	182.96	32.57	92.62	-3,043.87	1,833.65	6,685.68	6,553.40	132.28	50.543	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 120-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	109.49	-1,474.65	4,166.97	4,420.47					
100.00	100.00	34.27	34.27	0.13	0.05	109.49	-1,474.65	4,167.04	4,420.31	4,420.12	0.19	N/A		
200.00	199.98	100.17	100.17	0.49	0.16	39.05	-1,474.57	4,167.62	4,419.74	4,419.09	0.65	6,827.770		
300.00	299.84	245.63	245.62	0.86	0.63	39.14	-1,474.09	4,169.05	4,416.56	4,415.07	1.49	2,968.817		
400.00	399.45	511.01	510.65	1.23	1.56	39.57	-1,482.15	4,161.48	4,408.26	4,405.46	2.80	1,575.207		
500.00	498.70	613.29	612.22	1.63	1.95	39.99	-1,491.43	4,153.86	4,394.92	4,391.36	3.56	1,233.150		
600.00	597.47	672.17	670.40	2.05	2.19	40.38	-1,499.08	4,149.09	4,379.73	4,375.54	4.19	1,046.000		
700.00	695.62	773.59	769.92	2.51	2.63	41.03	-1,516.18	4,139.72	4,362.34	4,357.31	5.03	866.498		
800.00	793.06	854.37	848.58	3.00	3.01	41.70	-1,532.51	4,131.31	4,342.69	4,336.85	5.84	743.691		
900.00	889.64	918.56	910.84	3.53	3.33	42.35	-1,546.58	4,124.49	4,321.18	4,314.57	6.61	653.848		
1,000.00	985.27	1,008.82	998.24	4.12	3.80	43.21	-1,567.05	4,115.04	4,297.92	4,290.38	7.55	569.322		
1,100.00	1,079.82	1,164.72	1,149.24	4.75	4.62	44.58	-1,601.51	4,097.32	4,271.71	4,262.83	8.88	481.058		
1,200.00	1,173.17	1,234.41	1,216.82	5.44	4.98	45.48	-1,616.40	4,089.08	4,243.01	4,233.22	9.80	433.119		
1,300.00	1,265.21	1,284.64	1,265.58	6.18	5.25	46.29	-1,627.10	4,083.50	4,213.03	4,202.37	10.65	395.525		
1,400.00	1,355.84	1,362.70	1,341.34	6.99	5.67	47.36	-1,644.01	4,075.21	4,181.78	4,170.08	11.71	357.220		
1,500.00	1,444.94	1,436.19	1,412.38	7.87	6.07	48.48	-1,660.82	4,066.82	4,148.78	4,135.98	12.80	324.202		
1,600.00	1,532.39	1,497.00	1,471.03	8.80	6.41	49.57	-1,675.31	4,059.91	4,114.66	4,100.78	13.88	296.452		
1,700.00	1,618.11	1,565.40	1,536.92	9.81	6.80	50.79	-1,691.95	4,052.15	4,079.40	4,064.32	15.07	270.649		
1,800.00	1,701.97	1,624.59	1,593.91	10.89	7.14	51.99	-1,706.45	4,045.40	4,042.98	4,026.70	16.28	248.363		
1,900.00	1,783.88	1,674.28	1,641.76	12.04	7.42	53.14	-1,718.68	4,039.94	4,005.80	3,988.31	17.50	228.926		
2,000.00	1,863.74	1,756.00	1,720.53	13.26	7.88	54.70	-1,738.60	4,031.19	3,967.81	3,948.83	18.98	209.082		
2,100.00	1,941.45	1,834.45	1,796.28	14.55	8.33	56.29	-1,757.15	4,022.67	3,928.70	3,908.18	20.51	191.526		
2,200.00	2,016.92	1,918.84	1,877.85	15.92	8.80	58.03	-1,776.68	4,013.37	3,888.74	3,866.58	22.16	175.469		
2,292.11	2,084.36	1,999.01	1,955.48	17.25	9.24	59.73	-1,794.53	4,004.26	3,851.09	3,827.32	23.77	162.027		
2,300.00	2,090.06	2,004.79	1,961.07	17.36	9.28	59.81	-1,795.80	4,003.60	3,847.84	3,823.94	23.90	160.975		
2,400.00	2,162.18	2,147.87	2,099.73	18.84	10.07	61.64	-1,826.46	3,986.14	3,807.17	3,781.14	26.03	146.260		
2,500.00	2,234.31	2,213.35	2,163.24	20.33	10.42	62.50	-1,839.77	3,977.35	3,766.66	3,738.90	27.75	135.726		
2,600.00	2,306.43	2,269.82	2,218.06	21.83	10.73	63.23	-1,851.05	3,969.89	3,727.52	3,698.06	29.46	126.533		
2,700.00	2,378.56	2,324.60	2,271.25	23.33	11.03	63.96	-1,862.00	3,962.67	3,689.82	3,658.63	31.19	118.302		
2,800.00	2,450.68	2,371.02	2,316.32	24.84	11.28	64.57	-1,871.32	3,956.59	3,653.67	3,620.76	32.90	111.042		
2,900.00	2,522.81	2,412.58	2,356.70	26.36	11.50	65.12	-1,879.66	3,951.37	3,619.24	3,584.63	34.62	104.555		
3,000.00	2,594.93	2,456.33	2,399.23	27.88	11.74	65.71	-1,888.45	3,946.10	3,586.61	3,550.24	36.36	98.628		
3,100.00	2,667.06	2,503.48	2,445.06	29.40	12.00	66.34	-1,898.05	3,940.52	3,555.73	3,517.58	38.16	93.188		
3,200.00	2,739.18	2,572.94	2,512.52	30.92	12.37	67.28	-1,912.39	3,932.26	3,526.60	3,486.49	40.11	87.929		
3,300.00	2,811.31	2,652.85	2,590.12	32.45	12.81	68.37	-1,928.53	3,922.17	3,498.59	3,456.45	42.14	83.015		
3,400.00	2,883.43	2,699.23	2,635.20	33.98	13.06	69.01	-1,937.79	3,916.42	3,472.35	3,428.35	43.99	78.934		
3,500.00	2,955.56	2,747.05	2,681.73	35.51	13.31	69.66	-1,947.30	3,910.75	3,448.01	3,402.16	45.85	75.194		
3,600.00	3,027.68	2,796.72	2,730.11	37.04	13.57	70.34	-1,957.05	3,905.20	3,425.60	3,377.86	47.74	71.761		
3,700.00	3,099.81	2,855.62	2,787.57	38.57	13.88	71.15	-1,968.42	3,898.98	3,405.07	3,355.39	49.68	68.543		
3,800.00	3,171.93	2,921.20	2,851.56	40.11	14.22	72.05	-1,980.97	3,892.05	3,386.25	3,334.58	51.66	65.543		
3,900.00	3,244.06	2,986.80	2,915.59	41.64	14.56	72.95	-1,993.40	3,885.06	3,369.14	3,315.49	53.65	62.793		
4,000.00	3,316.18	3,037.81	2,965.37	43.18	14.83	73.66	-2,003.08	3,879.55	3,353.87	3,298.31	55.55	60.370		
4,100.00	3,388.31	3,081.62	3,008.04	44.71	15.06	74.27	-2,011.73	3,874.67	3,340.72	3,283.32	57.40	58.197		
4,200.00	3,460.43	3,125.20	3,050.40	46.25	15.30	74.88	-2,020.67	3,869.67	3,329.77	3,270.52	59.24	56.204		
4,300.00	3,532.56	3,168.88	3,092.81	47.79	15.54	75.50	-2,029.86	3,864.62	3,321.03	3,259.95	61.07	54.377		
4,400.00	3,604.68	3,217.87	3,140.32	49.33	15.80	76.19	-2,040.38	3,859.00	3,314.51	3,251.59	62.92	52.676		
4,500.00	3,676.81	3,277.76	3,198.53	50.87	16.13	77.03	-2,052.95	3,852.67	3,310.02	3,245.20	64.83	51.060		
4,600.00	3,748.93	3,331.32	3,250.70	52.41	16.41	77.78	-2,063.92	3,847.54	3,307.53	3,240.87	66.66	49.621		
4,669.62	3,799.14	3,367.54	3,286.01	53.48	16.60	78.28	-2,071.31	3,844.27	3,307.02	3,239.12	67.91	48.700		
4,700.00	3,821.06	3,384.58	3,302.62	53.95	16.69	78.52	-2,074.79	3,842.78	3,307.12	3,238.66	68.46	48.310		
4,800.00	3,893.18	3,447.00	3,363.44	55.49	17.02	79.39	-2,087.61	3,837.07	3,308.67	3,238.37	70.30	47.064		
4,900.00	3,965.31	3,508.07	3,422.87	57.03	17.35	80.24	-2,100.32	3,831.03	3,312.15	3,240.04	72.11	45.933		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,569.62	3,482.68	58.58	17.68	81.11	-2,113.28	3,824.48	3,317.56	3,243.67	73.89	44.900		
5,100.00	4,109.56	3,688.36	3,598.30	60.12	18.30	82.77	-2,137.12	3,811.71	3,324.39	3,248.34	76.05	43.712		
5,200.00	4,181.68	3,798.32	3,705.86	61.66	18.86	84.29	-2,156.98	3,800.44	3,332.11	3,254.02	78.09	42.668		
5,300.00	4,253.81	3,897.53	3,803.36	63.20	19.34	85.64	-2,173.11	3,791.66	3,340.98	3,260.98	80.00	41.760		
5,400.00	4,325.93	4,175.35	4,078.60	64.75	20.49	89.28	-2,205.63	3,773.89	3,349.73	3,266.94	82.79	40.462		
5,500.00	4,398.06	5,500.00	4,179.92	66.29	25.12	90.54	-2,211.38	3,770.24	3,356.10	3,267.30	88.80	37.792		
5,600.00	4,470.18	4,463.50	4,366.27	67.84	21.42	92.84	-2,218.70	3,765.35	3,363.08	3,276.56	86.52	38.871		
5,700.00	4,542.31	4,579.71	4,482.47	69.38	21.76	94.23	-2,220.28	3,763.90	3,370.39	3,282.19	88.20	38.214		
5,800.00	4,614.43	4,677.26	4,580.01	70.92	22.02	95.39	-2,220.38	3,763.14	3,378.33	3,288.55	89.78	37.630		
5,900.00	4,686.56	4,772.63	4,675.38	72.47	22.26	96.51	-2,219.85	3,762.24	3,387.22	3,295.91	91.31	37.096		
6,000.00	4,758.68	4,851.76	4,754.50	74.01	22.46	97.44	-2,218.99	3,761.52	3,397.14	3,304.37	92.77	36.620		
6,100.00	4,830.81	4,926.56	4,829.29	75.56	22.64	98.32	-2,218.12	3,760.71	3,408.39	3,314.20	94.19	36.188		
6,200.00	4,902.93	4,997.74	4,900.46	77.10	22.83	99.15	-2,217.26	3,759.74	3,420.96	3,325.39	95.57	35.797		
6,300.00	4,975.06	5,056.50	4,959.21	78.65	22.98	99.84	-2,216.69	3,758.91	3,435.08	3,338.19	96.89	35.454		
6,400.00	5,047.18	5,115.21	5,017.91	80.19	23.14	100.53	-2,216.33	3,758.12	3,450.82	3,352.65	98.17	35.150		
6,500.00	5,119.31	5,173.86	5,076.56	81.74	23.30	101.21	-2,216.19	3,757.38	3,468.17	3,368.74	99.42	34.882		
6,600.00	5,191.43	5,232.45	5,135.15	83.28	23.46	101.88	-2,216.26	3,756.68	3,487.10	3,386.46	100.64	34.649		
6,700.00	5,263.56	5,294.68	5,197.37	84.83	23.64	102.60	-2,216.55	3,755.99	3,507.57	3,405.74	101.83	34.444		
6,800.00	5,335.68	5,362.01	5,264.70	86.37	23.83	103.36	-2,216.97	3,755.28	3,529.43	3,426.42	103.02	34.261		
6,900.00	5,407.81	5,433.84	5,336.52	87.92	24.05	104.18	-2,217.44	3,754.54	3,552.58	3,448.39	104.18	34.100		
7,000.00	5,479.93	5,517.38	5,420.05	89.47	24.29	105.11	-2,217.88	3,753.64	3,576.85	3,471.50	105.35	33.951		
7,100.00	5,552.06	5,598.55	5,501.22	91.01	24.52	106.02	-2,217.99	3,752.67	3,602.05	3,495.56	106.48	33.827		
7,200.00	5,624.18	5,675.98	5,578.64	92.56	24.75	106.88	-2,217.95	3,751.72	3,628.30	3,520.73	107.57	33.730		
7,300.00	5,696.31	5,749.12	5,651.78	94.10	24.96	107.68	-2,217.80	3,750.85	3,655.58	3,546.97	108.61	33.658		
7,400.00	5,768.43	5,803.68	5,706.33	95.65	25.12	108.27	-2,217.82	3,750.17	3,684.18	3,574.63	109.56	33.628		
7,500.00	5,840.56	5,907.85	5,810.49	97.20	25.42	109.40	-2,217.88	3,748.77	3,713.98	3,603.33	110.65	33.566		
7,600.00	5,912.68	5,997.00	5,899.63	98.74	25.67	110.35	-2,217.00	3,747.45	3,744.04	3,632.40	111.65	33.535		
7,700.00	5,984.81	6,065.58	5,968.19	100.29	25.86	111.07	-2,216.23	3,746.44	3,775.07	3,662.52	112.55	33.541		
7,800.00	6,056.93	6,132.00	6,034.60	101.84	26.04	111.77	-2,215.60	3,745.55	3,807.26	3,693.84	113.42	33.568		
7,900.00	6,129.06	6,208.21	6,110.80	103.38	26.26	112.56	-2,214.88	3,744.59	3,840.44	3,726.14	114.30	33.601		
8,000.00	6,201.18	6,275.18	6,177.77	104.93	26.45	113.25	-2,214.23	3,743.68	3,874.59	3,759.47	115.12	33.658		
8,100.00	6,273.31	6,340.66	6,243.23	106.48	26.64	113.92	-2,213.64	3,742.59	3,909.79	3,793.88	115.90	33.733		
8,200.00	6,345.43	6,405.40	6,307.97	108.02	26.82	114.57	-2,213.16	3,741.45	3,946.04	3,829.37	116.67	33.824		
8,300.00	6,417.56	6,472.47	6,375.03	109.57	27.02	115.24	-2,212.72	3,740.18	3,983.29	3,865.88	117.41	33.926		
8,400.00	6,489.68	6,536.67	6,439.20	111.12	27.21	115.88	-2,212.38	3,738.96	4,021.52	3,903.39	118.13	34.045		
8,500.00	6,561.81	6,601.45	6,503.98	112.66	27.41	116.51	-2,212.24	3,737.97	4,060.74	3,941.92	118.82	34.175		
8,600.00	6,633.93	6,675.79	6,578.32	114.21	27.63	117.23	-2,212.15	3,737.07	4,100.80	3,981.26	119.54	34.303		
8,700.00	6,706.06	6,737.12	6,639.64	115.76	27.82	117.81	-2,212.15	3,736.44	4,141.71	4,021.52	120.19	34.458		
8,800.00	6,778.18	6,797.25	6,699.77	117.30	28.01	118.37	-2,212.34	3,735.84	4,183.59	4,062.77	120.82	34.626		
8,900.00	6,850.31	6,858.30	6,760.82	118.85	28.20	118.94	-2,212.67	3,735.16	4,226.40	4,104.96	121.43	34.804		
9,000.00	6,922.43	6,919.64	6,822.14	120.40	28.39	119.50	-2,213.13	3,734.40	4,270.09	4,148.06	122.03	34.992		
9,100.00	6,994.56	6,979.99	6,882.49	121.95	28.59	120.05	-2,213.69	3,733.55	4,314.66	4,192.05	122.61	35.191		
9,200.00	7,066.68	7,036.89	6,939.38	123.49	28.77	120.56	-2,214.33	3,732.58	4,360.11	4,236.96	123.15	35.405		
9,300.00	7,138.81	7,098.65	7,001.12	125.04	28.97	121.11	-2,215.13	3,731.28	4,406.44	4,282.74	123.70	35.623		
9,392.50	7,205.52	7,159.24	7,061.69	126.47	29.17	121.65	-2,215.89	3,729.76	4,449.94	4,325.74	124.20	35.828		
9,400.00	7,210.94	7,163.34	7,065.78	126.59	29.18	120.81	-2,215.94	3,729.65	4,453.46	4,329.22	124.24	35.846		
9,450.00	7,247.42	7,193.09	7,095.52	127.35	29.28	115.15	-2,216.33	3,728.83	4,474.86	4,350.36	124.50	35.943		
9,500.00	7,284.35	7,223.20	7,125.61	128.10	29.38	109.43	-2,216.76	3,727.98	4,492.65	4,367.88	124.77	36.009		
9,550.00	7,321.43	7,253.55	7,155.95	128.83	29.48	103.76	-2,217.23	3,727.10	4,506.73	4,381.70	125.03	36.044		
9,600.00	7,358.38	7,284.71	7,187.08	129.52	29.59	98.28	-2,217.73	3,726.18	4,517.02	4,391.72	125.30	36.049		
9,650.00	7,394.93	7,315.53	7,217.89	130.16	29.69	93.10	-2,218.26	3,725.24	4,523.48	4,397.92	125.56	36.027		
9,700.00	7,430.79	7,345.82	7,248.16	130.76	29.79	88.35	-2,218.80	3,724.29	4,526.08	4,400.28	125.80	35.979		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,375.33	7,277.65	131.30	29.89	84.09	-2,219.35	3,723.33	4,524.82	4,398.80	126.02	35.906		
9,800.00	7,499.38	7,649.19	7,551.37	131.78	30.74	82.76	-2,218.28	3,716.80	4,519.42	4,392.08	127.34	35.492		
9,850.00	7,531.58	7,676.72	7,578.89	132.21	30.82	79.71	-2,217.52	3,716.60	4,508.83	4,381.33	127.50	35.362		
9,900.00	7,562.06	7,702.72	7,604.88	132.57	30.89	77.25	-2,216.83	3,716.42	4,494.63	4,366.99	127.63	35.215		
9,950.00	7,590.58	7,729.55	7,631.70	132.87	30.97	75.41	-2,216.15	3,716.24	4,476.90	4,349.16	127.74	35.047		
10,000.00	7,616.93	7,761.50	7,663.64	133.11	31.06	74.24	-2,215.33	3,716.09	4,455.74	4,327.91	127.83	34.856		
10,050.00	7,640.90	7,790.49	7,692.62	133.29	31.14	73.66	-2,214.59	3,716.03	4,431.30	4,303.42	127.89	34.650		
10,100.00	7,662.32	7,816.26	7,718.38	133.42	31.21	73.68	-2,213.92	3,716.03	4,403.76	4,275.86	127.90	34.432		
10,150.00	7,681.01	7,834.74	7,736.86	133.50	31.26	74.27	-2,213.43	3,716.06	4,373.32	4,245.47	127.85	34.206		
10,200.00	7,696.85	7,850.22	7,752.33	133.52	31.30	75.54	-2,213.03	3,716.09	4,340.20	4,212.44	127.77	33.969		
10,250.00	7,709.70	7,862.51	7,764.62	133.51	31.34	77.56	-2,212.71	3,716.12	4,304.64	4,176.99	127.65	33.722		
10,300.00	7,719.47	7,871.53	7,773.63	133.46	31.36	80.44	-2,212.47	3,716.14	4,266.87	4,139.36	127.50	33.464		
10,350.00	7,726.09	7,877.18	7,779.28	133.37	31.38	84.30	-2,212.33	3,716.16	4,227.13	4,099.80	127.33	33.197		
10,400.00	7,729.50	7,879.43	7,781.53	133.26	31.38	89.31	-2,212.27	3,716.17	4,185.71	4,058.56	127.14	32.922		
10,427.79	7,730.00	7,879.19	7,781.29	133.18	31.38	92.67	-2,212.28	3,716.17	4,162.04	4,035.02	127.03	32.765		
10,500.00	7,730.00	7,877.21	7,779.31	132.98	31.38	92.61	-2,212.33	3,716.16	4,100.22	3,973.49	126.72	32.355		
10,600.00	7,730.00	7,874.47	7,776.57	132.72	31.37	92.54	-2,212.40	3,716.15	4,015.16	3,888.87	126.28	31.795		
10,700.00	7,730.00	7,871.72	7,773.82	132.47	31.36	92.47	-2,212.47	3,716.14	3,930.80	3,804.98	125.81	31.243		
10,800.00	7,730.00	7,868.97	7,771.08	132.22	31.36	92.39	-2,212.54	3,716.14	3,847.19	3,721.87	125.32	30.698		
10,900.00	7,730.00	7,866.22	7,768.33	131.99	31.35	92.32	-2,212.61	3,716.13	3,764.38	3,639.58	124.80	30.163		
11,000.00	7,730.00	7,863.47	7,765.58	131.77	31.34	92.25	-2,212.68	3,716.12	3,682.42	3,558.17	124.25	29.637		
11,100.00	7,730.00	7,860.72	7,762.82	131.56	31.33	92.17	-2,212.76	3,716.11	3,601.37	3,477.70	123.67	29.121		
11,200.00	7,730.00	7,857.96	7,760.07	131.36	31.33	92.10	-2,212.83	3,716.11	3,521.29	3,398.24	123.05	28.616		
11,300.00	7,730.00	7,855.20	7,757.31	131.17	31.32	92.02	-2,212.90	3,716.10	3,442.25	3,319.85	122.40	28.122		
11,400.00	7,730.00	7,852.44	7,754.55	130.99	31.31	91.95	-2,212.97	3,716.09	3,364.33	3,242.61	121.72	27.641		
11,500.00	7,730.00	7,849.68	7,751.79	130.82	31.30	91.88	-2,213.04	3,716.09	3,287.60	3,166.61	120.99	27.172		
11,600.00	7,730.00	7,846.92	7,749.03	130.66	31.29	91.80	-2,213.12	3,716.08	3,212.14	3,091.92	120.22	26.718		
11,700.00	7,730.00	7,844.16	7,746.27	130.51	31.29	91.73	-2,213.19	3,716.08	3,138.06	3,018.65	119.41	26.279		
11,800.00	7,730.00	7,841.39	7,743.50	130.37	31.28	91.65	-2,213.26	3,716.07	3,065.45	2,946.89	118.56	25.856		
11,900.00	7,730.00	7,838.62	7,740.74	130.24	31.27	91.58	-2,213.33	3,716.06	2,994.41	2,876.76	117.65	25.451		
12,000.00	7,730.00	7,835.85	7,737.97	130.13	31.26	91.50	-2,213.40	3,716.06	2,925.07	2,808.36	116.71	25.064		
12,100.00	7,730.00	7,833.08	7,735.20	130.02	31.26	91.43	-2,213.48	3,716.05	2,857.54	2,741.83	115.71	24.696		
12,200.00	7,730.00	7,832.77	7,734.88	129.93	31.26	91.42	-2,213.48	3,716.06	2,791.95	2,677.26	114.69	24.344		
12,300.00	7,730.00	7,829.50	7,731.61	129.85	31.25	91.33	-2,213.57	3,716.05	2,728.45	2,614.86	113.59	24.019		
12,400.00	7,730.00	7,826.23	7,728.35	129.77	31.24	91.25	-2,213.65	3,716.05	2,667.19	2,554.74	112.46	23.718		
12,500.00	7,730.00	7,822.98	7,725.10	129.71	31.23	91.16	-2,213.74	3,716.04	2,608.33	2,497.05	111.28	23.440		
12,600.00	7,730.00	7,819.73	7,721.85	129.66	31.22	91.07	-2,213.82	3,716.03	2,552.02	2,441.96	110.06	23.187		
12,700.00	7,730.00	7,816.49	7,718.61	129.63	31.21	90.98	-2,213.91	3,716.03	2,498.44	2,389.62	108.82	22.959		
12,800.00	7,730.00	7,813.26	7,715.38	129.60	31.20	90.90	-2,213.99	3,716.03	2,447.78	2,340.22	107.56	22.757		
12,900.00	7,730.00	7,810.03	7,712.16	129.59	31.19	90.81	-2,214.08	3,716.02	2,400.21	2,293.91	106.29	22.581		
13,000.00	7,730.00	7,806.81	7,708.94	129.59	31.18	90.72	-2,214.16	3,716.02	2,355.92	2,250.88	105.04	22.429		
13,100.00	7,730.00	7,803.60	7,705.73	129.60	31.17	90.64	-2,214.25	3,716.02	2,315.11	2,211.30	103.81	22.301		
13,200.00	7,730.00	7,800.40	7,702.53	129.63	31.17	90.55	-2,214.33	3,716.02	2,277.95	2,175.32	102.63	22.195		
13,300.00	7,730.00	7,797.21	7,699.33	129.66	31.16	90.47	-2,214.41	3,716.02	2,244.63	2,143.10	101.53	22.108		
13,400.00	7,730.00	7,794.02	7,696.15	129.72	31.15	90.38	-2,214.49	3,716.02	2,215.32	2,114.80	100.52	22.038		
13,500.00	7,730.00	7,790.84	7,692.97	129.78	31.14	90.29	-2,214.58	3,716.02	2,190.19	2,090.54	99.65	21.979		
13,600.00	7,730.00	7,787.66	7,689.79	129.86	31.13	90.21	-2,214.66	3,716.03	2,169.38	2,070.45	98.93	21.928		
13,700.00	7,730.00	7,784.50	7,686.63	129.96	31.12	90.12	-2,214.74	3,716.03	2,153.01	2,054.62	98.40	21.881		
13,800.00	7,730.00	7,781.34	7,683.47	130.07	31.11	90.04	-2,214.82	3,716.04	2,141.19	2,043.13	98.06	21.835		
13,900.00	7,730.00	7,778.19	7,680.32	130.19	31.10	89.95	-2,214.90	3,716.04	2,133.99	2,036.04	97.95	21.787		
14,000.00	7,730.00	7,775.04	7,677.18	130.33	31.10	89.87	-2,214.99	3,716.05	2,131.46	2,033.39	98.06	21.736		
14,004.04	7,730.00	7,774.91	7,677.05	130.34	31.09	89.87	-2,214.99	3,716.05	2,131.45	2,033.38	98.07	21.733	CC, ES	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,771.90	7,674.04	130.49	31.09	89.79	-2,215.07	3,716.06	2,133.61	2,035.20	98.41	21.682		
14,200.00	7,730.00	7,768.77	7,670.91	130.67	31.08	89.70	-2,215.15	3,716.06	2,140.43	2,041.46	98.97	21.627		
14,300.00	7,730.00	7,765.65	7,667.79	130.86	31.07	89.62	-2,215.23	3,716.07	2,151.89	2,052.15	99.74	21.575		
14,400.00	7,730.00	7,762.53	7,664.67	131.07	31.06	89.53	-2,215.31	3,716.08	2,167.89	2,067.20	100.69	21.530		
14,500.00	7,730.00	7,759.42	7,661.57	131.30	31.05	89.45	-2,215.39	3,716.09	2,188.35	2,086.55	101.80	21.496		
14,600.00	7,730.00	7,756.32	7,658.46	131.55	31.04	89.37	-2,215.47	3,716.11	2,213.14	2,110.10	103.04	21.479 SF		
14,700.00	7,730.00	7,753.23	7,655.37	131.82	31.03	89.28	-2,215.55	3,716.12	2,242.11	2,137.74	104.37	21.482		
14,800.00	7,730.00	7,750.14	7,652.28	132.11	31.03	89.20	-2,215.62	3,716.13	2,275.11	2,169.34	105.77	21.509		
14,900.00	7,730.00	7,747.06	7,649.20	132.42	31.02	89.12	-2,215.70	3,716.14	2,311.97	2,204.75	107.22	21.563		
15,000.00	7,730.00	7,743.99	7,646.13	132.75	31.01	89.04	-2,215.78	3,716.16	2,352.49	2,243.82	108.68	21.646		
15,100.00	7,730.00	7,740.92	7,643.07	133.10	31.00	88.95	-2,215.86	3,716.17	2,396.51	2,286.37	110.14	21.759		
15,200.00	7,730.00	7,737.86	7,640.01	133.48	30.99	88.87	-2,215.94	3,716.19	2,443.82	2,332.25	111.58	21.903		
15,300.00	7,730.00	7,734.80	7,636.95	133.88	30.98	88.79	-2,216.02	3,716.21	2,494.24	2,381.26	112.98	22.077		
15,400.00	7,730.00	7,731.76	7,633.91	134.31	30.97	88.71	-2,216.09	3,716.22	2,547.59	2,433.25	114.34	22.280		
15,500.00	7,730.00	7,728.72	7,630.87	134.76	30.97	88.63	-2,216.17	3,716.24	2,603.69	2,488.04	115.65	22.513		
15,600.00	7,730.00	7,725.69	7,627.84	135.23	30.96	88.54	-2,216.25	3,716.26	2,662.36	2,545.45	116.91	22.773		
15,700.00	7,730.00	7,722.66	7,624.81	135.73	30.95	88.46	-2,216.32	3,716.28	2,723.43	2,605.33	118.10	23.060		
15,800.00	7,730.00	7,719.76	7,621.92	136.26	30.94	88.39	-2,216.40	3,716.30	2,786.75	2,667.52	119.23	23.372		
15,900.00	7,730.00	7,717.00	7,619.15	136.81	30.93	88.31	-2,216.47	3,716.32	2,852.17	2,731.87	120.31	23.707		
16,000.00	7,730.00	7,714.21	7,616.36	137.39	30.93	88.24	-2,216.54	3,716.34	2,919.55	2,798.23	121.32	24.065		
16,100.00	7,730.00	7,711.39	7,613.55	138.00	30.92	88.16	-2,216.61	3,716.36	2,988.76	2,866.48	122.27	24.444		
16,200.00	7,730.00	7,708.56	7,610.72	138.63	30.91	88.08	-2,216.68	3,716.38	3,059.66	2,936.49	123.17	24.842		
16,300.00	7,730.00	7,705.70	7,607.86	139.30	30.90	88.01	-2,216.76	3,716.40	3,132.15	3,008.14	124.01	25.258		
16,400.00	7,730.00	7,702.82	7,604.98	139.99	30.89	87.93	-2,216.83	3,716.42	3,206.12	3,081.33	124.79	25.691		
16,500.00	7,730.00	7,699.92	7,602.08	140.70	30.89	87.85	-2,216.91	3,716.44	3,281.47	3,155.93	125.53	26.141		
16,600.00	7,730.00	7,696.99	7,599.15	141.45	30.88	87.77	-2,216.98	3,716.46	3,358.10	3,231.88	126.22	26.605		
16,700.00	7,730.00	7,694.03	7,596.20	142.22	30.87	87.69	-2,217.06	3,716.48	3,435.93	3,309.06	126.87	27.083		
16,800.00	7,730.00	7,691.05	7,593.22	143.03	30.86	87.61	-2,217.14	3,716.50	3,514.88	3,387.40	127.47	27.573		
16,900.00	7,730.00	7,688.05	7,590.22	143.86	30.85	87.53	-2,217.22	3,716.52	3,594.88	3,466.83	128.04	28.076		
17,000.00	7,730.00	7,685.02	7,587.19	144.71	30.84	87.45	-2,217.30	3,716.54	3,675.85	3,547.28	128.57	28.590		
17,100.00	7,730.00	7,681.97	7,584.13	145.60	30.84	87.37	-2,217.38	3,716.56	3,757.74	3,628.67	129.07	29.114		
17,200.00	7,730.00	7,678.89	7,581.06	146.51	30.83	87.29	-2,217.46	3,716.58	3,840.48	3,710.94	129.54	29.648		
17,300.00	7,730.00	7,675.78	7,577.95	147.44	30.82	87.20	-2,217.55	3,716.61	3,924.03	3,794.05	129.98	30.191		
17,400.00	7,730.00	7,672.64	7,574.82	148.40	30.81	87.12	-2,217.63	3,716.63	4,008.32	3,877.94	130.39	30.742		
17,500.00	7,730.00	7,669.48	7,571.66	149.39	30.80	87.04	-2,217.72	3,716.65	4,093.32	3,962.55	130.77	31.301		
17,600.00	7,730.00	7,666.30	7,568.47	150.40	30.79	86.95	-2,217.80	3,716.67	4,178.99	4,047.85	131.13	31.868		
17,700.00	7,730.00	7,663.08	7,565.26	151.44	30.78	86.86	-2,217.89	3,716.70	4,265.27	4,133.80	131.47	32.442		
17,800.00	7,730.00	7,659.84	7,562.01	152.50	30.77	86.78	-2,217.98	3,716.72	4,352.15	4,220.35	131.80	33.022		
17,900.00	7,730.00	7,656.56	7,558.74	153.58	30.76	86.69	-2,218.07	3,716.74	4,439.57	4,307.47	132.10	33.608		
18,000.00	7,730.00	7,653.26	7,555.44	154.68	30.76	86.60	-2,218.16	3,716.77	4,527.51	4,395.12	132.38	34.200		
18,100.00	7,730.00	7,649.93	7,552.11	155.80	30.75	86.51	-2,218.26	3,716.79	4,615.94	4,483.29	132.65	34.798		
18,200.00	7,730.00	7,646.57	7,548.75	156.95	30.74	86.42	-2,218.35	3,716.82	4,704.83	4,571.92	132.90	35.400		
18,300.00	7,730.00	7,643.18	7,545.36	158.11	30.73	86.33	-2,218.44	3,716.84	4,794.15	4,661.01	133.14	36.007		
18,400.00	7,730.00	7,639.76	7,541.94	159.30	30.72	86.24	-2,218.54	3,716.87	4,883.89	4,750.52	133.37	36.619		
18,500.00	7,730.00	7,636.31	7,538.49	160.50	30.71	86.15	-2,218.64	3,716.89	4,974.02	4,840.43	133.59	37.235		
18,600.00	7,730.00	7,632.82	7,535.01	161.72	30.70	86.05	-2,218.74	3,716.92	5,064.52	4,930.73	133.79	37.855		
18,700.00	7,730.00	7,629.31	7,531.50	162.96	30.69	85.96	-2,218.84	3,716.94	5,155.36	5,021.38	133.98	38.478		
18,800.00	7,730.00	7,625.00	7,528.09	164.21	30.68	85.92	-2,218.88	3,716.95	5,246.54	5,112.37	134.17	39.103		
18,900.00	7,730.00	7,621.00	7,524.68	165.48	30.68	85.92	-2,218.88	3,716.95	5,338.03	5,203.67	134.36	39.729		
19,000.00	7,730.00	7,617.00	7,521.27	166.76	30.68	85.92	-2,218.88	3,716.95	5,429.83	5,295.29	134.54	40.359		
19,100.00	7,730.00	7,613.00	7,517.86	168.06	30.66	85.73	-2,219.09	3,717.01	5,521.90	5,387.22	134.68	41.000		
19,200.00	7,730.00	7,609.00	7,514.45	169.38	30.66	85.67	-2,219.14	3,717.03	5,614.24	5,479.41	134.83	41.638		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,616.75	7,518.94	170.70	30.65	85.62	-2,219.19	3,717.05	5,706.84	5,571.86	134.98	42.278	
19,400.00	7,730.00	7,614.89	7,517.09	172.04	30.65	85.57	-2,219.24	3,717.07	5,799.69	5,664.57	135.13	42.921	
19,500.00	7,730.00	7,613.07	7,515.27	173.40	30.64	85.52	-2,219.29	3,717.08	5,892.77	5,757.51	135.26	43.566	
19,600.00	7,730.00	7,611.29	7,513.48	174.76	30.64	85.48	-2,219.34	3,717.10	5,986.07	5,850.68	135.39	44.213	
19,700.00	7,730.00	7,609.54	7,511.74	176.14	30.63	85.43	-2,219.38	3,717.12	6,079.59	5,944.07	135.52	44.862	
19,800.00	7,730.00	7,607.83	7,510.03	177.52	30.63	85.38	-2,219.42	3,717.14	6,173.31	6,037.67	135.64	45.514	
19,900.00	7,730.00	7,606.15	7,508.35	178.92	30.62	85.34	-2,219.47	3,717.16	6,267.22	6,131.47	135.75	46.167	
20,000.00	7,730.00	7,604.51	7,506.71	180.33	30.62	85.30	-2,219.51	3,717.18	6,361.31	6,225.45	135.86	46.822	
20,100.00	7,730.00	7,602.90	7,505.10	181.75	30.61	85.25	-2,219.55	3,717.20	6,455.59	6,319.62	135.97	47.478	
20,184.95	7,730.00	7,601.55	7,503.75	182.96	30.61	85.22	-2,219.58	3,717.21	6,535.81	6,399.75	136.06	48.038	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	124.26	-3,055.61	4,486.47	5,428.37					
100.00	100.00	49.82	49.82	0.13	0.08	124.26	-3,055.70	4,486.44	5,428.21	5,428.00	0.21	N/A		
200.00	199.98	150.76	150.76	0.49	0.36	53.84	-3,056.29	4,486.20	5,427.31	5,426.47	0.85	6,409.907		
300.00	299.84	208.23	208.23	0.86	0.56	53.91	-3,056.66	4,486.12	5,424.57	5,423.15	1.41	3,839.642		
400.00	399.45	246.71	246.70	1.23	0.70	54.00	-3,057.01	4,486.54	5,420.85	5,418.93	1.92	2,824.183		
500.00	498.70	273.00	272.98	1.63	0.79	54.10	-3,057.30	4,487.10	5,416.26	5,413.86	2.40	2,260.205		
600.00	597.47	317.47	317.42	2.05	0.95	54.25	-3,057.86	4,488.63	5,410.76	5,407.80	2.96	1,830.874		
700.00	695.62	364.00	363.88	2.51	1.11	54.42	-3,058.51	4,491.11	5,404.52	5,400.98	3.54	1,525.469		
800.00	793.06	364.00	363.88	3.00	1.11	54.53	-3,058.51	4,491.11	5,397.52	5,393.52	4.00	1,350.792		
900.00	889.64	406.67	406.43	3.53	1.27	54.74	-3,059.26	4,494.26	5,389.71	5,385.08	4.63	1,163.402		
1,000.00	985.27	455.00	454.51	4.12	1.45	54.98	-3,060.42	4,498.97	5,381.52	5,376.19	5.32	1,010.858		
1,100.00	1,079.82	455.00	454.51	4.75	1.45	55.14	-3,060.42	4,498.97	5,372.37	5,366.48	5.88	913.227		
1,200.00	1,173.17	779.65	775.81	5.44	2.72	56.10	-3,054.52	4,534.91	5,357.85	5,350.16	7.69	696.952		
1,300.00	1,265.21	824.00	819.44	6.18	2.88	56.47	-3,054.27	4,542.64	5,345.26	5,336.75	8.50	628.588		
1,400.00	1,355.84	824.00	819.44	6.99	2.88	56.75	-3,054.27	4,542.64	5,329.16	5,319.95	9.21	578.722		
1,500.00	1,444.94	824.00	819.44	7.87	2.88	57.02	-3,054.27	4,542.64	5,312.99	5,303.03	9.97	533.030		
1,600.00	1,532.39	824.00	819.44	8.80	2.88	57.30	-3,054.27	4,542.64	5,296.79	5,286.01	10.78	491.195		
1,700.00	1,618.11	824.00	819.44	9.81	2.88	57.57	-3,054.27	4,542.64	5,280.56	5,268.90	11.66	452.925		
1,800.00	1,701.97	824.00	819.44	10.89	2.88	57.85	-3,054.27	4,542.64	5,264.33	5,251.73	12.60	417.946		
1,900.00	1,783.88	824.00	819.44	12.04	2.88	58.13	-3,054.27	4,542.64	5,248.12	5,234.52	13.60	386.001		
2,000.00	1,863.74	824.00	819.44	13.26	2.88	58.41	-3,054.27	4,542.64	5,231.94	5,217.28	14.66	356.846		
2,100.00	1,941.45	824.00	819.44	14.55	2.88	58.69	-3,054.27	4,542.64	5,215.82	5,200.02	15.79	330.251		
2,200.00	2,016.92	861.01	855.42	15.92	3.07	59.17	-3,056.28	4,551.06	5,199.44	5,182.29	17.15	303.254		
2,292.11	2,084.36	891.97	885.42	17.25	3.22	59.62	-3,057.92	4,558.53	5,183.96	5,165.51	18.45	280.973		
2,300.00	2,090.06	919.00	911.53	17.36	3.35	59.77	-3,059.31	4,565.38	5,182.77	5,164.10	18.67	277.632		
2,400.00	2,162.18	919.00	911.53	18.84	3.35	59.77	-3,059.31	4,565.38	5,166.40	5,146.43	19.98	258.643		
2,500.00	2,234.31	952.38	943.66	20.33	3.53	59.96	-3,061.11	4,574.25	5,151.58	5,130.12	21.46	240.108		
2,600.00	2,306.43	978.72	968.92	21.83	3.67	60.11	-3,062.68	4,581.56	5,138.24	5,115.32	22.91	224.235		
2,700.00	2,378.56	1,013.00	1,001.65	23.33	3.85	60.30	-3,064.93	4,591.48	5,126.39	5,101.97	24.42	209.914		
2,800.00	2,450.68	1,013.00	1,001.65	24.84	3.85	60.30	-3,064.93	4,591.48	5,116.09	5,090.32	25.77	198.515		
2,900.00	2,522.81	1,056.27	1,042.76	26.36	4.11	60.54	-3,068.22	4,604.58	5,107.10	5,079.75	27.35	186.715		
3,000.00	2,594.93	1,107.00	1,090.64	27.88	4.42	60.82	-3,072.87	4,620.69	5,099.96	5,070.97	28.98	175.959		
3,100.00	2,667.06	1,107.00	1,090.64	29.40	4.42	60.82	-3,072.87	4,620.69	5,093.90	5,063.55	30.35	167.863		
3,200.00	2,739.18	1,156.01	1,136.62	30.92	4.74	61.09	-3,077.68	4,636.97	5,089.38	5,057.39	31.99	159.079		
3,300.00	2,811.31	1,214.00	1,190.73	32.45	5.12	61.40	-3,083.13	4,657.08	5,085.99	5,052.29	33.70	150.921		
3,400.00	2,883.43	1,272.61	1,245.26	33.98	5.53	61.72	-3,088.66	4,677.84	5,083.55	5,048.12	35.43	143.478		
3,500.00	2,955.56	1,359.36	1,325.96	35.51	6.15	62.18	-3,097.17	4,708.52	5,081.82	5,044.46	37.36	136.036		
3,600.00	3,027.68	1,458.60	1,418.16	37.04	6.87	62.71	-3,106.14	4,744.12	5,080.34	5,040.95	39.39	128.980		
3,700.00	3,099.81	1,530.14	1,484.53	38.57	7.40	63.08	-3,112.23	4,770.13	5,079.28	5,038.02	41.26	123.108		
3,761.33	3,144.04	1,564.02	1,515.89	39.51	7.66	63.26	-3,115.20	4,782.59	5,079.09	5,036.75	42.34	119.948		
3,800.00	3,171.93	1,591.00	1,540.83	40.11	7.86	63.40	-3,117.61	4,792.59	5,079.17	5,036.11	43.07	117.932		
3,900.00	3,244.06	1,665.16	1,609.33	41.64	8.43	63.78	-3,124.34	4,820.21	5,079.87	5,034.88	44.99	112.918		
4,000.00	3,316.18	1,804.31	1,738.07	43.18	9.50	64.50	-3,136.32	4,871.64	5,080.42	5,033.03	47.39	107.201		
4,100.00	3,388.31	1,859.40	1,789.04	44.71	9.93	64.79	-3,141.05	4,891.98	5,081.42	5,032.22	49.20	103.278		
4,200.00	3,460.43	1,944.63	1,867.84	46.25	10.59	65.23	-3,148.79	4,923.52	5,083.23	5,031.98	51.24	99.197		
4,300.00	3,532.56	2,158.21	2,066.83	47.79	12.21	66.36	-3,167.17	4,998.87	5,083.71	5,029.47	54.24	93.725		
4,400.00	3,604.68	2,197.85	2,103.78	49.33	12.51	66.57	-3,170.34	5,012.87	5,084.59	5,028.61	55.98	90.833		
4,500.00	3,676.81	2,252.00	2,153.97	50.87	12.93	66.85	-3,174.85	5,032.69	5,086.78	5,028.96	57.82	87.972		
4,600.00	3,748.93	2,364.40	2,258.13	52.41	13.81	67.43	-3,184.32	5,073.87	5,089.66	5,029.53	60.13	84.639		
4,700.00	3,821.06	2,425.13	2,314.41	53.95	14.28	67.75	-3,189.40	5,096.08	5,092.76	5,030.71	62.05	82.077		
4,800.00	3,893.18	4,800.00	2,411.23	55.49	32.72	68.29	-3,198.13	5,134.00	5,096.16	5,018.26	77.90	65.420		
4,900.00	3,965.31	2,588.27	2,465.81	57.03	15.55	68.59	-3,203.14	5,155.29	5,100.10	5,033.87	66.23	77.005		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	2,636.56	2,510.43	58.58	15.93	68.84	-3,207.43	5,173.25	5,105.20	5,037.14	68.06	75.011		
5,100.00	4,109.56	2,702.51	2,571.16	60.12	16.47	69.17	-3,213.37	5,198.27	5,111.23	5,041.19	70.04	72.972		
5,200.00	4,181.68	2,780.08	2,642.41	61.66	17.10	69.56	-3,220.40	5,228.11	5,118.00	5,045.86	72.14	70.950		
5,300.00	4,253.81	2,912.57	2,764.29	63.20	18.18	70.23	-3,232.42	5,278.66	5,125.05	5,050.33	74.72	68.591		
5,400.00	4,325.93	2,977.99	2,824.62	64.75	18.71	70.56	-3,238.33	5,303.28	5,132.11	5,055.40	76.72	66.896		
5,500.00	4,398.06	3,049.96	2,890.89	66.29	19.30	70.92	-3,245.10	5,330.50	5,139.96	5,061.18	78.78	65.245		
5,600.00	4,470.18	3,121.41	2,956.54	67.84	19.89	71.28	-3,251.77	5,357.90	5,148.42	5,067.58	80.84	63.685		
5,700.00	4,542.31	3,180.26	3,010.42	69.38	20.38	71.57	-3,257.31	5,380.91	5,157.73	5,074.94	82.79	62.296		
5,800.00	4,614.43	3,329.08	3,146.70	70.92	21.63	72.29	-3,270.38	5,439.25	5,166.84	5,081.24	85.61	60.356		
5,900.00	4,686.56	3,388.86	3,201.56	72.47	22.12	72.59	-3,275.81	5,462.36	5,176.39	5,088.82	87.58	59.106		
6,000.00	4,758.68	3,511.54	3,314.52	74.01	23.13	73.20	-3,287.48	5,508.77	5,186.23	5,096.09	90.15	57.532		
6,100.00	4,830.81	3,574.00	3,372.06	75.56	23.63	73.51	-3,293.13	5,532.41	5,196.21	5,104.06	92.14	56.393		
6,200.00	4,902.93	3,626.80	3,420.49	77.10	24.08	73.77	-3,297.96	5,552.88	5,207.13	5,113.08	94.05	55.364		
6,300.00	4,975.06	6,300.00	3,503.37	78.65	46.86	74.20	-3,306.66	5,589.05	5,219.13	5,104.85	114.28	45.669		
6,400.00	5,047.18	3,844.09	3,619.33	80.19	25.91	74.81	-3,318.36	5,638.08	5,230.63	5,131.64	98.99	52.838		
6,500.00	5,119.31	3,933.88	3,702.10	81.74	26.64	75.26	-3,327.27	5,671.71	5,242.51	5,141.25	101.27	51.770		
6,600.00	5,191.43	4,065.40	3,823.38	83.28	27.70	75.90	-3,339.69	5,721.05	5,254.43	5,150.47	103.96	50.544		
6,700.00	5,263.56	4,180.38	3,929.55	84.83	28.63	76.47	-3,349.96	5,763.96	5,266.24	5,159.74	106.49	49.451		
6,800.00	5,335.68	4,272.49	4,014.80	86.37	29.37	76.92	-3,357.70	5,797.99	5,277.79	5,168.99	108.80	48.509		
6,900.00	5,407.81	4,329.00	4,067.07	87.92	29.82	77.19	-3,362.81	5,818.86	5,290.20	5,179.45	110.75	47.766		
7,000.00	5,479.93	4,401.70	4,134.20	89.47	30.41	77.55	-3,369.64	5,845.89	5,303.39	5,190.53	112.87	46.989		
7,100.00	5,552.06	4,494.05	4,219.19	91.01	31.17	77.99	-3,378.00	5,881.06	5,317.07	5,201.87	115.19	46.158		
7,200.00	5,624.18	4,553.68	4,273.80	92.56	31.67	78.26	-3,383.10	5,904.44	5,331.19	5,214.01	117.18	45.497		
7,300.00	5,696.31	5,313.03	4,994.52	94.10	36.71	82.32	-3,439.88	6,129.86	5,345.14	5,220.12	125.02	42.754		
7,400.00	5,768.43	6,047.34	5,723.31	95.65	39.17	87.24	-3,456.40	6,207.15	5,345.83	5,216.30	129.53	41.270		
7,500.00	5,840.56	6,144.40	5,820.36	97.20	39.34	87.96	-3,456.06	6,207.37	5,341.50	5,209.99	131.51	40.617		
7,600.00	5,912.68	6,218.57	5,894.53	98.74	39.46	88.51	-3,455.85	6,206.96	5,337.87	5,204.44	133.43	40.004		
7,700.00	5,984.81	6,295.48	5,971.44	100.29	39.59	89.09	-3,455.57	6,206.50	5,335.10	5,199.75	135.35	39.418		
7,800.00	6,056.93	6,370.46	6,046.42	101.84	39.72	89.65	-3,455.22	6,206.12	5,333.18	5,195.93	137.24	38.859		
7,900.00	6,129.06	6,443.62	6,119.57	103.38	39.85	90.19	-3,454.81	6,205.81	5,332.13	5,193.01	139.12	38.327		
7,966.31	6,176.88	6,491.23	6,167.18	104.41	39.94	90.55	-3,454.55	6,205.61	5,331.93	5,191.57	140.36	37.988		
8,000.00	6,201.18	6,517.00	6,192.96	104.93	39.98	90.74	-3,454.41	6,205.50	5,331.98	5,191.00	140.98	37.820		
8,100.00	6,273.31	6,598.98	6,274.93	106.48	40.13	91.35	-3,453.83	6,205.21	5,332.65	5,189.81	142.84	37.333		
8,200.00	6,345.43	6,670.77	6,346.72	108.02	40.27	91.89	-3,453.25	6,204.97	5,334.15	5,189.49	144.66	36.873		
8,300.00	6,417.56	6,741.62	6,417.57	109.57	40.40	92.41	-3,452.66	6,204.82	5,336.56	5,190.10	146.47	36.435		
8,400.00	6,489.68	6,808.46	6,484.41	111.12	40.53	92.91	-3,452.03	6,205.03	5,339.90	5,191.65	148.25	36.020		
8,500.00	6,561.81	6,868.65	6,544.59	112.66	40.66	93.35	-3,451.45	6,205.68	5,344.26	5,194.26	150.00	35.629		
8,600.00	6,633.93	6,938.74	6,614.67	114.21	40.82	93.86	-3,450.77	6,206.94	5,349.60	5,197.85	151.75	35.252		
8,700.00	6,706.06	7,023.20	6,699.10	115.76	41.01	94.47	-3,449.85	6,208.69	5,355.77	5,202.25	153.52	34.887		
8,800.00	6,778.18	7,122.61	6,798.49	117.30	41.23	95.19	-3,448.49	6,210.33	5,362.51	5,207.21	155.29	34.532		
8,900.00	6,850.31	7,204.54	6,880.39	118.85	41.42	95.78	-3,447.07	6,211.48	5,369.79	5,212.79	157.00	34.202		
9,000.00	6,922.43	7,276.75	6,952.59	120.40	41.57	96.30	-3,445.86	6,212.42	5,377.95	5,219.28	158.67	33.895		
9,100.00	6,994.56	7,365.63	7,041.45	121.95	41.77	96.95	-3,444.31	6,213.18	5,386.83	5,226.49	160.34	33.597		
9,200.00	7,066.68	7,394.95	7,070.78	123.49	41.83	97.16	-3,443.95	6,213.30	5,396.81	5,234.96	161.86	33.343		
9,300.00	7,138.81	7,448.00	7,123.82	125.04	41.93	97.55	-3,443.72	6,213.34	5,408.18	5,244.79	163.39	33.100		
9,392.50	7,205.52	7,505.27	7,181.09	126.47	42.04	97.97	-3,443.65	6,213.16	5,419.66	5,254.87	164.79	32.888		
9,400.00	7,210.94	7,514.58	7,190.40	126.59	42.06	97.29	-3,443.62	6,213.12	5,420.57	5,255.65	164.91	32.869		
9,450.00	7,247.42	7,577.68	7,253.50	127.35	42.19	92.55	-3,443.24	6,212.68	5,424.13	5,258.40	165.73	32.728		
9,500.00	7,284.35	7,655.16	7,330.97	128.10	42.34	87.66	-3,442.38	6,211.83	5,423.38	5,256.82	166.57	32.560		
9,550.00	7,321.43	7,751.66	7,427.43	128.83	42.52	82.78	-3,440.22	6,210.60	5,417.99	5,250.58	167.41	32.363		
9,600.00	7,358.38	7,785.68	7,461.44	129.52	42.59	77.48	-3,439.33	6,210.19	5,408.46	5,240.32	168.14	32.167		
9,650.00	7,394.93	7,819.26	7,495.01	130.16	42.66	72.36	-3,438.46	6,209.81	5,394.90	5,226.07	168.83	31.955		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	7,430.79	7,823.00	7,498.75	130.76	42.67	67.28	-3,438.36	6,209.77	5,377.50	5,208.05	169.44	31.737		
9,750.00	7,465.70	7,823.00	7,498.75	131.30	42.67	62.52	-3,438.36	6,209.77	5,356.47	5,186.47	170.00	31.509		
9,800.00	7,499.38	7,856.52	7,532.25	131.78	42.74	58.42	-3,437.69	6,209.55	5,331.64	5,161.06	170.58	31.256		
9,850.00	7,531.58	7,867.44	7,543.17	132.21	42.76	54.53	-3,437.55	6,209.55	5,303.53	5,132.46	171.07	31.002		
9,900.00	7,562.06	7,877.87	7,553.61	132.57	42.79	51.01	-3,437.46	6,209.57	5,272.17	5,100.66	171.50	30.741		
9,950.00	7,590.58	7,887.74	7,563.48	132.87	42.81	47.82	-3,437.40	6,209.62	5,237.75	5,065.86	171.89	30.472		
10,000.00	7,616.93	7,918.00	7,593.74	133.11	42.87	45.12	-3,437.43	6,209.94	5,200.61	5,028.34	172.27	30.189		
10,050.00	7,640.90	7,918.00	7,593.74	133.29	42.87	42.31	-3,437.43	6,209.94	5,160.66	4,988.13	172.53	29.912		
10,100.00	7,662.32	7,918.00	7,593.74	133.42	42.87	39.59	-3,437.43	6,209.94	5,118.41	4,945.68	172.74	29.631		
10,150.00	7,681.01	7,923.47	7,599.21	133.50	42.89	36.85	-3,437.46	6,210.02	5,074.12	4,901.21	172.91	29.345		
10,200.00	7,696.85	7,939.60	7,615.33	133.52	42.93	33.93	-3,437.56	6,210.27	5,028.04	4,854.96	173.08	29.050		
10,250.00	7,709.70	7,952.77	7,628.50	133.51	42.96	30.04	-3,437.64	6,210.50	4,980.49	4,807.28	173.21	28.755		
10,300.00	7,719.47	7,962.87	7,638.60	133.46	42.98	23.53	-3,437.70	6,210.69	4,931.80	4,758.52	173.28	28.461		
10,350.00	7,726.09	7,969.82	7,645.54	133.37	43.00	8.09	-3,437.74	6,210.82	4,882.36	4,709.04	173.32	28.169		
10,400.00	7,729.50	10,400.00	7,731.16	133.26	49.20	-59.20	-3,437.48	6,212.96	4,832.48	4,652.80	179.69	26.894		
10,427.79	7,730.00	10,427.79	7,731.34	133.18	49.28	-97.15	-3,437.47	6,212.96	4,804.74	4,625.00	179.74	26.731		
10,500.00	7,730.00	10,500.00	7,730.49	132.98	49.46	-97.02	-3,437.48	6,212.94	4,732.76	4,552.88	179.88	26.310		
10,600.00	7,730.00	10,600.00	7,729.31	132.72	49.72	-96.84	-3,437.50	6,212.91	4,633.07	4,453.00	180.07	25.729		
10,700.00	7,730.00	10,700.00	7,728.12	132.47	49.97	-96.66	-3,437.51	6,212.87	4,533.40	4,353.15	180.26	25.149		
10,800.00	7,730.00	10,800.00	7,726.94	132.22	50.23	-96.48	-3,437.53	6,212.84	4,433.75	4,253.31	180.44	24.572		
10,900.00	7,730.00	10,900.00	7,725.76	131.99	50.49	-96.30	-3,437.54	6,212.81	4,334.11	4,153.49	180.62	23.996		
11,000.00	7,730.00	11,000.00	7,724.57	131.77	50.74	-96.11	-3,437.55	6,212.77	4,234.49	4,053.69	180.80	23.421		
11,100.00	7,730.00	11,100.00	7,723.39	131.56	51.00	-95.93	-3,437.57	6,212.74	4,134.88	3,953.91	180.97	22.849		
11,200.00	7,730.00	11,200.00	7,722.21	131.36	51.26	-95.75	-3,437.58	6,212.71	4,035.29	3,854.16	181.14	22.278		
11,300.00	7,730.00	11,300.00	7,721.02	131.17	51.51	-95.57	-3,437.59	6,212.67	3,935.73	3,754.43	181.30	21.709		
11,400.00	7,730.00	7,979.73	7,655.46	130.99	43.03	-85.41	-3,437.80	6,211.02	3,836.18	3,663.70	172.48	22.242		
11,500.00	7,730.00	7,980.30	7,656.03	130.82	43.03	-85.49	-3,437.80	6,211.03	3,736.66	3,564.29	172.37	21.679		
11,600.00	7,730.00	7,980.87	7,656.59	130.66	43.03	-85.58	-3,437.81	6,211.04	3,637.16	3,464.91	172.25	21.116		
11,700.00	7,730.00	7,981.43	7,657.15	130.51	43.03	-85.67	-3,437.81	6,211.06	3,537.69	3,365.57	172.12	20.553		
11,800.00	7,730.00	7,981.99	7,657.72	130.37	43.03	-85.76	-3,437.81	6,211.07	3,438.25	3,266.26	171.99	19.991		
11,900.00	7,730.00	7,982.56	7,658.28	130.24	43.03	-85.84	-3,437.82	6,211.08	3,338.84	3,167.00	171.85	19.429		
12,000.00	7,730.00	7,983.12	7,658.85	130.13	43.03	-85.93	-3,437.82	6,211.09	3,239.47	3,067.78	171.70	18.868		
12,100.00	7,730.00	7,983.68	7,659.41	130.02	43.04	-86.02	-3,437.82	6,211.10	3,140.14	2,968.61	171.53	18.306		
12,200.00	7,730.00	7,984.25	7,659.97	129.93	43.04	-86.11	-3,437.83	6,211.11	3,040.86	2,869.50	171.36	17.746		
12,300.00	7,730.00	7,984.81	7,660.53	129.85	43.04	-86.19	-3,437.83	6,211.13	2,941.62	2,770.45	171.17	17.185		
12,400.00	7,730.00	7,985.37	7,661.09	129.77	43.04	-86.28	-3,437.83	6,211.14	2,842.44	2,671.47	170.97	16.626		
12,500.00	7,730.00	7,985.93	7,661.65	129.71	43.04	-86.37	-3,437.84	6,211.15	2,743.31	2,572.56	170.75	16.066		
12,600.00	7,730.00	7,986.49	7,662.21	129.66	43.04	-86.45	-3,437.84	6,211.16	2,644.25	2,473.74	170.51	15.508		
12,700.00	7,730.00	7,987.05	7,662.77	129.63	43.04	-86.54	-3,437.84	6,211.17	2,545.27	2,375.02	170.25	14.950		
12,800.00	7,730.00	7,987.60	7,663.33	129.60	43.05	-86.63	-3,437.85	6,211.19	2,446.36	2,276.40	169.97	14.393		
12,900.00	7,730.00	7,988.16	7,663.88	129.59	43.05	-86.71	-3,437.85	6,211.20	2,347.55	2,177.90	169.65	13.837		
13,000.00	7,730.00	7,988.72	7,664.44	129.59	43.05	-86.80	-3,437.85	6,211.21	2,248.84	2,079.53	169.31	13.282		
13,100.00	7,730.00	7,989.27	7,665.00	129.60	43.05	-86.89	-3,437.86	6,211.22	2,150.26	1,981.33	168.93	12.729		
13,200.00	7,730.00	7,989.83	7,665.55	129.63	43.05	-86.97	-3,437.86	6,211.23	2,051.81	1,883.30	168.51	12.176		
13,300.00	7,730.00	7,990.39	7,666.11	129.66	43.05	-87.06	-3,437.86	6,211.25	1,953.51	1,785.48	168.03	11.626		
13,400.00	7,730.00	7,990.94	7,666.66	129.72	43.05	-87.15	-3,437.87	6,211.26	1,855.40	1,687.90	167.50	11.077		
13,500.00	7,730.00	7,991.49	7,667.22	129.78	43.06	-87.23	-3,437.87	6,211.27	1,757.51	1,590.61	166.90	10.530		
13,600.00	7,730.00	7,992.05	7,667.77	129.86	43.06	-87.32	-3,437.87	6,211.28	1,659.86	1,493.65	166.21	9.986		
13,700.00	7,730.00	7,992.60	7,668.32	129.96	43.06	-87.40	-3,437.88	6,211.29	1,562.51	1,397.09	165.42	9.446		
13,800.00	7,730.00	7,993.15	7,668.87	130.07	43.06	-87.49	-3,437.88	6,211.31	1,465.52	1,301.01	164.51	8.908		
13,900.00	7,730.00	7,993.70	7,669.43	130.19	43.06	-87.58	-3,437.88	6,211.32	1,368.96	1,205.52	163.44	8.376		
14,000.00	7,730.00	7,994.26	7,669.98	130.33	43.06	-87.66	-3,437.88	6,211.33	1,272.93	1,110.75	162.17	7.849		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,994.81	7,670.53	130.49	43.06	-87.75	-3,437.89	6,211.34	1,177.56	1,016.90	160.66	7.329		
14,200.00	7,730.00	7,995.36	7,671.08	130.67	43.06	-87.83	-3,437.89	6,211.35	1,083.03	924.20	158.83	6.819		
14,300.00	7,730.00	7,995.91	7,671.63	130.86	43.07	-87.92	-3,437.89	6,211.37	989.57	832.99	156.57	6.320		
14,400.00	7,730.00	7,996.45	7,672.18	131.07	43.07	-88.00	-3,437.90	6,211.38	897.52	743.76	153.76	5.837		
14,500.00	7,730.00	7,997.00	7,672.72	131.30	43.07	-88.09	-3,437.90	6,211.39	807.37	657.18	150.19	5.376		
14,600.00	7,730.00	7,997.55	7,673.27	131.55	43.07	-88.17	-3,437.90	6,211.40	719.82	574.22	145.59	4.944		
14,700.00	7,730.00	7,998.10	7,673.82	131.82	43.07	-88.26	-3,437.91	6,211.42	635.95	496.33	139.62	4.555		
14,800.00	7,730.00	7,998.64	7,674.36	132.11	43.07	-88.34	-3,437.91	6,211.43	557.43	425.53	131.90	4.226		
14,900.00	7,730.00	7,999.19	7,674.91	132.42	43.07	-88.43	-3,437.91	6,211.44	486.86	364.48	122.37	3.979		
15,000.00	7,730.00	7,999.74	7,675.46	132.75	43.08	-88.51	-3,437.92	6,211.45	428.16	315.79	112.37	3.810		
15,100.00	7,730.00	8,000.28	7,676.00	133.10	43.08	-88.60	-3,437.92	6,211.46	386.81	280.07	106.74	3.624		
15,200.00	7,730.00	8,000.83	7,676.54	133.48	43.08	-88.68	-3,437.92	6,211.48	368.66	256.21	112.46	3.278		
15,218.53	7,730.00	8,000.93	7,676.65	133.55	43.08	-88.70	-3,437.92	6,211.48	368.20	253.30	114.90	3.205 CC		
15,300.00	7,730.00	8,001.37	7,677.09	133.88	43.08	-88.77	-3,437.93	6,211.49	377.10	248.44	128.66	2.931 ES		
15,400.00	7,730.00	8,001.91	7,677.63	134.31	43.08	-88.85	-3,437.93	6,211.50	410.49	264.14	146.35	2.805 SF		
15,500.00	7,730.00	8,002.45	7,678.17	134.76	43.08	-88.94	-3,437.93	6,211.51	463.46	303.66	159.80	2.900		
15,600.00	7,730.00	8,003.00	7,678.72	135.23	43.08	-89.02	-3,437.93	6,211.53	530.17	361.65	168.52	3.146		
15,700.00	7,730.00	8,003.54	7,679.26	135.73	43.09	-89.11	-3,437.94	6,211.54	606.11	432.27	173.84	3.487		
15,800.00	7,730.00	8,004.08	7,679.80	136.26	43.09	-89.19	-3,437.94	6,211.55	688.23	511.19	177.04	3.887		
15,900.00	7,730.00	8,004.62	7,680.34	136.81	43.09	-89.27	-3,437.94	6,211.56	774.57	595.62	178.95	4.328		
16,000.00	7,730.00	8,005.16	7,680.88	137.39	43.09	-89.36	-3,437.95	6,211.58	863.85	683.76	180.09	4.797		
16,100.00	7,730.00	8,005.70	7,681.42	138.00	43.09	-89.44	-3,437.95	6,211.59	955.27	774.51	180.76	5.285		
16,200.00	7,730.00	8,006.24	7,681.95	138.63	43.09	-89.53	-3,437.95	6,211.60	1,048.25	867.11	181.14	5.787		
16,300.00	7,730.00	8,006.78	7,682.49	139.30	43.09	-89.61	-3,437.96	6,211.61	1,142.41	961.08	181.33	6.300		
16,400.00	7,730.00	8,007.31	7,683.03	139.99	43.09	-89.69	-3,437.96	6,211.63	1,237.50	1,056.08	181.42	6.821		
16,500.00	7,730.00	8,007.85	7,683.57	140.70	43.10	-89.78	-3,437.96	6,211.64	1,333.30	1,151.87	181.42	7.349		
16,600.00	7,730.00	8,008.39	7,684.10	141.45	43.10	-89.86	-3,437.97	6,211.65	1,429.67	1,248.29	181.38	7.882		
16,700.00	7,730.00	8,008.92	7,684.64	142.22	43.10	-89.94	-3,437.97	6,211.66	1,526.52	1,345.20	181.31	8.419		
16,800.00	7,730.00	8,009.46	7,685.17	143.03	43.10	-90.03	-3,437.97	6,211.68	1,623.74	1,442.51	181.23	8.960		
16,900.00	7,730.00	8,009.99	7,685.71	143.86	43.10	-90.11	-3,437.97	6,211.69	1,721.28	1,540.15	181.13	9.503		
17,000.00	7,730.00	8,010.53	7,686.24	144.71	43.10	-90.19	-3,437.98	6,211.70	1,819.09	1,638.07	181.03	10.049		
17,100.00	7,730.00	8,011.06	7,686.78	145.60	43.10	-90.28	-3,437.98	6,211.71	1,917.13	1,736.21	180.92	10.596		
17,200.00	7,730.00	8,011.59	7,687.31	146.51	43.10	-90.36	-3,437.98	6,211.73	2,015.36	1,834.54	180.82	11.146		
17,300.00	7,730.00	8,012.13	7,687.84	147.44	43.11	-90.44	-3,437.99	6,211.74	2,113.75	1,933.04	180.72	11.697		
17,400.00	7,730.00	8,012.66	7,688.37	148.40	43.11	-90.52	-3,437.99	6,211.75	2,212.29	2,031.68	180.62	12.249		
17,500.00	7,730.00	8,013.19	7,688.90	149.39	43.11	-90.61	-3,437.99	6,211.76	2,310.95	2,130.44	180.52	12.802		
17,600.00	7,730.00	8,013.72	7,689.44	150.40	43.11	-90.69	-3,438.00	6,211.78	2,409.73	2,229.30	180.43	13.356		
17,700.00	7,730.00	8,014.25	7,689.97	151.44	43.11	-90.77	-3,438.00	6,211.79	2,508.60	2,328.26	180.34	13.911		
17,800.00	7,730.00	8,014.78	7,690.50	152.50	43.11	-90.85	-3,438.00	6,211.80	2,607.56	2,427.30	180.25	14.466		
17,900.00	7,730.00	8,015.31	7,691.02	153.58	43.11	-90.94	-3,438.00	6,211.82	2,706.59	2,526.42	180.17	15.022		
18,000.00	7,730.00	8,015.84	7,691.55	154.68	43.12	-91.02	-3,438.01	6,211.83	2,805.69	2,625.59	180.10	15.579		
18,100.00	7,730.00	8,016.37	7,692.08	155.80	43.12	-91.10	-3,438.01	6,211.84	2,904.85	2,724.83	180.02	16.136		
18,200.00	7,730.00	8,016.89	7,692.61	156.95	43.12	-91.18	-3,438.01	6,211.85	3,004.07	2,824.12	179.96	16.693		
18,300.00	7,730.00	8,017.42	7,693.14	158.11	43.12	-91.26	-3,438.02	6,211.87	3,103.34	2,923.45	179.89	17.251		
18,400.00	7,730.00	8,017.95	7,693.66	159.30	43.12	-91.35	-3,438.02	6,211.88	3,202.66	3,022.83	179.83	17.809		
18,500.00	7,730.00	8,018.47	7,694.19	160.50	43.12	-91.43	-3,438.02	6,211.89	3,302.01	3,122.24	179.77	18.368		
18,600.00	7,730.00	8,019.00	7,694.72	161.72	43.11	-90.42	-3,437.99	6,211.74	3,401.41	3,221.69	179.72	18.926		
18,700.00	7,730.00	8,019.53	7,695.25	162.96	43.11	-90.42	-3,437.99	6,211.74	3,500.84	3,321.17	179.67	19.485		
18,800.00	7,730.00	8,020.06	7,695.78	164.21	43.11	-90.42	-3,437.99	6,211.74	3,600.30	3,420.68	179.62	20.044		
18,900.00	7,730.00	8,020.59	7,696.31	165.48	43.11	-90.42	-3,437.99	6,211.74	3,699.79	3,520.22	179.57	20.604		
19,000.00	7,730.00	8,021.12	7,696.84	166.76	43.11	-90.42	-3,437.99	6,211.74	3,799.31	3,619.78	179.53	21.163		
19,100.00	7,730.00	8,021.65	7,697.37	168.06	43.11	-90.42	-3,437.99	6,211.74	3,898.85	3,719.36	179.48	21.722		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,730.00	8,012.00	7,687.72	169.38	43.11	-90.42	-3,437.99	6,211.74	3,998.41	3,818.97	179.44	22.282	
19,300.00	7,730.00	8,012.00	7,687.72	170.70	43.11	-90.42	-3,437.99	6,211.74	4,098.00	3,918.59	179.41	22.842	
19,400.00	7,730.00	8,012.00	7,687.72	172.04	43.11	-90.42	-3,437.99	6,211.74	4,197.60	4,018.23	179.37	23.402	
19,500.00	7,730.00	8,012.00	7,687.72	173.40	43.11	-90.42	-3,437.99	6,211.74	4,297.22	4,117.89	179.34	23.961	
19,600.00	7,730.00	8,012.00	7,687.72	174.76	43.11	-90.42	-3,437.99	6,211.74	4,396.86	4,217.56	179.31	24.521	
19,700.00	7,730.00	8,012.00	7,687.72	176.14	43.11	-90.42	-3,437.99	6,211.74	4,496.52	4,317.24	179.28	25.081	
19,800.00	7,730.00	8,012.00	7,687.72	177.52	43.11	-90.42	-3,437.99	6,211.74	4,596.19	4,416.94	179.25	25.641	
19,900.00	7,730.00	8,012.00	7,687.72	178.92	43.11	-90.42	-3,437.99	6,211.74	4,695.88	4,516.65	179.22	26.201	
20,000.00	7,730.00	8,012.00	7,687.72	180.33	43.11	-90.42	-3,437.99	6,211.74	4,795.58	4,616.38	179.20	26.761	
20,100.00	7,730.00	8,012.00	7,687.72	181.75	43.11	-90.42	-3,437.99	6,211.74	4,895.29	4,716.11	179.18	27.321	
20,184.95	7,730.00	8,012.00	7,687.72	182.96	43.11	-90.42	-3,437.99	6,211.74	4,980.00	4,800.84	179.16	27.797	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.79	772.51	5,355.16	5,411.31					
100.00	100.00	12.00	12.00	0.13	0.09	81.79	772.51	5,355.16	5,410.60	5,410.37	0.23	N/A		
200.00	199.98	111.98	111.98	0.49	0.99	11.35	772.51	5,355.16	5,408.88	5,407.41	1.48	3,660.155		
300.00	299.84	211.84	211.84	0.86	2.73	11.38	772.51	5,355.16	5,403.75	5,400.17	3.59	1,506.824		
400.00	399.45	311.45	311.45	1.23	4.47	11.43	772.51	5,355.16	5,395.21	5,389.52	5.69	947.703		
500.00	498.70	410.70	410.70	1.63	6.20	11.51	772.51	5,355.16	5,383.26	5,375.47	7.80	690.512		
600.00	597.47	509.47	509.47	2.05	7.92	11.60	772.51	5,355.16	5,367.93	5,358.03	9.89	542.539		
700.00	695.62	607.62	607.62	2.51	9.64	11.72	772.51	5,355.16	5,349.23	5,337.24	11.99	446.301		
800.00	793.06	705.06	705.06	3.00	11.34	11.86	772.51	5,355.16	5,327.19	5,313.12	14.07	378.632		
900.00	889.64	801.64	801.64	3.53	13.02	12.03	772.51	5,355.16	5,301.83	5,285.68	16.14	328.404		
1,000.00	985.27	902.73	897.27	4.12	14.79	12.22	772.51	5,355.16	5,273.19	5,254.89	18.30	288.095		
1,100.00	1,079.82	1,008.18	991.82	4.75	16.63	12.44	772.51	5,355.16	5,241.31	5,220.76	20.55	255.103		
1,200.00	1,173.17	1,085.17	1,085.17	5.44	17.97	12.69	772.51	5,355.16	5,206.22	5,183.93	22.30	233.479		
1,300.00	1,265.21	1,177.21	1,177.21	6.18	19.58	12.97	772.51	5,355.16	5,167.98	5,143.66	24.32	212.487		
1,400.00	1,355.84	1,267.84	1,267.84	6.99	21.16	13.28	772.51	5,355.16	5,126.64	5,100.31	26.33	194.725		
1,500.00	1,444.94	1,356.94	1,356.94	7.87	22.71	13.63	772.51	5,355.16	5,082.24	5,053.92	28.32	179.489		
1,600.00	1,532.39	1,444.39	1,444.39	8.80	24.24	14.01	772.51	5,355.16	5,034.84	5,004.56	30.28	166.262		
1,700.00	1,618.11	1,530.11	1,530.11	9.81	25.74	14.44	772.51	5,355.16	4,984.51	4,952.29	32.23	154.664		
1,800.00	1,701.97	1,613.97	1,613.97	10.89	27.20	14.92	772.51	5,355.16	4,931.32	4,897.17	34.15	144.400		
1,900.00	1,783.88	1,704.12	1,695.88	12.04	28.77	15.45	772.51	5,355.16	4,875.33	4,839.14	36.19	134.709		
2,000.00	1,863.74	1,775.74	1,775.74	13.26	30.02	16.03	772.51	5,355.16	4,816.62	4,778.70	37.92	127.025		
2,100.00	1,941.45	1,853.45	1,853.45	14.55	31.38	16.68	772.51	5,355.16	4,755.27	4,715.50	39.76	119.593		
2,200.00	2,016.92	1,928.92	1,928.92	15.92	32.70	17.39	772.51	5,355.16	4,691.35	4,649.77	41.58	112.837		
2,292.11	2,084.36	2,003.64	1,996.36	17.25	34.00	18.12	772.51	5,355.16	4,630.28	4,586.93	43.35	106.815		
2,300.00	2,090.06	2,002.06	2,002.06	17.36	33.97	18.14	772.51	5,355.16	4,624.96	4,581.60	43.37	106.652		
2,400.00	2,162.18	2,074.18	2,074.18	18.84	35.23	18.41	772.51	5,355.16	4,557.58	4,512.44	45.14	100.977		
2,500.00	2,234.31	2,146.31	2,146.31	20.33	36.49	18.68	772.51	5,355.16	4,490.25	4,443.34	46.92	95.704		
2,600.00	2,306.43	2,218.43	2,218.43	21.83	37.75	18.96	772.51	5,355.16	4,422.99	4,374.27	48.71	90.795		
2,700.00	2,378.56	2,309.44	2,290.56	23.33	39.34	19.25	772.51	5,355.16	4,355.79	4,304.93	50.85	85.655		
2,800.00	2,450.68	2,362.68	2,362.68	24.84	40.27	19.54	772.51	5,355.16	4,288.65	4,236.31	52.34	81.932		
2,900.00	2,522.81	2,434.81	2,434.81	26.36	41.53	19.85	772.51	5,355.16	4,221.58	4,167.40	54.18	77.921		
3,000.00	2,594.93	2,506.93	2,506.93	27.88	42.79	20.16	772.51	5,355.16	4,154.59	4,098.56	56.02	74.157		
3,100.00	2,667.06	2,579.06	2,579.06	29.40	44.04	20.49	772.51	5,355.16	4,087.66	4,029.78	57.88	70.618		
3,200.00	2,739.18	2,651.18	2,651.18	30.92	45.30	20.82	772.51	5,355.16	4,020.82	3,961.07	59.76	67.286		
3,300.00	2,811.31	2,723.31	2,723.31	32.45	46.56	21.17	772.51	5,355.16	3,954.07	3,892.42	61.64	64.144		
3,400.00	2,883.43	2,804.57	2,795.43	33.98	47.98	21.53	772.51	5,355.16	3,887.40	3,823.69	63.70	61.023		
3,500.00	2,955.56	2,867.56	2,867.56	35.51	49.08	21.89	772.51	5,355.16	3,820.82	3,755.36	65.46	58.369		
3,600.00	3,027.68	2,939.68	2,939.68	37.04	50.34	22.27	772.51	5,355.16	3,754.34	3,686.95	67.39	55.710		
3,700.00	3,099.81	3,011.81	3,011.81	38.57	51.60	22.67	772.51	5,355.16	3,687.96	3,618.63	69.34	53.188		
3,800.00	3,171.93	3,083.93	3,083.93	40.11	52.86	23.07	772.51	5,355.16	3,621.70	3,550.39	71.30	50.793		
3,900.00	3,244.06	3,156.06	3,156.06	41.64	54.11	23.49	772.51	5,355.16	3,555.54	3,482.26	73.28	48.517		
4,000.00	3,316.18	3,228.18	3,228.18	43.18	55.37	23.93	772.51	5,355.16	3,489.51	3,414.22	75.29	46.350		
4,100.00	3,388.31	3,300.31	3,300.31	44.71	56.63	24.38	772.51	5,355.16	3,423.60	3,346.29	77.31	44.286		
4,200.00	3,460.43	3,372.43	3,372.43	46.25	57.89	24.85	772.51	5,355.16	3,357.83	3,278.48	79.35	42.317		
4,300.00	3,532.56	3,444.56	3,444.56	47.79	59.15	25.33	772.51	5,355.16	3,292.20	3,210.79	81.41	40.438		
4,400.00	3,604.68	3,516.68	3,516.68	49.33	60.41	25.83	772.51	5,355.16	3,226.73	3,143.23	83.50	38.642		
4,500.00	3,676.81	3,588.81	3,588.81	50.87	61.67	26.35	772.51	5,355.16	3,161.42	3,075.80	85.62	36.925		
4,600.00	3,748.93	3,660.93	3,660.93	52.41	62.93	26.89	772.51	5,355.16	3,096.28	3,008.52	87.76	35.282		
4,700.00	3,821.06	3,733.06	3,733.06	53.95	64.19	27.45	772.51	5,355.16	3,031.32	2,941.39	89.93	33.708		
4,800.00	3,893.18	3,805.18	3,805.18	55.49	65.44	28.04	772.51	5,355.16	2,966.55	2,874.42	92.13	32.199		
4,900.00	3,965.31	3,877.31	3,877.31	57.03	66.70	28.64	772.51	5,355.16	2,902.00	2,807.63	94.36	30.753		
5,000.00	4,037.43	3,949.43	3,949.43	58.58	67.96	29.28	772.51	5,355.16	2,837.67	2,741.03	96.63	29.365		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,021.56	4,021.56	60.12	69.22	29.93	772.51	5,355.16	2,773.57	2,674.63	98.94	28.032		
5,200.00	4,181.68	4,106.32	4,093.68	61.66	70.70	30.62	772.51	5,355.16	2,709.73	2,608.22	101.51	26.694		
5,300.00	4,253.81	4,165.81	4,165.81	63.20	71.74	31.33	772.51	5,355.16	2,646.16	2,542.48	103.68	25.522		
5,400.00	4,325.93	4,237.93	4,237.93	64.75	73.00	32.07	772.51	5,355.16	2,582.89	2,476.77	106.12	24.340		
5,500.00	4,398.06	4,310.06	4,310.06	66.29	74.26	32.85	772.51	5,355.16	2,519.93	2,411.32	108.61	23.203		
5,600.00	4,470.18	4,382.18	4,382.18	67.84	75.51	33.65	772.51	5,355.16	2,457.31	2,346.16	111.15	22.109		
5,700.00	4,542.31	4,454.31	4,454.31	69.38	76.77	34.50	772.51	5,355.16	2,395.05	2,281.31	113.74	21.056		
5,800.00	4,614.43	4,526.43	4,526.43	70.92	78.03	35.38	772.51	5,355.16	2,333.20	2,216.79	116.40	20.044		
5,900.00	4,686.56	4,601.44	4,598.56	72.47	79.34	36.30	772.51	5,355.16	2,271.76	2,152.59	119.18	19.062		
6,000.00	4,758.68	4,670.68	4,670.68	74.01	80.55	37.27	772.51	5,355.16	2,210.80	2,088.87	121.92	18.132		
6,100.00	4,830.81	4,742.81	4,742.81	75.56	81.81	38.28	772.51	5,355.16	2,150.33	2,025.54	124.80	17.231		
6,200.00	4,902.93	4,814.93	4,814.93	77.10	83.07	39.34	772.51	5,355.16	2,090.41	1,962.67	127.75	16.363		
6,300.00	4,975.06	4,887.06	4,887.06	78.65	84.33	40.44	772.51	5,355.16	2,031.09	1,900.30	130.79	15.530		
6,400.00	5,047.18	4,959.18	4,959.18	80.19	85.59	41.60	772.51	5,355.16	1,972.42	1,838.50	133.92	14.728		
6,500.00	5,119.31	5,031.31	5,031.31	81.74	86.84	42.82	772.51	5,355.16	1,914.45	1,777.30	137.15	13.959		
6,600.00	5,191.43	5,103.43	5,103.43	83.28	88.10	44.09	772.51	5,355.16	1,857.26	1,716.77	140.48	13.220		
6,700.00	5,263.56	5,175.56	5,175.56	84.83	89.36	45.42	772.51	5,355.16	1,800.91	1,656.98	143.93	12.512		
6,800.00	5,335.68	5,247.68	5,247.68	86.37	90.62	46.82	772.51	5,355.16	1,745.50	1,598.00	147.49	11.834		
6,900.00	5,407.81	5,319.81	5,319.81	87.92	91.88	48.29	772.51	5,355.16	1,691.10	1,539.93	151.18	11.186		
7,000.00	5,479.93	5,408.07	5,391.93	89.47	93.42	49.82	772.51	5,355.16	1,637.83	1,482.56	155.27	10.548		
7,100.00	5,552.06	5,464.06	5,464.06	91.01	94.40	51.43	772.51	5,355.16	1,585.80	1,426.86	158.94	9.978		
7,200.00	5,624.18	5,536.18	5,536.18	92.56	95.66	53.11	772.51	5,355.16	1,535.13	1,372.11	163.02	9.417		
7,300.00	5,696.31	5,608.31	5,608.31	94.10	96.91	54.87	772.51	5,355.16	1,485.96	1,318.73	167.23	8.886		
7,400.00	5,768.43	5,680.43	5,680.43	95.65	98.17	56.71	772.51	5,355.16	1,438.45	1,266.87	171.58	8.383		
7,500.00	5,840.56	5,752.56	5,752.56	97.20	99.43	58.63	772.51	5,355.16	1,392.76	1,216.70	176.06	7.911		
7,600.00	5,912.68	5,824.68	5,824.68	98.74	100.69	60.64	772.51	5,355.16	1,349.09	1,168.42	180.66	7.467		
7,700.00	5,984.81	5,903.19	5,896.81	100.29	102.06	62.72	772.51	5,355.16	1,307.62	1,122.14	185.48	7.050		
7,800.00	6,056.93	5,968.93	5,968.93	101.84	103.21	64.89	772.51	5,355.16	1,268.59	1,078.43	190.16	6.671		
7,900.00	6,129.06	6,041.06	6,041.06	103.38	104.47	67.13	772.51	5,355.16	1,232.21	1,037.21	195.00	6.319		
8,000.00	6,201.18	6,113.18	6,113.18	104.93	105.73	69.45	772.51	5,355.16	1,198.74	998.87	199.87	5.998		
8,100.00	6,273.31	6,185.31	6,185.31	106.48	106.99	71.85	772.51	5,355.16	1,168.42	963.71	204.71	5.708		
8,200.00	6,345.43	6,257.43	6,257.43	108.02	108.24	74.31	772.51	5,355.16	1,141.50	932.02	209.48	5.449		
8,300.00	6,417.56	6,329.56	6,329.56	109.57	109.50	76.84	772.51	5,355.16	1,118.23	904.12	214.11	5.223		
8,400.00	6,489.68	6,401.68	6,401.68	111.12	110.76	79.41	772.51	5,355.16	1,098.84	880.30	218.54	5.028		
8,500.00	6,561.81	6,473.81	6,473.81	112.66	112.02	82.03	772.51	5,355.16	1,083.54	860.82	222.72	4.865		
8,600.00	6,633.93	6,545.93	6,545.93	114.21	113.28	84.69	772.51	5,355.16	1,072.50	845.94	226.57	4.734		
8,700.00	6,706.06	6,618.06	6,618.06	115.76	114.54	87.37	772.51	5,355.16	1,065.86	835.82	230.04	4.633		
8,797.97	6,776.72	6,688.72	6,688.72	117.27	115.77	90.00	772.51	5,355.16	1,063.70	830.66	233.04	4.564		
8,800.00	6,778.18	6,709.82	6,690.18	117.30	116.14	90.05	772.51	5,355.16	1,063.70	830.26	233.44	4.557		
8,900.00	6,850.31	6,762.31	6,762.31	118.85	117.06	92.74	772.51	5,355.16	1,066.05	830.34	235.71	4.523		
9,000.00	6,922.43	6,834.43	6,834.43	120.40	118.31	95.42	772.51	5,355.16	1,072.87	835.00	237.87	4.510		
9,100.00	6,994.56	6,906.56	6,906.56	121.95	119.57	98.07	772.51	5,355.16	1,084.08	844.50	239.58	4.525		
9,200.00	7,066.68	6,978.68	6,978.68	123.49	120.83	100.69	772.51	5,355.16	1,099.55	858.68	240.87	4.565		
9,300.00	7,138.81	7,050.81	7,050.81	125.04	122.09	103.27	772.51	5,355.16	1,119.10	877.32	241.78	4.629		
9,392.50	7,205.52	7,117.52	7,117.52	126.47	123.26	105.60	772.51	5,355.16	1,140.64	898.32	242.32	4.707		
9,400.00	7,210.94	7,122.94	7,122.94	126.59	123.35	105.02	772.51	5,355.16	1,142.48	900.13	242.35	4.714		
9,450.00	7,247.42	7,159.42	7,159.42	127.35	123.99	101.00	772.51	5,355.16	1,152.82	910.29	242.53	4.753		
9,500.00	7,284.35	7,203.65	7,196.35	128.10	124.76	96.74	772.51	5,355.16	1,159.80	917.04	242.76	4.778		
9,550.00	7,321.43	7,233.43	7,233.43	128.83	125.28	92.42	772.51	5,355.16	1,163.40	920.75	242.65	4.795		
9,600.00	7,358.38	7,270.38	7,270.38	129.52	125.92	88.18	772.51	5,355.16	1,163.62	921.05	242.57	4.797		
9,650.00	7,394.93	7,306.93	7,306.93	130.16	126.56	84.18	772.51	5,355.16	1,160.49	918.11	242.38	4.788		
9,700.00	7,430.79	7,342.79	7,342.79	130.76	127.19	80.56	772.51	5,355.16	1,154.06	911.98	242.07	4.767		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,377.70	7,377.70	131.30	127.80	77.40	772.51	5,355.16	1,144.39	902.76	241.63	4.736		
9,800.00	7,499.38	7,411.38	7,411.38	131.78	128.38	74.77	772.51	5,355.16	1,131.59	890.54	241.05	4.694		
9,850.00	7,531.58	7,443.58	7,443.58	132.21	128.95	72.70	772.51	5,355.16	1,115.75	875.45	240.30	4.643		
9,900.00	7,562.06	7,474.06	7,474.06	132.57	129.48	71.22	772.51	5,355.16	1,097.03	857.64	239.39	4.583		
9,950.00	7,590.58	7,502.58	7,502.58	132.87	129.98	70.33	772.51	5,355.16	1,075.56	837.27	238.29	4.514		
10,000.00	7,616.93	7,528.93	7,528.93	133.11	130.44	70.02	772.51	5,355.16	1,051.52	814.52	237.00	4.437		
10,050.00	7,640.90	7,552.90	7,552.90	133.29	130.85	70.30	772.51	5,355.16	1,025.08	789.58	235.51	4.353		
10,100.00	7,662.32	7,574.32	7,574.32	133.42	131.23	71.15	772.51	5,355.16	996.46	762.66	233.80	4.262		
10,150.00	7,681.01	7,606.99	7,593.01	133.50	131.80	72.58	772.51	5,355.16	965.85	733.74	232.11	4.161		
10,200.00	7,696.85	7,608.85	7,608.85	133.52	131.83	74.57	772.51	5,355.16	933.47	703.78	229.69	4.064		
10,250.00	7,709.70	7,621.70	7,621.70	133.51	132.06	77.10	772.51	5,355.16	899.55	672.26	227.28	3.958		
10,300.00	7,719.47	7,631.47	7,631.47	133.46	132.23	80.16	772.51	5,355.16	864.31	639.68	224.63	3.848		
10,350.00	7,726.09	7,638.09	7,638.09	133.37	132.34	83.70	772.51	5,355.16	827.98	606.25	221.73	3.734		
10,400.00	7,729.50	7,641.50	7,641.50	133.26	132.40	87.65	772.51	5,355.16	790.78	572.20	218.58	3.618		
10,427.79	7,730.00	7,642.00	7,642.00	133.18	132.41	90.00	772.51	5,355.16	769.81	553.09	216.72	3.552		
10,500.00	7,730.00	7,642.00	7,642.00	132.98	132.41	90.00	772.51	5,355.16	716.65	505.28	211.37	3.391		
10,600.00	7,730.00	7,642.00	7,642.00	132.72	132.41	90.00	772.51	5,355.16	649.14	446.68	202.47	3.206		
10,700.00	7,730.00	7,642.00	7,642.00	132.47	132.41	90.00	772.51	5,355.16	590.92	398.86	192.06	3.077		
10,800.00	7,730.00	7,642.00	7,642.00	132.22	132.41	90.00	772.51	5,355.16	544.96	363.17	181.79	2.998		
10,900.00	7,730.00	7,642.00	7,642.00	131.99	132.41	90.00	772.51	5,355.16	514.56	338.11	176.45	2.916		
11,000.00	7,730.00	7,642.00	7,642.00	131.77	132.41	90.00	772.51	5,355.16	502.56	320.97	181.59	2.768		
11,011.02	7,730.00	7,642.00	7,642.00	131.74	132.41	90.00	772.51	5,355.16	502.44	319.66	182.78	2.749 CC		
11,100.00	7,730.00	7,642.00	7,642.00	131.56	132.41	90.00	772.51	5,355.16	510.26	315.38	194.88	2.618 ES		
11,200.00	7,730.00	7,642.00	7,642.00	131.36	132.41	90.00	772.51	5,355.16	536.81	326.94	209.87	2.558 SF		
11,300.00	7,730.00	7,642.00	7,642.00	131.17	132.41	90.00	772.51	5,355.16	579.62	356.75	222.87	2.601		
11,400.00	7,730.00	7,642.00	7,642.00	130.99	132.41	90.00	772.51	5,355.16	635.41	402.51	232.90	2.728		
11,500.00	7,730.00	7,642.00	7,642.00	130.82	132.41	90.00	772.51	5,355.16	701.10	460.88	240.22	2.919		
11,600.00	7,730.00	7,642.00	7,642.00	130.66	132.41	90.00	772.51	5,355.16	774.17	528.73	245.44	3.154		
11,700.00	7,730.00	7,642.00	7,642.00	130.51	132.41	90.00	772.51	5,355.16	852.72	603.58	249.14	3.423		
11,800.00	7,730.00	7,642.00	7,642.00	130.37	132.41	90.00	772.51	5,355.16	935.38	683.60	251.78	3.715		
11,900.00	7,730.00	7,642.00	7,642.00	130.24	132.41	90.00	772.51	5,355.16	1,021.14	767.47	253.68	4.025		
12,000.00	7,730.00	7,642.00	7,642.00	130.13	132.41	90.00	772.51	5,355.16	1,109.29	854.24	255.05	4.349		
12,100.00	7,730.00	7,642.00	7,642.00	130.02	132.41	90.00	772.51	5,355.16	1,199.30	943.24	256.06	4.684		
12,200.00	7,730.00	7,642.00	7,642.00	129.93	132.41	90.00	772.51	5,355.16	1,290.78	1,033.98	256.80	5.026		
12,300.00	7,730.00	7,642.00	7,642.00	129.85	132.41	90.00	772.51	5,355.16	1,383.44	1,126.09	257.36	5.376		
12,400.00	7,730.00	7,642.00	7,642.00	129.77	132.41	90.00	772.51	5,355.16	1,477.06	1,219.29	257.77	5.730		
12,500.00	7,730.00	7,642.00	7,642.00	129.71	132.41	90.00	772.51	5,355.16	1,571.46	1,313.39	258.08	6.089		
12,600.00	7,730.00	7,642.00	7,642.00	129.66	132.41	90.00	772.51	5,355.16	1,666.52	1,408.21	258.31	6.452		
12,700.00	7,730.00	7,642.00	7,642.00	129.63	132.41	90.00	772.51	5,355.16	1,762.13	1,503.65	258.48	6.817		
12,800.00	7,730.00	7,642.00	7,642.00	129.60	132.41	90.00	772.51	5,355.16	1,858.19	1,599.59	258.61	7.185		
12,900.00	7,730.00	7,642.00	7,642.00	129.59	132.41	90.00	772.51	5,355.16	1,954.66	1,695.96	258.70	7.556		
13,000.00	7,730.00	7,642.00	7,642.00	129.59	132.41	90.00	772.51	5,355.16	2,051.46	1,792.69	258.77	7.928		
13,100.00	7,730.00	7,642.00	7,642.00	129.60	132.41	90.00	772.51	5,355.16	2,148.55	1,889.74	258.81	8.302		
13,200.00	7,730.00	7,642.00	7,642.00	129.63	132.41	90.00	772.51	5,355.16	2,245.90	1,987.06	258.84	8.677		
13,300.00	7,730.00	7,642.00	7,642.00	129.66	132.41	90.00	772.51	5,355.16	2,343.47	2,084.61	258.86	9.053		
13,400.00	7,730.00	7,642.00	7,642.00	129.72	132.41	90.00	772.51	5,355.16	2,441.24	2,182.38	258.87	9.431		
13,500.00	7,730.00	7,642.00	7,642.00	129.78	132.41	90.00	772.51	5,355.16	2,539.18	2,280.32	258.86	9.809		
13,600.00	7,730.00	7,642.00	7,642.00	129.86	132.41	90.00	772.51	5,355.16	2,637.28	2,378.42	258.86	10.188		
13,700.00	7,730.00	7,642.00	7,642.00	129.96	132.41	90.00	772.51	5,355.16	2,735.52	2,476.67	258.85	10.568		
13,800.00	7,730.00	7,642.00	7,642.00	130.07	132.41	90.00	772.51	5,355.16	2,833.87	2,575.04	258.83	10.949		
13,900.00	7,730.00	7,642.00	7,642.00	130.19	132.41	90.00	772.51	5,355.16	2,932.34	2,673.53	258.81	11.330		
14,000.00	7,730.00	7,642.00	7,642.00	130.33	132.41	90.00	772.51	5,355.16	3,030.91	2,772.12	258.79	11.712		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,642.00	7,642.00	130.49	132.41	90.00	772.51	5,355.16	3,129.57	2,870.80	258.77	12.094		
14,200.00	7,730.00	7,642.00	7,642.00	130.67	132.41	90.00	772.51	5,355.16	3,228.32	2,969.56	258.75	12.477		
14,300.00	7,730.00	7,642.00	7,642.00	130.86	132.41	90.00	772.51	5,355.16	3,327.13	3,068.40	258.73	12.860		
14,400.00	7,730.00	7,642.00	7,642.00	131.07	132.41	90.00	772.51	5,355.16	3,426.02	3,167.31	258.71	13.243		
14,500.00	7,730.00	7,642.00	7,642.00	131.30	132.41	90.00	772.51	5,355.16	3,524.97	3,266.29	258.68	13.627		
14,600.00	7,730.00	7,642.00	7,642.00	131.55	132.41	90.00	772.51	5,355.16	3,623.98	3,365.32	258.66	14.011		
14,700.00	7,730.00	7,642.00	7,642.00	131.82	132.41	90.00	772.51	5,355.16	3,723.04	3,464.40	258.64	14.395		
14,800.00	7,730.00	7,642.00	7,642.00	132.11	132.41	90.00	772.51	5,355.16	3,822.15	3,563.53	258.61	14.779		
14,900.00	7,730.00	7,642.00	7,642.00	132.42	132.41	90.00	772.51	5,355.16	3,921.30	3,662.71	258.59	15.164		
15,000.00	7,730.00	7,642.00	7,642.00	132.75	132.41	90.00	772.51	5,355.16	4,020.50	3,761.93	258.57	15.549		
15,100.00	7,730.00	7,642.00	7,642.00	133.10	132.41	90.00	772.51	5,355.16	4,119.73	3,861.18	258.55	15.934		
15,200.00	7,730.00	7,642.00	7,642.00	133.48	132.41	90.00	772.51	5,355.16	4,219.00	3,960.47	258.53	16.319		
15,300.00	7,730.00	7,642.00	7,642.00	133.88	132.41	90.00	772.51	5,355.16	4,318.31	4,059.80	258.51	16.705		
15,400.00	7,730.00	7,642.00	7,642.00	134.31	132.41	90.00	772.51	5,355.16	4,417.64	4,159.16	258.49	17.090		
15,500.00	7,730.00	7,642.00	7,642.00	134.76	132.41	90.00	772.51	5,355.16	4,517.01	4,258.54	258.47	17.476		
15,600.00	7,730.00	7,642.00	7,642.00	135.23	132.41	90.00	772.51	5,355.16	4,616.40	4,357.95	258.45	17.862		
15,700.00	7,730.00	7,642.00	7,642.00	135.73	132.41	90.00	772.51	5,355.16	4,715.82	4,457.39	258.43	18.248		
15,800.00	7,730.00	7,642.00	7,642.00	136.26	132.41	90.00	772.51	5,355.16	4,815.26	4,556.85	258.42	18.634		
15,900.00	7,730.00	7,642.00	7,642.00	136.81	132.41	90.00	772.51	5,355.16	4,914.73	4,656.33	258.40	19.020		
16,000.00	7,730.00	7,642.00	7,642.00	137.39	132.41	90.00	772.51	5,355.16	5,014.21	4,755.83	258.39	19.406		
16,100.00	7,730.00	7,642.00	7,642.00	138.00	132.41	90.00	772.51	5,355.16	5,113.72	4,855.35	258.37	19.792		
16,200.00	7,730.00	7,642.00	7,642.00	138.63	132.41	90.00	772.51	5,355.16	5,213.25	4,954.89	258.36	20.178		
16,300.00	7,730.00	7,642.00	7,642.00	139.30	132.41	90.00	772.51	5,355.16	5,312.79	5,054.44	258.34	20.565		
16,400.00	7,730.00	7,642.00	7,642.00	139.99	132.41	90.00	772.51	5,355.16	5,412.35	5,154.02	258.33	20.951		
16,500.00	7,730.00	7,642.00	7,642.00	140.70	132.41	90.00	772.51	5,355.16	5,511.92	5,253.60	258.32	21.338		
16,600.00	7,730.00	7,642.00	7,642.00	141.45	132.41	90.00	772.51	5,355.16	5,611.52	5,353.21	258.31	21.724		
16,700.00	7,730.00	7,642.00	7,642.00	142.22	132.41	90.00	772.51	5,355.16	5,711.12	5,452.82	258.30	22.110		
16,800.00	7,730.00	7,642.00	7,642.00	143.03	132.41	90.00	772.51	5,355.16	5,810.74	5,552.45	258.29	22.497		
16,900.00	7,730.00	7,642.00	7,642.00	143.86	132.41	90.00	772.51	5,355.16	5,910.37	5,652.09	258.28	22.883		
17,000.00	7,730.00	7,642.00	7,642.00	144.71	132.41	90.00	772.51	5,355.16	6,010.02	5,751.74	258.27	23.270		
17,100.00	7,730.00	7,642.00	7,642.00	145.60	132.41	90.00	772.51	5,355.16	6,109.67	5,851.41	258.27	23.657		
17,200.00	7,730.00	7,642.00	7,642.00	146.51	132.41	90.00	772.51	5,355.16	6,209.34	5,951.08	258.26	24.043		
17,300.00	7,730.00	7,642.00	7,642.00	147.44	132.41	90.00	772.51	5,355.16	6,309.02	6,050.76	258.25	24.430		
17,400.00	7,730.00	7,642.00	7,642.00	148.40	132.41	90.00	772.51	5,355.16	6,408.70	6,150.46	258.25	24.816		
17,500.00	7,730.00	7,642.00	7,642.00	149.39	132.41	90.00	772.51	5,355.16	6,508.40	6,250.16	258.24	25.203		
17,600.00	7,730.00	7,642.00	7,642.00	150.40	132.41	90.00	772.51	5,355.16	6,608.11	6,349.87	258.24	25.589		
17,700.00	7,730.00	7,642.00	7,642.00	151.44	132.41	90.00	772.51	5,355.16	6,707.82	6,449.59	258.23	25.976		
17,800.00	7,730.00	7,642.00	7,642.00	152.50	132.41	90.00	772.51	5,355.16	6,807.54	6,549.32	258.23	26.363		
17,900.00	7,730.00	7,642.00	7,642.00	153.58	132.41	90.00	772.51	5,355.16	6,907.28	6,649.05	258.23	26.749		
18,000.00	7,730.00	7,642.00	7,642.00	154.68	132.41	90.00	772.51	5,355.16	7,007.01	6,748.79	258.22	27.136		
18,100.00	7,730.00	7,642.00	7,642.00	155.80	132.41	90.00	772.51	5,355.16	7,106.76	6,848.54	258.22	27.522		
18,200.00	7,730.00	7,642.00	7,642.00	156.95	132.41	90.00	772.51	5,355.16	7,206.51	6,948.29	258.22	27.908		
18,300.00	7,730.00	7,642.00	7,642.00	158.11	132.41	90.00	772.51	5,355.16	7,306.27	7,048.05	258.22	28.295		
18,400.00	7,730.00	7,642.00	7,642.00	159.30	132.41	90.00	772.51	5,355.16	7,406.04	7,147.82	258.22	28.681		
18,500.00	7,730.00	7,642.00	7,642.00	160.50	132.41	90.00	772.51	5,355.16	7,505.81	7,247.59	258.22	29.068		
18,600.00	7,730.00	7,642.00	7,642.00	161.72	132.41	90.00	772.51	5,355.16	7,605.59	7,347.37	258.22	29.454		
18,700.00	7,730.00	7,642.00	7,642.00	162.96	132.41	90.00	772.51	5,355.16	7,705.38	7,447.16	258.22	29.840		
18,800.00	7,730.00	7,642.00	7,642.00	164.21	132.41	90.00	772.51	5,355.16	7,805.17	7,546.94	258.22	30.227		
18,900.00	7,730.00	7,642.00	7,642.00	165.48	132.41	90.00	772.51	5,355.16	7,904.96	7,646.74	258.22	30.613		
19,000.00	7,730.00	7,642.00	7,642.00	166.76	132.41	90.00	772.51	5,355.16	8,004.76	7,746.53	258.23	30.999		
19,100.00	7,730.00	7,642.00	7,642.00	168.06	132.41	90.00	772.51	5,355.16	8,104.57	7,846.34	258.23	31.385		
19,200.00	7,730.00	7,642.00	7,642.00	169.38	132.41	90.00	772.51	5,355.16	8,204.38	7,946.14	258.23	31.771		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,642.00	7,642.00	170.70	132.41	90.00	772.51	5,355.16	8,304.19	8,045.95	258.24	32.157	
19,400.00	7,730.00	7,642.00	7,642.00	172.04	132.41	90.00	772.51	5,355.16	8,404.01	8,145.77	258.24	32.543	
19,500.00	7,730.00	7,642.00	7,642.00	173.40	132.41	90.00	772.51	5,355.16	8,503.83	8,245.59	258.25	32.929	
19,600.00	7,730.00	7,642.00	7,642.00	174.76	132.41	90.00	772.51	5,355.16	8,603.66	8,345.41	258.25	33.315	
19,700.00	7,730.00	7,642.00	7,642.00	176.14	132.41	90.00	772.51	5,355.16	8,703.49	8,445.23	258.26	33.701	
19,800.00	7,730.00	7,642.00	7,642.00	177.52	132.41	90.00	772.51	5,355.16	8,803.33	8,545.06	258.26	34.087	
19,900.00	7,730.00	7,642.00	7,642.00	178.92	132.41	90.00	772.51	5,355.16	8,903.17	8,644.90	258.27	34.472	
20,000.00	7,730.00	7,642.00	7,642.00	180.33	132.41	90.00	772.51	5,355.16	9,003.01	8,744.73	258.28	34.858	
20,100.00	7,730.00	7,642.00	7,642.00	181.75	132.41	90.00	772.51	5,355.16	9,102.85	8,844.57	258.28	35.244	
20,184.95	7,730.00	7,642.00	7,642.00	182.96	132.41	90.00	772.51	5,355.16	9,187.68	8,929.39	258.29	35.571	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	116.33	-1,438.41	2,906.88	3,243.79					
100.00	100.00	43.00	43.00	0.13	0.33	116.33	-1,438.41	2,906.88	3,243.29	3,242.83	0.46	6,980.168		
200.00	199.98	142.98	142.98	0.49	1.52	45.91	-1,438.41	2,906.88	3,242.08	3,240.07	2.01	1,613.855		
300.00	299.84	242.84	242.84	0.86	3.26	46.03	-1,438.41	2,906.88	3,238.44	3,234.32	4.12	786.949		
400.00	399.45	342.45	342.45	1.23	5.00	46.23	-1,438.41	2,906.88	3,232.38	3,226.16	6.23	519.240		
500.00	498.70	441.70	441.70	1.63	6.73	46.51	-1,438.41	2,906.88	3,223.94	3,215.60	8.34	386.567		
600.00	597.47	540.47	540.47	2.05	8.46	46.87	-1,438.41	2,906.88	3,213.14	3,202.68	10.46	307.155		
700.00	695.62	638.62	638.62	2.51	10.17	47.31	-1,438.41	2,906.88	3,200.02	3,187.43	12.59	254.166		
800.00	793.06	736.06	736.06	3.00	11.87	47.83	-1,438.41	2,906.88	3,184.63	3,169.90	14.73	216.201		
900.00	889.64	832.64	832.64	3.53	13.55	48.44	-1,438.41	2,906.88	3,167.03	3,150.14	16.88	187.596		
1,000.00	985.27	928.27	928.27	4.12	15.22	49.13	-1,438.41	2,906.88	3,147.28	3,128.23	19.05	165.218		
1,100.00	1,079.82	1,022.82	1,022.82	4.75	16.87	49.91	-1,438.41	2,906.88	3,125.46	3,104.23	21.23	147.193		
1,200.00	1,173.17	1,116.17	1,116.17	5.44	18.50	50.78	-1,438.41	2,906.88	3,101.67	3,078.23	23.44	132.333		
1,300.00	1,265.21	1,208.21	1,208.21	6.18	20.11	51.73	-1,438.41	2,906.88	3,075.99	3,050.33	25.67	119.849		
1,400.00	1,355.84	1,301.16	1,298.84	6.99	21.73	52.77	-1,438.41	2,906.88	3,048.54	3,020.58	27.96	109.036		
1,500.00	1,444.94	1,387.94	1,387.94	7.87	23.25	53.90	-1,438.41	2,906.88	3,019.43	2,989.23	30.20	99.980		
1,600.00	1,532.39	1,475.39	1,475.39	8.80	24.77	55.11	-1,438.41	2,906.88	2,988.79	2,956.28	32.51	91.924		
1,700.00	1,618.11	1,561.11	1,561.11	9.81	26.27	56.42	-1,438.41	2,906.88	2,956.77	2,921.91	34.86	84.812		
1,800.00	1,701.97	1,644.97	1,644.97	10.89	27.73	57.80	-1,438.41	2,906.88	2,923.51	2,886.26	37.25	78.484		
1,900.00	1,783.88	1,726.88	1,726.88	12.04	29.16	59.27	-1,438.41	2,906.88	2,889.18	2,849.50	39.68	72.815		
2,000.00	1,863.74	1,806.74	1,806.74	13.26	30.56	60.81	-1,438.41	2,906.88	2,853.95	2,811.80	42.15	67.706		
2,100.00	1,941.45	1,884.45	1,884.45	14.55	31.91	62.41	-1,438.41	2,906.88	2,818.02	2,773.35	44.67	63.080		
2,200.00	2,016.92	1,959.92	1,959.92	15.92	33.23	64.08	-1,438.41	2,906.88	2,781.58	2,734.34	47.25	58.874		
2,292.11	2,084.36	2,027.36	2,027.36	17.25	34.41	65.67	-1,438.41	2,906.88	2,747.76	2,698.10	49.66	55.328		
2,300.00	2,090.06	2,033.06	2,033.06	17.36	34.51	65.75	-1,438.41	2,906.88	2,744.86	2,694.99	49.87	55.037		
2,400.00	2,162.18	2,105.18	2,105.18	18.84	35.76	66.78	-1,438.41	2,906.88	2,708.80	2,656.26	52.55	51.551		
2,500.00	2,234.31	2,177.31	2,177.31	20.33	37.02	67.83	-1,438.41	2,906.88	2,674.05	2,618.79	55.26	48.389		
2,600.00	2,306.43	2,249.43	2,249.43	21.83	38.28	68.89	-1,438.41	2,906.88	2,640.66	2,582.65	58.02	45.516		
2,700.00	2,378.56	2,321.56	2,321.56	23.33	39.54	69.97	-1,438.41	2,906.88	2,608.69	2,547.88	60.81	42.901		
2,800.00	2,450.68	2,406.32	2,393.68	24.84	41.02	71.06	-1,438.41	2,906.88	2,578.18	2,514.33	63.85	40.379		
2,900.00	2,522.81	2,465.81	2,465.81	26.36	42.06	72.17	-1,438.41	2,906.88	2,549.18	2,482.70	66.48	38.344		
3,000.00	2,594.93	2,537.93	2,537.93	27.88	43.32	73.29	-1,438.41	2,906.88	2,521.76	2,452.40	69.36	36.357		
3,100.00	2,667.06	2,610.06	2,610.06	29.40	44.58	74.42	-1,438.41	2,906.88	2,495.96	2,423.69	72.26	34.540		
3,200.00	2,739.18	2,682.18	2,682.18	30.92	45.84	75.57	-1,438.41	2,906.88	2,471.83	2,396.64	75.19	32.876		
3,300.00	2,811.31	2,754.31	2,754.31	32.45	47.09	76.73	-1,438.41	2,906.88	2,449.42	2,371.29	78.12	31.353		
3,400.00	2,883.43	2,826.43	2,826.43	33.98	48.35	77.90	-1,438.41	2,906.88	2,428.78	2,347.70	81.07	29.957		
3,500.00	2,955.56	2,901.44	2,898.56	35.51	49.66	79.08	-1,438.41	2,906.88	2,409.95	2,325.87	84.08	28.661		
3,600.00	3,027.68	2,970.68	2,970.68	37.04	50.87	80.27	-1,438.41	2,906.88	2,392.99	2,305.99	87.00	27.507		
3,700.00	3,099.81	3,042.81	3,042.81	38.57	52.13	81.47	-1,438.41	2,906.88	2,377.92	2,287.96	89.96	26.434		
3,800.00	3,171.93	3,114.93	3,114.93	40.11	53.39	82.67	-1,438.41	2,906.88	2,364.78	2,271.87	92.91	25.452		
3,900.00	3,244.06	3,187.06	3,187.06	41.64	54.65	83.89	-1,438.41	2,906.88	2,353.61	2,257.75	95.86	24.553		
4,000.00	3,316.18	3,259.18	3,259.18	43.18	55.91	85.10	-1,438.41	2,906.88	2,344.44	2,245.65	98.79	23.732		
4,100.00	3,388.31	3,331.31	3,331.31	44.71	57.16	86.33	-1,438.41	2,906.88	2,337.28	2,235.58	101.70	22.982		
4,200.00	3,460.43	3,403.43	3,403.43	46.25	58.42	87.55	-1,438.41	2,906.88	2,332.16	2,227.57	104.59	22.299		
4,300.00	3,532.56	3,475.56	3,475.56	47.79	59.68	88.78	-1,438.41	2,906.88	2,329.08	2,221.64	107.45	21.677		
4,399.22	3,604.12	3,547.12	3,547.12	49.32	60.93	90.00	-1,438.41	2,906.88	2,328.07	2,217.82	110.25	21.116 CC		
4,400.00	3,604.68	3,547.68	3,547.68	49.33	60.94	90.01	-1,438.41	2,906.88	2,328.07	2,217.80	110.27	21.112		
4,500.00	3,676.81	3,619.81	3,619.81	50.87	62.20	91.24	-1,438.41	2,906.88	2,329.12	2,216.06	113.06	20.601 ES		
4,600.00	3,748.93	3,708.07	3,691.93	52.41	63.74	92.47	-1,438.41	2,906.88	2,332.22	2,216.13	116.09	20.090		
4,700.00	3,821.06	3,764.06	3,764.06	53.95	64.72	93.69	-1,438.41	2,906.88	2,337.37	2,218.86	118.51	19.723		
4,800.00	3,893.18	3,836.18	3,836.18	55.49	65.98	94.92	-1,438.41	2,906.88	2,344.56	2,223.40	121.17	19.350		
4,900.00	3,965.31	3,908.31	3,908.31	57.03	67.24	96.13	-1,438.41	2,906.88	2,353.77	2,230.00	123.77	19.017		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,980.43	3,980.43	58.58	68.49	97.35	-1,438.41	2,906.88	2,364.97	2,238.64	126.33	18.721		
5,100.00	4,109.56	4,052.56	4,052.56	60.12	69.75	98.55	-1,438.41	2,906.88	2,378.14	2,249.31	128.83	18.460		
5,200.00	4,181.68	4,124.68	4,124.68	61.66	71.01	99.75	-1,438.41	2,906.88	2,393.24	2,261.96	131.28	18.230		
5,300.00	4,253.81	4,203.19	4,196.81	63.20	72.38	100.94	-1,438.41	2,906.88	2,410.23	2,276.45	133.78	18.016		
5,400.00	4,325.93	4,268.93	4,268.93	64.75	73.53	102.12	-1,438.41	2,906.88	2,429.09	2,293.08	136.01	17.860		
5,500.00	4,398.06	4,341.06	4,341.06	66.29	74.79	103.29	-1,438.41	2,906.88	2,449.75	2,311.46	138.29	17.714		
5,600.00	4,470.18	4,413.18	4,413.18	67.84	76.05	104.45	-1,438.41	2,906.88	2,472.19	2,331.67	140.52	17.593		
5,700.00	4,542.31	4,485.31	4,485.31	69.38	77.31	105.60	-1,438.41	2,906.88	2,496.35	2,353.65	142.70	17.494		
5,800.00	4,614.43	4,557.43	4,557.43	70.92	78.56	106.73	-1,438.41	2,906.88	2,522.17	2,377.35	144.82	17.416		
5,900.00	4,686.56	4,629.56	4,629.56	72.47	79.82	107.85	-1,438.41	2,906.88	2,549.62	2,402.73	146.90	17.357		
6,000.00	4,758.68	4,701.68	4,701.68	74.01	81.08	108.96	-1,438.41	2,906.88	2,578.64	2,429.72	148.92	17.315		
6,100.00	4,830.81	4,773.81	4,773.81	75.56	82.34	110.05	-1,438.41	2,906.88	2,609.18	2,458.28	150.90	17.291		
6,200.00	4,902.93	4,845.93	4,845.93	77.10	83.60	111.13	-1,438.41	2,906.88	2,641.17	2,488.34	152.83	17.282		
6,300.00	4,975.06	4,918.06	4,918.06	78.65	84.86	112.19	-1,438.41	2,906.88	2,674.58	2,519.86	154.72	17.286		
6,400.00	5,047.18	5,009.82	4,990.18	80.19	86.46	113.24	-1,438.41	2,906.88	2,709.35	2,552.44	156.91	17.266		
6,500.00	5,119.31	5,062.31	5,062.31	81.74	87.38	114.27	-1,438.41	2,906.88	2,745.43	2,587.05	158.38	17.334		
6,600.00	5,191.43	5,134.43	5,134.43	83.28	88.64	115.28	-1,438.41	2,906.88	2,782.76	2,622.61	160.16	17.375		
6,700.00	5,263.56	5,206.56	5,206.56	84.83	89.89	116.28	-1,438.41	2,906.88	2,821.31	2,659.41	161.90	17.426		
6,800.00	5,335.68	5,278.68	5,278.68	86.37	91.15	117.26	-1,438.41	2,906.88	2,861.00	2,697.40	163.61	17.487		
6,900.00	5,407.81	5,350.81	5,350.81	87.92	92.41	118.22	-1,438.41	2,906.88	2,901.81	2,736.53	165.29	17.556		
7,000.00	5,479.93	5,422.93	5,422.93	89.47	93.67	119.17	-1,438.41	2,906.88	2,943.69	2,776.75	166.94	17.633		
7,100.00	5,552.06	5,504.94	5,495.06	91.01	95.10	120.10	-1,438.41	2,906.88	2,986.58	2,817.84	168.74	17.699		
7,200.00	5,624.18	5,567.18	5,567.18	92.56	96.19	121.01	-1,438.41	2,906.88	3,030.45	2,860.28	170.17	17.808		
7,300.00	5,696.31	5,639.31	5,639.31	94.10	97.45	121.90	-1,438.41	2,906.88	3,075.25	2,903.50	171.75	17.905		
7,400.00	5,768.43	5,711.43	5,711.43	95.65	98.71	122.78	-1,438.41	2,906.88	3,120.95	2,947.63	173.32	18.007		
7,500.00	5,840.56	5,783.56	5,783.56	97.20	99.96	123.64	-1,438.41	2,906.88	3,167.51	2,992.64	174.86	18.114		
7,600.00	5,912.68	5,855.68	5,855.68	98.74	101.22	124.48	-1,438.41	2,906.88	3,214.88	3,038.49	176.39	18.226		
7,700.00	5,984.81	5,927.81	5,927.81	100.29	102.48	125.31	-1,438.41	2,906.88	3,263.03	3,085.13	177.91	18.341		
7,800.00	6,056.93	6,000.07	5,999.93	101.84	103.74	126.12	-1,438.41	2,906.88	3,311.94	3,132.53	179.41	18.460		
7,900.00	6,129.06	6,072.06	6,072.06	103.38	105.00	126.92	-1,438.41	2,906.88	3,361.56	3,180.66	180.90	18.583		
8,000.00	6,201.18	6,144.18	6,144.18	104.93	106.26	127.69	-1,438.41	2,906.88	3,411.86	3,229.49	182.37	18.708		
8,100.00	6,273.31	6,216.31	6,216.31	106.48	107.52	128.46	-1,438.41	2,906.88	3,462.82	3,278.98	183.84	18.836		
8,200.00	6,345.43	6,288.43	6,288.43	108.02	108.78	129.20	-1,438.41	2,906.88	3,514.40	3,329.10	185.30	18.966		
8,300.00	6,417.56	6,360.56	6,360.56	109.57	110.04	129.93	-1,438.41	2,906.88	3,566.59	3,379.84	186.75	19.098		
8,400.00	6,489.68	6,432.68	6,432.68	111.12	111.29	130.65	-1,438.41	2,906.88	3,619.35	3,431.15	188.20	19.231		
8,500.00	6,561.81	6,504.81	6,504.81	112.66	112.55	131.35	-1,438.41	2,906.88	3,672.65	3,483.02	189.64	19.367		
8,600.00	6,633.93	6,576.93	6,576.93	114.21	113.81	132.03	-1,438.41	2,906.88	3,726.49	3,535.41	191.07	19.503		
8,700.00	6,706.06	6,649.06	6,649.06	115.76	115.07	132.70	-1,438.41	2,906.88	3,780.82	3,588.32	192.50	19.640		
8,800.00	6,778.18	6,721.18	6,721.18	117.30	116.33	133.36	-1,438.41	2,906.88	3,835.64	3,641.70	193.93	19.778		
8,900.00	6,850.31	6,806.69	6,793.31	118.85	117.82	134.00	-1,438.41	2,906.88	3,890.91	3,695.32	195.59	19.893		
9,000.00	6,922.43	6,865.43	6,865.43	120.40	118.85	134.63	-1,438.41	2,906.88	3,946.63	3,749.85	196.78	20.056		
9,100.00	6,994.56	6,937.56	6,937.56	121.95	120.11	135.25	-1,438.41	2,906.88	4,002.77	3,804.57	198.20	20.196		
9,200.00	7,066.68	7,009.68	7,009.68	123.49	121.36	135.85	-1,438.41	2,906.88	4,059.32	3,859.70	199.62	20.335		
9,300.00	7,138.81	7,081.81	7,081.81	125.04	122.62	136.44	-1,438.41	2,906.88	4,116.25	3,915.22	201.04	20.475		
9,392.50	7,205.52	7,148.52	7,148.52	126.47	123.79	136.98	-1,438.41	2,906.88	4,169.25	3,966.90	202.35	20.604		
9,400.00	7,210.94	7,153.94	7,153.94	126.59	123.88	135.98	-1,438.41	2,906.88	4,173.53	3,971.07	202.45	20.615		
9,450.00	7,247.42	7,209.58	7,190.42	127.35	124.85	129.38	-1,438.41	2,906.88	4,200.32	3,996.81	203.50	20.640		
9,500.00	7,284.35	7,227.35	7,227.35	128.10	125.16	122.89	-1,438.41	2,906.88	4,223.99	4,020.11	203.89	20.718		
9,550.00	7,321.43	7,264.43	7,264.43	128.83	125.81	116.58	-1,438.41	2,906.88	4,244.43	4,039.83	204.60	20.745		
9,600.00	7,358.38	7,301.38	7,301.38	129.52	126.46	110.57	-1,438.41	2,906.88	4,261.52	4,056.22	205.30	20.758		
9,650.00	7,394.93	7,337.93	7,337.93	130.16	127.09	104.97	-1,438.41	2,906.88	4,275.17	4,069.20	205.97	20.756		
9,700.00	7,430.79	7,373.79	7,373.79	130.76	127.72	99.86	-1,438.41	2,906.88	4,285.33	4,078.72	206.61	20.741		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,408.70	7,408.70	131.30	128.33	95.31	-1,438.41	2,906.88	4,291.97	4,084.76	207.21	20.713		
9,800.00	7,499.38	7,442.38	7,442.38	131.78	128.92	91.36	-1,438.41	2,906.88	4,295.08	4,087.32	207.76	20.673		
9,850.00	7,531.58	7,474.58	7,474.58	132.21	129.48	88.01	-1,438.41	2,906.88	4,294.68	4,086.42	208.25	20.622		
9,900.00	7,562.06	7,505.06	7,505.06	132.57	130.01	85.27	-1,438.41	2,906.88	4,290.80	4,082.12	208.68	20.562		
9,950.00	7,590.58	7,533.58	7,533.58	132.87	130.51	83.11	-1,438.41	2,906.88	4,283.50	4,074.47	209.03	20.492		
10,000.00	7,616.93	7,559.93	7,559.93	133.11	130.97	81.51	-1,438.41	2,906.88	4,272.87	4,063.56	209.31	20.414		
10,050.00	7,640.90	7,583.90	7,583.90	133.29	131.39	80.46	-1,438.41	2,906.88	4,259.00	4,049.49	209.50	20.329		
10,100.00	7,662.32	7,605.32	7,605.32	133.42	131.76	79.93	-1,438.41	2,906.88	4,242.00	4,032.39	209.62	20.237		
10,150.00	7,681.01	7,624.01	7,624.01	133.50	132.09	79.93	-1,438.41	2,906.88	4,222.02	4,012.37	209.65	20.139		
10,200.00	7,696.85	7,639.85	7,639.85	133.52	132.36	80.46	-1,438.41	2,906.88	4,199.19	3,989.60	209.59	20.035		
10,250.00	7,709.70	7,652.70	7,652.70	133.51	132.59	81.51	-1,438.41	2,906.88	4,173.69	3,964.23	209.46	19.926		
10,300.00	7,719.47	7,662.47	7,662.47	133.46	132.76	83.13	-1,438.41	2,906.88	4,145.67	3,936.43	209.25	19.812		
10,350.00	7,726.09	7,669.09	7,669.09	133.37	132.87	85.32	-1,438.41	2,906.88	4,115.34	3,906.38	208.96	19.694		
10,400.00	7,729.50	7,672.50	7,672.50	133.26	132.93	88.14	-1,438.41	2,906.88	4,082.89	3,874.28	208.61	19.572		
10,427.79	7,730.00	7,673.00	7,673.00	133.18	132.94	90.00	-1,438.41	2,906.88	4,064.01	3,855.62	208.38	19.503		
10,500.00	7,730.00	7,673.00	7,673.00	132.98	132.94	90.00	-1,438.41	2,906.88	4,014.56	3,806.79	207.77	19.322		
10,600.00	7,730.00	7,673.00	7,673.00	132.72	132.94	90.00	-1,438.41	2,906.88	3,947.23	3,740.34	206.89	19.079		
10,700.00	7,730.00	7,673.00	7,673.00	132.47	132.94	90.00	-1,438.41	2,906.88	3,881.31	3,675.32	205.99	18.842		
10,800.00	7,730.00	7,673.00	7,673.00	132.22	132.94	90.00	-1,438.41	2,906.88	3,816.88	3,611.80	205.07	18.612		
10,900.00	7,730.00	7,673.00	7,673.00	131.99	132.94	90.00	-1,438.41	2,906.88	3,754.00	3,549.87	204.13	18.390		
11,000.00	7,730.00	7,673.00	7,673.00	131.77	132.94	90.00	-1,438.41	2,906.88	3,692.76	3,489.59	203.17	18.176		
11,100.00	7,730.00	7,673.00	7,673.00	131.56	132.94	90.00	-1,438.41	2,906.88	3,633.24	3,431.04	202.20	17.969		
11,200.00	7,730.00	7,673.00	7,673.00	131.36	132.94	90.00	-1,438.41	2,906.88	3,575.52	3,374.31	201.21	17.770		
11,300.00	7,730.00	7,673.00	7,673.00	131.17	132.94	90.00	-1,438.41	2,906.88	3,519.71	3,319.49	200.22	17.579		
11,400.00	7,730.00	7,673.00	7,673.00	130.99	132.94	90.00	-1,438.41	2,906.88	3,465.88	3,266.65	199.23	17.397		
11,500.00	7,730.00	7,673.00	7,673.00	130.82	132.94	90.00	-1,438.41	2,906.88	3,414.13	3,215.89	198.24	17.222		
11,600.00	7,730.00	7,673.00	7,673.00	130.66	132.94	90.00	-1,438.41	2,906.88	3,364.55	3,167.29	197.27	17.056		
11,700.00	7,730.00	7,673.00	7,673.00	130.51	132.94	90.00	-1,438.41	2,906.88	3,317.25	3,120.94	196.31	16.898		
11,800.00	7,730.00	7,673.00	7,673.00	130.37	132.94	90.00	-1,438.41	2,906.88	3,272.33	3,076.94	195.39	16.747		
11,900.00	7,730.00	7,673.00	7,673.00	130.24	132.94	90.00	-1,438.41	2,906.88	3,229.88	3,035.36	194.52	16.605		
12,000.00	7,730.00	7,673.00	7,673.00	130.13	132.94	90.00	-1,438.41	2,906.88	3,189.99	2,996.30	193.69	16.469		
12,100.00	7,730.00	7,673.00	7,673.00	130.02	132.94	90.00	-1,438.41	2,906.88	3,152.78	2,959.85	192.93	16.341		
12,200.00	7,730.00	7,673.00	7,673.00	129.93	132.94	90.00	-1,438.41	2,906.88	3,118.33	2,926.07	192.26	16.220		
12,300.00	7,730.00	7,673.00	7,673.00	129.85	132.94	90.00	-1,438.41	2,906.88	3,086.74	2,895.07	191.67	16.104		
12,400.00	7,730.00	7,673.00	7,673.00	129.77	132.94	90.00	-1,438.41	2,906.88	3,058.09	2,866.90	191.19	15.995		
12,500.00	7,730.00	7,673.00	7,673.00	129.71	132.94	90.00	-1,438.41	2,906.88	3,032.47	2,841.64	190.83	15.891		
12,600.00	7,730.00	7,673.00	7,673.00	129.66	132.94	90.00	-1,438.41	2,906.88	3,009.95	2,819.36	190.60	15.792		
12,700.00	7,730.00	7,673.00	7,673.00	129.63	132.94	90.00	-1,438.41	2,906.88	2,990.62	2,800.11	190.50	15.699		
12,800.00	7,730.00	7,673.00	7,673.00	129.60	132.94	90.00	-1,438.41	2,906.88	2,974.52	2,783.96	190.55	15.610		
12,900.00	7,730.00	7,673.00	7,673.00	129.59	132.94	90.00	-1,438.41	2,906.88	2,961.71	2,770.95	190.75	15.526		
13,000.00	7,730.00	7,673.00	7,673.00	129.59	132.94	90.00	-1,438.41	2,906.88	2,952.23	2,761.13	191.10	15.449		
13,100.00	7,730.00	7,673.00	7,673.00	129.60	132.94	90.00	-1,438.41	2,906.88	2,946.12	2,754.52	191.60	15.377		
13,200.00	7,730.00	7,673.00	7,673.00	129.63	132.94	90.00	-1,438.41	2,906.88	2,943.40	2,751.16	192.24	15.311		
13,230.20	7,730.00	7,673.00	7,673.00	129.63	132.94	90.00	-1,438.41	2,906.88	2,943.24	2,750.78	192.46	15.293		
13,300.00	7,730.00	7,673.00	7,673.00	129.66	132.94	90.00	-1,438.41	2,906.88	2,944.07	2,751.06	193.01	15.253		
13,400.00	7,730.00	7,673.00	7,673.00	129.72	132.94	90.00	-1,438.41	2,906.88	2,948.14	2,754.23	193.91	15.204		
13,500.00	7,730.00	7,673.00	7,673.00	129.78	132.94	90.00	-1,438.41	2,906.88	2,955.58	2,760.66	194.92	15.163		
13,600.00	7,730.00	7,673.00	7,673.00	129.86	132.94	90.00	-1,438.41	2,906.88	2,966.38	2,770.36	196.02	15.133		
13,700.00	7,730.00	7,673.00	7,673.00	129.96	132.94	90.00	-1,438.41	2,906.88	2,980.50	2,783.29	197.21	15.113		
13,800.00	7,730.00	7,673.00	7,673.00	130.07	132.94	90.00	-1,438.41	2,906.88	2,997.89	2,799.42	198.47	15.105 SF		
13,900.00	7,730.00	7,673.00	7,673.00	130.19	132.94	90.00	-1,438.41	2,906.88	3,018.49	2,818.71	199.78	15.109		
14,000.00	7,730.00	7,673.00	7,673.00	130.33	132.94	90.00	-1,438.41	2,906.88	3,042.25	2,841.11	201.13	15.126		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,673.00	7,673.00	130.49	132.94	90.00	-1,438.41	2,906.88	3,069.08	2,866.57	202.51	15.155		
14,200.00	7,730.00	7,673.00	7,673.00	130.67	132.94	90.00	-1,438.41	2,906.88	3,098.90	2,895.00	203.90	15.198		
14,300.00	7,730.00	7,673.00	7,673.00	130.86	132.94	90.00	-1,438.41	2,906.88	3,131.64	2,926.35	205.29	15.255		
14,400.00	7,730.00	7,673.00	7,673.00	131.07	132.94	90.00	-1,438.41	2,906.88	3,167.19	2,960.52	206.67	15.325		
14,500.00	7,730.00	7,673.00	7,673.00	131.30	132.94	90.00	-1,438.41	2,906.88	3,205.47	2,997.44	208.04	15.408		
14,600.00	7,730.00	7,673.00	7,673.00	131.55	132.94	90.00	-1,438.41	2,906.88	3,246.39	3,037.01	209.38	15.505		
14,700.00	7,730.00	7,673.00	7,673.00	131.82	132.94	90.00	-1,438.41	2,906.88	3,289.83	3,079.14	210.69	15.614		
14,800.00	7,730.00	7,673.00	7,673.00	132.11	132.94	90.00	-1,438.41	2,906.88	3,335.71	3,123.74	211.97	15.737		
14,900.00	7,730.00	7,673.00	7,673.00	132.42	132.94	90.00	-1,438.41	2,906.88	3,383.92	3,170.71	213.21	15.871		
15,000.00	7,730.00	7,673.00	7,673.00	132.75	132.94	90.00	-1,438.41	2,906.88	3,434.37	3,219.95	214.41	16.018		
15,100.00	7,730.00	7,673.00	7,673.00	133.10	132.94	90.00	-1,438.41	2,906.88	3,486.95	3,271.38	215.57	16.176		
15,200.00	7,730.00	7,673.00	7,673.00	133.48	132.94	90.00	-1,438.41	2,906.88	3,541.58	3,324.90	216.68	16.345		
15,300.00	7,730.00	7,673.00	7,673.00	133.88	132.94	90.00	-1,438.41	2,906.88	3,598.16	3,380.41	217.75	16.525		
15,400.00	7,730.00	7,673.00	7,673.00	134.31	132.94	90.00	-1,438.41	2,906.88	3,656.60	3,437.83	218.77	16.715		
15,500.00	7,730.00	7,673.00	7,673.00	134.76	132.94	90.00	-1,438.41	2,906.88	3,716.81	3,497.07	219.74	16.914		
15,600.00	7,730.00	7,673.00	7,673.00	135.23	132.94	90.00	-1,438.41	2,906.88	3,778.71	3,558.03	220.67	17.124		
15,700.00	7,730.00	7,673.00	7,673.00	135.73	132.94	90.00	-1,438.41	2,906.88	3,842.21	3,620.65	221.56	17.342		
15,800.00	7,730.00	7,673.00	7,673.00	136.26	132.94	90.00	-1,438.41	2,906.88	3,907.24	3,684.84	222.41	17.568		
15,900.00	7,730.00	7,673.00	7,673.00	136.81	132.94	90.00	-1,438.41	2,906.88	3,973.73	3,750.52	223.21	17.803		
16,000.00	7,730.00	7,673.00	7,673.00	137.39	132.94	90.00	-1,438.41	2,906.88	4,041.59	3,817.62	223.97	18.045		
16,100.00	7,730.00	7,673.00	7,673.00	138.00	132.94	90.00	-1,438.41	2,906.88	4,110.77	3,886.07	224.70	18.295		
16,200.00	7,730.00	7,673.00	7,673.00	138.63	132.94	90.00	-1,438.41	2,906.88	4,181.19	3,955.81	225.39	18.551		
16,300.00	7,730.00	7,673.00	7,673.00	139.30	132.94	90.00	-1,438.41	2,906.88	4,252.81	4,026.76	226.04	18.814		
16,400.00	7,730.00	7,673.00	7,673.00	139.99	132.94	90.00	-1,438.41	2,906.88	4,325.54	4,098.88	226.66	19.084		
16,500.00	7,730.00	7,673.00	7,673.00	140.70	132.94	90.00	-1,438.41	2,906.88	4,399.35	4,172.10	227.25	19.359		
16,600.00	7,730.00	7,673.00	7,673.00	141.45	132.94	90.00	-1,438.41	2,906.88	4,474.17	4,246.37	227.81	19.640		
16,700.00	7,730.00	7,673.00	7,673.00	142.22	132.94	90.00	-1,438.41	2,906.88	4,549.97	4,321.63	228.34	19.927		
16,800.00	7,730.00	7,673.00	7,673.00	143.03	132.94	90.00	-1,438.41	2,906.88	4,626.68	4,397.84	228.84	20.218		
16,900.00	7,730.00	7,673.00	7,673.00	143.86	132.94	90.00	-1,438.41	2,906.88	4,704.27	4,474.95	229.32	20.514		
17,000.00	7,730.00	7,673.00	7,673.00	144.71	132.94	90.00	-1,438.41	2,906.88	4,782.68	4,552.92	229.77	20.815		
17,100.00	7,730.00	7,673.00	7,673.00	145.60	132.94	90.00	-1,438.41	2,906.88	4,861.90	4,631.70	230.20	21.121		
17,200.00	7,730.00	7,673.00	7,673.00	146.51	132.94	90.00	-1,438.41	2,906.88	4,941.86	4,711.26	230.60	21.430		
17,300.00	7,730.00	7,673.00	7,673.00	147.44	132.94	90.00	-1,438.41	2,906.88	5,022.54	4,791.56	230.99	21.744		
17,400.00	7,730.00	7,673.00	7,673.00	148.40	132.94	90.00	-1,438.41	2,906.88	5,103.91	4,872.56	231.36	22.061		
17,500.00	7,730.00	7,673.00	7,673.00	149.39	132.94	90.00	-1,438.41	2,906.88	5,185.93	4,954.23	231.70	22.382		
17,600.00	7,730.00	7,673.00	7,673.00	150.40	132.94	90.00	-1,438.41	2,906.88	5,268.57	5,036.53	232.04	22.706		
17,700.00	7,730.00	7,673.00	7,673.00	151.44	132.94	90.00	-1,438.41	2,906.88	5,351.80	5,119.45	232.35	23.033		
17,800.00	7,730.00	7,673.00	7,673.00	152.50	132.94	90.00	-1,438.41	2,906.88	5,435.60	5,202.95	232.65	23.364		
17,900.00	7,730.00	7,673.00	7,673.00	153.58	132.94	90.00	-1,438.41	2,906.88	5,519.94	5,287.00	232.94	23.697		
18,000.00	7,730.00	7,673.00	7,673.00	154.68	132.94	90.00	-1,438.41	2,906.88	5,604.79	5,371.58	233.21	24.033		
18,100.00	7,730.00	7,673.00	7,673.00	155.80	132.94	90.00	-1,438.41	2,906.88	5,690.14	5,456.67	233.47	24.372		
18,200.00	7,730.00	7,673.00	7,673.00	156.95	132.94	90.00	-1,438.41	2,906.88	5,775.95	5,542.24	233.71	24.714		
18,300.00	7,730.00	7,673.00	7,673.00	158.11	132.94	90.00	-1,438.41	2,906.88	5,862.21	5,628.27	233.95	25.058		
18,400.00	7,730.00	7,673.00	7,673.00	159.30	132.94	90.00	-1,438.41	2,906.88	5,948.91	5,714.74	234.17	25.404		
18,500.00	7,730.00	7,673.00	7,673.00	160.50	132.94	90.00	-1,438.41	2,906.88	6,036.02	5,801.63	234.39	25.752		
18,600.00	7,730.00	7,673.00	7,673.00	161.72	132.94	90.00	-1,438.41	2,906.88	6,123.52	5,888.92	234.59	26.103		
18,700.00	7,730.00	7,673.00	7,673.00	162.96	132.94	90.00	-1,438.41	2,906.88	6,211.39	5,976.61	234.79	26.455		
18,800.00	7,730.00	7,673.00	7,673.00	164.21	132.94	90.00	-1,438.41	2,906.88	6,299.63	6,064.66	234.97	26.810		
18,900.00	7,730.00	7,673.00	7,673.00	165.48	132.94	90.00	-1,438.41	2,906.88	6,388.22	6,153.06	235.15	27.166		
19,000.00	7,730.00	7,673.00	7,673.00	166.76	132.94	90.00	-1,438.41	2,906.88	6,477.14	6,241.81	235.32	27.524		
19,100.00	7,730.00	7,673.00	7,673.00	168.06	132.94	90.00	-1,438.41	2,906.88	6,566.37	6,330.88	235.49	27.884		
19,200.00	7,730.00	7,673.00	7,673.00	169.38	132.94	90.00	-1,438.41	2,906.88	6,655.91	6,420.27	235.65	28.245		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,673.00	7,673.00	170.70	132.94	90.00	-1,438.41	2,906.88	6,745.75	6,509.95	235.80	28.608	
19,400.00	7,730.00	7,673.00	7,673.00	172.04	132.94	90.00	-1,438.41	2,906.88	6,835.87	6,599.93	235.94	28.973	
19,500.00	7,730.00	7,673.00	7,673.00	173.40	132.94	90.00	-1,438.41	2,906.88	6,926.26	6,690.18	236.08	29.338	
19,600.00	7,730.00	7,673.00	7,673.00	174.76	132.94	90.00	-1,438.41	2,906.88	7,016.91	6,780.70	236.21	29.706	
19,700.00	7,730.00	7,673.00	7,673.00	176.14	132.94	90.00	-1,438.41	2,906.88	7,107.81	6,871.47	236.34	30.074	
19,800.00	7,730.00	7,673.00	7,673.00	177.52	132.94	90.00	-1,438.41	2,906.88	7,198.96	6,962.49	236.47	30.444	
19,900.00	7,730.00	7,673.00	7,673.00	178.92	132.94	90.00	-1,438.41	2,906.88	7,290.33	7,053.74	236.59	30.815	
20,000.00	7,730.00	7,673.00	7,673.00	180.33	132.94	90.00	-1,438.41	2,906.88	7,381.93	7,145.23	236.70	31.187	
20,100.00	7,730.00	7,673.00	7,673.00	181.75	132.94	90.00	-1,438.41	2,906.88	7,473.74	7,236.93	236.81	31.560	
20,184.95	7,730.00	7,673.00	7,673.00	182.96	132.94	90.00	-1,438.41	2,906.88	7,551.91	7,315.00	236.90	31.877	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	108.87	-1,434.58	4,197.76	4,436.27					
100.00	100.00	64.00	64.00	0.13	0.49	108.87	-1,434.58	4,197.76	4,436.13	4,435.51	0.62	7,151.268		
200.00	199.98	163.98	163.98	0.49	1.88	38.45	-1,434.58	4,197.76	4,434.76	4,432.39	2.37	1,873.595		
300.00	299.84	263.84	263.84	0.86	3.62	38.54	-1,434.58	4,197.76	4,430.66	4,426.19	4.47	990.378		
400.00	399.45	363.45	363.45	1.23	5.36	38.69	-1,434.58	4,197.76	4,423.84	4,417.26	6.58	672.048		
500.00	498.70	462.70	462.70	1.63	7.09	38.91	-1,434.58	4,197.76	4,414.32	4,405.62	8.69	507.751		
600.00	597.47	561.47	561.47	2.05	8.81	39.20	-1,434.58	4,197.76	4,402.11	4,391.30	10.81	407.292		
700.00	695.62	659.62	659.62	2.51	10.53	39.54	-1,434.58	4,197.76	4,387.25	4,374.32	12.93	339.391		
800.00	793.06	757.06	757.06	3.00	12.23	39.96	-1,434.58	4,197.76	4,369.77	4,354.72	15.05	290.336		
900.00	889.64	853.64	853.64	3.53	13.91	40.44	-1,434.58	4,197.76	4,349.72	4,332.54	17.18	253.167		
1,000.00	985.27	949.27	949.27	4.12	15.58	40.99	-1,434.58	4,197.76	4,327.14	4,307.82	19.32	223.976		
1,100.00	1,079.82	1,043.82	1,043.82	4.75	17.23	41.61	-1,434.58	4,197.76	4,302.10	4,280.63	21.47	200.400		
1,200.00	1,173.17	1,137.17	1,137.17	5.44	18.86	42.30	-1,434.58	4,197.76	4,274.64	4,251.02	23.63	180.927		
1,300.00	1,265.21	1,229.21	1,229.21	6.18	20.47	43.07	-1,434.58	4,197.76	4,244.85	4,219.06	25.80	164.543		
1,400.00	1,355.84	1,319.84	1,319.84	6.99	22.05	43.91	-1,434.58	4,197.76	4,212.81	4,184.82	27.98	150.546		
1,500.00	1,444.94	1,408.94	1,408.94	7.87	23.60	44.83	-1,434.58	4,197.76	4,178.58	4,148.39	30.19	138.429		
1,600.00	1,532.39	1,503.61	1,496.39	8.80	25.26	45.83	-1,434.58	4,197.76	4,142.27	4,109.74	32.53	127.329		
1,700.00	1,618.11	1,582.11	1,582.11	9.81	26.63	46.91	-1,434.58	4,197.76	4,103.97	4,069.32	34.65	118.450		
1,800.00	1,701.97	1,665.97	1,665.97	10.89	28.09	48.07	-1,434.58	4,197.76	4,063.78	4,026.87	36.91	110.097		
1,900.00	1,783.88	1,747.88	1,747.88	12.04	29.52	49.32	-1,434.58	4,197.76	4,021.82	3,982.63	39.20	102.598		
2,000.00	1,863.74	1,827.74	1,827.74	13.26	30.91	50.65	-1,434.58	4,197.76	3,978.22	3,936.70	41.52	95.823		
2,100.00	1,941.45	1,905.45	1,905.45	14.55	32.27	52.06	-1,434.58	4,197.76	3,933.08	3,889.22	43.86	89.668		
2,200.00	2,016.92	1,980.92	1,980.92	15.92	33.59	53.55	-1,434.58	4,197.76	3,886.56	3,840.31	46.24	84.049		
2,292.11	2,084.36	2,048.36	2,048.36	17.25	34.76	54.99	-1,434.58	4,197.76	3,842.59	3,794.13	48.46	79.288		
2,300.00	2,090.06	2,054.06	2,054.06	17.36	34.86	55.04	-1,434.58	4,197.76	3,838.79	3,790.13	48.66	78.895		
2,400.00	2,162.18	2,126.18	2,126.18	18.84	36.12	55.74	-1,434.58	4,197.76	3,790.90	3,739.80	51.11	74.177		
2,500.00	2,234.31	2,201.69	2,198.31	20.33	37.44	56.46	-1,434.58	4,197.76	3,743.69	3,690.03	53.65	69.776		
2,600.00	2,306.43	2,270.43	2,270.43	21.83	38.64	57.19	-1,434.58	4,197.76	3,697.17	3,641.05	56.12	65.881		
2,700.00	2,378.56	2,342.56	2,342.56	23.33	39.90	57.93	-1,434.58	4,197.76	3,651.37	3,592.69	58.68	62.227		
2,800.00	2,450.68	2,414.68	2,414.68	24.84	41.16	58.68	-1,434.58	4,197.76	3,606.32	3,545.04	61.27	58.857		
2,900.00	2,522.81	2,486.81	2,486.81	26.36	42.42	59.44	-1,434.58	4,197.76	3,562.04	3,498.14	63.90	55.743		
3,000.00	2,594.93	2,558.93	2,558.93	27.88	43.68	60.22	-1,434.58	4,197.76	3,518.58	3,452.01	66.56	52.861		
3,100.00	2,667.06	2,631.06	2,631.06	29.40	44.93	61.01	-1,434.58	4,197.76	3,475.95	3,406.69	69.26	50.190		
3,200.00	2,739.18	2,703.18	2,703.18	30.92	46.19	61.81	-1,434.58	4,197.76	3,434.18	3,362.20	71.98	47.709		
3,300.00	2,811.31	2,775.31	2,775.31	32.45	47.45	62.62	-1,434.58	4,197.76	3,393.32	3,318.58	74.74	45.403		
3,400.00	2,883.43	2,847.43	2,847.43	33.98	48.71	63.45	-1,434.58	4,197.76	3,353.39	3,275.87	77.53	43.256		
3,500.00	2,955.56	2,919.56	2,919.56	35.51	49.97	64.28	-1,434.58	4,197.76	3,314.43	3,234.09	80.34	41.254		
3,600.00	3,027.68	3,008.32	2,991.68	37.04	51.52	65.13	-1,434.58	4,197.76	3,276.47	3,192.99	83.48	39.249		
3,700.00	3,099.81	3,063.81	3,063.81	38.57	52.49	65.99	-1,434.58	4,197.76	3,239.55	3,153.48	86.06	37.642		
3,800.00	3,171.93	3,135.93	3,135.93	40.11	53.75	66.86	-1,434.58	4,197.76	3,203.70	3,114.73	88.96	36.011		
3,900.00	3,244.06	3,208.06	3,208.06	41.64	55.01	67.75	-1,434.58	4,197.76	3,168.95	3,077.06	91.89	34.486		
4,000.00	3,316.18	3,280.18	3,280.18	43.18	56.26	68.64	-1,434.58	4,197.76	3,135.35	3,040.51	94.84	33.058		
4,100.00	3,388.31	3,352.31	3,352.31	44.71	57.52	69.55	-1,434.58	4,197.76	3,102.94	3,005.12	97.82	31.722		
4,200.00	3,460.43	3,424.43	3,424.43	46.25	58.78	70.47	-1,434.58	4,197.76	3,071.74	2,970.93	100.81	30.469		
4,300.00	3,532.56	3,503.44	3,496.56	47.79	60.16	71.39	-1,434.58	4,197.76	3,041.81	2,937.86	103.95	29.262		
4,400.00	3,604.68	3,568.68	3,568.68	49.33	61.30	72.33	-1,434.58	4,197.76	3,013.16	2,906.30	106.86	28.197		
4,500.00	3,676.81	3,640.81	3,640.81	50.87	62.56	73.28	-1,434.58	4,197.76	2,985.85	2,875.94	109.91	27.166		
4,600.00	3,748.93	3,712.93	3,712.93	52.41	63.82	74.24	-1,434.58	4,197.76	2,959.91	2,846.94	112.97	26.200		
4,700.00	3,821.06	3,785.06	3,785.06	53.95	65.08	75.20	-1,434.58	4,197.76	2,935.38	2,819.34	116.04	25.296		
4,800.00	3,893.18	3,857.18	3,857.18	55.49	66.33	76.18	-1,434.58	4,197.76	2,912.29	2,793.17	119.12	24.448		
4,900.00	3,965.31	3,929.31	3,929.31	57.03	67.59	77.16	-1,434.58	4,197.76	2,890.67	2,768.47	122.20	23.655		
5,000.00	4,037.43	4,001.43	4,001.43	58.58	68.85	78.15	-1,434.58	4,197.76	2,870.56	2,745.27	125.28	22.912		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,073.56	4,073.56	60.12	70.11	79.15	-1,434.58	4,197.76	2,851.99	2,723.63	128.37	22.218		
5,200.00	4,181.68	4,145.68	4,145.68	61.66	71.37	80.16	-1,434.58	4,197.76	2,834.99	2,703.56	131.44	21.569		
5,300.00	4,253.81	4,217.81	4,217.81	63.20	72.63	81.17	-1,434.58	4,197.76	2,819.60	2,685.09	134.50	20.963		
5,400.00	4,325.93	4,289.93	4,289.93	64.75	73.89	82.18	-1,434.58	4,197.76	2,805.83	2,668.27	137.56	20.398		
5,500.00	4,398.06	4,362.06	4,362.06	66.29	75.15	83.21	-1,434.58	4,197.76	2,793.71	2,653.12	140.59	19.871		
5,600.00	4,470.18	4,434.18	4,434.18	67.84	76.40	84.23	-1,434.58	4,197.76	2,783.26	2,639.65	143.60	19.381		
5,700.00	4,542.31	4,506.31	4,506.31	69.38	77.66	85.26	-1,434.58	4,197.76	2,774.50	2,627.90	146.59	18.926		
5,800.00	4,614.43	4,578.43	4,578.43	70.92	78.92	86.29	-1,434.58	4,197.76	2,767.45	2,617.89	149.56	18.504		
5,900.00	4,686.56	4,650.56	4,650.56	72.47	80.18	87.33	-1,434.58	4,197.76	2,762.11	2,609.63	152.49	18.114		
6,000.00	4,758.68	4,722.68	4,722.68	74.01	81.44	88.37	-1,434.58	4,197.76	2,758.51	2,603.13	155.38	17.753		
6,100.00	4,830.81	4,805.19	4,794.81	75.56	82.88	89.41	-1,434.58	4,197.76	2,756.64	2,598.22	158.42	17.401		
6,157.29	4,872.13	4,836.13	4,836.13	76.44	83.42	90.00	-1,434.58	4,197.76	2,756.36	2,596.50	159.86	17.242		
6,200.00	4,902.93	4,866.93	4,866.93	77.10	83.96	90.44	-1,434.58	4,197.76	2,756.52	2,595.46	161.06	17.115		
6,300.00	4,975.06	4,939.06	4,939.06	78.65	85.22	91.48	-1,434.58	4,197.76	2,758.13	2,594.30	163.83	16.835		
6,400.00	5,047.18	5,011.18	5,011.18	80.19	86.48	92.52	-1,434.58	4,197.76	2,761.48	2,594.92	166.56	16.579		
6,500.00	5,119.31	5,083.31	5,083.31	81.74	87.73	93.55	-1,434.58	4,197.76	2,766.56	2,597.32	169.24	16.347		
6,600.00	5,191.43	5,155.43	5,155.43	83.28	88.99	94.59	-1,434.58	4,197.76	2,773.36	2,601.49	171.87	16.136		
6,700.00	5,263.56	5,227.56	5,227.56	84.83	90.25	95.62	-1,434.58	4,197.76	2,781.87	2,607.42	174.45	15.947		
6,800.00	5,335.68	5,300.32	5,299.68	86.37	91.52	96.64	-1,434.58	4,197.76	2,792.08	2,615.09	176.98	15.776		
6,900.00	5,407.81	5,371.81	5,371.81	87.92	92.77	97.67	-1,434.58	4,197.76	2,803.96	2,624.51	179.45	15.626		
7,000.00	5,479.93	5,443.93	5,443.93	89.47	94.03	98.68	-1,434.58	4,197.76	2,817.49	2,635.62	181.86	15.492		
7,100.00	5,552.06	5,516.06	5,516.06	91.01	95.29	99.70	-1,434.58	4,197.76	2,832.65	2,648.42	184.22	15.376		
7,200.00	5,624.18	5,588.18	5,588.18	92.56	96.55	100.70	-1,434.58	4,197.76	2,849.41	2,662.88	186.53	15.276		
7,300.00	5,696.31	5,660.31	5,660.31	94.10	97.80	101.70	-1,434.58	4,197.76	2,867.75	2,678.97	188.79	15.191		
7,400.00	5,768.43	5,732.43	5,732.43	95.65	99.06	102.69	-1,434.58	4,197.76	2,887.64	2,696.66	190.99	15.120		
7,500.00	5,840.56	5,804.56	5,804.56	97.20	100.32	103.68	-1,434.58	4,197.76	2,909.04	2,715.91	193.13	15.062		
7,600.00	5,912.68	5,876.68	5,876.68	98.74	101.58	104.65	-1,434.58	4,197.76	2,931.92	2,736.69	195.23	15.018		
7,700.00	5,984.81	5,948.81	5,948.81	100.29	102.84	105.62	-1,434.58	4,197.76	2,956.25	2,758.98	197.27	14.986		
7,800.00	6,056.93	6,020.93	6,020.93	101.84	104.10	106.58	-1,434.58	4,197.76	2,981.98	2,782.72	199.27	14.965		
7,900.00	6,129.06	6,106.94	6,093.06	103.38	105.60	107.53	-1,434.58	4,197.76	3,009.10	2,807.64	201.46	14.937		
8,000.00	6,201.18	6,165.18	6,165.18	104.93	106.62	108.47	-1,434.58	4,197.76	3,037.55	2,834.43	203.11	14.955		
8,100.00	6,273.31	6,237.31	6,237.31	106.48	107.88	109.40	-1,434.58	4,197.76	3,067.30	2,862.33	204.97	14.964		
8,200.00	6,345.43	6,309.43	6,309.43	108.02	109.13	110.32	-1,434.58	4,197.76	3,098.31	2,891.52	206.79	14.983		
8,300.00	6,417.56	6,381.56	6,381.56	109.57	110.39	111.22	-1,434.58	4,197.76	3,130.55	2,921.99	208.56	15.010		
8,400.00	6,489.68	6,453.68	6,453.68	111.12	111.65	112.12	-1,434.58	4,197.76	3,163.98	2,953.68	210.30	15.045		
8,500.00	6,561.81	6,525.81	6,525.81	112.66	112.91	113.01	-1,434.58	4,197.76	3,198.56	2,986.56	212.00	15.088		
8,600.00	6,633.93	6,602.07	6,597.93	114.21	114.24	113.88	-1,434.58	4,197.76	3,234.25	3,020.51	213.74	15.132		
8,700.00	6,706.06	6,670.06	6,670.06	115.76	115.43	114.74	-1,434.58	4,197.76	3,271.02	3,055.72	215.30	15.193		
8,800.00	6,778.18	6,742.18	6,742.18	117.30	116.69	115.59	-1,434.58	4,197.76	3,308.83	3,091.93	216.90	15.255		
8,900.00	6,850.31	6,814.31	6,814.31	118.85	117.95	116.43	-1,434.58	4,197.76	3,347.65	3,129.17	218.48	15.322		
9,000.00	6,922.43	6,886.43	6,886.43	120.40	119.20	117.26	-1,434.58	4,197.76	3,387.44	3,167.41	220.03	15.395		
9,100.00	6,994.56	6,958.56	6,958.56	121.95	120.46	118.07	-1,434.58	4,197.76	3,428.17	3,206.61	221.55	15.473		
9,200.00	7,066.68	7,030.68	7,030.68	123.49	121.72	118.88	-1,434.58	4,197.76	3,469.80	3,246.74	223.06	15.556		
9,300.00	7,138.81	7,102.81	7,102.81	125.04	122.98	119.67	-1,434.58	4,197.76	3,512.30	3,287.77	224.54	15.642		
9,392.50	7,205.52	7,169.52	7,169.52	126.47	124.15	120.39	-1,434.58	4,197.76	3,552.37	3,326.48	225.89	15.726		
9,400.00	7,210.94	7,174.94	7,174.94	126.59	124.24	119.59	-1,434.58	4,197.76	3,555.61	3,329.61	226.00	15.733		
9,450.00	7,247.42	7,211.42	7,211.42	127.35	124.88	114.17	-1,434.58	4,197.76	3,575.11	3,348.37	226.73	15.768		
9,500.00	7,284.35	7,248.35	7,248.35	128.10	125.52	108.66	-1,434.58	4,197.76	3,590.91	3,363.43	227.47	15.786		
9,550.00	7,321.43	7,285.43	7,285.43	128.83	126.17	103.20	-1,434.58	4,197.76	3,602.94	3,374.73	228.21	15.788		
9,600.00	7,358.38	7,322.38	7,322.38	129.52	126.81	97.90	-1,434.58	4,197.76	3,611.14	3,382.20	228.93	15.774		
9,650.00	7,394.93	7,358.93	7,358.93	130.16	127.45	92.91	-1,434.58	4,197.76	3,615.48	3,385.84	229.64	15.744		
9,700.00	7,430.79	7,405.21	7,394.79	130.76	128.26	88.34	-1,434.58	4,197.76	3,615.96	3,385.48	230.48	15.689		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
9,750.00	7,465.70	7,429.70	7,429.70	131.30	128.69	84.27	-1,434.58	4,197.76	3,612.61	3,381.68	230.93	15.644		
9,800.00	7,499.38	7,463.38	7,463.38	131.78	129.27	80.74	-1,434.58	4,197.76	3,605.47	3,373.97	231.50	15.574		
9,850.00	7,531.58	7,504.42	7,495.58	132.21	129.99	77.78	-1,434.58	4,197.76	3,594.61	3,362.44	232.17	15.483		
9,900.00	7,562.06	7,526.06	7,526.06	132.57	130.37	75.41	-1,434.58	4,197.76	3,580.12	3,347.65	232.46	15.401		
9,950.00	7,590.58	7,554.58	7,554.58	132.87	130.87	73.61	-1,434.58	4,197.76	3,562.11	3,329.27	232.84	15.298		
10,000.00	7,616.93	7,580.93	7,580.93	133.11	131.33	72.39	-1,434.58	4,197.76	3,540.73	3,307.58	233.15	15.187		
10,050.00	7,640.90	7,604.90	7,604.90	133.29	131.74	71.74	-1,434.58	4,197.76	3,516.12	3,282.74	233.37	15.066		
10,100.00	7,662.32	7,626.32	7,626.32	133.42	132.12	71.68	-1,434.58	4,197.76	3,488.45	3,254.93	233.52	14.938		
10,150.00	7,681.01	7,645.01	7,645.01	133.50	132.44	72.23	-1,434.58	4,197.76	3,457.92	3,224.33	233.59	14.803		
10,200.00	7,696.85	7,660.85	7,660.85	133.52	132.72	73.44	-1,434.58	4,197.76	3,424.73	3,191.15	233.58	14.662		
10,250.00	7,709.70	7,673.70	7,673.70	133.51	132.95	75.38	-1,434.58	4,197.76	3,389.10	3,155.60	233.49	14.515		
10,300.00	7,719.47	7,683.47	7,683.47	133.46	133.12	78.14	-1,434.58	4,197.76	3,351.26	3,117.92	233.34	14.362		
10,350.00	7,726.09	7,709.91	7,690.09	133.37	133.58	81.87	-1,434.58	4,197.76	3,311.45	3,077.99	233.46	14.184		
10,400.00	7,729.50	7,706.50	7,693.50	133.26	133.52	86.73	-1,434.58	4,197.76	3,269.94	3,036.89	233.06	14.031		
10,427.79	7,730.00	7,706.00	7,694.00	133.18	133.51	90.00	-1,434.58	4,197.76	3,246.22	3,013.37	232.86	13.941		
10,500.00	7,730.00	7,706.00	7,694.00	132.98	133.51	90.00	-1,434.58	4,197.76	3,184.28	2,951.94	232.35	13.705		
10,600.00	7,730.00	7,706.00	7,694.00	132.72	133.51	90.00	-1,434.58	4,197.76	3,099.24	2,867.64	231.60	13.382		
10,700.00	7,730.00	7,706.00	7,694.00	132.47	133.51	90.00	-1,434.58	4,197.76	3,015.11	2,784.31	230.79	13.064		
10,800.00	7,730.00	7,706.00	7,694.00	132.22	133.51	90.00	-1,434.58	4,197.76	2,931.97	2,702.05	229.93	12.752		
10,900.00	7,730.00	7,706.00	7,694.00	131.99	133.51	90.00	-1,434.58	4,197.76	2,849.92	2,620.93	228.99	12.446		
11,000.00	7,730.00	7,706.00	7,694.00	131.77	133.51	90.00	-1,434.58	4,197.76	2,769.05	2,541.07	227.98	12.146		
11,100.00	7,730.00	7,706.00	7,694.00	131.56	133.51	90.00	-1,434.58	4,197.76	2,689.47	2,462.58	226.89	11.854		
11,200.00	7,730.00	7,706.00	7,694.00	131.36	133.51	90.00	-1,434.58	4,197.76	2,611.29	2,385.58	225.72	11.569		
11,300.00	7,730.00	7,706.00	7,694.00	131.17	133.51	90.00	-1,434.58	4,197.76	2,534.65	2,310.20	224.45	11.293		
11,400.00	7,730.00	7,706.00	7,694.00	130.99	133.51	90.00	-1,434.58	4,197.76	2,459.69	2,236.60	223.08	11.026		
11,500.00	7,730.00	7,706.00	7,694.00	130.82	133.51	90.00	-1,434.58	4,197.76	2,386.56	2,164.95	221.61	10.769		
11,600.00	7,730.00	7,706.00	7,694.00	130.66	133.51	90.00	-1,434.58	4,197.76	2,315.44	2,095.41	220.03	10.523		
11,700.00	7,730.00	7,706.00	7,694.00	130.51	133.51	90.00	-1,434.58	4,197.76	2,246.52	2,028.19	218.33	10.290		
11,800.00	7,730.00	7,706.00	7,694.00	130.37	133.51	90.00	-1,434.58	4,197.76	2,180.01	1,963.50	216.51	10.069		
11,900.00	7,730.00	7,706.00	7,694.00	130.24	133.51	90.00	-1,434.58	4,197.76	2,116.14	1,901.56	214.58	9.862		
12,000.00	7,730.00	7,706.00	7,694.00	130.13	133.51	90.00	-1,434.58	4,197.76	2,055.15	1,842.62	212.53	9.670		
12,100.00	7,730.00	7,706.00	7,694.00	130.02	133.51	90.00	-1,434.58	4,197.76	1,997.31	1,786.93	210.38	9.494		
12,200.00	7,730.00	7,706.00	7,694.00	129.93	133.51	90.00	-1,434.58	4,197.76	1,942.90	1,734.75	208.14	9.334		
12,300.00	7,730.00	7,706.00	7,694.00	129.85	133.51	90.00	-1,434.58	4,197.76	1,892.21	1,686.36	205.85	9.192		
12,400.00	7,730.00	7,706.00	7,694.00	129.77	133.51	90.00	-1,434.58	4,197.76	1,845.55	1,642.01	203.53	9.068		
12,500.00	7,730.00	7,706.00	7,694.00	129.71	133.51	90.00	-1,434.58	4,197.76	1,803.23	1,601.98	201.25	8.960		
12,600.00	7,730.00	7,706.00	7,694.00	129.66	133.51	90.00	-1,434.58	4,197.76	1,765.57	1,566.51	199.06	8.869		
12,700.00	7,730.00	7,706.00	7,694.00	129.63	133.51	90.00	-1,434.58	4,197.76	1,732.87	1,535.81	197.06	8.794		
12,800.00	7,730.00	7,706.00	7,694.00	129.60	133.51	90.00	-1,434.58	4,197.76	1,705.41	1,510.09	195.32	8.731		
12,900.00	7,730.00	7,706.00	7,694.00	129.59	133.51	90.00	-1,434.58	4,197.76	1,683.46	1,489.51	193.95	8.680		
13,000.00	7,730.00	7,706.00	7,694.00	129.59	133.51	90.00	-1,434.58	4,197.76	1,667.22	1,474.18	193.04	8.637		
13,100.00	7,730.00	7,706.00	7,694.00	129.60	133.51	90.00	-1,434.58	4,197.76	1,656.87	1,464.22	192.65	8.600		
13,200.00	7,730.00	7,706.00	7,694.00	129.63	133.51	90.00	-1,434.58	4,197.76	1,652.52	1,459.69	192.83	8.570		
13,222.01	7,730.00	7,706.00	7,694.00	129.63	133.51	90.00	-1,434.58	4,197.76	1,652.38	1,459.43	192.95	8.564 CC, ES		
13,300.00	7,730.00	7,706.00	7,694.00	129.66	133.51	90.00	-1,434.58	4,197.76	1,654.22	1,460.64	193.57	8.546		
13,400.00	7,730.00	7,706.00	7,694.00	129.72	133.51	90.00	-1,434.58	4,197.76	1,661.93	1,467.09	194.84	8.530		
13,500.00	7,730.00	7,706.00	7,694.00	129.78	133.51	90.00	-1,434.58	4,197.76	1,675.60	1,479.03	196.57	8.524 SF		
13,600.00	7,730.00	7,706.00	7,694.00	129.86	133.51	90.00	-1,434.58	4,197.76	1,695.06	1,496.40	198.65	8.533		
13,700.00	7,730.00	7,706.00	7,694.00	129.96	133.51	90.00	-1,434.58	4,197.76	1,720.12	1,519.12	201.00	8.558		
13,800.00	7,730.00	7,706.00	7,694.00	130.07	133.51	90.00	-1,434.58	4,197.76	1,750.55	1,547.03	203.52	8.601		
13,900.00	7,730.00	7,706.00	7,694.00	130.19	133.51	90.00	-1,434.58	4,197.76	1,786.06	1,579.95	206.11	8.665		
14,000.00	7,730.00	7,706.00	7,694.00	130.33	133.51	90.00	-1,434.58	4,197.76	1,826.37	1,617.65	208.72	8.750		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,706.00	7,694.00	130.49	133.51	90.00	-1,434.58	4,197.76	1,871.15	1,659.87	211.28	8.856		
14,200.00	7,730.00	7,706.00	7,694.00	130.67	133.51	90.00	-1,434.58	4,197.76	1,920.11	1,706.35	213.76	8.983		
14,300.00	7,730.00	7,706.00	7,694.00	130.86	133.51	90.00	-1,434.58	4,197.76	1,972.92	1,756.80	216.12	9.129		
14,400.00	7,730.00	7,706.00	7,694.00	131.07	133.51	90.00	-1,434.58	4,197.76	2,029.29	1,810.94	218.35	9.294		
14,500.00	7,730.00	7,706.00	7,694.00	131.30	133.51	90.00	-1,434.58	4,197.76	2,088.93	1,868.49	220.44	9.476		
14,600.00	7,730.00	7,706.00	7,694.00	131.55	133.51	90.00	-1,434.58	4,197.76	2,151.56	1,929.18	222.38	9.675		
14,700.00	7,730.00	7,706.00	7,694.00	131.82	133.51	90.00	-1,434.58	4,197.76	2,216.94	1,992.75	224.19	9.889		
14,800.00	7,730.00	7,706.00	7,694.00	132.11	133.51	90.00	-1,434.58	4,197.76	2,284.82	2,058.97	225.85	10.116		
14,900.00	7,730.00	7,706.00	7,694.00	132.42	133.51	90.00	-1,434.58	4,197.76	2,355.00	2,127.61	227.39	10.357		
15,000.00	7,730.00	7,706.00	7,694.00	132.75	133.51	90.00	-1,434.58	4,197.76	2,427.26	2,198.47	228.80	10.609		
15,100.00	7,730.00	7,706.00	7,694.00	133.10	133.51	90.00	-1,434.58	4,197.76	2,501.44	2,271.35	230.09	10.871		
15,200.00	7,730.00	7,706.00	7,694.00	133.48	133.51	90.00	-1,434.58	4,197.76	2,577.36	2,346.08	231.28	11.144		
15,300.00	7,730.00	7,706.00	7,694.00	133.88	133.51	90.00	-1,434.58	4,197.76	2,654.88	2,422.51	232.37	11.425		
15,400.00	7,730.00	7,706.00	7,694.00	134.31	133.51	90.00	-1,434.58	4,197.76	2,733.86	2,500.49	233.38	11.714		
15,500.00	7,730.00	7,706.00	7,694.00	134.76	133.51	90.00	-1,434.58	4,197.76	2,814.18	2,579.88	234.30	12.011		
15,600.00	7,730.00	7,706.00	7,694.00	135.23	133.51	90.00	-1,434.58	4,197.76	2,895.72	2,660.58	235.14	12.315		
15,700.00	7,730.00	7,706.00	7,694.00	135.73	133.51	90.00	-1,434.58	4,197.76	2,978.39	2,742.47	235.92	12.625		
15,800.00	7,730.00	7,706.00	7,694.00	136.26	133.51	90.00	-1,434.58	4,197.76	3,062.09	2,825.46	236.63	12.940		
15,900.00	7,730.00	7,706.00	7,694.00	136.81	133.51	90.00	-1,434.58	4,197.76	3,146.74	2,909.45	237.29	13.261		
16,000.00	7,730.00	7,706.00	7,694.00	137.39	133.51	90.00	-1,434.58	4,197.76	3,232.27	2,994.37	237.90	13.587		
16,100.00	7,730.00	7,706.00	7,694.00	138.00	133.51	90.00	-1,434.58	4,197.76	3,318.61	3,080.15	238.46	13.917		
16,200.00	7,730.00	7,706.00	7,694.00	138.63	133.51	90.00	-1,434.58	4,197.76	3,405.70	3,166.72	238.98	14.251		
16,300.00	7,730.00	7,706.00	7,694.00	139.30	133.51	90.00	-1,434.58	4,197.76	3,493.48	3,254.02	239.46	14.589		
16,400.00	7,730.00	7,706.00	7,694.00	139.99	133.51	90.00	-1,434.58	4,197.76	3,581.90	3,341.99	239.91	14.930		
16,500.00	7,730.00	7,706.00	7,694.00	140.70	133.51	90.00	-1,434.58	4,197.76	3,670.91	3,430.59	240.32	15.275		
16,600.00	7,730.00	7,706.00	7,694.00	141.45	133.51	90.00	-1,434.58	4,197.76	3,760.48	3,519.77	240.71	15.623		
16,700.00	7,730.00	7,706.00	7,694.00	142.22	133.51	90.00	-1,434.58	4,197.76	3,850.56	3,609.49	241.06	15.973		
16,800.00	7,730.00	7,706.00	7,694.00	143.03	133.51	90.00	-1,434.58	4,197.76	3,941.11	3,699.72	241.40	16.326		
16,900.00	7,730.00	7,706.00	7,694.00	143.86	133.51	90.00	-1,434.58	4,197.76	4,032.12	3,790.41	241.71	16.682		
17,000.00	7,730.00	7,706.00	7,694.00	144.71	133.51	90.00	-1,434.58	4,197.76	4,123.54	3,881.54	242.00	17.039		
17,100.00	7,730.00	7,706.00	7,694.00	145.60	133.51	90.00	-1,434.58	4,197.76	4,215.35	3,973.08	242.27	17.399		
17,200.00	7,730.00	7,706.00	7,694.00	146.51	133.51	90.00	-1,434.58	4,197.76	4,307.53	4,065.00	242.53	17.761		
17,300.00	7,730.00	7,706.00	7,694.00	147.44	133.51	90.00	-1,434.58	4,197.76	4,400.04	4,157.27	242.77	18.124		
17,400.00	7,730.00	7,706.00	7,694.00	148.40	133.51	90.00	-1,434.58	4,197.76	4,492.88	4,249.89	243.00	18.490		
17,500.00	7,730.00	7,706.00	7,694.00	149.39	133.51	90.00	-1,434.58	4,197.76	4,586.02	4,342.81	243.21	18.856		
17,600.00	7,730.00	7,706.00	7,694.00	150.40	133.51	90.00	-1,434.58	4,197.76	4,679.44	4,436.03	243.41	19.225		
17,700.00	7,730.00	7,706.00	7,694.00	151.44	133.51	90.00	-1,434.58	4,197.76	4,773.13	4,529.53	243.60	19.594		
17,800.00	7,730.00	7,706.00	7,694.00	152.50	133.51	90.00	-1,434.58	4,197.76	4,867.07	4,623.30	243.77	19.965		
17,900.00	7,730.00	7,706.00	7,694.00	153.58	133.51	90.00	-1,434.58	4,197.76	4,961.25	4,717.30	243.94	20.338		
18,000.00	7,730.00	7,706.00	7,694.00	154.68	133.51	90.00	-1,434.58	4,197.76	5,055.65	4,811.54	244.10	20.711		
18,100.00	7,730.00	7,706.00	7,694.00	155.80	133.51	90.00	-1,434.58	4,197.76	5,150.26	4,906.01	244.25	21.086		
18,200.00	7,730.00	7,706.00	7,694.00	156.95	133.51	90.00	-1,434.58	4,197.76	5,245.07	5,000.67	244.40	21.461		
18,300.00	7,730.00	7,706.00	7,694.00	158.11	133.51	90.00	-1,434.58	4,197.76	5,340.07	5,095.54	244.53	21.838		
18,400.00	7,730.00	7,706.00	7,694.00	159.30	133.51	90.00	-1,434.58	4,197.76	5,435.25	5,190.59	244.66	22.215		
18,500.00	7,730.00	7,706.00	7,694.00	160.50	133.51	90.00	-1,434.58	4,197.76	5,530.60	5,285.81	244.79	22.593		
18,600.00	7,730.00	7,706.00	7,694.00	161.72	133.51	90.00	-1,434.58	4,197.76	5,626.11	5,381.21	244.91	22.972		
18,700.00	7,730.00	7,706.00	7,694.00	162.96	133.51	90.00	-1,434.58	4,197.76	5,721.78	5,476.76	245.02	23.352		
18,800.00	7,730.00	7,706.00	7,694.00	164.21	133.51	90.00	-1,434.58	4,197.76	5,817.59	5,572.46	245.13	23.733		
18,900.00	7,730.00	7,706.00	7,694.00	165.48	133.51	90.00	-1,434.58	4,197.76	5,913.54	5,668.31	245.23	24.114		
19,000.00	7,730.00	7,706.00	7,694.00	166.76	133.51	90.00	-1,434.58	4,197.76	6,009.62	5,764.29	245.33	24.496		
19,100.00	7,730.00	7,706.00	7,694.00	168.06	133.51	90.00	-1,434.58	4,197.76	6,105.83	5,860.40	245.43	24.878		
19,200.00	7,730.00	7,706.00	7,694.00	169.38	133.51	90.00	-1,434.58	4,197.76	6,202.16	5,956.64	245.52	25.262		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,706.00	7,694.00	170.70	133.51	90.00	-1,434.58	4,197.76	6,298.60	6,052.99	245.61	25.645	
19,400.00	7,730.00	7,706.00	7,694.00	172.04	133.51	90.00	-1,434.58	4,197.76	6,395.15	6,149.46	245.69	26.029	
19,500.00	7,730.00	7,706.00	7,694.00	173.40	133.51	90.00	-1,434.58	4,197.76	6,491.81	6,246.03	245.77	26.414	
19,600.00	7,730.00	7,706.00	7,694.00	174.76	133.51	90.00	-1,434.58	4,197.76	6,588.56	6,342.71	245.85	26.799	
19,700.00	7,730.00	7,706.00	7,694.00	176.14	133.51	90.00	-1,434.58	4,197.76	6,685.41	6,439.49	245.93	27.184	
19,800.00	7,730.00	7,706.00	7,694.00	177.52	133.51	90.00	-1,434.58	4,197.76	6,782.36	6,536.35	246.00	27.570	
19,900.00	7,730.00	7,706.00	7,694.00	178.92	133.51	90.00	-1,434.58	4,197.76	6,879.39	6,633.31	246.07	27.957	
20,000.00	7,730.00	7,706.00	7,694.00	180.33	133.51	90.00	-1,434.58	4,197.76	6,976.50	6,730.36	246.14	28.343	
20,100.00	7,730.00	7,706.00	7,694.00	181.75	133.51	90.00	-1,434.58	4,197.76	7,073.69	6,827.48	246.21	28.730	
20,184.95	7,730.00	7,706.00	7,694.00	182.96	133.51	90.00	-1,434.58	4,197.76	7,156.32	6,910.06	246.26	29.059	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	124.31	-3,055.61	4,478.07	5,421.43					
100.00	100.00	55.00	55.00	0.13	0.42	124.31	-3,055.61	4,478.07	5,421.25	5,420.69	0.56	9,736.482		
200.00	199.98	154.98	154.98	0.49	1.73	53.89	-3,055.61	4,478.07	5,420.22	5,418.00	2.22	2,443.673		
300.00	299.84	254.84	254.84	0.86	3.47	53.98	-3,055.61	4,478.07	5,417.13	5,412.81	4.32	1,252.825		
400.00	399.45	354.45	354.45	1.23	5.21	54.14	-3,055.61	4,478.07	5,412.00	5,405.57	6.44	840.991		
500.00	498.70	453.70	453.70	1.63	6.94	54.36	-3,055.61	4,478.07	5,404.85	5,396.29	8.55	631.875		
600.00	597.47	552.47	552.47	2.05	8.66	54.64	-3,055.61	4,478.07	5,395.69	5,385.01	10.68	505.145		
700.00	695.62	650.62	650.62	2.51	10.38	54.99	-3,055.61	4,478.07	5,384.56	5,371.74	12.82	419.975		
800.00	793.06	748.06	748.06	3.00	12.08	55.40	-3,055.61	4,478.07	5,371.49	5,356.52	14.98	358.693		
900.00	889.64	844.64	844.64	3.53	13.76	55.87	-3,055.61	4,478.07	5,356.54	5,339.39	17.15	312.408		
1,000.00	985.27	940.27	940.27	4.12	15.43	56.41	-3,055.61	4,478.07	5,339.74	5,320.41	19.34	276.157		
1,100.00	1,079.82	1,034.82	1,034.82	4.75	17.08	57.00	-3,055.61	4,478.07	5,321.17	5,299.62	21.55	246.953		
1,200.00	1,173.17	1,128.17	1,128.17	5.44	18.71	57.66	-3,055.61	4,478.07	5,300.88	5,277.10	23.78	222.892		
1,300.00	1,265.21	1,220.21	1,220.21	6.18	20.32	58.38	-3,055.61	4,478.07	5,278.95	5,252.90	26.04	202.701		
1,400.00	1,355.84	1,310.84	1,310.84	6.99	21.90	59.16	-3,055.61	4,478.07	5,255.45	5,227.12	28.33	185.499		
1,500.00	1,444.94	1,400.06	1,399.94	7.87	23.46	60.00	-3,055.61	4,478.07	5,230.47	5,199.82	30.65	170.641		
1,600.00	1,532.39	1,487.39	1,487.39	8.80	24.98	60.90	-3,055.61	4,478.07	5,204.10	5,171.10	33.00	157.703		
1,700.00	1,618.11	1,573.11	1,573.11	9.81	26.48	61.85	-3,055.61	4,478.07	5,176.43	5,141.05	35.38	146.300		
1,800.00	1,701.97	1,656.97	1,656.97	10.89	27.94	62.85	-3,055.61	4,478.07	5,147.57	5,109.77	37.80	136.180		
1,900.00	1,783.88	1,738.88	1,738.88	12.04	29.37	63.90	-3,055.61	4,478.07	5,117.63	5,077.38	40.25	127.135		
2,000.00	1,863.74	1,818.74	1,818.74	13.26	30.77	65.00	-3,055.61	4,478.07	5,086.73	5,043.98	42.74	119.003		
2,100.00	1,941.45	1,903.55	1,896.45	14.55	32.25	66.14	-3,055.61	4,478.07	5,054.97	5,009.57	45.40	111.348		
2,200.00	2,016.92	1,971.92	1,971.92	15.92	33.44	67.32	-3,055.61	4,478.07	5,022.49	4,974.65	47.84	104.980		
2,292.11	2,084.36	2,039.36	2,039.36	17.25	34.62	68.43	-3,055.61	4,478.07	4,992.05	4,941.80	50.24	99.358		
2,300.00	2,090.06	2,045.06	2,045.06	17.36	34.72	68.48	-3,055.61	4,478.07	4,989.42	4,938.97	50.45	98.897		
2,400.00	2,162.18	2,117.18	2,117.18	18.84	35.97	69.05	-3,055.61	4,478.07	4,956.56	4,903.47	53.09	93.360		
2,500.00	2,234.31	2,189.31	2,189.31	20.33	37.23	69.62	-3,055.61	4,478.07	4,924.46	4,868.70	55.76	88.319		
2,600.00	2,306.43	2,261.43	2,261.43	21.83	38.49	70.19	-3,055.61	4,478.07	4,893.13	4,834.68	58.45	83.717		
2,700.00	2,378.56	2,333.56	2,333.56	23.33	39.75	70.78	-3,055.61	4,478.07	4,862.58	4,801.42	61.16	79.503		
2,800.00	2,450.68	2,405.68	2,405.68	24.84	41.01	71.36	-3,055.61	4,478.07	4,832.83	4,768.93	63.90	75.636		
2,900.00	2,522.81	2,477.81	2,477.81	26.36	42.27	71.95	-3,055.61	4,478.07	4,803.90	4,737.25	66.65	72.078		
3,000.00	2,594.93	2,549.93	2,549.93	27.88	43.53	72.54	-3,055.61	4,478.07	4,775.79	4,706.37	69.42	68.796		
3,100.00	2,667.06	2,622.06	2,622.06	29.40	44.79	73.14	-3,055.61	4,478.07	4,748.53	4,676.33	72.21	65.763		
3,200.00	2,739.18	2,705.82	2,694.18	30.92	46.25	73.74	-3,055.61	4,478.07	4,722.13	4,646.92	75.21	62.784		
3,300.00	2,811.31	2,766.31	2,766.31	32.45	47.30	74.34	-3,055.61	4,478.07	4,696.60	4,618.78	77.83	60.347		
3,400.00	2,883.43	2,838.43	2,838.43	33.98	48.56	74.95	-3,055.61	4,478.07	4,671.96	4,591.30	80.66	57.924		
3,500.00	2,955.56	2,910.56	2,910.56	35.51	49.82	75.56	-3,055.61	4,478.07	4,648.22	4,564.72	83.50	55.668		
3,600.00	3,027.68	2,982.68	2,982.68	37.04	51.08	76.18	-3,055.61	4,478.07	4,625.40	4,539.05	86.35	53.563		
3,700.00	3,099.81	3,054.81	3,054.81	38.57	52.34	76.80	-3,055.61	4,478.07	4,603.51	4,514.29	89.22	51.599		
3,800.00	3,171.93	3,126.93	3,126.93	40.11	53.60	77.42	-3,055.61	4,478.07	4,582.55	4,490.46	92.09	49.761		
3,900.00	3,244.06	3,200.94	3,199.06	41.64	54.89	78.04	-3,055.61	4,478.07	4,562.56	4,467.55	95.01	48.024		
4,000.00	3,316.18	3,271.18	3,271.18	43.18	56.12	78.67	-3,055.61	4,478.07	4,543.53	4,445.67	97.86	46.429		
4,100.00	3,388.31	3,343.31	3,343.31	44.71	57.37	79.30	-3,055.61	4,478.07	4,525.48	4,424.73	100.75	44.916		
4,200.00	3,460.43	3,415.43	3,415.43	46.25	58.63	79.93	-3,055.61	4,478.07	4,508.43	4,404.77	103.65	43.495		
4,300.00	3,532.56	3,487.56	3,487.56	47.79	59.89	80.57	-3,055.61	4,478.07	4,492.37	4,385.82	106.56	42.160		
4,400.00	3,604.68	3,559.68	3,559.68	49.33	61.15	81.21	-3,055.61	4,478.07	4,477.34	4,367.87	109.46	40.903		
4,500.00	3,676.81	3,631.81	3,631.81	50.87	62.41	81.85	-3,055.61	4,478.07	4,463.32	4,350.95	112.37	39.721		
4,600.00	3,748.93	3,703.93	3,703.93	52.41	63.67	82.49	-3,055.61	4,478.07	4,450.34	4,335.07	115.27	38.607		
4,700.00	3,821.06	3,776.06	3,776.06	53.95	64.93	83.13	-3,055.61	4,478.07	4,438.41	4,320.23	118.18	37.557		
4,800.00	3,893.18	3,848.18	3,848.18	55.49	66.19	83.78	-3,055.61	4,478.07	4,427.52	4,306.44	121.08	36.567		
4,900.00	3,965.31	3,920.31	3,920.31	57.03	67.44	84.42	-3,055.61	4,478.07	4,417.70	4,293.72	123.98	35.632		
5,000.00	4,037.43	4,007.57	3,992.43	58.58	68.97	85.07	-3,055.61	4,478.07	4,408.94	4,281.80	127.14	34.679		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,064.56	4,064.56	60.12	69.96	85.72	-3,055.61	4,478.07	4,401.25	4,271.49	129.76	33.918		
5,200.00	4,181.68	4,136.68	4,136.68	61.66	71.22	86.37	-3,055.61	4,478.07	4,394.64	4,262.00	132.64	33.132		
5,300.00	4,253.81	4,208.81	4,208.81	63.20	72.48	87.02	-3,055.61	4,478.07	4,389.12	4,253.61	135.51	32.389		
5,400.00	4,325.93	4,280.93	4,280.93	64.75	73.74	87.68	-3,055.61	4,478.07	4,384.68	4,246.31	138.37	31.687		
5,500.00	4,398.06	4,353.06	4,353.06	66.29	75.00	88.33	-3,055.61	4,478.07	4,381.34	4,240.11	141.22	31.024		
5,600.00	4,470.18	4,425.18	4,425.18	67.84	76.26	88.98	-3,055.61	4,478.07	4,379.08	4,235.02	144.06	30.397		
5,700.00	4,542.31	4,502.69	4,497.31	69.38	77.61	89.64	-3,055.61	4,478.07	4,377.93	4,230.94	146.98	29.786		
5,755.67	4,582.46	4,537.46	4,537.46	70.24	78.22	90.00	-3,055.61	4,478.07	4,377.76	4,229.30	148.45	29.489		
5,800.00	4,614.43	4,569.43	4,569.43	70.92	78.77	90.29	-3,055.61	4,478.07	4,377.86	4,228.17	149.70	29.245		
5,900.00	4,686.56	4,641.56	4,641.56	72.47	80.03	90.94	-3,055.61	4,478.07	4,378.90	4,226.40	152.49	28.716		
6,000.00	4,758.68	4,713.68	4,713.68	74.01	81.29	91.60	-3,055.61	4,478.07	4,381.03	4,225.76	155.27	28.216		
6,100.00	4,830.81	4,785.81	4,785.81	75.56	82.55	92.25	-3,055.61	4,478.07	4,384.25	4,226.22	158.03	27.743		
6,200.00	4,902.93	4,857.93	4,857.93	77.10	83.81	92.90	-3,055.61	4,478.07	4,388.56	4,227.79	160.77	27.297		
6,300.00	4,975.06	4,930.06	4,930.06	78.65	85.07	93.55	-3,055.61	4,478.07	4,393.96	4,230.47	163.49	26.875		
6,400.00	5,047.18	5,002.18	5,002.18	80.19	86.33	94.21	-3,055.61	4,478.07	4,400.45	4,234.25	166.20	26.478		
6,500.00	5,119.31	5,074.31	5,074.31	81.74	87.59	94.86	-3,055.61	4,478.07	4,408.01	4,239.14	168.88	26.102		
6,600.00	5,191.43	5,146.43	5,146.43	83.28	88.84	95.50	-3,055.61	4,478.07	4,416.65	4,245.12	171.53	25.748		
6,700.00	5,263.56	5,218.56	5,218.56	84.83	90.10	96.15	-3,055.61	4,478.07	4,426.35	4,252.18	174.17	25.414		
6,800.00	5,335.68	5,309.32	5,290.68	86.37	91.69	96.80	-3,055.61	4,478.07	4,437.12	4,260.01	177.11	25.053		
6,900.00	5,407.81	5,362.81	5,362.81	87.92	92.62	97.44	-3,055.61	4,478.07	4,448.94	4,269.57	179.37	24.803		
7,000.00	5,479.93	5,434.93	5,434.93	89.47	93.88	98.08	-3,055.61	4,478.07	4,461.80	4,279.86	181.94	24.524		
7,100.00	5,552.06	5,507.06	5,507.06	91.01	95.14	98.72	-3,055.61	4,478.07	4,475.70	4,291.22	184.47	24.262		
7,200.00	5,624.18	5,579.18	5,579.18	92.56	96.40	99.36	-3,055.61	4,478.07	4,490.62	4,303.63	186.99	24.015		
7,300.00	5,696.31	5,651.31	5,651.31	94.10	97.66	100.00	-3,055.61	4,478.07	4,506.56	4,317.08	189.48	23.784		
7,400.00	5,768.43	5,723.43	5,723.43	95.65	98.92	100.63	-3,055.61	4,478.07	4,523.50	4,331.56	191.94	23.567		
7,500.00	5,840.56	5,804.44	5,795.56	97.20	100.33	101.26	-3,055.61	4,478.07	4,541.43	4,346.90	194.53	23.345		
7,600.00	5,912.68	5,867.68	5,867.68	98.74	101.43	101.89	-3,055.61	4,478.07	4,560.35	4,363.56	196.79	23.174		
7,700.00	5,984.81	5,939.81	5,939.81	100.29	102.69	102.51	-3,055.61	4,478.07	4,580.24	4,381.06	199.18	22.996		
7,800.00	6,056.93	6,011.93	6,011.93	101.84	103.95	103.13	-3,055.61	4,478.07	4,601.08	4,399.55	201.54	22.830		
7,900.00	6,129.06	6,084.06	6,084.06	103.38	105.21	103.75	-3,055.61	4,478.07	4,622.87	4,419.00	203.87	22.676		
8,000.00	6,201.18	6,156.18	6,156.18	104.93	106.47	104.37	-3,055.61	4,478.07	4,645.59	4,439.41	206.18	22.532		
8,100.00	6,273.31	6,228.31	6,228.31	106.48	107.73	104.98	-3,055.61	4,478.07	4,669.23	4,460.77	208.46	22.399		
8,200.00	6,345.43	6,300.43	6,300.43	108.02	108.99	105.59	-3,055.61	4,478.07	4,693.76	4,483.05	210.71	22.276		
8,300.00	6,417.56	6,372.56	6,372.56	109.57	110.24	106.19	-3,055.61	4,478.07	4,719.19	4,506.25	212.94	22.162		
8,400.00	6,489.68	6,444.68	6,444.68	111.12	111.50	106.79	-3,055.61	4,478.07	4,745.50	4,530.35	215.15	22.057		
8,500.00	6,561.81	6,516.81	6,516.81	112.66	112.76	107.39	-3,055.61	4,478.07	4,772.66	4,555.33	217.33	21.961		
8,600.00	6,633.93	6,588.93	6,588.93	114.21	114.02	107.98	-3,055.61	4,478.07	4,800.67	4,581.18	219.48	21.872		
8,700.00	6,706.06	6,661.06	6,661.06	115.76	115.28	108.57	-3,055.61	4,478.07	4,829.51	4,607.89	221.62	21.792		
8,800.00	6,778.18	6,733.18	6,733.18	117.30	116.54	109.16	-3,055.61	4,478.07	4,859.17	4,635.44	223.72	21.719		
8,900.00	6,850.31	6,805.31	6,805.31	118.85	117.80	109.74	-3,055.61	4,478.07	4,889.62	4,663.82	225.81	21.654		
9,000.00	6,922.43	6,877.43	6,877.43	120.40	119.06	110.32	-3,055.61	4,478.07	4,920.87	4,693.00	227.87	21.595		
9,100.00	6,994.56	6,949.56	6,949.56	121.95	120.32	110.89	-3,055.61	4,478.07	4,952.89	4,722.98	229.91	21.543		
9,200.00	7,066.68	7,021.68	7,021.68	123.49	121.57	111.46	-3,055.61	4,478.07	4,985.66	4,753.73	231.93	21.497		
9,300.00	7,138.81	7,106.19	7,093.81	125.04	123.05	112.02	-3,055.61	4,478.07	5,019.17	4,785.04	234.14	21.437		
9,392.50	7,205.52	7,160.52	7,160.52	126.47	124.00	112.54	-3,055.61	4,478.07	5,050.82	4,815.07	235.75	21.425		
9,400.00	7,210.94	7,165.94	7,165.94	126.59	124.09	111.78	-3,055.61	4,478.07	5,053.37	4,817.47	235.90	21.422		
9,450.00	7,247.42	7,202.42	7,202.42	127.35	124.73	106.61	-3,055.61	4,478.07	5,068.10	4,831.21	236.89	21.394		
9,500.00	7,284.35	7,239.35	7,239.35	128.10	125.37	101.29	-3,055.61	4,478.07	5,078.85	4,840.94	237.91	21.348		
9,550.00	7,321.43	7,276.43	7,276.43	128.83	126.02	95.95	-3,055.61	4,478.07	5,085.55	4,846.62	238.93	21.284		
9,600.00	7,358.38	7,313.38	7,313.38	129.52	126.67	90.73	-3,055.61	4,478.07	5,088.18	4,848.23	239.95	21.205		
9,650.00	7,394.93	7,349.93	7,349.93	130.16	127.30	85.77	-3,055.61	4,478.07	5,086.72	4,845.77	240.95	21.111		
9,700.00	7,430.79	7,385.79	7,385.79	130.76	127.93	81.18	-3,055.61	4,478.07	5,081.20	4,839.27	241.93	21.003		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,420.70	7,420.70	131.30	128.54	77.06	-3,055.61	4,478.07	5,071.65	4,828.79	242.87	20.882		
9,800.00	7,499.38	7,454.38	7,454.38	131.78	129.13	73.45	-3,055.61	4,478.07	5,058.16	4,814.40	243.76	20.751		
9,850.00	7,531.58	7,486.58	7,486.58	132.21	129.69	70.38	-3,055.61	4,478.07	5,040.82	4,796.22	244.60	20.608		
9,900.00	7,562.06	7,517.06	7,517.06	132.57	130.22	67.86	-3,055.61	4,478.07	5,019.75	4,774.37	245.38	20.457		
9,950.00	7,590.58	7,545.58	7,545.58	132.87	130.72	65.90	-3,055.61	4,478.07	4,995.10	4,749.01	246.09	20.298		
10,000.00	7,616.93	7,571.93	7,571.93	133.11	131.18	64.50	-3,055.61	4,478.07	4,967.05	4,720.32	246.73	20.132		
10,050.00	7,640.90	7,604.10	7,595.90	133.29	131.74	63.67	-3,055.61	4,478.07	4,935.78	4,688.35	247.44	19.948		
10,100.00	7,662.32	7,617.32	7,617.32	133.42	131.97	63.46	-3,055.61	4,478.07	4,901.52	4,653.74	247.78	19.782		
10,150.00	7,681.01	7,636.01	7,636.01	133.50	132.30	63.91	-3,055.61	4,478.07	4,864.50	4,616.30	248.19	19.600		
10,200.00	7,696.85	7,651.85	7,651.85	133.52	132.57	65.15	-3,055.61	4,478.07	4,824.96	4,576.44	248.52	19.415		
10,250.00	7,709.70	7,664.70	7,664.70	133.51	132.80	67.36	-3,055.61	4,478.07	4,783.19	4,534.41	248.78	19.227		
10,300.00	7,719.47	7,674.47	7,674.47	133.46	132.97	70.85	-3,055.61	4,478.07	4,739.47	4,490.51	248.96	19.037		
10,350.00	7,726.09	7,681.09	7,681.09	133.37	133.08	76.12	-3,055.61	4,478.07	4,694.10	4,445.03	249.07	18.847		
10,400.00	7,729.50	7,684.50	7,684.50	133.26	133.14	84.02	-3,055.61	4,478.07	4,647.40	4,398.30	249.11	18.656		
10,427.79	7,730.00	7,685.00	7,685.00	133.18	133.15	90.00	-3,055.61	4,478.07	4,620.99	4,371.89	249.10	18.551		
10,500.00	7,730.00	7,685.00	7,685.00	132.98	133.15	90.00	-3,055.61	4,478.07	4,552.06	4,303.00	249.06	18.277		
10,600.00	7,730.00	7,685.00	7,685.00	132.72	133.15	90.00	-3,055.61	4,478.07	4,456.77	4,207.78	249.00	17.899		
10,700.00	7,730.00	7,685.00	7,685.00	132.47	133.15	90.00	-3,055.61	4,478.07	4,361.70	4,112.77	248.93	17.522		
10,800.00	7,730.00	7,685.00	7,685.00	132.22	133.15	90.00	-3,055.61	4,478.07	4,266.85	4,017.99	248.86	17.146		
10,900.00	7,730.00	7,685.00	7,685.00	131.99	133.15	90.00	-3,055.61	4,478.07	4,172.24	3,923.46	248.78	16.771		
11,000.00	7,730.00	7,685.00	7,685.00	131.77	133.15	90.00	-3,055.61	4,478.07	4,077.89	3,829.20	248.69	16.397		
11,100.00	7,730.00	7,685.00	7,685.00	131.56	133.15	90.00	-3,055.61	4,478.07	3,983.81	3,735.22	248.60	16.025		
11,200.00	7,730.00	7,685.00	7,685.00	131.36	133.15	90.00	-3,055.61	4,478.07	3,890.03	3,641.54	248.49	15.655		
11,300.00	7,730.00	7,685.00	7,685.00	131.17	133.15	90.00	-3,055.61	4,478.07	3,796.57	3,548.19	248.38	15.286		
11,400.00	7,730.00	7,685.00	7,685.00	130.99	133.15	90.00	-3,055.61	4,478.07	3,703.44	3,455.19	248.25	14.918		
11,500.00	7,730.00	7,685.00	7,685.00	130.82	133.15	90.00	-3,055.61	4,478.07	3,610.69	3,362.58	248.11	14.553		
11,600.00	7,730.00	7,685.00	7,685.00	130.66	133.15	90.00	-3,055.61	4,478.07	3,518.33	3,270.37	247.96	14.189		
11,700.00	7,730.00	7,685.00	7,685.00	130.51	133.15	90.00	-3,055.61	4,478.07	3,426.40	3,178.61	247.79	13.828		
11,800.00	7,730.00	7,685.00	7,685.00	130.37	133.15	90.00	-3,055.61	4,478.07	3,334.94	3,087.33	247.61	13.469		
11,900.00	7,730.00	7,685.00	7,685.00	130.24	133.15	90.00	-3,055.61	4,478.07	3,243.98	2,996.58	247.40	13.112		
12,000.00	7,730.00	7,685.00	7,685.00	130.13	133.15	90.00	-3,055.61	4,478.07	3,153.57	2,906.39	247.17	12.758		
12,100.00	7,730.00	7,685.00	7,685.00	130.02	133.15	90.00	-3,055.61	4,478.07	3,063.75	2,816.83	246.92	12.408		
12,200.00	7,730.00	7,685.00	7,685.00	129.93	133.15	90.00	-3,055.61	4,478.07	2,974.59	2,727.94	246.64	12.060		
12,300.00	7,730.00	7,685.00	7,685.00	129.85	133.15	90.00	-3,055.61	4,478.07	2,886.13	2,639.80	246.33	11.716		
12,400.00	7,730.00	7,685.00	7,685.00	129.77	133.15	90.00	-3,055.61	4,478.07	2,798.45	2,552.47	245.99	11.376		
12,500.00	7,730.00	7,685.00	7,685.00	129.71	133.15	90.00	-3,055.61	4,478.07	2,711.63	2,466.03	245.60	11.041		
12,600.00	7,730.00	7,685.00	7,685.00	129.66	133.15	90.00	-3,055.61	4,478.07	2,625.74	2,380.57	245.17	10.710		
12,700.00	7,730.00	7,685.00	7,685.00	129.63	133.15	90.00	-3,055.61	4,478.07	2,540.88	2,296.20	244.69	10.384		
12,800.00	7,730.00	7,685.00	7,685.00	129.60	133.15	90.00	-3,055.61	4,478.07	2,457.17	2,213.02	244.14	10.064		
12,900.00	7,730.00	7,685.00	7,685.00	129.59	133.15	90.00	-3,055.61	4,478.07	2,374.71	2,131.17	243.54	9.751		
13,000.00	7,730.00	7,685.00	7,685.00	129.59	133.15	90.00	-3,055.61	4,478.07	2,293.65	2,050.79	242.86	9.444		
13,100.00	7,730.00	7,685.00	7,685.00	129.60	133.15	90.00	-3,055.61	4,478.07	2,214.14	1,972.04	242.10	9.146		
13,200.00	7,730.00	7,685.00	7,685.00	129.63	133.15	90.00	-3,055.61	4,478.07	2,136.35	1,895.11	241.24	8.856		
13,300.00	7,730.00	7,685.00	7,685.00	129.66	133.15	90.00	-3,055.61	4,478.07	2,060.48	1,820.20	240.28	8.575		
13,400.00	7,730.00	7,685.00	7,685.00	129.72	133.15	90.00	-3,055.61	4,478.07	1,986.75	1,747.54	239.20	8.306		
13,500.00	7,730.00	7,685.00	7,685.00	129.78	133.15	90.00	-3,055.61	4,478.07	1,915.40	1,677.40	238.00	8.048		
13,600.00	7,730.00	7,685.00	7,685.00	129.86	133.15	90.00	-3,055.61	4,478.07	1,846.71	1,610.06	236.65	7.804		
13,700.00	7,730.00	7,685.00	7,685.00	129.96	133.15	90.00	-3,055.61	4,478.07	1,780.99	1,545.84	235.15	7.574		
13,800.00	7,730.00	7,685.00	7,685.00	130.07	133.15	90.00	-3,055.61	4,478.07	1,718.57	1,485.09	233.48	7.361		
13,900.00	7,730.00	7,685.00	7,685.00	130.19	133.15	90.00	-3,055.61	4,478.07	1,659.84	1,428.19	231.66	7.165		
14,000.00	7,730.00	7,685.00	7,685.00	130.33	133.15	90.00	-3,055.61	4,478.07	1,605.20	1,375.53	229.67	6.989		
14,100.00	7,730.00	7,685.00	7,685.00	130.49	133.15	90.00	-3,055.61	4,478.07	1,555.07	1,327.55	227.52	6.835		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,685.00	7,685.00	130.67	133.15	90.00	-3,055.61	4,478.07	1,509.91	1,284.66	225.25	6.703		
14,300.00	7,730.00	7,685.00	7,685.00	130.86	133.15	90.00	-3,055.61	4,478.07	1,470.17	1,247.28	222.89	6.596		
14,400.00	7,730.00	7,685.00	7,685.00	131.07	133.15	90.00	-3,055.61	4,478.07	1,436.31	1,215.81	220.50	6.514		
14,500.00	7,730.00	7,685.00	7,685.00	131.30	133.15	90.00	-3,055.61	4,478.07	1,408.75	1,190.59	218.16	6.457		
14,600.00	7,730.00	7,685.00	7,685.00	131.55	133.15	90.00	-3,055.61	4,478.07	1,387.86	1,171.89	215.97	6.426		
14,700.00	7,730.00	7,685.00	7,685.00	131.82	133.15	90.00	-3,055.61	4,478.07	1,373.95	1,159.92	214.03	6.420 SF		
14,800.00	7,730.00	7,685.00	7,685.00	132.11	133.15	90.00	-3,055.61	4,478.07	1,367.23	1,154.80	212.44	6.436		
14,842.08	7,730.00	7,685.00	7,685.00	132.24	133.15	90.00	-3,055.61	4,478.07	1,366.59	1,154.69	211.90	6.449 CC, ES		
14,900.00	7,730.00	7,685.00	7,685.00	132.42	133.15	90.00	-3,055.61	4,478.07	1,367.81	1,156.53	211.28	6.474		
15,000.00	7,730.00	7,685.00	7,685.00	132.75	133.15	90.00	-3,055.61	4,478.07	1,375.68	1,165.05	210.63	6.531		
15,100.00	7,730.00	7,685.00	7,685.00	133.10	133.15	90.00	-3,055.61	4,478.07	1,390.71	1,180.23	210.48	6.607		
15,200.00	7,730.00	7,685.00	7,685.00	133.48	133.15	90.00	-3,055.61	4,478.07	1,412.68	1,201.86	210.82	6.701		
15,300.00	7,730.00	7,685.00	7,685.00	133.88	133.15	90.00	-3,055.61	4,478.07	1,441.26	1,229.68	211.58	6.812		
15,400.00	7,730.00	7,685.00	7,685.00	134.31	133.15	90.00	-3,055.61	4,478.07	1,476.08	1,263.39	212.70	6.940		
15,500.00	7,730.00	7,685.00	7,685.00	134.76	133.15	90.00	-3,055.61	4,478.07	1,516.71	1,302.64	214.07	7.085		
15,600.00	7,730.00	7,685.00	7,685.00	135.23	133.15	90.00	-3,055.61	4,478.07	1,562.69	1,347.07	215.62	7.247		
15,700.00	7,730.00	7,685.00	7,685.00	135.73	133.15	90.00	-3,055.61	4,478.07	1,613.56	1,396.29	217.27	7.427		
15,800.00	7,730.00	7,685.00	7,685.00	136.26	133.15	90.00	-3,055.61	4,478.07	1,668.88	1,449.93	218.95	7.622		
15,900.00	7,730.00	7,685.00	7,685.00	136.81	133.15	90.00	-3,055.61	4,478.07	1,728.22	1,507.60	220.62	7.833		
16,000.00	7,730.00	7,685.00	7,685.00	137.39	133.15	90.00	-3,055.61	4,478.07	1,791.18	1,568.93	222.25	8.059		
16,100.00	7,730.00	7,685.00	7,685.00	138.00	133.15	90.00	-3,055.61	4,478.07	1,857.39	1,633.58	223.82	8.299		
16,200.00	7,730.00	7,685.00	7,685.00	138.63	133.15	90.00	-3,055.61	4,478.07	1,926.52	1,701.22	225.30	8.551		
16,300.00	7,730.00	7,685.00	7,685.00	139.30	133.15	90.00	-3,055.61	4,478.07	1,998.27	1,771.57	226.70	8.815		
16,400.00	7,730.00	7,685.00	7,685.00	139.99	133.15	90.00	-3,055.61	4,478.07	2,072.36	1,844.36	228.00	9.089		
16,500.00	7,730.00	7,685.00	7,685.00	140.70	133.15	90.00	-3,055.61	4,478.07	2,148.54	1,919.33	229.22	9.373		
16,600.00	7,730.00	7,685.00	7,685.00	141.45	133.15	90.00	-3,055.61	4,478.07	2,226.62	1,996.27	230.35	9.666		
16,700.00	7,730.00	7,685.00	7,685.00	142.22	133.15	90.00	-3,055.61	4,478.07	2,306.38	2,074.99	231.39	9.967		
16,800.00	7,730.00	7,685.00	7,685.00	143.03	133.15	90.00	-3,055.61	4,478.07	2,387.67	2,155.31	232.36	10.276		
16,900.00	7,730.00	7,685.00	7,685.00	143.86	133.15	90.00	-3,055.61	4,478.07	2,470.34	2,237.08	233.26	10.590		
17,000.00	7,730.00	7,685.00	7,685.00	144.71	133.15	90.00	-3,055.61	4,478.07	2,554.24	2,320.15	234.09	10.911		
17,100.00	7,730.00	7,685.00	7,685.00	145.60	133.15	90.00	-3,055.61	4,478.07	2,639.27	2,404.40	234.86	11.237		
17,200.00	7,730.00	7,685.00	7,685.00	146.51	133.15	90.00	-3,055.61	4,478.07	2,725.31	2,489.73	235.58	11.569		
17,300.00	7,730.00	7,685.00	7,685.00	147.44	133.15	90.00	-3,055.61	4,478.07	2,812.28	2,576.04	236.24	11.904		
17,400.00	7,730.00	7,685.00	7,685.00	148.40	133.15	90.00	-3,055.61	4,478.07	2,900.08	2,663.23	236.86	12.244		
17,500.00	7,730.00	7,685.00	7,685.00	149.39	133.15	90.00	-3,055.61	4,478.07	2,988.66	2,751.23	237.43	12.588		
17,600.00	7,730.00	7,685.00	7,685.00	150.40	133.15	90.00	-3,055.61	4,478.07	3,077.93	2,839.97	237.96	12.934		
17,700.00	7,730.00	7,685.00	7,685.00	151.44	133.15	90.00	-3,055.61	4,478.07	3,167.84	2,929.38	238.46	13.285		
17,800.00	7,730.00	7,685.00	7,685.00	152.50	133.15	90.00	-3,055.61	4,478.07	3,258.35	3,019.42	238.93	13.638		
17,900.00	7,730.00	7,685.00	7,685.00	153.58	133.15	90.00	-3,055.61	4,478.07	3,349.39	3,110.03	239.36	13.993		
18,000.00	7,730.00	7,685.00	7,685.00	154.68	133.15	90.00	-3,055.61	4,478.07	3,440.93	3,201.16	239.77	14.351		
18,100.00	7,730.00	7,685.00	7,685.00	155.80	133.15	90.00	-3,055.61	4,478.07	3,532.93	3,292.78	240.15	14.711		
18,200.00	7,730.00	7,685.00	7,685.00	156.95	133.15	90.00	-3,055.61	4,478.07	3,625.35	3,384.84	240.51	15.074		
18,300.00	7,730.00	7,685.00	7,685.00	158.11	133.15	90.00	-3,055.61	4,478.07	3,718.16	3,477.32	240.85	15.438		
18,400.00	7,730.00	7,685.00	7,685.00	159.30	133.15	90.00	-3,055.61	4,478.07	3,811.34	3,570.18	241.16	15.804		
18,500.00	7,730.00	7,685.00	7,685.00	160.50	133.15	90.00	-3,055.61	4,478.07	3,904.86	3,663.39	241.46	16.172		
18,600.00	7,730.00	7,685.00	7,685.00	161.72	133.15	90.00	-3,055.61	4,478.07	3,998.69	3,756.94	241.75	16.541		
18,700.00	7,730.00	7,685.00	7,685.00	162.96	133.15	90.00	-3,055.61	4,478.07	4,092.81	3,850.79	242.02	16.911		
18,800.00	7,730.00	7,685.00	7,685.00	164.21	133.15	90.00	-3,055.61	4,478.07	4,187.20	3,944.93	242.27	17.283		
18,900.00	7,730.00	7,685.00	7,685.00	165.48	133.15	90.00	-3,055.61	4,478.07	4,281.85	4,039.34	242.51	17.656		
19,000.00	7,730.00	7,685.00	7,685.00	166.76	133.15	90.00	-3,055.61	4,478.07	4,376.74	4,134.00	242.74	18.031		
19,100.00	7,730.00	7,685.00	7,685.00	168.06	133.15	90.00	-3,055.61	4,478.07	4,471.85	4,228.89	242.96	18.406		
19,200.00	7,730.00	7,685.00	7,685.00	169.38	133.15	90.00	-3,055.61	4,478.07	4,567.16	4,324.00	243.17	18.782		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,685.00	7,685.00	170.70	133.15	90.00	-3,055.61	4,478.07	4,662.68	4,419.31	243.36	19.159	
19,400.00	7,730.00	7,685.00	7,685.00	172.04	133.15	90.00	-3,055.61	4,478.07	4,758.38	4,514.82	243.55	19.537	
19,500.00	7,730.00	7,685.00	7,685.00	173.40	133.15	90.00	-3,055.61	4,478.07	4,854.25	4,610.51	243.74	19.916	
19,600.00	7,730.00	7,685.00	7,685.00	174.76	133.15	90.00	-3,055.61	4,478.07	4,950.29	4,706.38	243.91	20.296	
19,700.00	7,730.00	7,685.00	7,685.00	176.14	133.15	90.00	-3,055.61	4,478.07	5,046.47	4,802.40	244.08	20.676	
19,800.00	7,730.00	7,685.00	7,685.00	177.52	133.15	90.00	-3,055.61	4,478.07	5,142.81	4,898.57	244.23	21.057	
19,900.00	7,730.00	7,685.00	7,685.00	178.92	133.15	90.00	-3,055.61	4,478.07	5,239.28	4,994.89	244.39	21.438	
20,000.00	7,730.00	7,685.00	7,685.00	180.33	133.15	90.00	-3,055.61	4,478.07	5,335.88	5,091.35	244.54	21.821	
20,100.00	7,730.00	7,685.00	7,685.00	181.75	133.15	90.00	-3,055.61	4,478.07	5,432.61	5,187.93	244.68	22.203	
20,184.95	7,730.00	7,685.00	7,685.00	182.96	133.15	90.00	-3,055.61	4,478.07	5,514.87	5,270.08	244.79	22.529	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	105.20	-1,579.97	5,813.50	6,024.61					
100.00	100.00	47.00	47.00	0.13	0.36	105.20	-1,579.97	5,813.50	6,024.38	6,023.88	0.50	N/A		
200.00	199.98	146.98	146.98	0.49	1.59	34.78	-1,579.97	5,813.50	6,022.94	6,020.87	2.08	2,896.843		
300.00	299.84	246.84	246.84	0.86	3.33	34.85	-1,579.97	5,813.50	6,018.65	6,014.46	4.19	1,437.768		
400.00	399.45	346.45	346.45	1.23	5.07	34.98	-1,579.97	5,813.50	6,011.49	6,005.20	6.29	955.033		
500.00	498.70	445.70	445.70	1.63	6.80	35.17	-1,579.97	5,813.50	6,001.49	5,993.09	8.40	714.108		
600.00	597.47	544.47	544.47	2.05	8.53	35.40	-1,579.97	5,813.50	5,988.67	5,978.15	10.52	569.512		
700.00	695.62	642.62	642.62	2.51	10.24	35.69	-1,579.97	5,813.50	5,973.05	5,960.42	12.63	472.966		
800.00	793.06	740.06	740.06	3.00	11.94	36.04	-1,579.97	5,813.50	5,954.66	5,939.91	14.75	403.835		
900.00	889.64	836.64	836.64	3.53	13.62	36.44	-1,579.97	5,813.50	5,933.53	5,916.67	16.87	351.820		
1,000.00	985.27	932.27	932.27	4.12	15.29	36.90	-1,579.97	5,813.50	5,909.71	5,890.72	18.99	311.208		
1,100.00	1,079.82	1,026.82	1,026.82	4.75	16.94	37.41	-1,579.97	5,813.50	5,883.25	5,862.13	21.12	278.574		
1,200.00	1,173.17	1,120.17	1,120.17	5.44	18.57	38.00	-1,579.97	5,813.50	5,854.19	5,830.93	23.25	251.741		
1,300.00	1,265.21	1,212.21	1,212.21	6.18	20.18	38.64	-1,579.97	5,813.50	5,822.59	5,797.19	25.40	229.258		
1,400.00	1,355.84	1,302.84	1,302.84	6.99	21.76	39.35	-1,579.97	5,813.50	5,788.52	5,760.97	27.55	210.123		
1,500.00	1,444.94	1,408.06	1,391.94	7.87	23.60	40.12	-1,579.97	5,813.50	5,752.03	5,722.04	29.99	191.802		
1,600.00	1,532.39	1,479.39	1,479.39	8.80	24.84	40.97	-1,579.97	5,813.50	5,713.22	5,681.34	31.88	179.222		
1,700.00	1,618.11	1,565.11	1,565.11	9.81	26.34	41.89	-1,579.97	5,813.50	5,672.14	5,638.08	34.06	166.537		
1,800.00	1,701.97	1,648.97	1,648.97	10.89	27.80	42.88	-1,579.97	5,813.50	5,628.89	5,592.64	36.25	155.266		
1,900.00	1,783.88	1,730.88	1,730.88	12.04	29.23	43.95	-1,579.97	5,813.50	5,583.55	5,545.09	38.46	145.175		
2,000.00	1,863.74	1,810.74	1,810.74	13.26	30.63	45.10	-1,579.97	5,813.50	5,536.23	5,495.54	40.68	136.079		
2,100.00	1,941.45	1,888.45	1,888.45	14.55	31.98	46.33	-1,579.97	5,813.50	5,487.00	5,444.08	42.92	127.833		
2,200.00	2,016.92	1,963.92	1,963.92	15.92	33.30	47.64	-1,579.97	5,813.50	5,435.99	5,390.81	45.18	120.317		
2,292.11	2,084.36	2,031.36	2,031.36	17.25	34.48	48.91	-1,579.97	5,813.50	5,387.52	5,340.24	47.28	113.957		
2,300.00	2,090.06	2,037.06	2,037.06	17.36	34.58	48.95	-1,579.97	5,813.50	5,383.30	5,335.84	47.46	113.431		
2,400.00	2,162.18	2,109.18	2,109.18	18.84	35.83	49.43	-1,579.97	5,813.50	5,330.14	5,280.38	49.76	107.122		
2,500.00	2,234.31	2,181.31	2,181.31	20.33	37.09	49.91	-1,579.97	5,813.50	5,277.35	5,225.27	52.09	101.320		
2,600.00	2,306.43	2,253.43	2,253.43	21.83	38.35	50.41	-1,579.97	5,813.50	5,224.95	5,170.51	54.44	95.972		
2,700.00	2,378.56	2,325.56	2,325.56	23.33	39.61	50.90	-1,579.97	5,813.50	5,172.94	5,116.12	56.83	91.031		
2,800.00	2,450.68	2,402.32	2,397.68	24.84	40.95	51.41	-1,579.97	5,813.50	5,121.35	5,062.03	59.32	86.339		
2,900.00	2,522.81	2,469.81	2,469.81	26.36	42.13	51.92	-1,579.97	5,813.50	5,070.17	5,008.50	61.67	82.213		
3,000.00	2,594.93	2,541.93	2,541.93	27.88	43.39	52.44	-1,579.97	5,813.50	5,019.43	4,955.30	64.13	78.267		
3,100.00	2,667.06	2,614.06	2,614.06	29.40	44.65	52.97	-1,579.97	5,813.50	4,969.13	4,902.52	66.62	74.592		
3,200.00	2,739.18	2,686.18	2,686.18	30.92	45.91	53.50	-1,579.97	5,813.50	4,919.30	4,850.17	69.13	71.163		
3,300.00	2,811.31	2,758.31	2,758.31	32.45	47.16	54.05	-1,579.97	5,813.50	4,869.94	4,798.28	71.66	67.957		
3,400.00	2,883.43	2,830.43	2,830.43	33.98	48.42	54.60	-1,579.97	5,813.50	4,821.07	4,746.85	74.22	64.956		
3,500.00	2,955.56	2,902.56	2,902.56	35.51	49.68	55.15	-1,579.97	5,813.50	4,772.71	4,695.90	76.80	62.141		
3,600.00	3,027.68	2,974.68	2,974.68	37.04	50.94	55.72	-1,579.97	5,813.50	4,724.87	4,645.45	79.41	59.498		
3,700.00	3,099.81	3,046.81	3,046.81	38.57	52.20	56.29	-1,579.97	5,813.50	4,677.56	4,595.52	82.04	57.013		
3,800.00	3,171.93	3,118.93	3,118.93	40.11	53.46	56.87	-1,579.97	5,813.50	4,630.81	4,546.10	84.70	54.672		
3,900.00	3,244.06	3,208.94	3,191.06	41.64	55.03	57.46	-1,579.97	5,813.50	4,584.62	4,496.93	87.69	52.279		
4,000.00	3,316.18	3,263.18	3,263.18	43.18	55.98	58.06	-1,579.97	5,813.50	4,539.02	4,448.94	90.09	50.384		
4,100.00	3,388.31	3,335.31	3,335.31	44.71	57.23	58.66	-1,579.97	5,813.50	4,494.03	4,401.21	92.82	48.417		
4,200.00	3,460.43	3,407.43	3,407.43	46.25	58.49	59.27	-1,579.97	5,813.50	4,449.66	4,354.09	95.57	46.558		
4,300.00	3,532.56	3,479.56	3,479.56	47.79	59.75	59.89	-1,579.97	5,813.50	4,405.94	4,307.59	98.35	44.797		
4,400.00	3,604.68	3,551.68	3,551.68	49.33	61.01	60.52	-1,579.97	5,813.50	4,362.87	4,261.72	101.16	43.130		
4,500.00	3,676.81	3,623.81	3,623.81	50.87	62.27	61.16	-1,579.97	5,813.50	4,320.49	4,216.51	103.98	41.550		
4,600.00	3,748.93	3,704.07	3,695.93	52.41	63.67	61.80	-1,579.97	5,813.50	4,278.81	4,171.83	106.98	39.997		
4,700.00	3,821.06	3,768.06	3,768.06	53.95	64.79	62.45	-1,579.97	5,813.50	4,237.85	4,128.14	109.71	38.628		
4,800.00	3,893.18	3,840.18	3,840.18	55.49	66.05	63.11	-1,579.97	5,813.50	4,197.63	4,085.02	112.61	37.276		
4,900.00	3,965.31	3,912.31	3,912.31	57.03	67.31	63.78	-1,579.97	5,813.50	4,158.18	4,042.65	115.53	35.992		
5,000.00	4,037.43	3,984.43	3,984.43	58.58	68.56	64.45	-1,579.97	5,813.50	4,119.52	4,001.04	118.47	34.771		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,056.56	4,056.56	60.12	69.82	65.14	-1,579.97	5,813.50	4,081.66	3,960.22	121.44	33.611		
5,200.00	4,181.68	4,128.68	4,128.68	61.66	71.08	65.83	-1,579.97	5,813.50	4,044.64	3,920.21	124.43	32.506		
5,300.00	4,253.81	4,200.81	4,200.81	63.20	72.34	66.52	-1,579.97	5,813.50	4,008.47	3,881.04	127.43	31.455		
5,400.00	4,325.93	4,272.93	4,272.93	64.75	73.60	67.23	-1,579.97	5,813.50	3,973.18	3,842.72	130.46	30.455		
5,500.00	4,398.06	4,345.06	4,345.06	66.29	74.86	67.94	-1,579.97	5,813.50	3,938.80	3,805.29	133.51	29.502		
5,600.00	4,470.18	4,417.18	4,417.18	67.84	76.12	68.66	-1,579.97	5,813.50	3,905.33	3,768.76	136.57	28.595		
5,700.00	4,542.31	4,489.31	4,489.31	69.38	77.38	69.39	-1,579.97	5,813.50	3,872.82	3,733.17	139.65	27.732		
5,800.00	4,614.43	4,561.43	4,561.43	70.92	78.63	70.12	-1,579.97	5,813.50	3,841.29	3,698.54	142.75	26.909		
5,900.00	4,686.56	4,633.56	4,633.56	72.47	79.89	70.86	-1,579.97	5,813.50	3,810.75	3,664.89	145.86	26.126		
6,000.00	4,758.68	4,705.68	4,705.68	74.01	81.15	71.61	-1,579.97	5,813.50	3,781.23	3,632.25	148.98	25.380		
6,100.00	4,830.81	4,777.81	4,777.81	75.56	82.41	72.36	-1,579.97	5,813.50	3,752.76	3,600.64	152.12	24.670		
6,200.00	4,902.93	4,849.93	4,849.93	77.10	83.67	73.12	-1,579.97	5,813.50	3,725.36	3,570.10	155.26	23.994		
6,300.00	4,975.06	4,922.06	4,922.06	78.65	84.93	73.89	-1,579.97	5,813.50	3,699.06	3,540.64	158.41	23.350		
6,400.00	5,047.18	5,005.82	4,994.18	80.19	86.39	74.66	-1,579.97	5,813.50	3,673.87	3,512.09	161.78	22.710		
6,500.00	5,119.31	5,066.31	5,066.31	81.74	87.45	75.44	-1,579.97	5,813.50	3,649.82	3,485.09	164.73	22.156		
6,600.00	5,191.43	5,138.43	5,138.43	83.28	88.71	76.22	-1,579.97	5,813.50	3,626.94	3,459.04	167.90	21.602		
6,700.00	5,263.56	5,210.56	5,210.56	84.83	89.96	77.01	-1,579.97	5,813.50	3,605.24	3,434.18	171.06	21.076		
6,800.00	5,335.68	5,282.68	5,282.68	86.37	91.22	77.81	-1,579.97	5,813.50	3,584.75	3,410.53	174.22	20.576		
6,900.00	5,407.81	5,354.81	5,354.81	87.92	92.48	78.61	-1,579.97	5,813.50	3,565.49	3,388.11	177.38	20.101		
7,000.00	5,479.93	5,426.93	5,426.93	89.47	93.74	79.41	-1,579.97	5,813.50	3,547.48	3,366.95	180.53	19.651		
7,100.00	5,552.06	5,500.94	5,499.06	91.01	95.03	80.22	-1,579.97	5,813.50	3,530.73	3,347.03	183.70	19.220		
7,200.00	5,624.18	5,571.18	5,571.18	92.56	96.26	81.03	-1,579.97	5,813.50	3,515.27	3,328.47	186.79	18.819		
7,300.00	5,696.31	5,643.31	5,643.31	94.10	97.52	81.84	-1,579.97	5,813.50	3,501.11	3,311.20	189.91	18.436		
7,400.00	5,768.43	5,715.43	5,715.43	95.65	98.78	82.66	-1,579.97	5,813.50	3,488.27	3,295.27	193.00	18.074		
7,500.00	5,840.56	5,787.56	5,787.56	97.20	100.03	83.48	-1,579.97	5,813.50	3,476.76	3,280.69	196.08	17.732		
7,600.00	5,912.68	5,859.68	5,859.68	98.74	101.29	84.31	-1,579.97	5,813.50	3,466.60	3,267.47	199.13	17.409		
7,700.00	5,984.81	5,931.81	5,931.81	100.29	102.55	85.13	-1,579.97	5,813.50	3,457.80	3,255.64	202.16	17.105		
7,800.00	6,056.93	6,003.93	6,003.93	101.84	103.81	85.96	-1,579.97	5,813.50	3,450.36	3,245.20	205.16	16.818		
7,900.00	6,129.06	6,076.06	6,076.06	103.38	105.07	86.79	-1,579.97	5,813.50	3,444.30	3,236.17	208.13	16.549		
8,000.00	6,201.18	6,148.18	6,148.18	104.93	106.33	87.62	-1,579.97	5,813.50	3,439.63	3,228.56	211.07	16.296		
8,100.00	6,273.31	6,220.31	6,220.31	106.48	107.59	88.46	-1,579.97	5,813.50	3,436.35	3,222.37	213.97	16.060		
8,200.00	6,345.43	6,307.57	6,292.43	108.02	109.11	89.29	-1,579.97	5,813.50	3,434.46	3,217.35	217.11	15.819		
8,285.25	6,406.92	6,353.92	6,353.92	109.34	109.92	90.00	-1,579.97	5,813.50	3,433.95	3,214.69	219.26	15.662		
8,300.00	6,417.56	6,364.56	6,364.56	109.57	110.11	90.12	-1,579.97	5,813.50	3,433.97	3,214.29	219.67	15.632		
8,400.00	6,489.68	6,436.68	6,436.68	111.12	111.36	90.96	-1,579.97	5,813.50	3,434.87	3,212.40	222.46	15.440		
8,500.00	6,561.81	6,508.81	6,508.81	112.66	112.62	91.79	-1,579.97	5,813.50	3,437.17	3,211.96	225.21	15.262		
8,600.00	6,633.93	6,580.93	6,580.93	114.21	113.88	92.62	-1,579.97	5,813.50	3,440.86	3,212.94	227.92	15.097		
8,700.00	6,706.06	6,653.06	6,653.06	115.76	115.14	93.45	-1,579.97	5,813.50	3,445.95	3,215.36	230.58	14.944		
8,800.00	6,778.18	6,725.18	6,725.18	117.30	116.40	94.28	-1,579.97	5,813.50	3,452.41	3,219.21	233.20	14.804		
8,900.00	6,850.31	6,802.69	6,797.31	118.85	117.75	95.11	-1,579.97	5,813.50	3,460.25	3,224.38	235.87	14.670		
9,000.00	6,922.43	6,869.43	6,869.43	120.40	118.92	95.94	-1,579.97	5,813.50	3,469.46	3,231.16	238.30	14.559		
9,100.00	6,994.56	6,941.56	6,941.56	121.95	120.18	96.76	-1,579.97	5,813.50	3,480.02	3,239.24	240.77	14.454		
9,200.00	7,066.68	7,013.68	7,013.68	123.49	121.43	97.58	-1,579.97	5,813.50	3,491.92	3,248.72	243.20	14.358		
9,300.00	7,138.81	7,085.81	7,085.81	125.04	122.69	98.40	-1,579.97	5,813.50	3,505.15	3,259.57	245.58	14.273		
9,392.50	7,205.52	7,152.52	7,152.52	126.47	123.86	99.15	-1,579.97	5,813.50	3,518.56	3,270.82	247.74	14.203		
9,400.00	7,210.94	7,157.94	7,157.94	126.59	123.95	98.46	-1,579.97	5,813.50	3,519.64	3,271.73	247.91	14.197		
9,450.00	7,247.42	7,205.58	7,194.42	127.35	124.78	93.68	-1,579.97	5,813.50	3,524.60	3,275.33	249.27	14.140		
9,500.00	7,284.35	7,231.35	7,231.35	128.10	125.23	88.64	-1,579.97	5,813.50	3,525.54	3,275.31	250.23	14.089		
9,550.00	7,321.43	7,268.43	7,268.43	128.83	125.88	83.50	-1,579.97	5,813.50	3,522.46	3,271.07	251.38	14.012		
9,600.00	7,358.38	7,305.38	7,305.38	129.52	126.53	78.40	-1,579.97	5,813.50	3,515.36	3,262.85	252.51	13.922		
9,650.00	7,394.93	7,341.93	7,341.93	130.16	127.16	73.47	-1,579.97	5,813.50	3,504.28	3,250.67	253.61	13.818		
9,700.00	7,430.79	7,377.79	7,377.79	130.76	127.79	68.83	-1,579.97	5,813.50	3,489.29	3,234.63	254.66	13.702		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,412.70	7,412.70	131.30	128.40	64.57	-1,579.97	5,813.50	3,470.47	3,214.81	255.66	13.574		
9,800.00	7,499.38	7,446.38	7,446.38	131.78	128.99	60.73	-1,579.97	5,813.50	3,447.95	3,191.34	256.61	13.437		
9,850.00	7,531.58	7,478.58	7,478.58	132.21	129.55	57.32	-1,579.97	5,813.50	3,421.86	3,164.37	257.49	13.289		
9,900.00	7,562.06	7,509.06	7,509.06	132.57	130.08	54.36	-1,579.97	5,813.50	3,392.36	3,134.06	258.30	13.133		
9,950.00	7,590.58	7,537.58	7,537.58	132.87	130.58	51.81	-1,579.97	5,813.50	3,359.65	3,100.61	259.04	12.970		
10,000.00	7,616.93	7,563.93	7,563.93	133.11	131.04	49.66	-1,579.97	5,813.50	3,323.93	3,064.23	259.70	12.799		
10,050.00	7,640.90	7,587.90	7,587.90	133.29	131.46	47.89	-1,579.97	5,813.50	3,285.45	3,025.16	260.28	12.623		
10,100.00	7,662.32	7,609.32	7,609.32	133.42	131.83	46.46	-1,579.97	5,813.50	3,244.44	2,983.65	260.79	12.441		
10,150.00	7,681.01	7,628.01	7,628.01	133.50	132.16	45.38	-1,579.97	5,813.50	3,201.19	2,939.97	261.21	12.255		
10,200.00	7,696.85	7,643.85	7,643.85	133.52	132.43	44.65	-1,579.97	5,813.50	3,155.98	2,894.42	261.56	12.066		
10,250.00	7,709.70	7,656.70	7,656.70	133.51	132.66	44.30	-1,579.97	5,813.50	3,109.14	2,847.31	261.83	11.875		
10,300.00	7,719.47	7,666.47	7,666.47	133.46	132.83	44.46	-1,579.97	5,813.50	3,060.99	2,798.96	262.03	11.682		
10,350.00	7,726.09	7,673.09	7,673.09	133.37	132.94	45.60	-1,579.97	5,813.50	3,011.87	2,749.71	262.16	11.489		
10,400.00	7,729.50	7,676.50	7,676.50	133.26	133.00	51.13	-1,579.97	5,813.50	2,962.14	2,699.91	262.22	11.296		
10,427.79	7,730.00	7,677.00	7,677.00	133.18	133.01	90.00	-1,579.97	5,813.50	2,934.36	2,672.13	262.23	11.190		
10,500.00	7,730.00	7,677.00	7,677.00	132.98	133.01	90.00	-1,579.97	5,813.50	2,862.16	2,599.93	262.23	10.915		
10,600.00	7,730.00	7,677.00	7,677.00	132.72	133.01	90.00	-1,579.97	5,813.50	2,762.17	2,499.94	262.23	10.533		
10,700.00	7,730.00	7,677.00	7,677.00	132.47	133.01	90.00	-1,579.97	5,813.50	2,662.18	2,399.95	262.23	10.152		
10,800.00	7,730.00	7,677.00	7,677.00	132.22	133.01	90.00	-1,579.97	5,813.50	2,562.19	2,299.96	262.23	9.771		
10,900.00	7,730.00	7,677.00	7,677.00	131.99	133.01	90.00	-1,579.97	5,813.50	2,462.20	2,199.97	262.23	9.389		
11,000.00	7,730.00	7,677.00	7,677.00	131.77	133.01	90.00	-1,579.97	5,813.50	2,362.21	2,099.98	262.23	9.008		
11,100.00	7,730.00	7,677.00	7,677.00	131.56	133.01	90.00	-1,579.97	5,813.50	2,262.22	1,999.99	262.23	8.627		
11,200.00	7,730.00	7,677.00	7,677.00	131.36	133.01	90.00	-1,579.97	5,813.50	2,162.23	1,900.00	262.23	8.246		
11,300.00	7,730.00	7,677.00	7,677.00	131.17	133.01	90.00	-1,579.97	5,813.50	2,062.25	1,800.02	262.23	7.864		
11,400.00	7,730.00	7,677.00	7,677.00	130.99	133.01	90.00	-1,579.97	5,813.50	1,962.27	1,700.03	262.23	7.483		
11,500.00	7,730.00	7,677.00	7,677.00	130.82	133.01	90.00	-1,579.97	5,813.50	1,862.28	1,600.05	262.24	7.102		
11,600.00	7,730.00	7,677.00	7,677.00	130.66	133.01	90.00	-1,579.97	5,813.50	1,762.30	1,500.07	262.24	6.720		
11,700.00	7,730.00	7,677.00	7,677.00	130.51	133.01	90.00	-1,579.97	5,813.50	1,662.33	1,400.09	262.24	6.339		
11,800.00	7,730.00	7,677.00	7,677.00	130.37	133.01	90.00	-1,579.97	5,813.50	1,562.35	1,300.11	262.24	5.958		
11,900.00	7,730.00	7,677.00	7,677.00	130.24	133.01	90.00	-1,579.97	5,813.50	1,462.38	1,200.13	262.25	5.576		
12,000.00	7,730.00	7,677.00	7,677.00	130.13	133.01	90.00	-1,579.97	5,813.50	1,362.41	1,100.16	262.25	5.195		
12,100.00	7,730.00	7,677.00	7,677.00	130.02	133.01	90.00	-1,579.97	5,813.50	1,262.45	1,000.20	262.25	4.814		
12,200.00	7,730.00	7,677.00	7,677.00	129.93	133.01	90.00	-1,579.97	5,813.50	1,162.49	900.24	262.26	4.433		
12,300.00	7,730.00	7,677.00	7,677.00	129.85	133.01	90.00	-1,579.97	5,813.50	1,062.55	800.29	262.26	4.051		
12,400.00	7,730.00	7,677.00	7,677.00	129.77	133.01	90.00	-1,579.97	5,813.50	962.61	700.35	262.26	3.670		
12,500.00	7,730.00	7,677.00	7,677.00	129.71	133.01	90.00	-1,579.97	5,813.50	862.69	600.42	262.27	3.289		
12,600.00	7,730.00	7,677.00	7,677.00	129.66	133.01	90.00	-1,579.97	5,813.50	762.79	500.52	262.27	2.908		
12,700.00	7,730.00	7,677.00	7,677.00	129.63	133.01	90.00	-1,579.97	5,813.50	662.92	400.66	262.26	2.528		
12,800.00	7,730.00	7,677.00	7,677.00	129.60	133.01	90.00	-1,579.97	5,813.50	563.09	300.85	262.25	2.147		
12,900.00	7,730.00	7,677.00	7,677.00	129.59	133.01	90.00	-1,579.97	5,813.50	463.34	201.13	262.21	1.767		
13,000.00	7,730.00	7,677.00	7,677.00	129.59	133.01	90.00	-1,579.97	5,813.50	363.73	101.62	262.11	1.388	Level 3	
13,100.00	7,730.00	7,677.00	7,677.00	129.60	133.01	90.00	-1,579.97	5,813.50	264.42	2.59	261.83	1.010	Level 2	
13,200.00	7,730.00	7,677.00	7,677.00	129.63	133.01	90.00	-1,579.97	5,813.50	165.92	-94.78	260.70	0.636	Level 1	
13,300.00	7,730.00	7,677.00	7,677.00	129.66	133.01	90.00	-1,579.97	5,813.50	71.71	-179.05	250.76	0.286	Level 1	
13,361.93	7,730.00	7,677.00	7,677.00	129.69	133.01	90.00	-1,579.97	5,813.50	36.15	-157.68	193.83	0.187	Level 1, CC, SF	
13,400.00	7,730.00	7,677.00	7,677.00	129.72	133.01	90.00	-1,579.97	5,813.50	52.50	-180.42	232.92	0.225	Level 1, ES	
13,500.00	7,730.00	7,677.00	7,677.00	129.78	133.01	90.00	-1,579.97	5,813.50	142.72	-115.14	257.87	0.553	Level 1	
13,600.00	7,730.00	7,677.00	7,677.00	129.86	133.01	90.00	-1,579.97	5,813.50	240.80	-19.64	260.43	0.925	Level 1	
13,700.00	7,730.00	7,677.00	7,677.00	129.96	133.01	90.00	-1,579.97	5,813.50	339.99	78.80	261.19	1.302	Level 3	
13,800.00	7,730.00	7,677.00	7,677.00	130.07	133.01	90.00	-1,579.97	5,813.50	439.56	178.03	261.53	1.681		
13,900.00	7,730.00	7,677.00	7,677.00	130.19	133.01	90.00	-1,579.97	5,813.50	539.28	277.57	261.71	2.061		
14,000.00	7,730.00	7,677.00	7,677.00	130.33	133.01	90.00	-1,579.97	5,813.50	639.09	377.27	261.82	2.441		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,677.00	7,677.00	130.49	133.01	90.00	-1,579.97	5,813.50	738.95	477.05	261.90	2.821		
14,200.00	7,730.00	7,677.00	7,677.00	130.67	133.01	90.00	-1,579.97	5,813.50	838.85	576.89	261.96	3.202		
14,300.00	7,730.00	7,677.00	7,677.00	130.86	133.01	90.00	-1,579.97	5,813.50	938.76	676.76	262.00	3.583		
14,400.00	7,730.00	7,677.00	7,677.00	131.07	133.01	90.00	-1,579.97	5,813.50	1,038.70	776.66	262.04	3.964		
14,500.00	7,730.00	7,677.00	7,677.00	131.30	133.01	90.00	-1,579.97	5,813.50	1,138.64	876.58	262.07	4.345		
14,600.00	7,730.00	7,677.00	7,677.00	131.55	133.01	90.00	-1,579.97	5,813.50	1,238.60	976.50	262.09	4.726		
14,700.00	7,730.00	7,677.00	7,677.00	131.82	133.01	90.00	-1,579.97	5,813.50	1,338.56	1,076.44	262.11	5.107		
14,800.00	7,730.00	7,677.00	7,677.00	132.11	133.01	90.00	-1,579.97	5,813.50	1,438.52	1,176.39	262.13	5.488		
14,900.00	7,730.00	7,677.00	7,677.00	132.42	133.01	90.00	-1,579.97	5,813.50	1,538.49	1,276.34	262.15	5.869		
15,000.00	7,730.00	7,677.00	7,677.00	132.75	133.01	90.00	-1,579.97	5,813.50	1,638.47	1,376.30	262.16	6.250		
15,100.00	7,730.00	7,677.00	7,677.00	133.10	133.01	90.00	-1,579.97	5,813.50	1,738.44	1,476.26	262.18	6.631		
15,200.00	7,730.00	7,677.00	7,677.00	133.48	133.01	90.00	-1,579.97	5,813.50	1,838.42	1,576.23	262.19	7.012		
15,300.00	7,730.00	7,677.00	7,677.00	133.88	133.01	90.00	-1,579.97	5,813.50	1,938.40	1,676.20	262.21	7.393		
15,400.00	7,730.00	7,677.00	7,677.00	134.31	133.01	90.00	-1,579.97	5,813.50	2,038.39	1,776.17	262.22	7.774		
15,500.00	7,730.00	7,677.00	7,677.00	134.76	133.01	90.00	-1,579.97	5,813.50	2,138.37	1,876.14	262.23	8.154		
15,600.00	7,730.00	7,677.00	7,677.00	135.23	133.01	90.00	-1,579.97	5,813.50	2,238.36	1,976.11	262.25	8.535		
15,700.00	7,730.00	7,677.00	7,677.00	135.73	133.01	90.00	-1,579.97	5,813.50	2,338.35	2,076.09	262.26	8.916		
15,800.00	7,730.00	7,677.00	7,677.00	136.26	133.01	90.00	-1,579.97	5,813.50	2,438.34	2,176.07	262.27	9.297		
15,900.00	7,730.00	7,677.00	7,677.00	136.81	133.01	90.00	-1,579.97	5,813.50	2,538.32	2,276.04	262.28	9.678		
16,000.00	7,730.00	7,677.00	7,677.00	137.39	133.01	90.00	-1,579.97	5,813.50	2,638.32	2,376.02	262.29	10.059		
16,100.00	7,730.00	7,677.00	7,677.00	138.00	133.01	90.00	-1,579.97	5,813.50	2,738.31	2,476.00	262.30	10.439		
16,200.00	7,730.00	7,677.00	7,677.00	138.63	133.01	90.00	-1,579.97	5,813.50	2,838.30	2,575.98	262.32	10.820		
16,300.00	7,730.00	7,677.00	7,677.00	139.30	133.01	90.00	-1,579.97	5,813.50	2,938.29	2,675.96	262.33	11.201		
16,400.00	7,730.00	7,677.00	7,677.00	139.99	133.01	90.00	-1,579.97	5,813.50	3,038.28	2,775.94	262.34	11.581		
16,500.00	7,730.00	7,677.00	7,677.00	140.70	133.01	90.00	-1,579.97	5,813.50	3,138.28	2,875.92	262.35	11.962		
16,600.00	7,730.00	7,677.00	7,677.00	141.45	133.01	90.00	-1,579.97	5,813.50	3,238.27	2,975.91	262.36	12.343		
16,700.00	7,730.00	7,677.00	7,677.00	142.22	133.01	90.00	-1,579.97	5,813.50	3,338.26	3,075.89	262.37	12.723		
16,800.00	7,730.00	7,677.00	7,677.00	143.03	133.01	90.00	-1,579.97	5,813.50	3,438.26	3,175.87	262.39	13.104		
16,900.00	7,730.00	7,677.00	7,677.00	143.86	133.01	90.00	-1,579.97	5,813.50	3,538.25	3,275.85	262.40	13.484		
17,000.00	7,730.00	7,677.00	7,677.00	144.71	133.01	90.00	-1,579.97	5,813.50	3,638.25	3,375.84	262.41	13.865		
17,100.00	7,730.00	7,677.00	7,677.00	145.60	133.01	90.00	-1,579.97	5,813.50	3,738.24	3,475.82	262.42	14.245		
17,200.00	7,730.00	7,677.00	7,677.00	146.51	133.01	90.00	-1,579.97	5,813.50	3,838.24	3,575.80	262.44	14.625		
17,300.00	7,730.00	7,677.00	7,677.00	147.44	133.01	90.00	-1,579.97	5,813.50	3,938.23	3,675.79	262.45	15.006		
17,400.00	7,730.00	7,677.00	7,677.00	148.40	133.01	90.00	-1,579.97	5,813.50	4,038.23	3,775.77	262.46	15.386		
17,500.00	7,730.00	7,677.00	7,677.00	149.39	133.01	90.00	-1,579.97	5,813.50	4,138.23	3,875.75	262.47	15.766		
17,600.00	7,730.00	7,677.00	7,677.00	150.40	133.01	90.00	-1,579.97	5,813.50	4,238.22	3,975.73	262.49	16.146		
17,700.00	7,730.00	7,677.00	7,677.00	151.44	133.01	90.00	-1,579.97	5,813.50	4,338.22	4,075.72	262.50	16.527		
17,800.00	7,730.00	7,677.00	7,677.00	152.50	133.01	90.00	-1,579.97	5,813.50	4,438.21	4,175.70	262.51	16.907		
17,900.00	7,730.00	7,677.00	7,677.00	153.58	133.01	90.00	-1,579.97	5,813.50	4,538.21	4,275.68	262.53	17.287		
18,000.00	7,730.00	7,677.00	7,677.00	154.68	133.01	90.00	-1,579.97	5,813.50	4,638.21	4,375.67	262.54	17.667		
18,100.00	7,730.00	7,677.00	7,677.00	155.80	133.01	90.00	-1,579.97	5,813.50	4,738.21	4,475.65	262.55	18.047		
18,200.00	7,730.00	7,677.00	7,677.00	156.95	133.01	90.00	-1,579.97	5,813.50	4,838.20	4,575.63	262.57	18.426		
18,300.00	7,730.00	7,677.00	7,677.00	158.11	133.01	90.00	-1,579.97	5,813.50	4,938.20	4,675.62	262.58	18.806		
18,400.00	7,730.00	7,677.00	7,677.00	159.30	133.01	90.00	-1,579.97	5,813.50	5,038.20	4,775.60	262.60	19.186		
18,500.00	7,730.00	7,677.00	7,677.00	160.50	133.01	90.00	-1,579.97	5,813.50	5,138.19	4,875.58	262.61	19.566		
18,600.00	7,730.00	7,677.00	7,677.00	161.72	133.01	90.00	-1,579.97	5,813.50	5,238.19	4,975.57	262.63	19.945		
18,700.00	7,730.00	7,677.00	7,677.00	162.96	133.01	90.00	-1,579.97	5,813.50	5,338.19	5,075.55	262.64	20.325		
18,800.00	7,730.00	7,677.00	7,677.00	164.21	133.01	90.00	-1,579.97	5,813.50	5,438.19	5,175.53	262.66	20.705		
18,900.00	7,730.00	7,677.00	7,677.00	165.48	133.01	90.00	-1,579.97	5,813.50	5,538.19	5,275.52	262.67	21.084		
19,000.00	7,730.00	7,677.00	7,677.00	166.76	133.01	90.00	-1,579.97	5,813.50	5,638.18	5,375.50	262.69	21.464		
19,100.00	7,730.00	7,677.00	7,677.00	168.06	133.01	90.00	-1,579.97	5,813.50	5,738.18	5,475.48	262.70	21.843		
19,200.00	7,730.00	7,677.00	7,677.00	169.38	133.01	90.00	-1,579.97	5,813.50	5,838.18	5,575.46	262.72	22.222		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,677.00	7,677.00	170.70	133.01	90.00	-1,579.97	5,813.50	5,938.18	5,675.44	262.73	22.602	
19,400.00	7,730.00	7,677.00	7,677.00	172.04	133.01	90.00	-1,579.97	5,813.50	6,038.18	5,775.43	262.75	22.981	
19,500.00	7,730.00	7,677.00	7,677.00	173.40	133.01	90.00	-1,579.97	5,813.50	6,138.17	5,875.41	262.77	23.360	
19,600.00	7,730.00	7,677.00	7,677.00	174.76	133.01	90.00	-1,579.97	5,813.50	6,238.17	5,975.39	262.78	23.739	
19,700.00	7,730.00	7,677.00	7,677.00	176.14	133.01	90.00	-1,579.97	5,813.50	6,338.17	6,075.37	262.80	24.118	
19,800.00	7,730.00	7,677.00	7,677.00	177.52	133.01	90.00	-1,579.97	5,813.50	6,438.17	6,175.35	262.81	24.497	
19,900.00	7,730.00	7,677.00	7,677.00	178.92	133.01	90.00	-1,579.97	5,813.50	6,538.17	6,275.34	262.83	24.876	
20,000.00	7,730.00	7,677.00	7,677.00	180.33	133.01	90.00	-1,579.97	5,813.50	6,638.17	6,375.32	262.85	25.255	
20,100.00	7,730.00	7,677.00	7,677.00	181.75	133.01	90.00	-1,579.97	5,813.50	6,738.16	6,475.30	262.87	25.633	
20,184.95	7,730.00	7,677.00	7,677.00	182.96	133.01	90.00	-1,579.97	5,813.50	6,823.12	6,560.24	262.88	25.955	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	115.24	-2,506.10	5,316.67	5,877.90					
100.00	100.00	53.00	53.00	0.13	0.41	115.24	-2,506.10	5,316.67	5,877.71	5,877.17	0.54	N/A		
200.00	199.98	152.98	152.98	0.49	1.69	44.81	-2,506.10	5,316.67	5,876.47	5,874.29	2.18	2,691.339		
300.00	299.84	252.84	252.84	0.86	3.44	44.90	-2,506.10	5,316.67	5,872.76	5,868.47	4.29	1,369.000		
400.00	399.45	352.45	352.45	1.23	5.17	45.05	-2,506.10	5,316.67	5,866.58	5,860.18	6.40	916.699		
500.00	498.70	451.70	451.70	1.63	6.91	45.26	-2,506.10	5,316.67	5,857.96	5,849.44	8.51	688.055		
600.00	597.47	550.47	550.47	2.05	8.63	45.52	-2,506.10	5,316.67	5,846.90	5,836.27	10.63	549.851		
700.00	695.62	648.62	648.62	2.51	10.34	45.85	-2,506.10	5,316.67	5,833.44	5,820.68	12.76	457.140		
800.00	793.06	746.06	746.06	3.00	12.04	46.24	-2,506.10	5,316.67	5,817.62	5,802.72	14.90	390.527		
900.00	889.64	842.64	842.64	3.53	13.73	46.69	-2,506.10	5,316.67	5,799.47	5,782.43	17.04	340.271		
1,000.00	985.27	938.27	938.27	4.12	15.40	47.20	-2,506.10	5,316.67	5,779.04	5,759.83	19.20	300.946		
1,100.00	1,079.82	1,032.82	1,032.82	4.75	17.05	47.77	-2,506.10	5,316.67	5,756.37	5,735.00	21.38	269.288		
1,200.00	1,173.17	1,126.17	1,126.17	5.44	18.68	48.41	-2,506.10	5,316.67	5,731.54	5,707.97	23.57	243.219		
1,300.00	1,265.21	1,218.21	1,218.21	6.18	20.28	49.11	-2,506.10	5,316.67	5,704.59	5,678.82	25.77	221.348		
1,400.00	1,355.84	1,308.84	1,308.84	6.99	21.87	49.88	-2,506.10	5,316.67	5,675.60	5,647.60	28.00	202.715		
1,500.00	1,444.94	1,402.06	1,397.94	7.87	23.49	50.71	-2,506.10	5,316.67	5,644.65	5,614.33	30.32	186.189		
1,600.00	1,532.39	1,485.39	1,485.39	8.80	24.95	51.61	-2,506.10	5,316.67	5,611.81	5,579.30	32.51	172.597		
1,700.00	1,618.11	1,571.11	1,571.11	9.81	26.44	52.57	-2,506.10	5,316.67	5,577.18	5,542.37	34.81	160.230		
1,800.00	1,701.97	1,654.97	1,654.97	10.89	27.91	53.60	-2,506.10	5,316.67	5,540.84	5,503.71	37.13	149.242		
1,900.00	1,783.88	1,736.88	1,736.88	12.04	29.34	54.69	-2,506.10	5,316.67	5,502.89	5,463.42	39.47	139.409		
2,000.00	1,863.74	1,816.74	1,816.74	13.26	30.73	55.85	-2,506.10	5,316.67	5,463.44	5,421.59	41.85	130.555		
2,100.00	1,941.45	1,905.55	1,894.45	14.55	32.28	57.06	-2,506.10	5,316.67	5,422.59	5,378.15	44.45	122.002		
2,200.00	2,016.92	1,969.92	1,969.92	15.92	33.40	58.34	-2,506.10	5,316.67	5,380.47	5,333.78	46.69	115.240		
2,292.11	2,084.36	2,037.36	2,037.36	17.25	34.58	59.56	-2,506.10	5,316.67	5,340.63	5,291.67	48.96	109.078		
2,300.00	2,090.06	2,043.06	2,043.06	17.36	34.68	59.60	-2,506.10	5,316.67	5,337.18	5,288.02	49.16	108.571		
2,400.00	2,162.18	2,115.18	2,115.18	18.84	35.94	60.12	-2,506.10	5,316.67	5,293.74	5,242.09	51.66	102.480		
2,500.00	2,234.31	2,187.31	2,187.31	20.33	37.20	60.64	-2,506.10	5,316.67	5,250.86	5,196.68	54.18	96.908		
2,600.00	2,306.43	2,259.43	2,259.43	21.83	38.46	61.17	-2,506.10	5,316.67	5,208.55	5,151.81	56.74	91.798		
2,700.00	2,378.56	2,331.56	2,331.56	23.33	39.72	61.70	-2,506.10	5,316.67	5,166.82	5,107.50	59.32	87.101		
2,800.00	2,450.68	2,403.68	2,403.68	24.84	40.97	62.24	-2,506.10	5,316.67	5,125.69	5,063.76	61.93	82.772		
2,900.00	2,522.81	2,475.81	2,475.81	26.36	42.23	62.79	-2,506.10	5,316.67	5,085.16	5,020.61	64.55	78.773		
3,000.00	2,594.93	2,547.93	2,547.93	27.88	43.49	63.33	-2,506.10	5,316.67	5,045.26	4,978.06	67.21	75.071		
3,100.00	2,667.06	2,620.06	2,620.06	29.40	44.75	63.89	-2,506.10	5,316.67	5,006.01	4,936.13	69.88	71.637		
3,200.00	2,739.18	2,707.82	2,692.18	30.92	46.28	64.45	-2,506.10	5,316.67	4,967.41	4,894.56	72.85	68.188		
3,300.00	2,811.31	2,764.31	2,764.31	32.45	47.27	65.02	-2,506.10	5,316.67	4,929.48	4,854.18	75.29	65.472		
3,400.00	2,883.43	2,836.43	2,836.43	33.98	48.53	65.59	-2,506.10	5,316.67	4,892.23	4,814.20	78.03	62.699		
3,500.00	2,955.56	2,908.56	2,908.56	35.51	49.79	66.16	-2,506.10	5,316.67	4,855.69	4,774.91	80.78	60.108		
3,600.00	3,027.68	2,980.68	2,980.68	37.04	51.05	66.74	-2,506.10	5,316.67	4,819.87	4,736.31	83.56	57.683		
3,700.00	3,099.81	3,052.81	3,052.81	38.57	52.30	67.33	-2,506.10	5,316.67	4,784.78	4,698.43	86.35	55.410		
3,800.00	3,171.93	3,124.93	3,124.93	40.11	53.56	67.92	-2,506.10	5,316.67	4,750.44	4,661.28	89.16	53.278		
3,900.00	3,244.06	3,202.94	3,197.06	41.64	54.92	68.52	-2,506.10	5,316.67	4,716.87	4,624.78	92.10	51.217		
4,000.00	3,316.18	3,269.18	3,269.18	43.18	56.08	69.12	-2,506.10	5,316.67	4,684.09	4,589.25	94.84	49.390		
4,100.00	3,388.31	3,341.31	3,341.31	44.71	57.34	69.72	-2,506.10	5,316.67	4,652.10	4,554.40	97.70	47.616		
4,200.00	3,460.43	3,413.43	3,413.43	46.25	58.60	70.33	-2,506.10	5,316.67	4,620.93	4,520.35	100.58	45.943		
4,300.00	3,532.56	3,485.56	3,485.56	47.79	59.86	70.95	-2,506.10	5,316.67	4,590.60	4,487.13	103.47	44.366		
4,400.00	3,604.68	3,557.68	3,557.68	49.33	61.12	71.57	-2,506.10	5,316.67	4,561.11	4,454.73	106.38	42.876		
4,500.00	3,676.81	3,629.81	3,629.81	50.87	62.37	72.19	-2,506.10	5,316.67	4,532.49	4,423.20	109.30	41.469		
4,600.00	3,748.93	3,701.93	3,701.93	52.41	63.63	72.82	-2,506.10	5,316.67	4,504.76	4,392.53	112.23	40.138		
4,700.00	3,821.06	3,774.06	3,774.06	53.95	64.89	73.46	-2,506.10	5,316.67	4,477.92	4,362.75	115.17	38.879		
4,800.00	3,893.18	3,846.18	3,846.18	55.49	66.15	74.09	-2,506.10	5,316.67	4,452.01	4,333.88	118.13	37.688		
4,900.00	3,965.31	3,918.31	3,918.31	57.03	67.41	74.73	-2,506.10	5,316.67	4,427.02	4,305.93	121.09	36.559		
5,000.00	4,037.43	4,009.57	3,990.43	58.58	69.00	75.38	-2,506.10	5,316.67	4,402.98	4,278.58	124.40	35.394		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,062.56	4,062.56	60.12	69.93	76.03	-2,506.10	5,316.67	4,379.91	4,252.86	127.04	34.475		
5,200.00	4,181.68	4,134.68	4,134.68	61.66	71.19	76.68	-2,506.10	5,316.67	4,357.81	4,227.78	130.03	33.514		
5,300.00	4,253.81	4,206.81	4,206.81	63.20	72.45	77.34	-2,506.10	5,316.67	4,336.71	4,203.69	133.02	32.602		
5,400.00	4,325.93	4,278.93	4,278.93	64.75	73.70	78.00	-2,506.10	5,316.67	4,316.61	4,180.60	136.01	31.736		
5,500.00	4,398.06	4,351.06	4,351.06	66.29	74.96	78.66	-2,506.10	5,316.67	4,297.54	4,158.53	139.01	30.915		
5,600.00	4,470.18	4,423.18	4,423.18	67.84	76.22	79.33	-2,506.10	5,316.67	4,279.51	4,137.50	142.01	30.135		
5,700.00	4,542.31	4,504.69	4,495.31	69.38	77.64	80.00	-2,506.10	5,316.67	4,262.52	4,117.35	145.17	29.362		
5,800.00	4,614.43	4,567.43	4,567.43	70.92	78.74	80.67	-2,506.10	5,316.67	4,246.60	4,098.60	148.00	28.693		
5,900.00	4,686.56	4,639.56	4,639.56	72.47	80.00	81.34	-2,506.10	5,316.67	4,231.75	4,080.76	150.99	28.026		
6,000.00	4,758.68	4,711.68	4,711.68	74.01	81.26	82.02	-2,506.10	5,316.67	4,217.99	4,064.01	153.98	27.393		
6,100.00	4,830.81	4,783.81	4,783.81	75.56	82.52	82.70	-2,506.10	5,316.67	4,205.32	4,048.36	156.96	26.792		
6,200.00	4,902.93	4,855.93	4,855.93	77.10	83.77	83.38	-2,506.10	5,316.67	4,193.76	4,033.82	159.94	26.222		
6,300.00	4,975.06	4,928.06	4,928.06	78.65	85.03	84.06	-2,506.10	5,316.67	4,183.31	4,020.41	162.90	25.680		
6,400.00	5,047.18	5,000.18	5,000.18	80.19	86.29	84.75	-2,506.10	5,316.67	4,173.99	4,008.13	165.85	25.167		
6,500.00	5,119.31	5,072.31	5,072.31	81.74	87.55	85.43	-2,506.10	5,316.67	4,165.79	3,997.00	168.79	24.680		
6,600.00	5,191.43	5,144.43	5,144.43	83.28	88.81	86.12	-2,506.10	5,316.67	4,158.74	3,987.02	171.72	24.218		
6,700.00	5,263.56	5,216.56	5,216.56	84.83	90.07	86.81	-2,506.10	5,316.67	4,152.83	3,978.19	174.63	23.780		
6,800.00	5,335.68	5,288.68	5,288.68	86.37	91.33	87.50	-2,506.10	5,316.67	4,148.07	3,970.54	177.53	23.365		
6,900.00	5,407.81	5,360.81	5,360.81	87.92	92.59	88.19	-2,506.10	5,316.67	4,144.46	3,964.05	180.41	22.973		
7,000.00	5,479.93	5,432.93	5,432.93	89.47	93.85	88.88	-2,506.10	5,316.67	4,142.00	3,958.73	183.27	22.601		
7,100.00	5,552.06	5,505.06	5,505.06	91.01	95.10	89.57	-2,506.10	5,316.67	4,140.70	3,954.60	186.10	22.249		
7,161.98	5,596.76	5,549.76	5,549.76	91.97	95.88	90.00	-2,506.10	5,316.67	4,140.48	3,952.63	187.85	22.041		
7,200.00	5,624.18	5,577.18	5,577.18	92.56	96.36	90.26	-2,506.10	5,316.67	4,140.57	3,951.64	188.92	21.917		
7,300.00	5,696.31	5,649.31	5,649.31	94.10	97.62	90.95	-2,506.10	5,316.67	4,141.59	3,949.87	191.71	21.603		
7,400.00	5,768.43	5,721.43	5,721.43	95.65	98.88	91.65	-2,506.10	5,316.67	4,143.76	3,949.28	194.48	21.307		
7,500.00	5,840.56	5,806.44	5,793.56	97.20	100.36	92.34	-2,506.10	5,316.67	4,147.10	3,949.65	197.45	21.003		
7,600.00	5,912.68	5,865.68	5,865.68	98.74	101.40	93.03	-2,506.10	5,316.67	4,151.58	3,951.64	199.94	20.764		
7,700.00	5,984.81	5,937.81	5,937.81	100.29	102.66	93.71	-2,506.10	5,316.67	4,157.22	3,954.59	202.63	20.516		
7,800.00	6,056.93	6,009.93	6,009.93	101.84	103.92	94.40	-2,506.10	5,316.67	4,164.00	3,958.71	205.29	20.283		
7,900.00	6,129.06	6,082.06	6,082.06	103.38	105.17	95.09	-2,506.10	5,316.67	4,171.92	3,964.00	207.93	20.065		
8,000.00	6,201.18	6,154.18	6,154.18	104.93	106.43	95.77	-2,506.10	5,316.67	4,180.97	3,970.45	210.53	19.859		
8,100.00	6,273.31	6,226.31	6,226.31	106.48	107.69	96.46	-2,506.10	5,316.67	4,191.15	3,978.05	213.10	19.667		
8,200.00	6,345.43	6,301.57	6,298.43	108.02	109.01	97.14	-2,506.10	5,316.67	4,202.45	3,986.75	215.70	19.483		
8,300.00	6,417.56	6,370.56	6,370.56	109.57	110.21	97.82	-2,506.10	5,316.67	4,214.85	3,996.70	218.15	19.321		
8,400.00	6,489.68	6,442.68	6,442.68	111.12	111.47	98.50	-2,506.10	5,316.67	4,228.35	4,007.72	220.63	19.165		
8,500.00	6,561.81	6,514.81	6,514.81	112.66	112.73	99.17	-2,506.10	5,316.67	4,242.94	4,019.86	223.08	19.020		
8,600.00	6,633.93	6,586.93	6,586.93	114.21	113.99	99.84	-2,506.10	5,316.67	4,258.61	4,033.12	225.49	18.886		
8,700.00	6,706.06	6,659.06	6,659.06	115.76	115.25	100.51	-2,506.10	5,316.67	4,275.34	4,047.46	227.88	18.762		
8,800.00	6,778.18	6,731.18	6,731.18	117.30	116.50	101.18	-2,506.10	5,316.67	4,293.13	4,062.90	230.23	18.647		
8,900.00	6,850.31	6,803.31	6,803.31	118.85	117.76	101.84	-2,506.10	5,316.67	4,311.95	4,079.40	232.55	18.542		
9,000.00	6,922.43	6,875.43	6,875.43	120.40	119.02	102.50	-2,506.10	5,316.67	4,331.80	4,096.97	234.84	18.446		
9,100.00	6,994.56	6,947.56	6,947.56	121.95	120.28	103.16	-2,506.10	5,316.67	4,352.66	4,115.57	237.09	18.359		
9,200.00	7,066.68	7,019.68	7,019.68	123.49	121.54	103.82	-2,506.10	5,316.67	4,374.52	4,135.21	239.31	18.279		
9,300.00	7,138.81	7,108.19	7,091.81	125.04	123.08	104.47	-2,506.10	5,316.67	4,397.36	4,155.57	241.79	18.186		
9,392.50	7,205.52	7,158.52	7,158.52	126.47	123.96	105.06	-2,506.10	5,316.67	4,419.35	4,175.85	243.51	18.149		
9,400.00	7,210.94	7,163.94	7,163.94	126.59	124.06	104.35	-2,506.10	5,316.67	4,421.13	4,177.46	243.67	18.144		
9,450.00	7,247.42	7,200.42	7,200.42	127.35	124.69	99.43	-2,506.10	5,316.67	4,430.62	4,185.86	244.75	18.102		
9,500.00	7,284.35	7,237.35	7,237.35	128.10	125.34	94.29	-2,506.10	5,316.67	4,436.05	4,190.20	245.85	18.044		
9,550.00	7,321.43	7,274.43	7,274.43	128.83	125.99	89.08	-2,506.10	5,316.67	4,437.38	4,190.43	246.95	17.969		
9,600.00	7,358.38	7,311.38	7,311.38	129.52	126.63	83.95	-2,506.10	5,316.67	4,434.60	4,186.57	248.03	17.879		
9,650.00	7,394.93	7,347.93	7,347.93	130.16	127.27	79.04	-2,506.10	5,316.67	4,427.74	4,178.65	249.09	17.775		
9,700.00	7,430.79	7,383.79	7,383.79	130.76	127.89	74.45	-2,506.10	5,316.67	4,416.84	4,166.72	250.12	17.659		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,418.70	7,418.70	131.30	128.50	70.28	-2,506.10	5,316.67	4,401.98	4,150.87	251.11	17.530		
9,800.00	7,499.38	7,452.38	7,452.38	131.78	129.09	66.58	-2,506.10	5,316.67	4,383.25	4,131.21	252.04	17.391		
9,850.00	7,531.58	7,484.58	7,484.58	132.21	129.65	63.38	-2,506.10	5,316.67	4,360.78	4,107.86	252.91	17.242		
9,900.00	7,562.06	7,515.06	7,515.06	132.57	130.19	60.68	-2,506.10	5,316.67	4,334.72	4,080.99	253.72	17.084		
9,950.00	7,590.58	7,543.58	7,543.58	132.87	130.68	58.47	-2,506.10	5,316.67	4,305.24	4,050.78	254.46	16.919		
10,000.00	7,616.93	7,569.93	7,569.93	133.11	131.14	56.77	-2,506.10	5,316.67	4,272.54	4,017.41	255.13	16.747		
10,050.00	7,640.90	7,606.10	7,593.90	133.29	131.77	55.58	-2,506.10	5,316.67	4,236.84	3,980.91	255.93	16.555		
10,100.00	7,662.32	7,615.32	7,615.32	133.42	131.93	54.92	-2,506.10	5,316.67	4,198.39	3,942.16	256.23	16.385		
10,150.00	7,681.01	7,634.01	7,634.01	133.50	132.26	54.86	-2,506.10	5,316.67	4,157.44	3,900.78	256.66	16.198		
10,200.00	7,696.85	7,649.85	7,649.85	133.52	132.54	55.53	-2,506.10	5,316.67	4,114.27	3,857.25	257.01	16.008		
10,250.00	7,709.70	7,662.70	7,662.70	133.51	132.76	57.19	-2,506.10	5,316.67	4,069.18	3,811.88	257.29	15.815		
10,300.00	7,719.47	7,672.47	7,672.47	133.46	132.93	60.35	-2,506.10	5,316.67	4,022.48	3,764.98	257.50	15.622		
10,350.00	7,726.09	7,679.09	7,679.09	133.37	133.05	66.23	-2,506.10	5,316.67	3,974.50	3,716.88	257.63	15.427		
10,400.00	7,729.50	7,682.50	7,682.50	133.26	133.11	78.01	-2,506.10	5,316.67	3,925.59	3,667.90	257.69	15.234		
10,427.79	7,730.00	7,683.00	7,683.00	133.18	133.12	90.00	-2,506.10	5,316.67	3,898.12	3,640.42	257.70	15.126		
10,500.00	7,730.00	7,683.00	7,683.00	132.98	133.12	90.00	-2,506.10	5,316.67	3,826.60	3,568.90	257.70	14.849		
10,600.00	7,730.00	7,683.00	7,683.00	132.72	133.12	90.00	-2,506.10	5,316.67	3,727.59	3,469.89	257.70	14.465		
10,700.00	7,730.00	7,683.00	7,683.00	132.47	133.12	90.00	-2,506.10	5,316.67	3,628.63	3,370.94	257.69	14.081		
10,800.00	7,730.00	7,683.00	7,683.00	132.22	133.12	90.00	-2,506.10	5,316.67	3,529.73	3,272.05	257.69	13.698		
10,900.00	7,730.00	7,683.00	7,683.00	131.99	133.12	90.00	-2,506.10	5,316.67	3,430.90	3,173.22	257.68	13.314		
11,000.00	7,730.00	7,683.00	7,683.00	131.77	133.12	90.00	-2,506.10	5,316.67	3,332.14	3,074.46	257.67	12.932		
11,100.00	7,730.00	7,683.00	7,683.00	131.56	133.12	90.00	-2,506.10	5,316.67	3,233.45	2,975.78	257.66	12.549		
11,200.00	7,730.00	7,683.00	7,683.00	131.36	133.12	90.00	-2,506.10	5,316.67	3,134.84	2,877.19	257.65	12.167		
11,300.00	7,730.00	7,683.00	7,683.00	131.17	133.12	90.00	-2,506.10	5,316.67	3,036.33	2,778.70	257.63	11.785		
11,400.00	7,730.00	7,683.00	7,683.00	130.99	133.12	90.00	-2,506.10	5,316.67	2,937.91	2,680.30	257.61	11.404		
11,500.00	7,730.00	7,683.00	7,683.00	130.82	133.12	90.00	-2,506.10	5,316.67	2,839.61	2,582.02	257.59	11.024		
11,600.00	7,730.00	7,683.00	7,683.00	130.66	133.12	90.00	-2,506.10	5,316.67	2,741.43	2,483.87	257.56	10.644		
11,700.00	7,730.00	7,683.00	7,683.00	130.51	133.12	90.00	-2,506.10	5,316.67	2,643.39	2,385.87	257.52	10.265		
11,800.00	7,730.00	7,683.00	7,683.00	130.37	133.12	90.00	-2,506.10	5,316.67	2,545.50	2,288.02	257.48	9.886		
11,900.00	7,730.00	7,683.00	7,683.00	130.24	133.12	90.00	-2,506.10	5,316.67	2,447.77	2,190.35	257.42	9.509		
12,000.00	7,730.00	7,683.00	7,683.00	130.13	133.12	90.00	-2,506.10	5,316.67	2,350.25	2,092.89	257.36	9.132		
12,100.00	7,730.00	7,683.00	7,683.00	130.02	133.12	90.00	-2,506.10	5,316.67	2,252.93	1,995.65	257.28	8.757		
12,200.00	7,730.00	7,683.00	7,683.00	129.93	133.12	90.00	-2,506.10	5,316.67	2,155.87	1,898.68	257.18	8.383		
12,300.00	7,730.00	7,683.00	7,683.00	129.85	133.12	90.00	-2,506.10	5,316.67	2,059.08	1,802.01	257.07	8.010		
12,400.00	7,730.00	7,683.00	7,683.00	129.77	133.12	90.00	-2,506.10	5,316.67	1,962.62	1,705.69	256.93	7.639		
12,500.00	7,730.00	7,683.00	7,683.00	129.71	133.12	90.00	-2,506.10	5,316.67	1,866.52	1,609.77	256.76	7.270		
12,600.00	7,730.00	7,683.00	7,683.00	129.66	133.12	90.00	-2,506.10	5,316.67	1,770.87	1,514.32	256.55	6.903		
12,700.00	7,730.00	7,683.00	7,683.00	129.63	133.12	90.00	-2,506.10	5,316.67	1,675.71	1,419.43	256.29	6.538		
12,800.00	7,730.00	7,683.00	7,683.00	129.60	133.12	90.00	-2,506.10	5,316.67	1,581.16	1,325.20	255.96	6.177		
12,900.00	7,730.00	7,683.00	7,683.00	129.59	133.12	90.00	-2,506.10	5,316.67	1,487.32	1,231.76	255.56	5.820		
13,000.00	7,730.00	7,683.00	7,683.00	129.59	133.12	90.00	-2,506.10	5,316.67	1,394.34	1,139.28	255.06	5.467		
13,100.00	7,730.00	7,683.00	7,683.00	129.60	133.12	90.00	-2,506.10	5,316.67	1,302.39	1,047.98	254.41	5.119		
13,200.00	7,730.00	7,683.00	7,683.00	129.63	133.12	90.00	-2,506.10	5,316.67	1,211.73	958.13	253.59	4.778		
13,300.00	7,730.00	7,683.00	7,683.00	129.66	133.12	90.00	-2,506.10	5,316.67	1,122.64	870.11	252.53	4.446		
13,400.00	7,730.00	7,683.00	7,683.00	129.72	133.12	90.00	-2,506.10	5,316.67	1,035.56	784.42	251.14	4.123		
13,500.00	7,730.00	7,683.00	7,683.00	129.78	133.12	90.00	-2,506.10	5,316.67	951.02	701.70	249.31	3.815		
13,600.00	7,730.00	7,683.00	7,683.00	129.86	133.12	90.00	-2,506.10	5,316.67	869.76	622.88	246.88	3.523		
13,700.00	7,730.00	7,683.00	7,683.00	129.96	133.12	90.00	-2,506.10	5,316.67	792.80	549.18	243.62	3.254		
13,800.00	7,730.00	7,683.00	7,683.00	130.07	133.12	90.00	-2,506.10	5,316.67	721.52	482.24	239.28	3.015		
13,900.00	7,730.00	7,683.00	7,683.00	130.19	133.12	90.00	-2,506.10	5,316.67	657.76	424.20	233.56	2.816		
14,000.00	7,730.00	7,683.00	7,683.00	130.33	133.12	90.00	-2,506.10	5,316.67	603.90	377.57	226.33	2.668		
14,100.00	7,730.00	7,683.00	7,683.00	130.49	133.12	90.00	-2,506.10	5,316.67	562.80	344.86	217.94	2.582		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,683.00	7,683.00	130.67	133.12	90.00	-2,506.10	5,316.67	537.40	327.65	209.75	2.562 SF		
14,289.74	7,730.00	7,683.00	7,683.00	130.84	133.12	90.00	-2,506.10	5,316.67	529.85	325.28	204.58	2.590 CC, ES		
14,300.00	7,730.00	7,683.00	7,683.00	130.86	133.12	90.00	-2,506.10	5,316.67	529.95	325.75	204.21	2.595		
14,400.00	7,730.00	7,683.00	7,683.00	131.07	133.12	90.00	-2,506.10	5,316.67	541.21	337.74	203.46	2.660		
14,500.00	7,730.00	7,683.00	7,683.00	131.30	133.12	90.00	-2,506.10	5,316.67	570.05	362.79	207.26	2.750		
14,600.00	7,730.00	7,683.00	7,683.00	131.55	133.12	90.00	-2,506.10	5,316.67	614.01	400.61	213.40	2.877		
14,700.00	7,730.00	7,683.00	7,683.00	131.82	133.12	90.00	-2,506.10	5,316.67	670.12	450.24	219.88	3.048		
14,800.00	7,730.00	7,683.00	7,683.00	132.11	133.12	90.00	-2,506.10	5,316.67	735.60	509.91	225.70	3.259		
14,900.00	7,730.00	7,683.00	7,683.00	132.42	133.12	90.00	-2,506.10	5,316.67	808.19	577.62	230.56	3.505		
15,000.00	7,730.00	7,683.00	7,683.00	132.75	133.12	90.00	-2,506.10	5,316.67	886.12	651.60	234.52	3.778		
15,100.00	7,730.00	7,683.00	7,683.00	133.10	133.12	90.00	-2,506.10	5,316.67	968.13	730.42	237.71	4.073		
15,200.00	7,730.00	7,683.00	7,683.00	133.48	133.12	90.00	-2,506.10	5,316.67	1,053.24	812.96	240.28	4.383		
15,300.00	7,730.00	7,683.00	7,683.00	133.88	133.12	90.00	-2,506.10	5,316.67	1,140.78	898.40	242.37	4.707		
15,400.00	7,730.00	7,683.00	7,683.00	134.31	133.12	90.00	-2,506.10	5,316.67	1,230.21	986.13	244.09	5.040		
15,500.00	7,730.00	7,683.00	7,683.00	134.76	133.12	90.00	-2,506.10	5,316.67	1,321.16	1,075.66	245.50	5.381		
15,600.00	7,730.00	7,683.00	7,683.00	135.23	133.12	90.00	-2,506.10	5,316.67	1,413.34	1,166.65	246.69	5.729		
15,700.00	7,730.00	7,683.00	7,683.00	135.73	133.12	90.00	-2,506.10	5,316.67	1,506.51	1,258.83	247.69	6.082		
15,800.00	7,730.00	7,683.00	7,683.00	136.26	133.12	90.00	-2,506.10	5,316.67	1,600.51	1,351.97	248.54	6.440		
15,900.00	7,730.00	7,683.00	7,683.00	136.81	133.12	90.00	-2,506.10	5,316.67	1,695.19	1,445.93	249.27	6.801		
16,000.00	7,730.00	7,683.00	7,683.00	137.39	133.12	90.00	-2,506.10	5,316.67	1,790.46	1,540.56	249.90	7.165		
16,100.00	7,730.00	7,683.00	7,683.00	138.00	133.12	90.00	-2,506.10	5,316.67	1,886.21	1,635.76	250.45	7.531		
16,200.00	7,730.00	7,683.00	7,683.00	138.63	133.12	90.00	-2,506.10	5,316.67	1,982.38	1,731.45	250.94	7.900		
16,300.00	7,730.00	7,683.00	7,683.00	139.30	133.12	90.00	-2,506.10	5,316.67	2,078.92	1,827.55	251.36	8.271		
16,400.00	7,730.00	7,683.00	7,683.00	139.99	133.12	90.00	-2,506.10	5,316.67	2,175.76	1,924.02	251.75	8.643		
16,500.00	7,730.00	7,683.00	7,683.00	140.70	133.12	90.00	-2,506.10	5,316.67	2,272.88	2,020.80	252.09	9.016		
16,600.00	7,730.00	7,683.00	7,683.00	141.45	133.12	90.00	-2,506.10	5,316.67	2,370.24	2,117.85	252.39	9.391		
16,700.00	7,730.00	7,683.00	7,683.00	142.22	133.12	90.00	-2,506.10	5,316.67	2,467.81	2,215.14	252.67	9.767		
16,800.00	7,730.00	7,683.00	7,683.00	143.03	133.12	90.00	-2,506.10	5,316.67	2,565.57	2,312.65	252.92	10.144		
16,900.00	7,730.00	7,683.00	7,683.00	143.86	133.12	90.00	-2,506.10	5,316.67	2,663.50	2,410.34	253.15	10.521		
17,000.00	7,730.00	7,683.00	7,683.00	144.71	133.12	90.00	-2,506.10	5,316.67	2,761.57	2,508.21	253.36	10.900		
17,100.00	7,730.00	7,683.00	7,683.00	145.60	133.12	90.00	-2,506.10	5,316.67	2,859.77	2,606.22	253.55	11.279		
17,200.00	7,730.00	7,683.00	7,683.00	146.51	133.12	90.00	-2,506.10	5,316.67	2,958.10	2,704.37	253.73	11.658		
17,300.00	7,730.00	7,683.00	7,683.00	147.44	133.12	90.00	-2,506.10	5,316.67	3,056.54	2,802.64	253.90	12.038		
17,400.00	7,730.00	7,683.00	7,683.00	148.40	133.12	90.00	-2,506.10	5,316.67	3,155.07	2,901.02	254.05	12.419		
17,500.00	7,730.00	7,683.00	7,683.00	149.39	133.12	90.00	-2,506.10	5,316.67	3,253.69	2,999.50	254.19	12.800		
17,600.00	7,730.00	7,683.00	7,683.00	150.40	133.12	90.00	-2,506.10	5,316.67	3,352.40	3,098.07	254.33	13.181		
17,700.00	7,730.00	7,683.00	7,683.00	151.44	133.12	90.00	-2,506.10	5,316.67	3,451.18	3,196.73	254.45	13.563		
17,800.00	7,730.00	7,683.00	7,683.00	152.50	133.12	90.00	-2,506.10	5,316.67	3,550.02	3,295.46	254.57	13.945		
17,900.00	7,730.00	7,683.00	7,683.00	153.58	133.12	90.00	-2,506.10	5,316.67	3,648.94	3,394.26	254.68	14.328		
18,000.00	7,730.00	7,683.00	7,683.00	154.68	133.12	90.00	-2,506.10	5,316.67	3,747.90	3,493.12	254.78	14.710		
18,100.00	7,730.00	7,683.00	7,683.00	155.80	133.12	90.00	-2,506.10	5,316.67	3,846.92	3,592.04	254.88	15.093		
18,200.00	7,730.00	7,683.00	7,683.00	156.95	133.12	90.00	-2,506.10	5,316.67	3,946.00	3,691.02	254.98	15.476		
18,300.00	7,730.00	7,683.00	7,683.00	158.11	133.12	90.00	-2,506.10	5,316.67	4,045.11	3,790.05	255.07	15.859		
18,400.00	7,730.00	7,683.00	7,683.00	159.30	133.12	90.00	-2,506.10	5,316.67	4,144.27	3,889.12	255.15	16.242		
18,500.00	7,730.00	7,683.00	7,683.00	160.50	133.12	90.00	-2,506.10	5,316.67	4,243.47	3,988.24	255.23	16.626		
18,600.00	7,730.00	7,683.00	7,683.00	161.72	133.12	90.00	-2,506.10	5,316.67	4,342.71	4,087.40	255.31	17.010		
18,700.00	7,730.00	7,683.00	7,683.00	162.96	133.12	90.00	-2,506.10	5,316.67	4,441.98	4,186.59	255.38	17.393		
18,800.00	7,730.00	7,683.00	7,683.00	164.21	133.12	90.00	-2,506.10	5,316.67	4,541.28	4,285.82	255.46	17.777		
18,900.00	7,730.00	7,683.00	7,683.00	165.48	133.12	90.00	-2,506.10	5,316.67	4,640.61	4,385.08	255.52	18.161		
19,000.00	7,730.00	7,683.00	7,683.00	166.76	133.12	90.00	-2,506.10	5,316.67	4,739.97	4,484.38	255.59	18.545		
19,100.00	7,730.00	7,683.00	7,683.00	168.06	133.12	90.00	-2,506.10	5,316.67	4,839.35	4,583.70	255.65	18.929		
19,200.00	7,730.00	7,683.00	7,683.00	169.38	133.12	90.00	-2,506.10	5,316.67	4,938.77	4,683.05	255.72	19.313		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,683.00	7,683.00	170.70	133.12	90.00	-2,506.10	5,316.67	5,038.20	4,782.42	255.78	19.698	
19,400.00	7,730.00	7,683.00	7,683.00	172.04	133.12	90.00	-2,506.10	5,316.67	5,137.66	4,881.82	255.83	20.082	
19,500.00	7,730.00	7,683.00	7,683.00	173.40	133.12	90.00	-2,506.10	5,316.67	5,237.13	4,981.24	255.89	20.466	
19,600.00	7,730.00	7,683.00	7,683.00	174.76	133.12	90.00	-2,506.10	5,316.67	5,336.63	5,080.68	255.95	20.851	
19,700.00	7,730.00	7,683.00	7,683.00	176.14	133.12	90.00	-2,506.10	5,316.67	5,436.14	5,180.15	256.00	21.235	
19,800.00	7,730.00	7,683.00	7,683.00	177.52	133.12	90.00	-2,506.10	5,316.67	5,535.68	5,279.63	256.05	21.619	
19,900.00	7,730.00	7,683.00	7,683.00	178.92	133.12	90.00	-2,506.10	5,316.67	5,635.23	5,379.12	256.10	22.004	
20,000.00	7,730.00	7,683.00	7,683.00	180.33	133.12	90.00	-2,506.10	5,316.67	5,734.79	5,478.64	256.15	22.388	
20,100.00	7,730.00	7,683.00	7,683.00	181.75	133.12	90.00	-2,506.10	5,316.67	5,834.37	5,578.17	256.20	22.773	
20,184.95	7,730.00	7,683.00	7,683.00	182.96	133.12	90.00	-2,506.10	5,316.67	5,918.98	5,662.74	256.24	23.099	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	144.19	-4,236.85	3,057.03	5,224.65					
100.00	100.00	75.00	75.00	0.13	0.62	144.19	-4,236.85	3,057.03	5,224.59	5,223.83	0.76	6,908.993		
200.00	199.98	174.98	174.98	0.49	2.14	73.76	-4,236.85	3,057.03	5,224.10	5,221.47	2.63	1,988.045		
300.00	299.84	274.84	274.84	0.86	3.88	73.85	-4,236.85	3,057.03	5,222.64	5,217.91	4.73	1,103.421		
400.00	399.45	374.45	374.45	1.23	5.62	73.98	-4,236.85	3,057.03	5,220.22	5,213.37	6.85	762.352		
500.00	498.70	473.70	473.70	1.63	7.35	74.18	-4,236.85	3,057.03	5,216.85	5,207.88	8.97	581.334		
600.00	597.47	572.47	572.47	2.05	9.08	74.42	-4,236.85	3,057.03	5,212.57	5,201.45	11.12	468.921		
700.00	695.62	670.62	670.62	2.51	10.79	74.72	-4,236.85	3,057.03	5,207.40	5,194.12	13.28	392.195		
800.00	793.06	768.06	768.06	3.00	12.49	75.07	-4,236.85	3,057.03	5,201.40	5,185.93	15.46	336.401		
900.00	889.64	864.64	864.64	3.53	14.17	75.47	-4,236.85	3,057.03	5,194.60	5,176.93	17.67	293.944		
1,000.00	985.27	960.27	960.27	4.12	15.84	75.92	-4,236.85	3,057.03	5,187.06	5,167.15	19.91	260.513		
1,100.00	1,079.82	1,054.82	1,054.82	4.75	17.49	76.41	-4,236.85	3,057.03	5,178.86	5,156.67	22.18	233.481		
1,200.00	1,173.17	1,148.17	1,148.17	5.44	19.12	76.94	-4,236.85	3,057.03	5,170.04	5,145.56	24.48	211.154		
1,300.00	1,265.21	1,240.21	1,240.21	6.18	20.73	77.51	-4,236.85	3,057.03	5,160.70	5,133.88	26.82	192.393		
1,400.00	1,355.84	1,330.84	1,330.84	6.99	22.31	78.13	-4,236.85	3,057.03	5,150.91	5,121.71	29.20	176.403		
1,500.00	1,444.94	1,419.94	1,419.94	7.87	23.87	78.77	-4,236.85	3,057.03	5,140.76	5,109.14	31.61	162.610		
1,600.00	1,532.39	1,507.39	1,507.39	8.80	25.39	79.44	-4,236.85	3,057.03	5,130.34	5,096.27	34.07	150.592		
1,700.00	1,618.11	1,606.89	1,593.11	9.81	27.13	80.14	-4,236.85	3,057.03	5,119.75	5,082.95	36.80	139.116		
1,800.00	1,701.97	1,676.97	1,676.97	10.89	28.35	80.86	-4,236.85	3,057.03	5,109.09	5,070.00	39.10	130.682		
1,900.00	1,783.88	1,758.88	1,758.88	12.04	29.78	81.59	-4,236.85	3,057.03	5,098.47	5,056.80	41.67	122.353		
2,000.00	1,863.74	1,838.74	1,838.74	13.26	31.18	82.34	-4,236.85	3,057.03	5,088.00	5,043.72	44.28	114.893		
2,100.00	1,941.45	1,916.45	1,916.45	14.55	32.53	83.09	-4,236.85	3,057.03	5,077.80	5,030.86	46.94	108.181		
2,200.00	2,016.92	2,008.08	1,991.92	15.92	34.13	83.85	-4,236.85	3,057.03	5,067.96	5,018.05	49.91	101.539		
2,292.11	2,084.36	2,059.36	2,059.36	17.25	35.03	84.54	-4,236.85	3,057.03	5,059.34	5,007.20	52.14	97.033		
2,300.00	2,090.06	2,065.06	2,065.06	17.36	35.13	84.58	-4,236.85	3,057.03	5,058.63	5,006.27	52.36	96.619		
2,400.00	2,162.18	2,137.18	2,137.18	18.84	36.38	85.15	-4,236.85	3,057.03	5,050.06	4,994.96	55.11	91.640		
2,500.00	2,234.31	2,209.31	2,209.31	20.33	37.64	85.72	-4,236.85	3,057.03	5,042.44	4,984.57	57.87	87.132		
2,600.00	2,306.43	2,281.43	2,281.43	21.83	38.90	86.29	-4,236.85	3,057.03	5,035.76	4,975.11	60.64	83.037		
2,700.00	2,378.56	2,353.56	2,353.56	23.33	40.16	86.85	-4,236.85	3,057.03	5,030.02	4,966.60	63.43	79.306		
2,800.00	2,450.68	2,425.68	2,425.68	24.84	41.42	87.42	-4,236.85	3,057.03	5,025.23	4,959.02	66.21	75.897		
2,900.00	2,522.81	2,502.19	2,497.81	26.36	42.76	87.99	-4,236.85	3,057.03	5,021.39	4,952.32	69.08	72.692		
3,000.00	2,594.93	2,569.93	2,569.93	27.88	43.94	88.56	-4,236.85	3,057.03	5,018.51	4,946.72	71.79	69.904		
3,100.00	2,667.06	2,642.06	2,642.06	29.40	45.20	89.13	-4,236.85	3,057.03	5,016.58	4,942.00	74.58	67.262		
3,200.00	2,739.18	2,714.18	2,714.18	30.92	46.46	89.70	-4,236.85	3,057.03	5,015.61	4,938.23	77.37	64.823		
3,251.81	2,776.55	2,751.55	2,751.55	31.71	47.11	90.00	-4,236.85	3,057.03	5,015.48	4,936.66	78.82	63.633		
3,300.00	2,811.31	2,786.31	2,786.31	32.45	47.71	90.28	-4,236.85	3,057.03	5,015.59	4,935.43	80.16	62.568		
3,400.00	2,883.43	2,858.43	2,858.43	33.98	48.97	90.85	-4,236.85	3,057.03	5,016.53	4,933.58	82.95	60.478		
3,500.00	2,955.56	2,930.56	2,930.56	35.51	50.23	91.42	-4,236.85	3,057.03	5,018.42	4,932.70	85.73	58.539		
3,600.00	3,027.68	3,002.68	3,002.68	37.04	51.49	91.99	-4,236.85	3,057.03	5,021.27	4,932.77	88.50	56.735		
3,700.00	3,099.81	3,074.81	3,074.81	38.57	52.75	92.56	-4,236.85	3,057.03	5,025.08	4,933.80	91.27	55.056		
3,800.00	3,171.93	3,146.93	3,146.93	40.11	54.01	93.13	-4,236.85	3,057.03	5,029.83	4,935.80	94.03	53.489		
3,900.00	3,244.06	3,219.06	3,219.06	41.64	55.27	93.69	-4,236.85	3,057.03	5,035.53	4,938.75	96.79	52.026		
4,000.00	3,316.18	3,308.82	3,291.18	43.18	56.83	94.26	-4,236.85	3,057.03	5,042.18	4,942.34	99.84	50.502		
4,100.00	3,388.31	3,363.31	3,363.31	44.71	57.78	94.83	-4,236.85	3,057.03	5,049.77	4,947.50	102.27	49.378		
4,200.00	3,460.43	3,435.43	3,435.43	46.25	59.04	95.40	-4,236.85	3,057.03	5,058.30	4,953.31	104.99	48.177		
4,300.00	3,532.56	3,507.56	3,507.56	47.79	60.30	95.96	-4,236.85	3,057.03	5,067.76	4,960.05	107.71	47.051		
4,400.00	3,604.68	3,579.68	3,579.68	49.33	61.56	96.52	-4,236.85	3,057.03	5,078.14	4,967.74	110.41	45.994		
4,500.00	3,676.81	3,651.81	3,651.81	50.87	62.82	97.09	-4,236.85	3,057.03	5,089.45	4,976.36	113.10	45.001		
4,600.00	3,748.93	3,723.93	3,723.93	52.41	64.08	97.65	-4,236.85	3,057.03	5,101.68	4,985.90	115.77	44.066		
4,700.00	3,821.06	3,803.94	3,796.06	53.95	65.48	98.21	-4,236.85	3,057.03	5,114.81	4,996.24	118.57	43.136		
4,800.00	3,893.18	3,868.18	3,868.18	55.49	66.60	98.77	-4,236.85	3,057.03	5,128.84	5,007.76	121.08	42.358		
4,900.00	3,965.31	3,940.31	3,940.31	57.03	67.86	99.32	-4,236.85	3,057.03	5,143.77	5,020.06	123.72	41.577		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,012.43	4,012.43	58.58	69.11	99.88	-4,236.85	3,057.03	5,159.59	5,033.25	126.33	40.841		
5,100.00	4,109.56	4,084.56	4,084.56	60.12	70.37	100.43	-4,236.85	3,057.03	5,176.28	5,047.35	128.94	40.146		
5,200.00	4,181.68	4,156.68	4,156.68	61.66	71.63	100.98	-4,236.85	3,057.03	5,193.85	5,062.33	131.52	39.490		
5,300.00	4,253.81	4,228.81	4,228.81	63.20	72.89	101.53	-4,236.85	3,057.03	5,212.27	5,078.18	134.09	38.871		
5,400.00	4,325.93	4,300.93	4,300.93	64.75	74.15	102.08	-4,236.85	3,057.03	5,231.55	5,094.91	136.65	38.286		
5,500.00	4,398.06	4,373.06	4,373.06	66.29	75.41	102.62	-4,236.85	3,057.03	5,251.67	5,112.49	139.18	37.733		
5,600.00	4,470.18	4,445.18	4,445.18	67.84	76.67	103.16	-4,236.85	3,057.03	5,272.63	5,130.93	141.70	37.210		
5,700.00	4,542.31	4,517.31	4,517.31	69.38	77.93	103.70	-4,236.85	3,057.03	5,294.41	5,150.21	144.20	36.715		
5,800.00	4,614.43	4,589.43	4,589.43	70.92	79.18	104.24	-4,236.85	3,057.03	5,317.00	5,170.31	146.69	36.248		
5,900.00	4,686.56	4,661.56	4,661.56	72.47	80.44	104.78	-4,236.85	3,057.03	5,340.39	5,191.24	149.15	35.805		
6,000.00	4,758.68	4,733.68	4,733.68	74.01	81.70	105.31	-4,236.85	3,057.03	5,364.58	5,212.98	151.60	35.387		
6,100.00	4,830.81	4,805.81	4,805.81	75.56	82.96	105.84	-4,236.85	3,057.03	5,389.55	5,235.52	154.03	34.990		
6,200.00	4,902.93	4,877.93	4,877.93	77.10	84.22	106.37	-4,236.85	3,057.03	5,415.29	5,258.85	156.44	34.615		
6,300.00	4,975.06	4,950.06	4,950.06	78.65	85.48	106.89	-4,236.85	3,057.03	5,441.79	5,282.95	158.84	34.261		
6,400.00	5,047.18	5,022.18	5,022.18	80.19	86.74	107.41	-4,236.85	3,057.03	5,469.03	5,307.82	161.21	33.925		
6,500.00	5,119.31	5,050.00	5,050.00	81.74	87.22	107.61	-4,236.85	3,057.03	5,497.20	5,334.43	162.77	33.774		
6,600.00	5,191.43	5,050.00	5,050.00	83.28	87.22	107.61	-4,236.85	3,057.03	5,526.96	5,363.19	163.77	33.748		
6,700.00	5,263.56	5,050.00	5,050.00	84.83	87.22	107.61	-4,236.85	3,057.03	5,558.36	5,393.63	164.73	33.742		
6,800.00	5,335.68	5,050.00	5,050.00	86.37	87.22	107.61	-4,236.85	3,057.03	5,591.37	5,425.73	165.65	33.755		
6,900.00	5,407.81	5,050.00	5,050.00	87.92	87.22	107.61	-4,236.85	3,057.03	5,625.97	5,459.46	166.51	33.787		
7,000.00	5,479.93	5,050.00	5,050.00	89.47	87.22	107.61	-4,236.85	3,057.03	5,662.12	5,494.78	167.34	33.836		
7,100.00	5,552.06	5,050.00	5,050.00	91.01	87.22	107.61	-4,236.85	3,057.03	5,699.80	5,531.68	168.12	33.904		
7,200.00	5,624.18	5,050.00	5,050.00	92.56	87.22	107.61	-4,236.85	3,057.03	5,738.97	5,570.12	168.85	33.988		
7,300.00	5,696.31	5,050.00	5,050.00	94.10	87.22	107.61	-4,236.85	3,057.03	5,779.61	5,610.06	169.55	34.088		
7,400.00	5,768.43	5,050.00	5,050.00	95.65	87.22	107.61	-4,236.85	3,057.03	5,821.68	5,651.48	170.20	34.204		
7,500.00	5,840.56	5,050.00	5,050.00	97.20	87.22	107.61	-4,236.85	3,057.03	5,865.16	5,694.34	170.82	34.336		
7,600.00	5,912.68	5,050.00	5,050.00	98.74	87.22	107.61	-4,236.85	3,057.03	5,910.00	5,738.61	171.39	34.482		
7,700.00	5,984.81	5,050.00	5,050.00	100.29	87.22	107.61	-4,236.85	3,057.03	5,956.19	5,784.26	171.93	34.643		
7,800.00	6,056.93	5,050.00	5,050.00	101.84	87.22	107.61	-4,236.85	3,057.03	6,003.69	5,831.26	172.43	34.818		
7,900.00	6,129.06	5,050.00	5,050.00	103.38	87.22	107.61	-4,236.85	3,057.03	6,052.47	5,879.57	172.90	35.006		
8,000.00	6,201.18	5,050.00	5,050.00	104.93	87.22	107.61	-4,236.85	3,057.03	6,102.50	5,929.17	173.33	35.207		
8,100.00	6,273.31	5,050.00	5,050.00	106.48	87.22	107.61	-4,236.85	3,057.03	6,153.75	5,980.01	173.74	35.420		
8,200.00	6,345.43	5,050.00	5,050.00	108.02	87.22	107.61	-4,236.85	3,057.03	6,206.18	6,032.07	174.11	35.646		
8,300.00	6,417.56	5,050.00	5,050.00	109.57	87.22	107.61	-4,236.85	3,057.03	6,259.77	6,085.32	174.45	35.883		
8,400.00	6,489.68	5,050.00	5,050.00	111.12	87.22	107.61	-4,236.85	3,057.03	6,314.49	6,139.73	174.76	36.132		
8,500.00	6,561.81	5,050.00	5,050.00	112.66	87.22	107.61	-4,236.85	3,057.03	6,370.32	6,195.27	175.05	36.392		
8,600.00	6,633.93	5,050.00	5,050.00	114.21	87.22	107.61	-4,236.85	3,057.03	6,427.21	6,251.90	175.31	36.663		
8,700.00	6,706.06	5,050.00	5,050.00	115.76	87.22	107.61	-4,236.85	3,057.03	6,485.14	6,309.60	175.54	36.944		
8,800.00	6,778.18	5,050.00	5,050.00	117.30	87.22	107.61	-4,236.85	3,057.03	6,544.10	6,368.34	175.75	37.234		
8,900.00	6,850.31	5,050.00	5,050.00	118.85	87.22	107.61	-4,236.85	3,057.03	6,604.03	6,428.09	175.94	37.535		
9,000.00	6,922.43	5,050.00	5,050.00	120.40	87.22	107.61	-4,236.85	3,057.03	6,664.93	6,488.82	176.11	37.845		
9,100.00	6,994.56	5,050.00	5,050.00	121.95	87.22	107.61	-4,236.85	3,057.03	6,726.77	6,550.51	176.26	38.164		
9,200.00	7,066.68	5,050.00	5,050.00	123.49	87.22	107.61	-4,236.85	3,057.03	6,789.52	6,613.13	176.39	38.492		
9,300.00	7,138.81	5,050.00	5,050.00	125.04	87.22	107.61	-4,236.85	3,057.03	6,853.15	6,676.65	176.50	38.828		
9,392.50	7,205.52	5,050.00	5,050.00	126.47	87.22	107.61	-4,236.85	3,057.03	6,912.77	6,736.18	176.59	39.146		
9,400.00	7,210.94	5,050.00	5,050.00	126.59	87.22	106.82	-4,236.85	3,057.03	6,917.60	6,741.00	176.60	39.172		
9,450.00	7,247.42	5,050.00	5,050.00	127.35	87.22	101.39	-4,236.85	3,057.03	6,947.95	6,771.31	176.64	39.334		
9,500.00	7,284.35	5,050.00	5,050.00	128.10	87.22	95.78	-4,236.85	3,057.03	6,974.99	6,798.30	176.69	39.476		
9,550.00	7,321.43	5,050.00	5,050.00	128.83	87.22	90.13	-4,236.85	3,057.03	6,998.53	6,821.79	176.73	39.599		
9,600.00	7,358.38	5,050.00	5,050.00	129.52	87.22	84.58	-4,236.85	3,057.03	7,018.43	6,841.66	176.77	39.703		
9,650.00	7,394.93	5,050.00	5,050.00	130.16	87.22	79.24	-4,236.85	3,057.03	7,034.59	6,857.79	176.80	39.788		
9,700.00	7,430.79	5,050.00	5,050.00	130.76	87.22	74.23	-4,236.85	3,057.03	7,046.89	6,870.08	176.82	39.854		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,050.00	5,050.00	131.30	87.22	69.63	-4,236.85	3,057.03	7,055.27	6,878.46	176.81	39.903		
9,800.00	7,499.38	5,050.00	5,050.00	131.78	87.22	65.47	-4,236.85	3,057.03	7,059.68	6,882.90	176.78	39.934		
9,850.00	7,531.58	5,050.00	5,050.00	132.21	87.22	61.78	-4,236.85	3,057.03	7,060.09	6,883.36	176.73	39.949		
9,900.00	7,562.06	5,050.00	5,050.00	132.57	87.22	58.54	-4,236.85	3,057.03	7,056.49	6,879.84	176.65	39.947		
9,950.00	7,590.58	5,050.00	5,050.00	132.87	87.22	55.73	-4,236.85	3,057.03	7,048.92	6,872.38	176.54	39.928		
10,000.00	7,616.93	5,050.00	5,050.00	133.11	87.22	53.33	-4,236.85	3,057.03	7,037.41	6,861.00	176.41	39.893		
10,050.00	7,640.90	5,050.00	5,050.00	133.29	87.22	51.31	-4,236.85	3,057.03	7,022.03	6,845.78	176.24	39.843		
10,100.00	7,662.32	5,050.00	5,050.00	133.42	87.22	49.64	-4,236.85	3,057.03	7,002.88	6,826.82	176.06	39.776		
10,150.00	7,681.01	5,050.00	5,050.00	133.50	87.22	48.30	-4,236.85	3,057.03	6,980.06	6,804.21	175.85	39.693		
10,200.00	7,696.85	5,050.00	5,050.00	133.52	87.22	47.27	-4,236.85	3,057.03	6,953.73	6,778.10	175.62	39.595		
10,250.00	7,709.70	5,050.00	5,050.00	133.51	87.22	46.53	-4,236.85	3,057.03	6,924.03	6,748.65	175.38	39.479		
10,300.00	7,719.47	5,050.00	5,050.00	133.46	87.22	46.09	-4,236.85	3,057.03	6,891.17	6,716.03	175.13	39.348		
10,350.00	7,726.09	5,050.00	5,050.00	133.37	87.22	45.94	-4,236.85	3,057.03	6,855.33	6,680.45	174.88	39.200		
10,400.00	7,729.50	5,050.00	5,050.00	133.26	87.22	46.11	-4,236.85	3,057.03	6,816.75	6,642.12	174.63	39.035		
10,427.79	7,730.00	5,050.00	5,050.00	133.18	87.22	46.35	-4,236.85	3,057.03	6,794.21	6,619.71	174.50	38.936		
10,500.00	7,730.00	5,050.00	5,050.00	132.98	87.22	46.35	-4,236.85	3,057.03	6,734.81	6,560.67	174.14	38.674		
10,600.00	7,730.00	5,050.00	5,050.00	132.72	87.22	46.35	-4,236.85	3,057.03	6,652.98	6,479.34	173.64	38.315		
10,700.00	7,730.00	5,050.00	5,050.00	132.47	87.22	46.35	-4,236.85	3,057.03	6,571.64	6,398.52	173.12	37.960		
10,800.00	7,730.00	5,050.00	5,050.00	132.22	87.22	46.35	-4,236.85	3,057.03	6,490.83	6,318.24	172.58	37.610		
10,900.00	7,730.00	5,050.00	5,050.00	131.99	87.22	46.35	-4,236.85	3,057.03	6,410.55	6,238.52	172.03	37.264		
11,000.00	7,730.00	5,050.00	5,050.00	131.77	87.22	46.35	-4,236.85	3,057.03	6,330.84	6,159.38	171.46	36.922		
11,100.00	7,730.00	5,050.00	5,050.00	131.56	87.22	46.35	-4,236.85	3,057.03	6,251.72	6,080.84	170.88	36.586		
11,200.00	7,730.00	5,050.00	5,050.00	131.36	87.22	46.35	-4,236.85	3,057.03	6,173.20	6,002.92	170.28	36.254		
11,300.00	7,730.00	5,050.00	5,050.00	131.17	87.22	46.35	-4,236.85	3,057.03	6,095.30	5,925.65	169.65	35.928		
11,400.00	7,730.00	5,050.00	5,050.00	130.99	87.22	46.35	-4,236.85	3,057.03	6,018.06	5,849.05	169.01	35.607		
11,500.00	7,730.00	5,050.00	5,050.00	130.82	87.22	46.35	-4,236.85	3,057.03	5,941.50	5,773.15	168.36	35.291		
11,600.00	7,730.00	5,050.00	5,050.00	130.66	87.22	46.35	-4,236.85	3,057.03	5,865.65	5,697.97	167.68	34.981		
11,700.00	7,730.00	5,050.00	5,050.00	130.51	87.22	46.35	-4,236.85	3,057.03	5,790.53	5,623.55	166.98	34.678		
11,800.00	7,730.00	5,050.00	5,050.00	130.37	87.22	46.35	-4,236.85	3,057.03	5,716.17	5,549.91	166.26	34.380		
11,900.00	7,730.00	5,050.00	5,050.00	130.24	87.22	46.35	-4,236.85	3,057.03	5,642.60	5,477.08	165.53	34.089		
12,000.00	7,730.00	5,050.00	5,050.00	130.13	87.22	46.35	-4,236.85	3,057.03	5,569.86	5,405.09	164.77	33.805		
12,100.00	7,730.00	5,050.00	5,050.00	130.02	87.22	46.35	-4,236.85	3,057.03	5,497.97	5,333.99	163.99	33.527		
12,200.00	7,730.00	5,050.00	5,050.00	129.93	87.22	46.35	-4,236.85	3,057.03	5,426.98	5,263.79	163.19	33.256		
12,300.00	7,730.00	5,050.00	5,050.00	129.85	87.22	46.35	-4,236.85	3,057.03	5,356.91	5,194.54	162.36	32.993		
12,400.00	7,730.00	5,050.00	5,050.00	129.77	87.22	46.35	-4,236.85	3,057.03	5,287.80	5,126.28	161.52	32.737		
12,500.00	7,730.00	5,050.00	5,050.00	129.71	87.22	46.35	-4,236.85	3,057.03	5,219.70	5,059.04	160.66	32.489		
12,600.00	7,730.00	5,050.00	5,050.00	129.66	87.22	46.35	-4,236.85	3,057.03	5,152.63	4,992.86	159.77	32.249		
12,700.00	7,730.00	5,050.00	5,050.00	129.63	87.22	46.35	-4,236.85	3,057.03	5,086.65	4,927.78	158.87	32.018		
12,800.00	7,730.00	5,050.00	5,050.00	129.60	87.22	46.35	-4,236.85	3,057.03	5,021.79	4,863.84	157.95	31.794		
12,900.00	7,730.00	5,050.00	5,050.00	129.59	87.22	46.35	-4,236.85	3,057.03	4,958.10	4,801.09	157.00	31.580		
13,000.00	7,730.00	5,050.00	5,050.00	129.59	87.22	46.35	-4,236.85	3,057.03	4,895.62	4,739.58	156.04	31.374		
13,100.00	7,730.00	5,050.00	5,050.00	129.60	87.22	46.35	-4,236.85	3,057.03	4,834.41	4,679.34	155.06	31.177		
13,200.00	7,730.00	5,050.00	5,050.00	129.63	87.22	46.35	-4,236.85	3,057.03	4,774.50	4,620.43	154.07	30.989		
13,300.00	7,730.00	5,050.00	5,050.00	129.66	87.22	46.35	-4,236.85	3,057.03	4,715.96	4,562.89	153.07	30.810		
13,400.00	7,730.00	5,050.00	5,050.00	129.72	87.22	46.35	-4,236.85	3,057.03	4,658.82	4,506.77	152.05	30.640		
13,500.00	7,730.00	5,050.00	5,050.00	129.78	87.22	46.35	-4,236.85	3,057.03	4,603.15	4,452.13	151.02	30.480		
13,600.00	7,730.00	5,050.00	5,050.00	129.86	87.22	46.35	-4,236.85	3,057.03	4,549.00	4,399.01	149.99	30.329		
13,700.00	7,730.00	5,050.00	5,050.00	129.96	87.22	46.35	-4,236.85	3,057.03	4,496.41	4,347.46	148.95	30.187		
13,800.00	7,730.00	5,050.00	5,050.00	130.07	87.22	46.35	-4,236.85	3,057.03	4,445.46	4,297.54	147.92	30.054		
13,900.00	7,730.00	5,050.00	5,050.00	130.19	87.22	46.35	-4,236.85	3,057.03	4,396.19	4,249.31	146.88	29.930		
14,000.00	7,730.00	5,050.00	5,050.00	130.33	87.22	46.35	-4,236.85	3,057.03	4,348.66	4,202.81	145.86	29.814		
14,100.00	7,730.00	5,050.00	5,050.00	130.49	87.22	46.35	-4,236.85	3,057.03	4,302.93	4,158.09	144.85	29.707		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,050.00	5,050.00	130.67	87.22	46.35	-4,236.85	3,057.03	4,259.06	4,115.21	143.85	29.608		
14,300.00	7,730.00	5,050.00	5,050.00	130.86	87.22	46.35	-4,236.85	3,057.03	4,217.11	4,074.23	142.88	29.515		
14,400.00	7,730.00	5,050.00	5,050.00	131.07	87.22	46.35	-4,236.85	3,057.03	4,177.13	4,035.19	141.94	29.430		
14,500.00	7,730.00	5,050.00	5,050.00	131.30	87.22	46.35	-4,236.85	3,057.03	4,139.17	3,998.15	141.03	29.350		
14,600.00	7,730.00	5,050.00	5,050.00	131.55	87.22	46.35	-4,236.85	3,057.03	4,103.31	3,963.15	140.16	29.276		
14,700.00	7,730.00	5,050.00	5,050.00	131.82	87.22	46.35	-4,236.85	3,057.03	4,069.58	3,930.24	139.34	29.206		
14,800.00	7,730.00	5,050.00	5,050.00	132.11	87.22	46.35	-4,236.85	3,057.03	4,038.05	3,899.48	138.57	29.140		
14,900.00	7,730.00	5,050.00	5,050.00	132.42	87.22	46.35	-4,236.85	3,057.03	4,008.77	3,870.90	137.87	29.077		
15,000.00	7,730.00	5,050.00	5,050.00	132.75	87.22	46.35	-4,236.85	3,057.03	3,981.79	3,844.56	137.23	29.015		
15,100.00	7,730.00	5,050.00	5,050.00	133.10	87.22	46.35	-4,236.85	3,057.03	3,957.15	3,820.48	136.67	28.955		
15,200.00	7,730.00	5,050.00	5,050.00	133.48	87.22	46.35	-4,236.85	3,057.03	3,934.89	3,798.71	136.18	28.895		
15,300.00	7,730.00	5,050.00	5,050.00	133.88	87.22	46.35	-4,236.85	3,057.03	3,915.07	3,779.29	135.78	28.834		
15,400.00	7,730.00	5,050.00	5,050.00	134.31	87.22	46.35	-4,236.85	3,057.03	3,897.71	3,762.24	135.47	28.771		
15,500.00	7,730.00	5,050.00	5,050.00	134.76	87.22	46.35	-4,236.85	3,057.03	3,882.85	3,747.59	135.26	28.707		
15,600.00	7,730.00	5,050.00	5,050.00	135.23	87.22	46.35	-4,236.85	3,057.03	3,870.52	3,735.37	135.14	28.641		
15,700.00	7,730.00	5,050.00	5,050.00	135.73	87.22	46.35	-4,236.85	3,057.03	3,860.73	3,725.61	135.12	28.572		
15,800.00	7,730.00	5,050.00	5,050.00	136.26	87.22	46.35	-4,236.85	3,057.03	3,853.52	3,718.31	135.21	28.500		
15,900.00	7,730.00	5,050.00	5,050.00	136.81	87.22	46.35	-4,236.85	3,057.03	3,848.90	3,713.50	135.40	28.426		
16,000.00	7,730.00	5,050.00	5,050.00	137.39	87.22	46.35	-4,236.85	3,057.03	3,846.87	3,711.18	135.69	28.351		
16,028.12	7,730.00	5,050.00	5,050.00	137.56	87.22	46.35	-4,236.85	3,057.03	3,846.76	3,710.98	135.79	28.329 CC, ES		
16,100.00	7,730.00	5,050.00	5,050.00	138.00	87.22	46.35	-4,236.85	3,057.03	3,847.44	3,711.36	136.08	28.274		
16,200.00	7,730.00	5,050.00	5,050.00	138.63	87.22	46.35	-4,236.85	3,057.03	3,850.60	3,714.04	136.57	28.196		
16,300.00	7,730.00	5,050.00	5,050.00	139.30	87.22	46.35	-4,236.85	3,057.03	3,856.36	3,719.21	137.15	28.118		
16,400.00	7,730.00	5,050.00	5,050.00	139.99	87.22	46.35	-4,236.85	3,057.03	3,864.70	3,726.88	137.82	28.041		
16,500.00	7,730.00	5,050.00	5,050.00	140.70	87.22	46.35	-4,236.85	3,057.03	3,875.60	3,737.02	138.58	27.967		
16,600.00	7,730.00	5,050.00	5,050.00	141.45	87.22	46.35	-4,236.85	3,057.03	3,889.04	3,749.63	139.41	27.896		
16,700.00	7,730.00	5,050.00	5,050.00	142.22	87.22	46.35	-4,236.85	3,057.03	3,905.00	3,764.68	140.32	27.829		
16,800.00	7,730.00	5,050.00	5,050.00	143.03	87.22	46.35	-4,236.85	3,057.03	3,923.44	3,782.15	141.29	27.768		
16,900.00	7,730.00	5,050.00	5,050.00	143.86	87.22	46.35	-4,236.85	3,057.03	3,944.33	3,802.01	142.32	27.714		
17,000.00	7,730.00	5,050.00	5,050.00	144.71	87.22	46.35	-4,236.85	3,057.03	3,967.64	3,824.23	143.41	27.667		
17,100.00	7,730.00	5,050.00	5,050.00	145.60	87.22	46.35	-4,236.85	3,057.03	3,993.31	3,848.77	144.54	27.629		
17,200.00	7,730.00	5,050.00	5,050.00	146.51	87.22	46.35	-4,236.85	3,057.03	4,021.31	3,875.61	145.70	27.600		
17,300.00	7,730.00	5,050.00	5,050.00	147.44	87.22	46.35	-4,236.85	3,057.03	4,051.58	3,904.68	146.90	27.581		
17,400.00	7,730.00	5,050.00	5,050.00	148.40	87.22	46.35	-4,236.85	3,057.03	4,084.07	3,935.96	148.12	27.574 SF		
17,500.00	7,730.00	5,050.00	5,050.00	149.39	87.22	46.35	-4,236.85	3,057.03	4,118.74	3,969.39	149.35	27.577		
17,600.00	7,730.00	5,050.00	5,050.00	150.40	87.22	46.35	-4,236.85	3,057.03	4,155.53	4,004.93	150.60	27.593		
17,700.00	7,730.00	5,050.00	5,050.00	151.44	87.22	46.35	-4,236.85	3,057.03	4,194.38	4,042.52	151.85	27.621		
17,800.00	7,730.00	5,050.00	5,050.00	152.50	87.22	46.35	-4,236.85	3,057.03	4,235.23	4,082.12	153.11	27.661		
17,900.00	7,730.00	5,050.00	5,050.00	153.58	87.22	46.35	-4,236.85	3,057.03	4,278.03	4,123.67	154.36	27.714		
18,000.00	7,730.00	5,050.00	5,050.00	154.68	87.22	46.35	-4,236.85	3,057.03	4,322.72	4,167.11	155.61	27.780		
18,100.00	7,730.00	5,050.00	5,050.00	155.80	87.22	46.35	-4,236.85	3,057.03	4,369.24	4,212.40	156.84	27.858		
18,200.00	7,730.00	5,050.00	5,050.00	156.95	87.22	46.35	-4,236.85	3,057.03	4,417.54	4,259.48	158.06	27.949		
18,300.00	7,730.00	5,050.00	5,050.00	158.11	87.22	46.35	-4,236.85	3,057.03	4,467.55	4,308.30	159.26	28.052		
18,400.00	7,730.00	5,050.00	5,050.00	159.30	87.22	46.35	-4,236.85	3,057.03	4,519.23	4,358.79	160.44	28.168		
18,500.00	7,730.00	5,050.00	5,050.00	160.50	87.22	46.35	-4,236.85	3,057.03	4,572.50	4,410.91	161.60	28.296		
18,600.00	7,730.00	5,050.00	5,050.00	161.72	87.22	46.35	-4,236.85	3,057.03	4,627.33	4,464.60	162.73	28.435		
18,700.00	7,730.00	5,050.00	5,050.00	162.96	87.22	46.35	-4,236.85	3,057.03	4,683.65	4,519.80	163.84	28.586		
18,800.00	7,730.00	5,050.00	5,050.00	164.21	87.22	46.35	-4,236.85	3,057.03	4,741.40	4,576.48	164.93	28.749		
18,900.00	7,730.00	5,050.00	5,050.00	165.48	87.22	46.35	-4,236.85	3,057.03	4,800.55	4,634.57	165.98	28.922		
19,000.00	7,730.00	5,050.00	5,050.00	166.76	87.22	46.35	-4,236.85	3,057.03	4,861.04	4,694.03	167.01	29.106		
19,100.00	7,730.00	5,050.00	5,050.00	168.06	87.22	46.35	-4,236.85	3,057.03	4,922.81	4,754.80	168.01	29.301		
19,200.00	7,730.00	5,050.00	5,050.00	169.38	87.22	46.35	-4,236.85	3,057.03	4,985.82	4,816.84	168.98	29.505		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,300.00	7,730.00	5,050.00	5,050.00	170.70	87.22	46.35	-4,236.85	3,057.03	5,050.03	4,880.11	169.92	29.719	
19,400.00	7,730.00	5,050.00	5,050.00	172.04	87.22	46.35	-4,236.85	3,057.03	5,115.39	4,944.55	170.84	29.943	
19,500.00	7,730.00	5,050.00	5,050.00	173.40	87.22	46.35	-4,236.85	3,057.03	5,181.85	5,010.12	171.73	30.175	
19,600.00	7,730.00	5,050.00	5,050.00	174.76	87.22	46.35	-4,236.85	3,057.03	5,249.37	5,076.79	172.58	30.416	
19,700.00	7,730.00	5,050.00	5,050.00	176.14	87.22	46.35	-4,236.85	3,057.03	5,317.92	5,144.51	173.41	30.666	
19,800.00	7,730.00	5,050.00	5,050.00	177.52	87.22	46.35	-4,236.85	3,057.03	5,387.46	5,213.24	174.22	30.924	
19,900.00	7,730.00	5,050.00	5,050.00	178.92	87.22	46.35	-4,236.85	3,057.03	5,457.94	5,282.94	175.00	31.189	
20,000.00	7,730.00	5,050.00	5,050.00	180.33	87.22	46.35	-4,236.85	3,057.03	5,529.32	5,353.58	175.75	31.462	
20,100.00	7,730.00	5,050.00	5,050.00	181.75	87.22	46.35	-4,236.85	3,057.03	5,601.59	5,425.12	176.47	31.742	
20,184.95	7,730.00	5,050.00	5,050.00	182.96	87.22	46.35	-4,236.85	3,057.03	5,663.64	5,486.57	177.07	31.985	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	157.70	-4,236.98	1,737.99	4,579.64					
100.00	100.00	77.00	77.00	0.13	0.63	157.70	-4,236.98	1,737.99	4,579.58	4,578.82	0.77	5,978.083		
200.00	199.98	176.98	176.98	0.49	2.16	87.27	-4,236.98	1,737.99	4,579.50	4,576.85	2.65	1,725.572		
300.00	299.84	276.84	276.84	0.86	3.91	87.34	-4,236.98	1,737.99	4,579.25	4,574.49	4.76	962.141		
400.00	399.45	376.45	376.45	1.23	5.65	87.45	-4,236.98	1,737.99	4,578.86	4,571.98	6.88	665.997		
500.00	498.70	475.70	475.70	1.63	7.38	87.62	-4,236.98	1,737.99	4,578.33	4,569.32	9.00	508.449		
600.00	597.47	574.47	574.47	2.05	9.10	87.82	-4,236.98	1,737.99	4,577.70	4,566.55	11.15	410.506		
700.00	695.62	672.62	672.62	2.51	10.81	88.07	-4,236.98	1,737.99	4,577.00	4,563.68	13.32	343.630		
800.00	793.06	770.06	770.06	3.00	12.51	88.36	-4,236.98	1,737.99	4,576.28	4,560.77	15.51	295.005		
900.00	889.64	866.64	866.64	3.53	14.20	88.68	-4,236.98	1,737.99	4,575.59	4,557.86	17.73	258.022		
1,000.00	985.27	962.27	962.27	4.12	15.87	89.05	-4,236.98	1,737.99	4,574.99	4,555.00	19.98	228.927		
1,100.00	1,079.82	1,056.82	1,056.82	4.75	17.52	89.44	-4,236.98	1,737.99	4,574.53	4,552.26	22.27	205.429		
1,200.00	1,173.17	1,150.17	1,150.17	5.44	19.15	89.86	-4,236.98	1,737.99	4,574.30	4,549.71	24.59	186.051		
1,230.71	1,201.58	1,178.58	1,178.58	5.67	19.65	90.00	-4,236.98	1,737.99	4,574.28	4,548.97	25.31	180.720 CC		
1,300.00	1,265.21	1,242.21	1,242.21	6.18	20.76	90.31	-4,236.98	1,737.99	4,574.37	4,547.43	26.94	169.798		
1,400.00	1,355.84	1,332.84	1,332.84	6.99	22.34	90.78	-4,236.98	1,737.99	4,574.82	4,545.48	29.33	155.975		
1,500.00	1,444.94	1,421.94	1,421.94	7.87	23.89	91.27	-4,236.98	1,737.99	4,575.73	4,543.97	31.76	144.081		
1,600.00	1,532.39	1,509.39	1,509.39	8.80	25.42	91.77	-4,236.98	1,737.99	4,577.21	4,542.99	34.22	133.748		
1,700.00	1,618.11	1,604.89	1,595.11	9.81	27.09	92.28	-4,236.98	1,737.99	4,579.34	4,542.44	36.90	124.118		
1,800.00	1,701.97	1,678.97	1,678.97	10.89	28.38	92.80	-4,236.98	1,737.99	4,582.22	4,542.96	39.26	116.709		
1,900.00	1,783.88	1,760.88	1,760.88	12.04	29.81	93.31	-4,236.98	1,737.99	4,585.95	4,544.11	41.83	109.622		
2,000.00	1,863.74	1,840.74	1,840.74	13.26	31.20	93.81	-4,236.98	1,737.99	4,590.63	4,546.19	44.44	103.300		
2,100.00	1,941.45	1,918.45	1,918.45	14.55	32.56	94.31	-4,236.98	1,737.99	4,596.36	4,549.29	47.08	97.636		
2,200.00	2,016.92	2,006.08	1,993.92	15.92	34.09	94.79	-4,236.98	1,737.99	4,603.25	4,553.30	49.95	92.151		
2,292.11	2,084.36	2,061.36	2,061.36	17.25	35.05	95.21	-4,236.98	1,737.99	4,610.70	4,558.48	52.22	88.299		
2,300.00	2,090.06	2,067.06	2,067.06	17.36	35.15	95.26	-4,236.98	1,737.99	4,611.38	4,558.95	52.43	87.954		
2,400.00	2,162.18	2,139.18	2,139.18	18.84	36.41	95.88	-4,236.98	1,737.99	4,620.66	4,565.53	55.13	83.813		
2,500.00	2,234.31	2,211.31	2,211.31	20.33	37.67	96.50	-4,236.98	1,737.99	4,630.96	4,573.13	57.83	80.074		
2,600.00	2,306.43	2,283.43	2,283.43	21.83	38.93	97.11	-4,236.98	1,737.99	4,642.27	4,581.73	60.54	76.687		
2,700.00	2,378.56	2,355.56	2,355.56	23.33	40.19	97.73	-4,236.98	1,737.99	4,654.58	4,591.35	63.23	73.610		
2,800.00	2,450.68	2,427.68	2,427.68	24.84	41.45	98.34	-4,236.98	1,737.99	4,667.89	4,601.96	65.92	70.807		
2,900.00	2,522.81	2,500.19	2,499.81	26.36	42.71	98.95	-4,236.98	1,737.99	4,682.18	4,613.57	68.62	68.238		
3,000.00	2,594.93	2,571.93	2,571.93	27.88	43.96	99.56	-4,236.98	1,737.99	4,697.45	4,626.17	71.28	65.897		
3,100.00	2,667.06	2,644.06	2,644.06	29.40	45.22	100.17	-4,236.98	1,737.99	4,713.69	4,639.74	73.95	63.742		
3,200.00	2,739.18	2,716.18	2,716.18	30.92	46.48	100.78	-4,236.98	1,737.99	4,730.89	4,654.29	76.60	61.757		
3,300.00	2,811.31	2,788.31	2,788.31	32.45	47.74	101.38	-4,236.98	1,737.99	4,749.04	4,669.79	79.25	59.927		
3,400.00	2,883.43	2,860.43	2,860.43	33.98	49.00	101.98	-4,236.98	1,737.99	4,768.13	4,686.25	81.88	58.235		
3,500.00	2,955.56	2,932.56	2,932.56	35.51	50.26	102.58	-4,236.98	1,737.99	4,788.14	4,703.64	84.49	56.669		
3,600.00	3,027.68	3,004.68	3,004.68	37.04	51.52	103.17	-4,236.98	1,737.99	4,809.06	4,721.97	87.09	55.217		
3,700.00	3,099.81	3,076.81	3,076.81	38.57	52.78	103.76	-4,236.98	1,737.99	4,830.89	4,741.21	89.68	53.867		
3,800.00	3,171.93	3,148.93	3,148.93	40.11	54.03	104.35	-4,236.98	1,737.99	4,853.61	4,761.35	92.25	52.612		
3,900.00	3,244.06	3,221.06	3,221.06	41.64	55.29	104.94	-4,236.98	1,737.99	4,877.20	4,782.39	94.81	51.443		
4,000.00	3,316.18	3,306.82	3,293.18	43.18	56.79	105.52	-4,236.98	1,737.99	4,901.66	4,804.08	97.59	50.229		
4,100.00	3,388.31	3,365.31	3,365.31	44.71	57.81	106.10	-4,236.98	1,737.99	4,926.98	4,827.11	99.87	49.333		
4,200.00	3,460.43	3,437.43	3,437.43	46.25	59.07	106.68	-4,236.98	1,737.99	4,953.13	4,850.75	102.38	48.381		
4,300.00	3,532.56	3,509.56	3,509.56	47.79	60.33	107.25	-4,236.98	1,737.99	4,980.11	4,875.24	104.87	47.490		
4,400.00	3,604.68	3,581.68	3,581.68	49.33	61.59	107.82	-4,236.98	1,737.99	5,007.90	4,900.56	107.34	46.655		
4,500.00	3,676.81	3,653.81	3,653.81	50.87	62.85	108.38	-4,236.98	1,737.99	5,036.49	4,926.70	109.79	45.872		
4,600.00	3,748.93	3,725.93	3,725.93	52.41	64.10	108.94	-4,236.98	1,737.99	5,065.87	4,953.64	112.23	45.138		
4,700.00	3,821.06	3,801.94	3,798.06	53.95	65.43	109.50	-4,236.98	1,737.99	5,096.02	4,981.30	114.72	44.422		
4,800.00	3,893.18	3,870.18	3,870.18	55.49	66.62	110.06	-4,236.98	1,737.99	5,126.93	5,009.88	117.05	43.800		
4,900.00	3,965.31	3,942.31	3,942.31	57.03	67.88	110.61	-4,236.98	1,737.99	5,158.58	5,039.15	119.44	43.191		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,014.43	4,014.43	58.58	69.14	111.15	-4,236.98	1,737.99	5,190.97	5,069.16	121.80	42.617		
5,100.00	4,109.56	4,086.56	4,086.56	60.12	70.40	111.70	-4,236.98	1,737.99	5,224.07	5,099.92	124.15	42.078		
5,200.00	4,181.68	4,158.68	4,158.68	61.66	71.66	112.23	-4,236.98	1,737.99	5,257.88	5,131.39	126.48	41.569		
5,300.00	4,253.81	4,230.81	4,230.81	63.20	72.92	112.77	-4,236.98	1,737.99	5,292.37	5,163.57	128.80	41.090		
5,400.00	4,325.93	4,302.93	4,302.93	64.75	74.18	113.30	-4,236.98	1,737.99	5,327.55	5,196.45	131.10	40.638		
5,500.00	4,398.06	4,375.06	4,375.06	66.29	75.43	113.82	-4,236.98	1,737.99	5,363.39	5,230.01	133.38	40.212		
5,600.00	4,470.18	4,447.18	4,447.18	67.84	76.69	114.34	-4,236.98	1,737.99	5,399.88	5,264.24	135.64	39.810		
5,700.00	4,542.31	4,519.31	4,519.31	69.38	77.95	114.86	-4,236.98	1,737.99	5,437.00	5,299.12	137.89	39.431		
5,800.00	4,614.43	4,608.57	4,591.43	70.92	79.51	115.38	-4,236.98	1,737.99	5,474.75	5,334.34	140.42	38.990		
5,900.00	4,686.56	4,663.56	4,663.56	72.47	80.47	115.88	-4,236.98	1,737.99	5,513.12	5,370.79	142.33	38.735		
6,000.00	4,758.68	4,735.68	4,735.68	74.01	81.73	116.39	-4,236.98	1,737.99	5,552.08	5,407.55	144.53	38.415		
6,100.00	4,830.81	4,807.81	4,807.81	75.56	82.99	116.89	-4,236.98	1,737.99	5,591.63	5,444.92	146.71	38.114		
6,200.00	4,902.93	4,879.93	4,879.93	77.10	84.25	117.38	-4,236.98	1,737.99	5,631.75	5,482.88	148.88	37.829		
6,300.00	4,975.06	4,952.06	4,952.06	78.65	85.50	117.88	-4,236.98	1,737.99	5,672.44	5,521.41	151.03	37.559		
6,400.00	5,047.18	5,024.18	5,024.18	80.19	86.76	118.36	-4,236.98	1,737.99	5,713.67	5,560.51	153.16	37.305		
6,500.00	5,119.31	5,103.69	5,096.31	81.74	88.15	118.84	-4,236.98	1,737.99	5,755.44	5,600.03	155.41	37.034		
6,600.00	5,191.43	5,168.43	5,168.43	83.28	89.28	119.32	-4,236.98	1,737.99	5,797.74	5,640.36	157.39	36.837		
6,700.00	5,263.56	5,240.56	5,240.56	84.83	90.54	119.80	-4,236.98	1,737.99	5,840.56	5,681.08	159.48	36.622		
6,800.00	5,335.68	5,312.68	5,312.68	86.37	91.80	120.26	-4,236.98	1,737.99	5,883.88	5,722.32	161.56	36.419		
6,900.00	5,407.81	5,384.81	5,384.81	87.92	93.06	120.73	-4,236.98	1,737.99	5,927.69	5,764.07	163.62	36.228		
7,000.00	5,479.93	5,450.00	5,450.00	89.47	94.20	121.15	-4,236.98	1,737.99	5,971.99	5,806.44	165.55	36.074		
7,100.00	5,552.06	5,450.00	5,450.00	91.01	94.20	121.15	-4,236.98	1,737.99	6,017.27	5,851.03	166.24	36.197		
7,200.00	5,624.18	5,450.00	5,450.00	92.56	94.20	121.15	-4,236.98	1,737.99	6,063.86	5,896.97	166.89	36.334		
7,300.00	5,696.31	5,450.00	5,450.00	94.10	94.20	121.15	-4,236.98	1,737.99	6,111.73	5,944.23	167.51	36.486		
7,400.00	5,768.43	5,450.00	5,450.00	95.65	94.20	121.15	-4,236.98	1,737.99	6,160.86	5,992.77	168.09	36.652		
7,500.00	5,840.56	5,450.00	5,450.00	97.20	94.20	121.15	-4,236.98	1,737.99	6,211.21	6,042.57	168.64	36.832		
7,600.00	5,912.68	5,450.00	5,450.00	98.74	94.20	121.15	-4,236.98	1,737.99	6,262.74	6,093.59	169.15	37.025		
7,700.00	5,984.81	5,450.00	5,450.00	100.29	94.20	121.15	-4,236.98	1,737.99	6,315.44	6,145.81	169.63	37.230		
7,800.00	6,056.93	5,450.00	5,450.00	101.84	94.20	121.15	-4,236.98	1,737.99	6,369.28	6,199.20	170.08	37.448		
7,900.00	6,129.06	5,450.00	5,450.00	103.38	94.20	121.15	-4,236.98	1,737.99	6,424.22	6,253.72	170.50	37.678		
8,000.00	6,201.18	5,450.00	5,450.00	104.93	94.20	121.15	-4,236.98	1,737.99	6,480.24	6,309.34	170.90	37.919		
8,100.00	6,273.31	5,450.00	5,450.00	106.48	94.20	121.15	-4,236.98	1,737.99	6,537.31	6,366.05	171.26	38.172		
8,200.00	6,345.43	5,450.00	5,450.00	108.02	94.20	121.15	-4,236.98	1,737.99	6,595.40	6,423.80	171.60	38.435		
8,300.00	6,417.56	5,450.00	5,450.00	109.57	94.20	121.15	-4,236.98	1,737.99	6,654.48	6,482.57	171.91	38.708		
8,400.00	6,489.68	5,450.00	5,450.00	111.12	94.20	121.15	-4,236.98	1,737.99	6,714.54	6,542.33	172.20	38.992		
8,500.00	6,561.81	5,450.00	5,450.00	112.66	94.20	121.15	-4,236.98	1,737.99	6,775.54	6,603.07	172.47	39.285		
8,600.00	6,633.93	5,450.00	5,450.00	114.21	94.20	121.15	-4,236.98	1,737.99	6,837.45	6,664.74	172.72	39.588		
8,700.00	6,706.06	5,450.00	5,450.00	115.76	94.20	121.15	-4,236.98	1,737.99	6,900.27	6,727.33	172.94	39.900		
8,800.00	6,778.18	5,450.00	5,450.00	117.30	94.20	121.15	-4,236.98	1,737.99	6,963.95	6,790.80	173.14	40.220		
8,900.00	6,850.31	5,450.00	5,450.00	118.85	94.20	121.15	-4,236.98	1,737.99	7,028.47	6,855.14	173.33	40.549		
9,000.00	6,922.43	5,450.00	5,450.00	120.40	94.20	121.15	-4,236.98	1,737.99	7,093.82	6,920.32	173.50	40.887		
9,100.00	6,994.56	5,450.00	5,450.00	121.95	94.20	121.15	-4,236.98	1,737.99	7,159.97	6,986.32	173.65	41.232		
9,200.00	7,066.68	5,450.00	5,450.00	123.49	94.20	121.15	-4,236.98	1,737.99	7,226.90	7,053.11	173.79	41.585		
9,300.00	7,138.81	5,450.00	5,450.00	125.04	94.20	121.15	-4,236.98	1,737.99	7,294.58	7,120.68	173.91	41.945		
9,392.50	7,205.52	5,450.00	5,450.00	126.47	94.20	121.15	-4,236.98	1,737.99	7,357.84	7,183.84	174.01	42.285		
9,400.00	7,210.94	5,450.00	5,450.00	126.59	94.20	120.19	-4,236.98	1,737.99	7,362.97	7,188.96	174.01	42.313		
9,450.00	7,247.42	5,450.00	5,450.00	127.35	94.20	113.79	-4,236.98	1,737.99	7,395.42	7,221.35	174.07	42.485		
9,500.00	7,284.35	5,450.00	5,450.00	128.10	94.20	107.41	-4,236.98	1,737.99	7,424.78	7,250.64	174.14	42.638		
9,550.00	7,321.43	5,450.00	5,450.00	128.83	94.20	101.15	-4,236.98	1,737.99	7,450.85	7,276.64	174.21	42.769		
9,600.00	7,358.38	5,450.00	5,450.00	129.52	94.20	95.10	-4,236.98	1,737.99	7,473.48	7,299.19	174.29	42.880		
9,650.00	7,394.93	5,450.00	5,450.00	130.16	94.20	89.38	-4,236.98	1,737.99	7,492.52	7,318.16	174.36	42.971		
9,700.00	7,430.79	5,450.00	5,450.00	130.76	94.20	84.08	-4,236.98	1,737.99	7,507.86	7,333.43	174.43	43.042		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,450.00	5,450.00	131.30	94.20	79.26	-4,236.98	1,737.99	7,519.41	7,344.92	174.49	43.094		
9,800.00	7,499.38	5,450.00	5,450.00	131.78	94.20	74.97	-4,236.98	1,737.99	7,527.08	7,352.56	174.53	43.128		
9,850.00	7,531.58	5,450.00	5,450.00	132.21	94.20	71.20	-4,236.98	1,737.99	7,530.85	7,356.30	174.55	43.145		
9,900.00	7,562.06	5,450.00	5,450.00	132.57	94.20	67.94	-4,236.98	1,737.99	7,530.68	7,356.13	174.55	43.144		
9,950.00	7,590.58	5,450.00	5,450.00	132.87	94.20	65.19	-4,236.98	1,737.99	7,526.57	7,352.05	174.52	43.127		
10,000.00	7,616.93	5,450.00	5,450.00	133.11	94.20	62.91	-4,236.98	1,737.99	7,518.55	7,344.08	174.47	43.093		
10,050.00	7,640.90	5,450.00	5,450.00	133.29	94.20	61.08	-4,236.98	1,737.99	7,506.68	7,332.28	174.40	43.044		
10,100.00	7,662.32	5,450.00	5,450.00	133.42	94.20	59.67	-4,236.98	1,737.99	7,491.01	7,316.71	174.30	42.979		
10,150.00	7,681.01	5,450.00	5,450.00	133.50	94.20	58.68	-4,236.98	1,737.99	7,471.65	7,297.47	174.17	42.898		
10,200.00	7,696.85	5,450.00	5,450.00	133.52	94.20	58.09	-4,236.98	1,737.99	7,448.71	7,274.68	174.03	42.801		
10,250.00	7,709.70	5,450.00	5,450.00	133.51	94.20	57.92	-4,236.98	1,737.99	7,422.35	7,248.47	173.87	42.688		
10,300.00	7,719.47	5,450.00	5,450.00	133.46	94.20	58.19	-4,236.98	1,737.99	7,392.71	7,219.01	173.70	42.560		
10,350.00	7,726.09	5,450.00	5,450.00	133.37	94.20	58.93	-4,236.98	1,737.99	7,360.00	7,186.48	173.52	42.416		
10,400.00	7,729.50	5,450.00	5,450.00	133.26	94.20	60.20	-4,236.98	1,737.99	7,324.42	7,151.08	173.34	42.256		
10,427.79	7,730.00	5,450.00	5,450.00	133.18	94.20	61.18	-4,236.98	1,737.99	7,303.48	7,130.25	173.24	42.159		
10,500.00	7,730.00	5,450.00	5,450.00	132.98	94.20	61.18	-4,236.98	1,737.99	7,248.22	7,075.25	172.97	41.905		
10,600.00	7,730.00	5,450.00	5,450.00	132.72	94.20	61.18	-4,236.98	1,737.99	7,172.18	6,999.58	172.59	41.555		
10,700.00	7,730.00	5,450.00	5,450.00	132.47	94.20	61.18	-4,236.98	1,737.99	7,096.73	6,924.52	172.21	41.209		
10,800.00	7,730.00	5,450.00	5,450.00	132.22	94.20	61.18	-4,236.98	1,737.99	7,021.90	6,850.07	171.83	40.866		
10,900.00	7,730.00	5,450.00	5,450.00	131.99	94.20	61.18	-4,236.98	1,737.99	6,947.70	6,776.26	171.44	40.526		
11,000.00	7,730.00	5,450.00	5,450.00	131.77	94.20	61.18	-4,236.98	1,737.99	6,874.15	6,703.11	171.04	40.191		
11,100.00	7,730.00	5,450.00	5,450.00	131.56	94.20	61.18	-4,236.98	1,737.99	6,801.28	6,630.65	170.64	39.858		
11,200.00	7,730.00	5,450.00	5,450.00	131.36	94.20	61.18	-4,236.98	1,737.99	6,729.11	6,558.88	170.23	39.530		
11,300.00	7,730.00	5,450.00	5,450.00	131.17	94.20	61.18	-4,236.98	1,737.99	6,657.65	6,487.84	169.82	39.205		
11,400.00	7,730.00	5,450.00	5,450.00	130.99	94.20	61.18	-4,236.98	1,737.99	6,586.94	6,417.54	169.40	38.884		
11,500.00	7,730.00	5,450.00	5,450.00	130.82	94.20	61.18	-4,236.98	1,737.99	6,517.00	6,348.02	168.98	38.568		
11,600.00	7,730.00	5,450.00	5,450.00	130.66	94.20	61.18	-4,236.98	1,737.99	6,447.85	6,279.30	168.55	38.255		
11,700.00	7,730.00	5,450.00	5,450.00	130.51	94.20	61.18	-4,236.98	1,737.99	6,379.51	6,211.39	168.12	37.946		
11,800.00	7,730.00	5,450.00	5,450.00	130.37	94.20	61.18	-4,236.98	1,737.99	6,312.02	6,144.34	167.69	37.642		
11,900.00	7,730.00	5,450.00	5,450.00	130.24	94.20	61.18	-4,236.98	1,737.99	6,245.41	6,078.16	167.25	37.342		
12,000.00	7,730.00	5,450.00	5,450.00	130.13	94.20	61.18	-4,236.98	1,737.99	6,179.69	6,012.88	166.81	37.046		
12,100.00	7,730.00	5,450.00	5,450.00	130.02	94.20	61.18	-4,236.98	1,737.99	6,114.90	5,948.53	166.37	36.754		
12,200.00	7,730.00	5,450.00	5,450.00	129.93	94.20	61.18	-4,236.98	1,737.99	6,051.07	5,885.14	165.93	36.467		
12,300.00	7,730.00	5,450.00	5,450.00	129.85	94.20	61.18	-4,236.98	1,737.99	5,988.23	5,822.74	165.49	36.184		
12,400.00	7,730.00	5,450.00	5,450.00	129.77	94.20	61.18	-4,236.98	1,737.99	5,926.41	5,761.36	165.05	35.906		
12,500.00	7,730.00	5,450.00	5,450.00	129.71	94.20	61.18	-4,236.98	1,737.99	5,865.65	5,701.03	164.62	35.632		
12,600.00	7,730.00	5,450.00	5,450.00	129.66	94.20	61.18	-4,236.98	1,737.99	5,805.97	5,641.79	164.18	35.363		
12,700.00	7,730.00	5,450.00	5,450.00	129.63	94.20	61.18	-4,236.98	1,737.99	5,747.41	5,583.66	163.75	35.099		
12,800.00	7,730.00	5,450.00	5,450.00	129.60	94.20	61.18	-4,236.98	1,737.99	5,690.01	5,526.69	163.32	34.839		
12,900.00	7,730.00	5,450.00	5,450.00	129.59	94.20	61.18	-4,236.98	1,737.99	5,633.80	5,470.90	162.90	34.584		
13,000.00	7,730.00	5,450.00	5,450.00	129.59	94.20	61.18	-4,236.98	1,737.99	5,578.81	5,416.32	162.49	34.333		
13,100.00	7,730.00	5,450.00	5,450.00	129.60	94.20	61.18	-4,236.98	1,737.99	5,525.09	5,363.00	162.09	34.087		
13,200.00	7,730.00	5,450.00	5,450.00	129.63	94.20	61.18	-4,236.98	1,737.99	5,472.66	5,310.97	161.69	33.846		
13,300.00	7,730.00	5,450.00	5,450.00	129.66	94.20	61.18	-4,236.98	1,737.99	5,421.58	5,260.27	161.31	33.609		
13,400.00	7,730.00	5,450.00	5,450.00	129.72	94.20	61.18	-4,236.98	1,737.99	5,371.87	5,210.93	160.94	33.377		
13,500.00	7,730.00	5,450.00	5,450.00	129.78	94.20	61.18	-4,236.98	1,737.99	5,323.57	5,162.98	160.59	33.150		
13,600.00	7,730.00	5,450.00	5,450.00	129.86	94.20	61.18	-4,236.98	1,737.99	5,276.73	5,116.48	160.26	32.927		
13,700.00	7,730.00	5,450.00	5,450.00	129.96	94.20	61.18	-4,236.98	1,737.99	5,231.38	5,071.44	159.94	32.708		
13,800.00	7,730.00	5,450.00	5,450.00	130.07	94.20	61.18	-4,236.98	1,737.99	5,187.56	5,027.92	159.64	32.494		
13,900.00	7,730.00	5,450.00	5,450.00	130.19	94.20	61.18	-4,236.98	1,737.99	5,145.32	4,985.94	159.37	32.285		
14,000.00	7,730.00	5,450.00	5,450.00	130.33	94.20	61.18	-4,236.98	1,737.99	5,104.68	4,945.55	159.12	32.080		
14,100.00	7,730.00	5,450.00	5,450.00	130.49	94.20	61.18	-4,236.98	1,737.99	5,065.69	4,906.79	158.90	31.879		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,450.00	5,450.00	130.67	94.20	61.18	-4,236.98	1,737.99	5,028.38	4,869.68	158.71	31.683		
14,300.00	7,730.00	5,450.00	5,450.00	130.86	94.20	61.18	-4,236.98	1,737.99	4,992.81	4,834.26	158.55	31.491		
14,400.00	7,730.00	5,450.00	5,450.00	131.07	94.20	61.18	-4,236.98	1,737.99	4,958.99	4,800.57	158.42	31.304		
14,500.00	7,730.00	5,450.00	5,450.00	131.30	94.20	61.18	-4,236.98	1,737.99	4,926.97	4,768.65	158.32	31.121		
14,600.00	7,730.00	5,450.00	5,450.00	131.55	94.20	61.18	-4,236.98	1,737.99	4,896.78	4,738.53	158.26	30.942		
14,700.00	7,730.00	5,450.00	5,450.00	131.82	94.20	61.18	-4,236.98	1,737.99	4,868.46	4,710.23	158.23	30.768		
14,800.00	7,730.00	5,450.00	5,450.00	132.11	94.20	61.18	-4,236.98	1,737.99	4,842.04	4,683.80	158.24	30.599		
14,900.00	7,730.00	5,450.00	5,450.00	132.42	94.20	61.18	-4,236.98	1,737.99	4,817.56	4,659.26	158.30	30.434		
15,000.00	7,730.00	5,450.00	5,450.00	132.75	94.20	61.18	-4,236.98	1,737.99	4,795.03	4,636.64	158.39	30.274		
15,100.00	7,730.00	5,450.00	5,450.00	133.10	94.20	61.18	-4,236.98	1,737.99	4,774.49	4,615.97	158.52	30.119		
15,200.00	7,730.00	5,450.00	5,450.00	133.48	94.20	61.18	-4,236.98	1,737.99	4,755.97	4,597.27	158.70	29.969		
15,300.00	7,730.00	5,450.00	5,450.00	133.88	94.20	61.18	-4,236.98	1,737.99	4,739.48	4,580.57	158.91	29.825		
15,400.00	7,730.00	5,450.00	5,450.00	134.31	94.20	61.18	-4,236.98	1,737.99	4,725.06	4,565.89	159.17	29.686		
15,500.00	7,730.00	5,450.00	5,450.00	134.76	94.20	61.18	-4,236.98	1,737.99	4,712.71	4,553.24	159.47	29.553		
15,600.00	7,730.00	5,450.00	5,450.00	135.23	94.20	61.18	-4,236.98	1,737.99	4,702.45	4,542.65	159.80	29.426		
15,700.00	7,730.00	5,450.00	5,450.00	135.73	94.20	61.18	-4,236.98	1,737.99	4,694.31	4,534.12	160.18	29.306		
15,800.00	7,730.00	5,450.00	5,450.00	136.26	94.20	61.18	-4,236.98	1,737.99	4,688.28	4,527.68	160.60	29.192		
15,900.00	7,730.00	5,450.00	5,450.00	136.81	94.20	61.18	-4,236.98	1,737.99	4,684.38	4,523.33	161.06	29.085		
16,000.00	7,730.00	5,450.00	5,450.00	137.39	94.20	61.18	-4,236.98	1,737.99	4,682.62	4,521.07	161.55	28.986		
16,032.71	7,730.00	5,450.00	5,450.00	137.59	94.20	61.18	-4,236.98	1,737.99	4,682.50	4,520.79	161.72	28.955 ES		
16,100.00	7,730.00	5,450.00	5,450.00	138.00	94.20	61.18	-4,236.98	1,737.99	4,682.99	4,520.91	162.07	28.894		
16,200.00	7,730.00	5,450.00	5,450.00	138.63	94.20	61.18	-4,236.98	1,737.99	4,685.49	4,522.86	162.63	28.811		
16,300.00	7,730.00	5,450.00	5,450.00	139.30	94.20	61.18	-4,236.98	1,737.99	4,690.13	4,526.91	163.22	28.735		
16,400.00	7,730.00	5,450.00	5,450.00	139.99	94.20	61.18	-4,236.98	1,737.99	4,696.89	4,533.05	163.84	28.668		
16,500.00	7,730.00	5,450.00	5,450.00	140.70	94.20	61.18	-4,236.98	1,737.99	4,705.76	4,541.28	164.48	28.610		
16,600.00	7,730.00	5,450.00	5,450.00	141.45	94.20	61.18	-4,236.98	1,737.99	4,716.74	4,551.59	165.15	28.561		
16,700.00	7,730.00	5,450.00	5,450.00	142.22	94.20	61.18	-4,236.98	1,737.99	4,729.81	4,563.98	165.84	28.521		
16,800.00	7,730.00	5,450.00	5,450.00	143.03	94.20	61.18	-4,236.98	1,737.99	4,744.95	4,578.41	166.54	28.491		
16,900.00	7,730.00	5,450.00	5,450.00	143.86	94.20	61.18	-4,236.98	1,737.99	4,762.15	4,594.88	167.27	28.470		
17,000.00	7,730.00	5,450.00	5,450.00	144.71	94.20	61.18	-4,236.98	1,737.99	4,781.37	4,613.37	168.00	28.460		
17,100.00	7,730.00	5,450.00	5,450.00	145.60	94.20	61.18	-4,236.98	1,737.99	4,802.60	4,633.85	168.75	28.459 SF		
17,200.00	7,730.00	5,450.00	5,450.00	146.51	94.20	61.18	-4,236.98	1,737.99	4,825.81	4,656.30	169.51	28.469		
17,300.00	7,730.00	5,450.00	5,450.00	147.44	94.20	61.18	-4,236.98	1,737.99	4,850.97	4,680.69	170.28	28.489		
17,400.00	7,730.00	5,450.00	5,450.00	148.40	94.20	61.18	-4,236.98	1,737.99	4,878.05	4,707.00	171.04	28.519		
17,500.00	7,730.00	5,450.00	5,450.00	149.39	94.20	61.18	-4,236.98	1,737.99	4,907.01	4,735.20	171.82	28.560		
17,600.00	7,730.00	5,450.00	5,450.00	150.40	94.20	61.18	-4,236.98	1,737.99	4,937.84	4,765.25	172.59	28.611		
17,700.00	7,730.00	5,450.00	5,450.00	151.44	94.20	61.18	-4,236.98	1,737.99	4,970.48	4,797.12	173.36	28.672		
17,800.00	7,730.00	5,450.00	5,450.00	152.50	94.20	61.18	-4,236.98	1,737.99	5,004.91	4,830.79	174.13	28.743		
17,900.00	7,730.00	5,450.00	5,450.00	153.58	94.20	61.18	-4,236.98	1,737.99	5,041.09	4,866.21	174.89	28.825		
18,000.00	7,730.00	5,450.00	5,450.00	154.68	94.20	61.18	-4,236.98	1,737.99	5,078.98	4,903.34	175.64	28.917		
18,100.00	7,730.00	5,450.00	5,450.00	155.80	94.20	61.18	-4,236.98	1,737.99	5,118.55	4,942.16	176.39	29.018		
18,200.00	7,730.00	5,450.00	5,450.00	156.95	94.20	61.18	-4,236.98	1,737.99	5,159.75	4,982.62	177.13	29.130		
18,300.00	7,730.00	5,450.00	5,450.00	158.11	94.20	61.18	-4,236.98	1,737.99	5,202.54	5,024.69	177.86	29.251		
18,400.00	7,730.00	5,450.00	5,450.00	159.30	94.20	61.18	-4,236.98	1,737.99	5,246.90	5,068.32	178.57	29.382		
18,500.00	7,730.00	5,450.00	5,450.00	160.50	94.20	61.18	-4,236.98	1,737.99	5,292.77	5,113.49	179.28	29.523		
18,600.00	7,730.00	5,450.00	5,450.00	161.72	94.20	61.18	-4,236.98	1,737.99	5,340.11	5,160.15	179.97	29.672		
18,700.00	7,730.00	5,450.00	5,450.00	162.96	94.20	61.18	-4,236.98	1,737.99	5,388.90	5,208.26	180.65	29.831		
18,800.00	7,730.00	5,450.00	5,450.00	164.21	94.20	61.18	-4,236.98	1,737.99	5,439.09	5,257.78	181.31	29.999		
18,900.00	7,730.00	5,450.00	5,450.00	165.48	94.20	61.18	-4,236.98	1,737.99	5,490.65	5,308.69	181.96	30.175		
19,000.00	7,730.00	5,450.00	5,450.00	166.76	94.20	61.18	-4,236.98	1,737.99	5,543.52	5,360.93	182.59	30.360		
19,100.00	7,730.00	5,450.00	5,450.00	168.06	94.20	61.18	-4,236.98	1,737.99	5,597.69	5,414.48	183.21	30.553		
19,200.00	7,730.00	5,450.00	5,450.00	169.38	94.20	61.18	-4,236.98	1,737.99	5,653.10	5,469.29	183.82	30.754		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,450.00	5,450.00	170.70	94.20	61.18	-4,236.98	1,737.99	5,709.73	5,525.33	184.40	30.963	
19,400.00	7,730.00	5,450.00	5,450.00	172.04	94.20	61.18	-4,236.98	1,737.99	5,767.54	5,582.56	184.98	31.180	
19,500.00	7,730.00	5,450.00	5,450.00	173.40	94.20	61.18	-4,236.98	1,737.99	5,826.49	5,640.95	185.53	31.404	
19,600.00	7,730.00	5,450.00	5,450.00	174.76	94.20	61.18	-4,236.98	1,737.99	5,886.55	5,700.47	186.07	31.635	
19,700.00	7,730.00	5,450.00	5,450.00	176.14	94.20	61.18	-4,236.98	1,737.99	5,947.68	5,761.08	186.60	31.874	
19,800.00	7,730.00	5,450.00	5,450.00	177.52	94.20	61.18	-4,236.98	1,737.99	6,009.85	5,822.74	187.11	32.119	
19,900.00	7,730.00	5,450.00	5,450.00	178.92	94.20	61.18	-4,236.98	1,737.99	6,073.04	5,885.43	187.61	32.371	
20,000.00	7,730.00	5,450.00	5,450.00	180.33	94.20	61.18	-4,236.98	1,737.99	6,137.20	5,949.11	188.09	32.629	
20,100.00	7,730.00	5,450.00	5,450.00	181.75	94.20	61.18	-4,236.98	1,737.99	6,202.31	6,013.76	188.56	32.894	
20,184.95	7,730.00	5,450.00	5,450.00	182.96	94.20	61.18	-4,236.98	1,737.99	6,258.35	6,069.41	188.94	33.123	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	155.67	-4,568.45	2,065.68	5,013.77					
100.00	100.00	72.61	72.61	0.13	0.12	155.67	-4,568.68	2,065.56	5,013.96	5,013.71	0.25	N/A		
200.00	199.98	168.02	168.02	0.49	0.40	85.24	-4,569.45	2,065.11	5,014.35	5,013.46	0.89	5,608.234		
300.00	299.84	287.76	287.75	0.86	0.83	85.32	-4,570.14	2,064.61	5,014.29	5,012.60	1.69	2,974.513		
400.00	399.45	382.45	382.45	1.23	1.17	85.43	-4,570.34	2,064.49	5,013.72	5,011.32	2.40	2,088.981		
500.00	498.70	483.62	483.61	1.63	1.53	85.58	-4,570.58	2,064.49	5,012.98	5,009.82	3.16	1,587.740		
600.00	597.47	608.39	608.38	2.05	1.97	85.84	-4,570.81	2,063.90	5,011.78	5,007.76	4.02	1,246.032		
700.00	695.62	775.03	775.00	2.51	2.55	86.26	-4,569.49	2,061.93	5,009.10	5,004.05	5.05	991.464		
800.00	793.06	868.64	868.60	3.00	2.87	86.57	-4,568.20	2,060.87	5,005.90	5,000.04	5.87	853.234		
900.00	889.64	964.67	964.61	3.53	3.21	86.92	-4,566.94	2,059.93	5,002.74	4,996.00	6.73	742.858		
1,000.00	985.27	1,090.52	1,090.44	4.12	3.64	87.42	-4,564.92	2,058.70	4,999.31	4,991.55	7.75	644.713		
1,100.00	1,079.82	1,166.41	1,166.31	4.75	3.91	87.78	-4,563.55	2,057.87	4,995.67	4,987.02	8.65	577.274		
1,200.00	1,173.17	1,248.37	1,248.26	5.44	4.20	88.18	-4,562.39	2,057.09	4,992.51	4,982.88	9.63	518.399		
1,300.00	1,265.21	1,333.69	1,333.57	6.18	4.50	88.62	-4,561.18	2,056.44	4,989.61	4,978.93	10.68	467.240		
1,400.00	1,355.84	1,409.56	1,409.43	6.99	4.77	89.04	-4,560.36	2,055.73	4,987.18	4,975.42	11.76	424.198		
1,500.00	1,444.94	1,482.55	1,482.41	7.87	5.03	89.47	-4,559.81	2,055.05	4,985.36	4,972.47	12.89	386.755		
1,600.00	1,532.39	1,561.50	1,561.36	8.80	5.31	89.93	-4,559.40	2,054.41	4,984.19	4,970.07	14.11	353.190		
1,700.00	1,618.11	1,648.00	1,647.86	9.81	5.62	90.46	-4,559.02	2,053.72	4,983.60	4,968.17	15.43	322.999		
1,766.15	1,673.79	1,708.29	1,708.15	10.52	5.83	90.84	-4,558.73	2,053.17	4,983.48	4,967.13	16.36	304.659		
1,800.00	1,701.97	1,728.42	1,728.28	10.89	5.91	90.97	-4,558.64	2,052.99	4,983.55	4,966.76	16.79	296.736		
1,900.00	1,783.88	1,793.37	1,793.22	12.04	6.14	91.39	-4,558.50	2,052.44	4,984.42	4,966.24	18.17	274.246		
2,000.00	1,863.74	1,870.41	1,870.26	13.26	6.41	91.89	-4,558.51	2,051.72	4,986.24	4,966.57	19.67	253.504		
2,100.00	1,941.45	1,947.21	1,947.05	14.55	6.69	92.40	-4,558.59	2,050.83	4,988.97	4,967.73	21.23	234.959		
2,200.00	2,016.92	2,027.07	2,026.91	15.92	6.97	92.93	-4,558.65	2,049.93	4,992.68	4,969.80	22.88	218.226		
2,292.11	2,084.36	2,108.50	2,108.33	17.25	7.26	93.49	-4,558.56	2,048.82	4,996.90	4,972.42	24.48	204.099		
2,300.00	2,090.06	2,115.35	2,115.18	17.36	7.29	93.55	-4,558.55	2,048.72	4,997.30	4,972.68	24.62	202.962		
2,400.00	2,162.18	2,183.54	2,183.36	18.84	7.53	94.10	-4,558.39	2,047.83	5,002.91	4,976.58	26.33	190.032		
2,500.00	2,234.31	2,259.79	2,259.61	20.33	7.81	94.71	-4,558.17	2,046.91	5,009.46	4,981.40	28.06	178.498		
2,600.00	2,306.43	2,332.66	2,332.47	21.83	8.07	95.29	-4,557.91	2,045.89	5,016.92	4,987.12	29.79	168.402		
2,700.00	2,378.56	2,400.65	2,400.46	23.33	8.31	95.84	-4,557.70	2,044.96	5,025.37	4,993.87	31.50	159.539		
2,800.00	2,450.68	2,484.96	2,484.75	24.84	8.61	96.51	-4,557.32	2,043.96	5,034.71	5,001.45	33.26	151.360		
2,900.00	2,522.81	2,562.95	2,562.74	26.36	8.89	97.13	-4,556.78	2,043.17	5,044.86	5,009.86	35.00	144.143		
3,000.00	2,594.93	2,649.69	2,649.47	27.88	9.20	97.81	-4,556.06	2,042.22	5,055.85	5,019.09	36.76	137.536		
3,100.00	2,667.06	2,728.42	2,728.19	29.40	9.48	98.44	-4,555.16	2,041.12	5,067.51	5,029.03	38.49	131.674		
3,200.00	2,739.18	2,787.90	2,787.66	30.92	9.70	98.91	-4,554.57	2,040.21	5,080.21	5,040.08	40.13	126.587		
3,300.00	2,811.31	2,850.55	2,850.30	32.45	9.92	99.40	-4,554.10	2,039.11	5,094.00	5,052.22	41.78	121.921		
3,400.00	2,883.43	2,914.06	2,913.79	33.98	10.15	99.91	-4,553.76	2,037.70	5,108.82	5,065.40	43.42	117.654		
3,500.00	2,955.56	2,979.55	2,979.26	35.51	10.38	100.43	-4,553.49	2,036.16	5,124.66	5,079.60	45.06	113.732		
3,600.00	3,027.68	3,043.14	3,042.84	37.04	10.61	100.93	-4,553.31	2,034.70	5,141.51	5,094.83	46.68	110.151		
3,700.00	3,099.81	3,108.08	3,107.77	38.57	10.85	101.44	-4,553.21	2,033.27	5,159.38	5,111.09	48.29	106.850		
3,800.00	3,171.93	3,193.67	3,193.33	40.11	11.15	102.11	-4,552.99	2,031.34	5,178.07	5,128.11	49.96	103.645		
3,900.00	3,244.06	3,262.59	3,262.24	41.64	11.40	102.65	-4,552.71	2,029.82	5,197.56	5,146.01	51.56	100.812		
4,000.00	3,316.18	3,329.43	3,329.06	43.18	11.64	103.16	-4,552.48	2,028.53	5,217.98	5,164.85	53.13	98.207		
4,100.00	3,388.31	3,394.72	3,394.33	44.71	11.88	103.67	-4,552.32	2,027.18	5,239.34	5,184.65	54.69	95.807		
4,200.00	3,460.43	3,456.91	3,456.51	46.25	12.10	104.15	-4,552.25	2,025.86	5,261.65	5,205.44	56.21	93.602		
4,300.00	3,532.56	3,523.66	3,523.25	47.79	12.34	104.66	-4,552.28	2,024.54	5,284.93	5,227.18	57.74	91.528		
4,400.00	3,604.68	3,601.38	3,600.96	49.33	12.62	105.25	-4,552.27	2,023.12	5,308.99	5,249.70	59.30	89.534		
4,500.00	3,676.81	3,665.17	3,664.74	50.87	12.85	105.73	-4,552.26	2,021.96	5,333.89	5,273.10	60.78	87.756		
4,600.00	3,748.93	3,736.92	3,736.47	52.41	13.10	106.27	-4,552.32	2,020.55	5,359.66	5,297.38	62.28	86.058		
4,700.00	3,821.06	3,818.21	3,817.75	53.95	13.40	106.88	-4,552.27	2,018.93	5,386.13	5,322.33	63.80	84.422		
4,800.00	3,893.18	3,884.43	3,883.95	55.49	13.63	107.38	-4,552.21	2,017.67	5,413.38	5,348.14	65.24	82.971		
4,900.00	3,965.31	3,951.68	3,951.19	57.03	13.88	107.88	-4,552.19	2,016.46	5,441.44	5,374.76	66.68	81.610		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,027.63	4,027.13	58.58	14.15	108.43	-4,552.21	2,015.13	5,470.30	5,402.17	68.13	80.297		
5,100.00	4,109.56	4,128.51	4,128.00	60.12	14.51	109.17	-4,551.87	2,013.54	5,499.64	5,429.98	69.66	78.953		
5,200.00	4,181.68	4,229.87	4,229.35	61.66	14.87	109.90	-4,551.03	2,012.54	5,529.32	5,458.14	71.17	77.689		
5,300.00	4,253.81	4,316.98	4,316.45	63.20	15.18	110.52	-4,549.96	2,012.19	5,559.37	5,486.76	72.61	76.561		
5,400.00	4,325.93	4,376.21	4,375.68	64.75	15.38	110.93	-4,549.29	2,012.11	5,590.16	5,516.23	73.93	75.616		
5,500.00	4,398.06	4,436.18	4,435.64	66.29	15.59	111.35	-4,548.75	2,012.08	5,621.79	5,546.56	75.23	74.728		
5,600.00	4,470.18	4,496.44	4,495.90	67.84	15.80	111.77	-4,548.32	2,011.97	5,654.25	5,577.73	76.52	73.897		
5,700.00	4,542.31	4,561.78	4,561.24	69.38	16.04	112.22	-4,547.95	2,011.70	5,687.48	5,609.68	77.81	73.097		
5,800.00	4,614.43	4,637.76	4,637.22	70.92	16.31	112.75	-4,547.51	2,011.08	5,721.42	5,642.30	79.12	72.309		
5,900.00	4,686.56	4,735.47	4,734.91	72.47	16.66	113.42	-4,546.55	2,009.61	5,755.81	5,675.30	80.51	71.490		
6,000.00	4,758.68	4,834.90	4,834.31	74.01	17.01	114.11	-4,544.95	2,007.83	5,790.43	5,708.54	81.89	70.712		
6,100.00	4,830.81	4,915.51	4,914.89	75.56	17.30	114.66	-4,543.42	2,006.38	5,825.51	5,742.34	83.17	70.043		
6,200.00	4,902.93	4,980.41	4,979.78	77.10	17.53	115.10	-4,542.20	2,005.21	5,861.21	5,776.84	84.38	69.466		
6,300.00	4,975.06	5,040.54	5,039.88	78.65	17.75	115.50	-4,541.12	2,004.11	5,897.61	5,812.06	85.54	68.942		
6,400.00	5,047.18	5,097.51	5,096.84	80.19	17.95	115.88	-4,540.23	2,003.01	5,934.78	5,848.09	86.68	68.464		
6,500.00	5,119.31	5,157.02	5,156.33	81.74	18.17	116.28	-4,539.41	2,001.78	5,972.69	5,884.88	87.82	68.012		
6,600.00	5,191.43	5,220.12	5,219.41	83.28	18.39	116.70	-4,538.64	2,000.38	6,011.33	5,922.38	88.95	67.581		
6,700.00	5,263.56	5,292.87	5,292.14	84.83	18.66	117.17	-4,537.77	1,998.78	6,050.56	5,960.45	90.11	67.148		
6,800.00	5,335.68	5,376.41	5,375.64	86.37	18.96	117.72	-4,536.68	1,996.95	6,090.27	5,998.98	91.29	66.711		
6,900.00	5,407.81	5,450.89	5,450.10	87.92	19.22	118.20	-4,535.56	1,995.26	6,130.42	6,037.99	92.43	66.327		
7,000.00	5,479.93	5,521.29	5,520.48	89.47	19.48	118.65	-4,534.49	1,993.62	6,171.11	6,077.58	93.53	65.981		
7,100.00	5,552.06	5,591.93	5,591.09	91.01	19.73	119.10	-4,533.50	1,992.22	6,212.34	6,117.72	94.62	65.657		
7,200.00	5,624.18	5,660.59	5,659.74	92.56	19.98	119.53	-4,532.62	1,991.06	6,254.10	6,158.42	95.69	65.360		
7,300.00	5,696.31	5,725.55	5,724.68	94.10	20.21	119.94	-4,531.84	1,990.02	6,296.41	6,199.68	96.73	65.095		
7,400.00	5,768.43	5,786.06	5,785.19	95.65	20.43	120.31	-4,531.29	1,989.24	6,339.32	6,241.58	97.73	64.863		
7,500.00	5,840.56	5,858.76	5,857.88	97.20	20.69	120.75	-4,530.75	1,988.48	6,382.77	6,283.99	98.78	64.614		
7,600.00	5,912.68	5,957.68	5,956.79	98.74	21.04	121.34	-4,529.79	1,987.28	6,426.58	6,326.65	99.93	64.309		
7,700.00	5,984.81	7,700.00	6,088.00	100.29	27.23	122.13	-4,527.19	1,985.75	6,470.03	6,363.10	106.93	60.509		
7,800.00	6,056.93	6,155.81	6,154.86	101.84	21.75	122.52	-4,525.55	1,985.05	6,513.72	6,411.53	102.19	63.743		
7,900.00	6,129.06	6,200.00	6,199.03	103.38	21.90	122.78	-4,524.57	1,984.14	6,558.24	6,455.19	103.06	63.637		
8,000.00	6,201.18	6,248.73	6,247.73	104.93	22.08	123.07	-4,523.64	1,982.99	6,603.49	6,499.56	103.93	63.537		
8,100.00	6,273.31	6,300.00	6,298.99	106.48	22.26	123.37	-4,522.82	1,981.94	6,649.33	6,544.53	104.81	63.444		
8,200.00	6,345.43	6,339.46	6,338.44	108.02	22.41	123.60	-4,522.34	1,981.10	6,695.88	6,590.26	105.62	63.399		
8,300.00	6,417.56	8,300.00	6,450.89	109.57	29.40	124.24	-4,521.21	1,978.52	6,743.11	6,629.78	113.33	59.502		
8,400.00	6,489.68	8,400.00	6,652.41	111.12	29.61	125.36	-4,516.97	1,977.33	6,789.24	6,674.90	114.34	59.378		
8,500.00	6,561.81	6,818.65	6,817.42	112.66	24.09	126.25	-4,511.41	1,978.36	6,834.57	6,725.01	109.56	62.383		
8,600.00	6,633.93	6,836.13	6,834.90	114.21	24.15	126.34	-4,510.91	1,978.51	6,880.45	6,770.20	110.25	62.407		
8,700.00	6,706.06	6,866.00	6,864.76	115.76	24.25	126.50	-4,510.14	1,978.78	6,927.14	6,816.16	110.98	62.418		
8,800.00	6,778.18	6,900.00	6,898.75	117.30	24.37	126.68	-4,509.53	1,979.09	6,974.64	6,862.93	111.71	62.434		
8,900.00	6,850.31	6,953.07	6,951.81	118.85	24.56	126.95	-4,508.64	1,979.20	7,022.81	6,910.29	112.52	62.415		
9,000.00	6,922.43	7,028.66	7,027.38	120.40	24.82	127.35	-4,506.94	1,978.27	7,071.42	6,958.02	113.40	62.356		
9,100.00	6,994.56	7,117.84	7,116.54	121.95	25.13	127.81	-4,505.18	1,978.37	7,120.10	7,005.75	114.35	62.263		
9,200.00	7,066.68	7,157.09	7,155.78	123.49	25.27	128.01	-4,504.59	1,978.55	7,169.31	7,054.24	115.07	62.304		
9,300.00	7,138.81	7,200.00	7,198.69	125.04	25.42	128.23	-4,504.07	1,978.56	7,219.17	7,103.39	115.79	62.348		
9,392.50	7,205.52	7,237.67	7,236.36	126.47	25.55	128.42	-4,503.70	1,978.39	7,265.85	7,149.41	116.44	62.402		
9,400.00	7,210.94	7,241.11	7,239.79	126.59	25.57	127.50	-4,503.67	1,978.37	7,269.62	7,153.13	116.49	62.406		
9,450.00	7,247.42	7,264.14	7,262.82	127.35	25.65	121.35	-4,503.47	1,978.17	7,292.80	7,175.93	116.86	62.405		
9,500.00	7,284.35	7,287.30	7,285.98	128.10	25.73	115.20	-4,503.27	1,977.91	7,312.51	7,195.26	117.25	62.364		
9,550.00	7,321.43	7,325.69	7,324.37	128.83	25.87	109.24	-4,502.96	1,977.38	7,328.62	7,210.88	117.74	62.246		
9,600.00	7,358.38	7,382.42	7,381.09	129.52	26.07	103.61	-4,502.38	1,976.63	7,340.90	7,222.58	118.32	62.045		
9,650.00	7,394.93	7,421.75	7,420.42	130.16	26.21	98.25	-4,501.89	1,976.11	7,349.29	7,230.47	118.81	61.855		
9,700.00	7,430.79	7,452.66	7,451.32	130.76	26.32	93.30	-4,501.48	1,975.62	7,353.82	7,234.55	119.27	61.657		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,482.53	7,481.18	131.30	26.43	88.88	-4,501.06	1,975.08	7,354.50	7,234.79	119.71	61.436		
9,800.00	7,499.38	7,509.59	7,508.23	131.78	26.53	85.02	-4,500.67	1,974.53	7,351.33	7,231.21	120.12	61.199		
9,850.00	7,531.58	7,533.27	7,531.90	132.21	26.61	81.73	-4,500.39	1,974.13	7,344.37	7,223.87	120.50	60.948		
9,900.00	7,562.06	7,555.97	7,554.60	132.57	26.69	79.04	-4,500.21	1,973.84	7,333.66	7,212.81	120.86	60.681		
9,950.00	7,590.58	7,577.51	7,576.14	132.87	26.77	76.94	-4,500.12	1,973.65	7,319.30	7,198.12	121.18	60.400		
10,000.00	7,616.93	7,600.00	7,598.63	133.11	26.85	75.43	-4,500.10	1,973.54	7,301.38	7,179.89	121.48	60.102		
10,050.00	7,640.90	10,050.00	7,762.96	133.29	35.43	75.59	-4,498.46	1,973.37	7,279.79	7,149.33	130.46	55.802		
10,100.00	7,662.32	10,100.00	7,783.70	133.42	35.60	75.34	-4,498.08	1,973.46	7,254.73	7,123.93	130.80	55.465		
10,150.00	7,681.01	10,150.00	7,801.68	133.50	35.78	75.69	-4,497.76	1,973.53	7,226.62	7,095.51	131.11	55.121		
10,200.00	7,696.85	7,800.00	7,798.61	133.52	27.55	76.52	-4,497.81	1,973.52	7,195.67	7,072.72	122.95	58.524		
10,250.00	7,709.70	7,800.00	7,798.61	133.51	27.55	78.08	-4,497.81	1,973.52	7,162.11	7,039.10	123.01	58.225		
10,300.00	7,719.47	7,800.00	7,798.61	133.46	27.55	80.45	-4,497.81	1,973.52	7,126.15	7,003.11	123.04	57.918		
10,350.00	7,726.09	7,800.00	7,798.61	133.37	27.55	83.75	-4,497.81	1,973.52	7,088.03	6,964.98	123.05	57.602		
10,400.00	7,729.50	7,800.00	7,798.61	133.26	27.55	88.13	-4,497.81	1,973.52	7,048.00	6,924.96	123.05	57.279		
10,427.79	7,730.00	7,800.00	7,798.61	133.18	27.55	91.11	-4,497.81	1,973.52	7,025.04	6,902.00	123.04	57.095		
10,500.00	7,730.00	7,800.00	7,798.61	132.98	27.55	91.11	-4,497.81	1,973.52	6,964.87	6,841.85	123.02	56.617		
10,600.00	7,730.00	7,800.00	7,798.61	132.72	27.55	91.11	-4,497.81	1,973.52	6,881.92	6,758.94	122.98	55.958		
10,700.00	7,730.00	7,800.00	7,798.61	132.47	27.55	91.11	-4,497.81	1,973.52	6,799.43	6,676.48	122.95	55.302		
10,800.00	7,730.00	7,800.00	7,798.61	132.22	27.55	91.11	-4,497.81	1,973.52	6,717.42	6,594.50	122.92	54.649		
10,900.00	7,730.00	7,800.00	7,798.61	131.99	27.55	91.11	-4,497.81	1,973.52	6,635.90	6,513.01	122.89	53.999		
11,000.00	7,730.00	7,800.00	7,798.61	131.77	27.55	91.11	-4,497.81	1,973.52	6,554.89	6,432.03	122.86	53.352		
11,100.00	7,730.00	7,800.00	7,798.61	131.56	27.55	91.11	-4,497.81	1,973.52	6,474.42	6,351.58	122.83	52.709		
11,200.00	7,730.00	7,800.00	7,798.61	131.36	27.55	91.11	-4,497.81	1,973.52	6,394.49	6,271.68	122.81	52.069		
11,300.00	7,730.00	7,800.00	7,798.61	131.17	27.55	91.11	-4,497.81	1,973.52	6,315.14	6,192.36	122.78	51.434		
11,400.00	7,730.00	7,800.00	7,798.61	130.99	27.55	91.11	-4,497.81	1,973.52	6,236.38	6,113.62	122.76	50.802		
11,500.00	7,730.00	7,800.00	7,798.61	130.82	27.55	91.11	-4,497.81	1,973.52	6,158.24	6,035.50	122.74	50.174		
11,600.00	7,730.00	7,800.00	7,798.61	130.66	27.55	91.11	-4,497.81	1,973.52	6,080.73	5,958.02	122.72	49.551		
11,700.00	7,730.00	7,800.00	7,798.61	130.51	27.55	91.11	-4,497.81	1,973.52	6,003.90	5,881.20	122.70	48.932		
11,800.00	7,730.00	7,800.00	7,798.61	130.37	27.55	91.11	-4,497.81	1,973.52	5,927.75	5,805.07	122.68	48.318		
11,900.00	7,730.00	7,800.00	7,798.61	130.24	27.55	91.11	-4,497.81	1,973.52	5,852.32	5,729.65	122.67	47.708		
12,000.00	7,730.00	7,800.00	7,798.61	130.13	27.55	91.11	-4,497.81	1,973.52	5,777.64	5,654.98	122.66	47.104		
12,100.00	7,730.00	7,800.00	7,798.61	130.02	27.55	91.11	-4,497.81	1,973.52	5,703.73	5,581.08	122.65	46.504		
12,200.00	7,730.00	7,800.00	7,798.61	129.93	27.55	91.11	-4,497.81	1,973.52	5,630.63	5,507.99	122.64	45.910		
12,300.00	7,730.00	7,800.00	7,798.61	129.85	27.55	91.11	-4,497.81	1,973.52	5,558.37	5,435.73	122.64	45.322		
12,400.00	7,730.00	7,800.00	7,798.61	129.77	27.55	91.11	-4,497.81	1,973.52	5,486.98	5,364.33	122.64	44.739		
12,500.00	7,730.00	12,500.00	7,808.33	129.71	44.01	91.25	-4,497.64	1,973.56	5,416.48	5,277.34	139.15	38.927		
12,600.00	7,730.00	12,600.00	7,806.52	129.66	44.36	91.22	-4,497.67	1,973.55	5,346.94	5,207.44	139.50	38.329		
12,700.00	7,730.00	12,700.00	7,804.70	129.63	44.71	91.20	-4,497.70	1,973.54	5,278.38	5,138.52	139.86	37.741		
12,800.00	7,730.00	12,800.00	7,802.88	129.60	45.06	91.17	-4,497.74	1,973.53	5,210.83	5,070.60	140.22	37.161		
12,900.00	7,730.00	12,900.00	7,801.07	129.59	45.41	91.14	-4,497.77	1,973.53	5,144.33	5,003.75	140.59	36.591		
13,000.00	7,730.00	13,000.00	7,799.25	129.59	45.76	91.12	-4,497.80	1,973.52	5,078.94	4,937.98	140.96	36.031		
13,100.00	7,730.00	13,100.00	7,797.43	129.60	46.11	91.09	-4,497.84	1,973.51	5,014.69	4,873.35	141.34	35.480		
13,200.00	7,730.00	13,200.00	7,795.62	129.63	46.46	91.06	-4,497.87	1,973.51	4,951.62	4,809.90	141.72	34.940		
13,300.00	7,730.00	13,300.00	7,793.80	129.66	46.81	91.03	-4,497.90	1,973.50	4,889.78	4,747.67	142.11	34.409		
13,400.00	7,730.00	13,400.00	7,791.98	129.72	47.16	91.01	-4,497.93	1,973.49	4,829.22	4,686.72	142.50	33.889		
13,500.00	7,730.00	13,500.00	7,790.17	129.78	47.51	90.98	-4,497.97	1,973.48	4,769.99	4,627.09	142.90	33.380		
13,600.00	7,730.00	13,600.00	7,788.35	129.86	47.86	90.95	-4,498.00	1,973.48	4,712.14	4,568.83	143.31	32.881		
13,700.00	7,730.00	13,700.00	7,786.53	129.96	48.21	90.93	-4,498.03	1,973.47	4,655.71	4,511.99	143.72	32.394		
13,800.00	7,730.00	13,800.00	7,784.72	130.07	48.56	90.90	-4,498.07	1,973.46	4,600.77	4,456.62	144.14	31.918		
13,900.00	7,730.00	13,900.00	7,782.90	130.19	48.91	90.87	-4,498.10	1,973.45	4,547.36	4,402.78	144.57	31.454		
14,000.00	7,730.00	14,000.00	7,781.09	130.33	49.26	90.85	-4,498.13	1,973.45	4,495.53	4,350.53	145.01	31.002		
14,100.00	7,730.00	14,100.00	7,779.27	130.49	49.61	90.82	-4,498.17	1,973.44	4,445.36	4,299.91	145.45	30.562		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	14,200.00	7,777.45	130.67	49.96	90.79	-4,498.20	1,973.43	4,396.88	4,250.98	145.91	30.135		
14,300.00	7,730.00	14,300.00	7,775.64	130.86	50.31	90.77	-4,498.23	1,973.42	4,350.17	4,203.80	146.37	29.720		
14,400.00	7,730.00	7,800.00	7,798.61	131.07	27.55	91.11	-4,497.81	1,973.52	4,305.34	4,181.49	123.85	34.762		
14,500.00	7,730.00	7,800.00	7,798.61	131.30	27.55	91.11	-4,497.81	1,973.52	4,262.32	4,138.33	124.00	34.375		
14,600.00	7,730.00	7,800.00	7,798.61	131.55	27.55	91.11	-4,497.81	1,973.52	4,221.24	4,097.09	124.15	34.001		
14,700.00	7,730.00	7,800.00	7,798.61	131.82	27.55	91.11	-4,497.81	1,973.52	4,182.14	4,057.83	124.31	33.642		
14,800.00	7,730.00	7,800.00	7,798.61	132.11	27.55	91.11	-4,497.81	1,973.52	4,145.09	4,020.60	124.49	33.298		
14,900.00	7,730.00	7,800.00	7,798.61	132.42	27.55	91.11	-4,497.81	1,973.52	4,110.13	3,985.47	124.67	32.969		
15,000.00	7,730.00	7,800.00	7,798.61	132.75	27.55	91.11	-4,497.81	1,973.52	4,077.33	3,952.47	124.86	32.655		
15,100.00	7,730.00	7,800.00	7,798.61	133.10	27.55	91.11	-4,497.81	1,973.52	4,046.74	3,921.68	125.06	32.358		
15,200.00	7,730.00	7,800.00	7,798.61	133.48	27.55	91.11	-4,497.81	1,973.52	4,018.40	3,893.13	125.27	32.078		
15,300.00	7,730.00	15,300.00	7,757.47	133.88	53.81	90.50	-4,498.56	1,973.35	3,992.16	3,840.66	151.50	26.351		
15,400.00	7,730.00	15,400.00	7,755.65	134.31	54.16	90.47	-4,498.59	1,973.34	3,968.45	3,816.39	152.06	26.098 SF		
15,500.00	7,730.00	7,801.15	7,799.76	134.76	27.56	91.12	-4,497.78	1,973.53	3,947.39	3,821.43	125.96	31.339		
15,600.00	7,730.00	7,778.83	7,777.44	135.23	27.48	90.79	-4,498.33	1,973.27	3,928.52	3,802.56	125.97	31.187		
15,700.00	7,730.00	7,761.84	7,760.46	135.73	27.42	90.54	-4,498.70	1,973.13	3,912.11	3,786.08	126.03	31.040		
15,800.00	7,730.00	7,748.47	7,747.10	136.26	27.37	90.34	-4,498.95	1,973.06	3,898.19	3,772.05	126.14	30.904		
15,900.00	7,730.00	7,737.69	7,736.31	136.81	27.34	90.18	-4,499.13	1,973.03	3,886.78	3,760.50	126.28	30.780		
16,000.00	7,730.00	7,728.80	7,727.43	137.39	27.30	90.05	-4,499.27	1,973.02	3,877.92	3,751.48	126.44	30.670		
16,100.00	7,730.00	7,721.35	7,719.98	138.00	27.28	89.94	-4,499.38	1,973.03	3,871.61	3,745.00	126.62	30.577		
16,200.00	7,730.00	7,715.01	7,713.64	138.63	27.26	89.85	-4,499.46	1,973.05	3,867.88	3,741.07	126.81	30.501		
16,294.46	7,730.00	7,709.84	7,708.47	139.26	27.24	89.77	-4,499.52	1,973.06	3,866.73	3,739.73	127.00	30.446 CC		
16,300.00	7,730.00	7,709.56	7,708.19	139.30	27.24	89.77	-4,499.52	1,973.07	3,866.73	3,739.72	127.01	30.443 ES		
16,400.00	7,730.00	7,704.82	7,703.45	139.99	27.22	89.70	-4,499.58	1,973.09	3,868.17	3,740.94	127.23	30.404		
16,500.00	7,730.00	7,700.65	7,699.28	140.70	27.21	89.63	-4,499.62	1,973.11	3,872.19	3,744.74	127.44	30.383		
16,600.00	7,730.00	7,699.27	7,697.90	141.45	27.20	89.61	-4,499.64	1,973.12	3,878.78	3,751.09	127.69	30.376		
16,700.00	7,730.00	7,698.41	7,697.04	142.22	27.20	89.60	-4,499.65	1,973.12	3,887.93	3,759.99	127.94	30.388		
16,800.00	7,730.00	7,697.57	7,696.20	143.03	27.20	89.59	-4,499.65	1,973.13	3,899.63	3,771.44	128.19	30.421		
16,900.00	7,730.00	7,696.74	7,695.37	143.86	27.19	89.58	-4,499.66	1,973.13	3,913.84	3,785.41	128.43	30.474		
17,000.00	7,730.00	7,695.93	7,694.56	144.71	27.19	89.56	-4,499.67	1,973.14	3,930.55	3,801.88	128.67	30.548		
17,100.00	7,730.00	7,695.13	7,693.76	145.60	27.19	89.55	-4,499.68	1,973.14	3,949.72	3,820.82	128.90	30.641		
17,200.00	7,730.00	7,694.35	7,692.98	146.51	27.18	89.54	-4,499.69	1,973.15	3,971.32	3,842.19	129.13	30.755		
17,300.00	7,730.00	7,693.58	7,692.21	147.44	27.18	89.53	-4,499.69	1,973.15	3,995.31	3,865.96	129.35	30.888		
17,400.00	7,730.00	7,692.82	7,691.45	148.40	27.18	89.52	-4,499.70	1,973.15	4,021.63	3,892.08	129.56	31.041		
17,500.00	7,730.00	7,692.08	7,690.71	149.39	27.18	89.51	-4,499.71	1,973.16	4,050.26	3,920.50	129.76	31.212		
17,600.00	7,730.00	7,691.35	7,689.98	150.40	27.17	89.50	-4,499.71	1,973.16	4,081.14	3,951.18	129.96	31.403		
17,700.00	7,730.00	7,690.63	7,689.26	151.44	27.17	89.49	-4,499.72	1,973.17	4,114.21	3,984.07	130.15	31.611		
17,800.00	7,730.00	7,689.92	7,688.55	152.50	27.17	89.47	-4,499.73	1,973.17	4,149.44	4,019.11	130.33	31.838		
17,900.00	7,730.00	7,689.23	7,687.86	153.58	27.17	89.46	-4,499.73	1,973.17	4,186.75	4,056.25	130.50	32.082		
18,000.00	7,730.00	7,688.55	7,687.18	154.68	27.16	89.45	-4,499.74	1,973.18	4,226.11	4,095.44	130.66	32.343		
18,100.00	7,730.00	7,687.88	7,686.50	155.80	27.16	89.44	-4,499.74	1,973.18	4,267.44	4,136.62	130.82	32.621		
18,200.00	7,730.00	7,687.22	7,685.85	156.95	27.16	89.43	-4,499.75	1,973.19	4,310.70	4,179.73	130.96	32.915		
18,300.00	7,730.00	7,686.57	7,685.20	158.11	27.16	89.43	-4,499.76	1,973.19	4,355.82	4,224.72	131.10	33.225		
18,400.00	7,730.00	7,685.93	7,684.56	159.30	27.15	89.42	-4,499.76	1,973.19	4,402.75	4,271.52	131.23	33.550		
18,500.00	7,730.00	7,685.30	7,683.93	160.50	27.15	89.41	-4,499.77	1,973.20	4,451.44	4,320.08	131.35	33.890		
18,600.00	7,730.00	7,684.68	7,683.31	161.72	27.15	89.40	-4,499.77	1,973.20	4,501.81	4,370.35	131.46	34.244		
18,700.00	7,730.00	7,684.07	7,682.70	162.96	27.15	89.39	-4,499.78	1,973.20	4,553.83	4,422.26	131.57	34.611		
18,800.00	7,730.00	7,683.47	7,682.10	164.21	27.15	89.38	-4,499.78	1,973.21	4,607.43	4,475.77	131.67	34.993		
18,900.00	7,730.00	7,682.88	7,681.51	165.48	27.14	89.37	-4,499.79	1,973.21	4,662.56	4,530.80	131.76	35.387		
19,000.00	7,730.00	7,682.30	7,680.93	166.76	27.14	89.36	-4,499.79	1,973.21	4,719.17	4,587.32	131.85	35.793		
19,100.00	7,730.00	7,681.73	7,680.36	168.06	27.14	89.35	-4,499.80	1,973.22	4,777.20	4,645.27	131.92	36.212		
19,200.00	7,730.00	7,681.17	7,679.80	169.38	27.14	89.35	-4,499.80	1,973.22	4,836.60	4,704.60	132.00	36.642		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,680.61	7,679.24	170.70	27.14	89.34	-4,499.81	1,973.22	4,897.32	4,765.25	132.06	37.083	
19,400.00	7,730.00	7,680.07	7,678.70	172.04	27.13	89.33	-4,499.81	1,973.22	4,959.31	4,827.19	132.13	37.535	
19,500.00	7,730.00	7,679.53	7,678.16	173.40	27.13	89.32	-4,499.81	1,973.23	5,022.53	4,890.35	132.18	37.997	
19,600.00	7,730.00	7,679.00	7,677.63	174.76	27.13	89.31	-4,499.82	1,973.23	5,086.93	4,954.70	132.23	38.469	
19,700.00	7,730.00	7,678.47	7,677.10	176.14	27.13	89.31	-4,499.82	1,973.23	5,152.47	5,020.19	132.28	38.951	
19,800.00	7,730.00	7,677.96	7,676.59	177.52	27.13	89.30	-4,499.83	1,973.24	5,219.10	5,086.77	132.32	39.442	
19,900.00	7,730.00	7,677.45	7,676.08	178.92	27.12	89.29	-4,499.83	1,973.24	5,286.78	5,154.42	132.36	39.941	
20,000.00	7,730.00	7,676.95	7,675.58	180.33	27.12	89.28	-4,499.83	1,973.24	5,355.47	5,223.07	132.40	40.450	
20,100.00	7,730.00	7,676.46	7,675.09	181.75	27.12	89.28	-4,499.84	1,973.24	5,425.14	5,292.71	132.43	40.966	
20,184.95	7,730.00	7,676.04	7,674.67	182.96	27.12	89.27	-4,499.84	1,973.25	5,485.06	5,352.60	132.46	41.411	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	18.00	18.00	0.00	0.14	163.98	-7,179.67	2,061.70	7,469.82					
100.00	100.00	118.00	118.00	0.13	1.09	163.98	-7,179.67	2,061.70	7,469.82	7,468.60	1.23	6,096.527		
200.00	199.98	217.98	217.98	0.49	2.84	93.54	-7,179.67	2,061.70	7,469.93	7,466.61	3.33	2,245.973		
300.00	299.84	317.84	317.84	0.86	4.58	93.57	-7,179.67	2,061.70	7,470.26	7,464.82	5.43	1,375.315		
400.00	399.45	417.45	417.45	1.23	6.32	93.62	-7,179.67	2,061.70	7,470.80	7,463.26	7.55	989.808		
500.00	498.70	516.70	516.70	1.63	8.05	93.70	-7,179.67	2,061.70	7,471.59	7,461.91	9.68	772.063		
600.00	597.47	615.47	615.47	2.05	9.77	93.80	-7,179.67	2,061.70	7,472.63	7,460.80	11.82	631.952		
700.00	695.62	713.62	713.62	2.51	11.49	93.92	-7,179.67	2,061.70	7,473.93	7,459.94	13.99	534.113		
800.00	793.06	811.06	811.06	3.00	13.19	94.05	-7,179.67	2,061.70	7,475.54	7,459.35	16.19	461.845		
900.00	889.64	907.64	907.64	3.53	14.87	94.20	-7,179.67	2,061.70	7,477.47	7,459.06	18.41	406.234		
1,000.00	985.27	1,003.27	1,003.27	4.12	16.54	94.37	-7,179.67	2,061.70	7,479.75	7,459.10	20.66	362.088		
1,100.00	1,079.82	1,102.18	1,097.82	4.75	18.27	94.55	-7,179.67	2,061.70	7,482.43	7,459.42	23.02	325.097		
1,200.00	1,173.17	1,208.83	1,191.17	5.44	20.13	94.75	-7,179.67	2,061.70	7,485.54	7,459.98	25.56	292.815		
1,300.00	1,265.21	1,283.21	1,283.21	6.18	21.43	94.95	-7,179.67	2,061.70	7,489.13	7,461.52	27.61	271.280		
1,400.00	1,355.84	1,373.84	1,373.84	6.99	23.01	95.16	-7,179.67	2,061.70	7,493.24	7,463.25	29.99	249.831		
1,500.00	1,444.94	1,462.94	1,462.94	7.87	24.56	95.38	-7,179.67	2,061.70	7,497.91	7,465.50	32.42	231.304		
1,600.00	1,532.39	1,550.39	1,550.39	8.80	26.09	95.59	-7,179.67	2,061.70	7,503.21	7,468.33	34.87	215.147		
1,700.00	1,618.11	1,636.11	1,636.11	9.81	27.59	95.81	-7,179.67	2,061.70	7,509.17	7,471.80	37.37	200.943		
1,800.00	1,701.97	1,719.97	1,719.97	10.89	29.05	96.02	-7,179.67	2,061.70	7,515.85	7,475.95	39.90	188.369		
1,900.00	1,783.88	1,801.88	1,801.88	12.04	30.48	96.23	-7,179.67	2,061.70	7,523.31	7,480.84	42.46	177.169		
2,000.00	1,863.74	1,881.74	1,881.74	13.26	31.87	96.43	-7,179.67	2,061.70	7,531.59	7,486.53	45.06	167.141		
2,100.00	1,941.45	1,959.45	1,959.45	14.55	33.23	96.62	-7,179.67	2,061.70	7,540.76	7,493.07	47.69	158.121		
2,200.00	2,016.92	2,034.92	2,034.92	15.92	34.55	96.79	-7,179.67	2,061.70	7,550.87	7,500.52	50.35	149.976		
2,292.11	2,084.36	2,102.36	2,102.36	17.25	35.72	96.94	-7,179.67	2,061.70	7,561.05	7,508.23	52.82	143.153		
2,300.00	2,090.06	2,108.06	2,108.06	17.36	35.82	96.97	-7,179.67	2,061.70	7,561.96	7,508.93	53.03	142.596		
2,400.00	2,162.18	2,180.18	2,180.18	18.84	37.08	97.35	-7,179.67	2,061.70	7,573.84	7,518.11	55.73	135.905		
2,500.00	2,234.31	2,252.31	2,252.31	20.33	38.34	97.72	-7,179.67	2,061.70	7,586.33	7,527.90	58.43	129.832		
2,600.00	2,306.43	2,324.43	2,324.43	21.83	39.60	98.10	-7,179.67	2,061.70	7,599.43	7,538.30	61.14	124.300		
2,700.00	2,378.56	2,403.44	2,396.56	23.33	40.98	98.48	-7,179.67	2,061.70	7,613.15	7,549.18	63.96	119.022		
2,800.00	2,450.68	2,468.68	2,468.68	24.84	42.12	98.85	-7,179.67	2,061.70	7,627.46	7,560.91	66.55	114.614		
2,900.00	2,522.81	2,540.81	2,540.81	26.36	43.38	99.22	-7,179.67	2,061.70	7,642.38	7,573.13	69.25	110.355		
3,000.00	2,594.93	2,612.93	2,612.93	27.88	44.64	99.60	-7,179.67	2,061.70	7,657.89	7,585.94	71.95	106.430		
3,100.00	2,667.06	2,685.06	2,685.06	29.40	45.89	99.97	-7,179.67	2,061.70	7,674.00	7,599.35	74.65	102.802		
3,200.00	2,739.18	2,757.18	2,757.18	30.92	47.15	100.34	-7,179.67	2,061.70	7,690.70	7,613.36	77.34	99.440		
3,300.00	2,811.31	2,829.31	2,829.31	32.45	48.41	100.71	-7,179.67	2,061.70	7,707.99	7,627.96	80.03	96.318		
3,400.00	2,883.43	2,901.43	2,901.43	33.98	49.67	101.08	-7,179.67	2,061.70	7,725.85	7,643.15	82.71	93.413		
3,500.00	2,955.56	2,973.56	2,973.56	35.51	50.93	101.45	-7,179.67	2,061.70	7,744.30	7,658.92	85.38	90.704		
3,600.00	3,027.68	3,045.68	3,045.68	37.04	52.19	101.82	-7,179.67	2,061.70	7,763.32	7,675.27	88.05	88.172		
3,700.00	3,099.81	3,117.81	3,117.81	38.57	53.45	102.19	-7,179.67	2,061.70	7,782.91	7,692.20	90.71	85.802		
3,800.00	3,171.93	3,189.93	3,189.93	40.11	54.71	102.56	-7,179.67	2,061.70	7,803.07	7,709.71	93.36	83.580		
3,900.00	3,244.06	3,262.06	3,262.06	41.64	55.96	102.92	-7,179.67	2,061.70	7,823.78	7,727.78	96.01	81.493		
4,000.00	3,316.18	3,334.18	3,334.18	43.18	57.22	103.29	-7,179.67	2,061.70	7,845.06	7,746.42	98.64	79.531		
4,100.00	3,388.31	3,406.31	3,406.31	44.71	58.48	103.65	-7,179.67	2,061.70	7,866.88	7,765.61	101.27	77.682		
4,200.00	3,460.43	3,478.43	3,478.43	46.25	59.74	104.01	-7,179.67	2,061.70	7,889.26	7,785.37	103.89	75.939		
4,300.00	3,532.56	3,550.56	3,550.56	47.79	61.00	104.37	-7,179.67	2,061.70	7,912.17	7,805.67	106.50	74.292		
4,400.00	3,604.68	3,622.68	3,622.68	49.33	62.26	104.73	-7,179.67	2,061.70	7,935.63	7,826.53	109.10	72.735		
4,500.00	3,676.81	3,705.19	3,694.81	50.87	63.70	105.09	-7,179.67	2,061.70	7,959.62	7,847.74	111.88	71.146		
4,600.00	3,748.93	3,766.93	3,766.93	52.41	64.78	105.45	-7,179.67	2,061.70	7,984.14	7,869.86	114.28	69.865		
4,700.00	3,821.06	3,839.06	3,839.06	53.95	66.04	105.80	-7,179.67	2,061.70	8,009.18	7,892.33	116.85	68.541		
4,800.00	3,893.18	3,911.18	3,911.18	55.49	67.29	106.16	-7,179.67	2,061.70	8,034.74	7,915.33	119.42	67.283		
4,900.00	3,965.31	3,983.31	3,983.31	57.03	68.55	106.51	-7,179.67	2,061.70	8,060.82	7,938.85	121.97	66.088		
5,000.00	4,037.43	4,055.43	4,055.43	58.58	69.81	106.86	-7,179.67	2,061.70	8,087.40	7,962.89	124.52	64.951		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,127.56	4,127.56	60.12	71.07	107.21	-7,179.67	2,061.70	8,114.49	7,987.44	127.05	63.868		
5,200.00	4,181.68	4,200.32	4,199.68	61.66	72.34	107.56	-7,179.67	2,061.70	8,142.08	8,012.49	129.59	62.832		
5,300.00	4,253.81	4,271.81	4,271.81	63.20	73.59	107.91	-7,179.67	2,061.70	8,170.16	8,038.07	132.09	61.854		
5,400.00	4,325.93	4,343.93	4,343.93	64.75	74.85	108.26	-7,179.67	2,061.70	8,198.73	8,064.14	134.59	60.915		
5,500.00	4,398.06	4,416.06	4,416.06	66.29	76.11	108.60	-7,179.67	2,061.70	8,227.79	8,090.70	137.09	60.019		
5,600.00	4,470.18	4,488.18	4,488.18	67.84	77.36	108.95	-7,179.67	2,061.70	8,257.32	8,117.75	139.57	59.163		
5,700.00	4,542.31	4,560.31	4,560.31	69.38	78.62	109.29	-7,179.67	2,061.70	8,287.33	8,145.29	142.04	58.344		
5,800.00	4,614.43	4,632.43	4,632.43	70.92	79.88	109.63	-7,179.67	2,061.70	8,317.81	8,173.30	144.50	57.561		
5,900.00	4,686.56	4,704.56	4,704.56	72.47	81.14	109.97	-7,179.67	2,061.70	8,348.75	8,201.79	146.96	56.811		
6,000.00	4,758.68	4,776.68	4,776.68	74.01	82.40	110.31	-7,179.67	2,061.70	8,380.15	8,230.75	149.40	56.093		
6,100.00	4,830.81	4,848.81	4,848.81	75.56	83.66	110.65	-7,179.67	2,061.70	8,412.00	8,260.17	151.83	55.405		
6,200.00	4,902.93	4,920.93	4,920.93	77.10	84.92	110.98	-7,179.67	2,061.70	8,444.30	8,290.05	154.25	54.745		
6,300.00	4,975.06	5,006.94	4,993.06	78.65	86.42	111.32	-7,179.67	2,061.70	8,477.04	8,320.14	156.90	54.028		
6,400.00	5,047.18	5,065.18	5,065.18	80.19	87.44	111.65	-7,179.67	2,061.70	8,510.22	8,351.16	159.06	53.504		
6,500.00	5,119.31	5,137.31	5,137.31	81.74	88.69	111.98	-7,179.67	2,061.70	8,543.83	8,382.39	161.45	52.921		
6,600.00	5,191.43	5,209.43	5,209.43	83.28	89.95	112.31	-7,179.67	2,061.70	8,577.87	8,414.05	163.82	52.361		
6,700.00	5,263.56	5,281.56	5,281.56	84.83	91.21	112.64	-7,179.67	2,061.70	8,612.34	8,446.15	166.19	51.822		
6,800.00	5,335.68	5,353.68	5,353.68	86.37	92.47	112.96	-7,179.67	2,061.70	8,647.22	8,478.67	168.55	51.304		
6,900.00	5,407.81	5,425.81	5,425.81	87.92	93.73	113.29	-7,179.67	2,061.70	8,682.51	8,511.62	170.89	50.806		
7,000.00	5,479.93	5,502.07	5,497.93	89.47	95.06	113.61	-7,179.67	2,061.70	8,718.21	8,544.91	173.30	50.306		
7,100.00	5,552.06	5,570.06	5,570.06	91.01	96.25	113.93	-7,179.67	2,061.70	8,754.32	8,578.76	175.56	49.866		
7,200.00	5,624.18	5,642.18	5,642.18	92.56	97.51	114.25	-7,179.67	2,061.70	8,790.82	8,612.94	177.87	49.422		
7,300.00	5,696.31	5,714.31	5,714.31	94.10	98.76	114.57	-7,179.67	2,061.70	8,827.71	8,647.53	180.18	48.994		
7,400.00	5,768.43	5,786.43	5,786.43	95.65	100.02	114.89	-7,179.67	2,061.70	8,864.99	8,682.52	182.47	48.582		
7,500.00	5,840.56	5,858.56	5,858.56	97.20	101.28	115.20	-7,179.67	2,061.70	8,902.65	8,717.90	184.76	48.185		
7,600.00	5,912.68	5,930.68	5,930.68	98.74	102.54	115.52	-7,179.67	2,061.70	8,940.70	8,753.66	187.03	47.802		
7,700.00	5,984.81	6,002.81	6,002.81	100.29	103.80	115.83	-7,179.67	2,061.70	8,979.11	8,789.81	189.30	47.433		
7,800.00	6,056.93	6,074.93	6,074.93	101.84	105.06	116.14	-7,179.67	2,061.70	9,017.90	8,826.34	191.56	47.077		
7,900.00	6,129.06	6,147.06	6,147.06	103.38	106.32	116.45	-7,179.67	2,061.70	9,057.04	8,863.24	193.80	46.734		
8,000.00	6,201.18	6,219.18	6,219.18	104.93	107.58	116.76	-7,179.67	2,061.70	9,096.55	8,900.51	196.04	46.402		
8,100.00	6,273.31	6,308.69	6,291.31	106.48	109.14	117.06	-7,179.67	2,061.70	9,136.41	8,937.84	198.57	46.012		
8,200.00	6,345.43	6,363.43	6,363.43	108.02	110.09	117.36	-7,179.67	2,061.70	9,176.62	8,976.14	200.48	45.773		
8,300.00	6,417.56	6,435.56	6,435.56	109.57	111.35	117.67	-7,179.67	2,061.70	9,217.17	9,014.49	202.69	45.475		
8,400.00	6,489.68	6,507.68	6,507.68	111.12	112.61	117.97	-7,179.67	2,061.70	9,258.07	9,053.19	204.89	45.187		
8,500.00	6,561.81	6,579.81	6,579.81	112.66	113.87	118.26	-7,179.67	2,061.70	9,299.30	9,092.23	207.07	44.908		
8,600.00	6,633.93	6,651.93	6,651.93	114.21	115.13	118.56	-7,179.67	2,061.70	9,340.87	9,131.61	209.25	44.639		
8,700.00	6,706.06	6,724.06	6,724.06	115.76	116.39	118.86	-7,179.67	2,061.70	9,382.76	9,171.33	211.42	44.379		
8,800.00	6,778.18	6,803.82	6,796.18	117.30	117.78	119.15	-7,179.67	2,061.70	9,424.97	9,211.25	213.72	44.100		
8,900.00	6,850.31	6,868.31	6,868.31	118.85	118.91	119.44	-7,179.67	2,061.70	9,467.50	9,251.77	215.74	43.884		
9,000.00	6,922.43	6,940.43	6,940.43	120.40	120.16	119.73	-7,179.67	2,061.70	9,510.35	9,292.47	217.88	43.649		
9,100.00	6,994.56	7,012.56	7,012.56	121.95	121.42	120.02	-7,179.67	2,061.70	9,553.51	9,333.49	220.02	43.422		
9,200.00	7,066.68	7,084.68	7,084.68	123.49	122.68	120.31	-7,179.67	2,061.70	9,596.97	9,374.83	222.14	43.202		
9,300.00	7,138.81	7,156.81	7,156.81	125.04	123.94	120.59	-7,179.67	2,061.70	9,640.73	9,416.47	224.26	42.989		
9,392.50	7,205.52	7,223.52	7,223.52	126.47	125.11	120.86	-7,179.67	2,061.70	9,681.48	9,455.27	226.21	42.798		
9,400.00	7,210.94	7,228.94	7,228.94	126.59	125.20	120.02	-7,179.67	2,061.70	9,684.75	9,458.38	226.37	42.783		
9,450.00	7,247.42	7,265.42	7,265.42	127.35	125.84	114.33	-7,179.67	2,061.70	9,704.42	9,476.97	227.45	42.666		
9,500.00	7,284.35	7,302.35	7,302.35	128.10	126.48	108.58	-7,179.67	2,061.70	9,720.24	9,491.69	228.56	42.528		
9,550.00	7,321.43	7,339.43	7,339.43	128.83	127.13	102.87	-7,179.67	2,061.70	9,732.13	9,502.44	229.69	42.371		
9,600.00	7,358.38	7,376.38	7,376.38	129.52	127.77	97.35	-7,179.67	2,061.70	9,740.00	9,509.17	230.83	42.195		
9,650.00	7,394.93	7,412.93	7,412.93	130.16	128.41	92.13	-7,179.67	2,061.70	9,743.81	9,511.84	231.97	42.004		
9,700.00	7,430.79	7,448.79	7,448.79	130.76	129.04	87.33	-7,179.67	2,061.70	9,743.53	9,510.44	233.09	41.801		
9,750.00	7,465.70	7,483.70	7,483.70	131.30	129.65	83.03	-7,179.67	2,061.70	9,739.18	9,504.99	234.19	41.587		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,517.38	7,517.38	131.78	130.23	79.27	-7,179.67	2,061.70	9,730.80	9,495.55	235.25	41.364		
9,850.00	7,531.58	7,549.58	7,549.58	132.21	130.80	76.08	-7,179.67	2,061.70	9,718.46	9,482.20	236.26	41.134		
9,900.00	7,562.06	7,580.06	7,580.06	132.57	131.33	73.47	-7,179.67	2,061.70	9,702.25	9,465.03	237.22	40.900		
9,950.00	7,590.58	7,608.58	7,608.58	132.87	131.83	71.44	-7,179.67	2,061.70	9,682.29	9,444.18	238.11	40.663		
10,000.00	7,616.93	7,634.93	7,634.93	133.11	132.29	69.98	-7,179.67	2,061.70	9,658.72	9,419.80	238.93	40.425		
10,050.00	7,640.90	7,658.90	7,658.90	133.29	132.70	69.11	-7,179.67	2,061.70	9,631.74	9,392.06	239.67	40.187		
10,100.00	7,662.32	7,680.32	7,680.32	133.42	133.08	68.85	-7,179.67	2,061.70	9,601.51	9,361.18	240.34	39.950		
10,150.00	7,681.01	7,700.99	7,699.01	133.50	133.44	69.24	-7,179.67	2,061.70	9,568.28	9,327.33	240.95	39.710		
10,200.00	7,696.85	7,714.85	7,714.85	133.52	133.68	70.36	-7,179.67	2,061.70	9,532.27	9,290.85	241.41	39.485		
10,250.00	7,709.70	7,727.70	7,727.70	133.51	133.91	72.32	-7,179.67	2,061.70	9,493.74	9,251.92	241.82	39.259		
10,300.00	7,719.47	7,737.47	7,737.47	133.46	134.08	75.33	-7,179.67	2,061.70	9,452.97	9,210.83	242.15	39.038		
10,350.00	7,726.09	7,744.09	7,744.09	133.37	134.19	79.66	-7,179.67	2,061.70	9,410.26	9,167.88	242.38	38.824		
10,400.00	7,729.50	7,747.50	7,747.50	133.26	134.25	85.70	-7,179.67	2,061.70	9,365.91	9,123.37	242.54	38.616		
10,427.79	7,730.00	7,748.00	7,748.00	133.18	134.26	90.00	-7,179.67	2,061.70	9,340.66	9,098.07	242.60	38.503		
10,500.00	7,730.00	7,748.00	7,748.00	132.98	134.26	90.00	-7,179.67	2,061.70	9,274.64	9,031.94	242.70	38.214		
10,600.00	7,730.00	7,748.00	7,748.00	132.72	134.26	90.00	-7,179.67	2,061.70	9,183.36	8,940.50	242.86	37.814		
10,700.00	7,730.00	7,748.00	7,748.00	132.47	134.26	90.00	-7,179.67	2,061.70	9,092.26	8,849.25	243.01	37.415		
10,800.00	7,730.00	7,748.00	7,748.00	132.22	134.26	90.00	-7,179.67	2,061.70	9,001.36	8,758.18	243.18	37.016		
10,900.00	7,730.00	7,748.00	7,748.00	131.99	134.26	90.00	-7,179.67	2,061.70	8,910.64	8,667.30	243.34	36.618		
11,000.00	7,730.00	7,748.00	7,748.00	131.77	134.26	90.00	-7,179.67	2,061.70	8,820.13	8,576.62	243.51	36.220		
11,100.00	7,730.00	7,748.00	7,748.00	131.56	134.26	90.00	-7,179.67	2,061.70	8,729.82	8,486.14	243.69	35.824		
11,200.00	7,730.00	7,748.00	7,748.00	131.36	134.26	90.00	-7,179.67	2,061.70	8,639.73	8,395.86	243.87	35.428		
11,300.00	7,730.00	7,748.00	7,748.00	131.17	134.26	90.00	-7,179.67	2,061.70	8,549.86	8,305.81	244.06	35.032		
11,400.00	7,730.00	7,748.00	7,748.00	130.99	134.26	90.00	-7,179.67	2,061.70	8,460.22	8,215.97	244.25	34.638		
11,500.00	7,730.00	7,748.00	7,748.00	130.82	134.26	90.00	-7,179.67	2,061.70	8,370.81	8,126.36	244.44	34.244		
11,600.00	7,730.00	7,748.00	7,748.00	130.66	134.26	90.00	-7,179.67	2,061.70	8,281.64	8,036.99	244.65	33.851		
11,700.00	7,730.00	7,748.00	7,748.00	130.51	134.26	90.00	-7,179.67	2,061.70	8,192.72	7,947.86	244.86	33.459		
11,800.00	7,730.00	7,748.00	7,748.00	130.37	134.26	90.00	-7,179.67	2,061.70	8,104.06	7,858.99	245.07	33.068		
11,900.00	7,730.00	7,748.00	7,748.00	130.24	134.26	90.00	-7,179.67	2,061.70	8,015.67	7,770.38	245.29	32.678		
12,000.00	7,730.00	7,748.00	7,748.00	130.13	134.26	90.00	-7,179.67	2,061.70	7,927.55	7,682.03	245.52	32.289		
12,100.00	7,730.00	7,748.00	7,748.00	130.02	134.26	90.00	-7,179.67	2,061.70	7,839.72	7,593.97	245.76	31.900		
12,200.00	7,730.00	7,748.00	7,748.00	129.93	134.26	90.00	-7,179.67	2,061.70	7,752.19	7,506.19	246.00	31.513		
12,300.00	7,730.00	7,748.00	7,748.00	129.85	134.26	90.00	-7,179.67	2,061.70	7,664.96	7,418.71	246.25	31.127		
12,400.00	7,730.00	7,748.00	7,748.00	129.77	134.26	90.00	-7,179.67	2,061.70	7,578.04	7,331.54	246.50	30.742		
12,500.00	7,730.00	7,748.00	7,748.00	129.71	134.26	90.00	-7,179.67	2,061.70	7,491.45	7,244.69	246.76	30.359		
12,600.00	7,730.00	7,748.00	7,748.00	129.66	134.26	90.00	-7,179.67	2,061.70	7,405.20	7,158.16	247.04	29.976		
12,700.00	7,730.00	7,748.00	7,748.00	129.63	134.26	90.00	-7,179.67	2,061.70	7,319.30	7,071.98	247.31	29.595		
12,800.00	7,730.00	7,748.00	7,748.00	129.60	134.26	90.00	-7,179.67	2,061.70	7,233.76	6,986.16	247.60	29.215		
12,900.00	7,730.00	7,748.00	7,748.00	129.59	134.26	90.00	-7,179.67	2,061.70	7,148.59	6,900.70	247.90	28.837		
13,000.00	7,730.00	7,748.00	7,748.00	129.59	134.26	90.00	-7,179.67	2,061.70	7,063.82	6,815.62	248.20	28.460		
13,100.00	7,730.00	7,748.00	7,748.00	129.60	134.26	90.00	-7,179.67	2,061.70	6,979.45	6,730.93	248.52	28.085		
13,200.00	7,730.00	7,748.00	7,748.00	129.63	134.26	90.00	-7,179.67	2,061.70	6,895.49	6,646.65	248.84	27.711		
13,300.00	7,730.00	7,748.00	7,748.00	129.66	134.26	90.00	-7,179.67	2,061.70	6,811.97	6,562.80	249.17	27.339		
13,400.00	7,730.00	7,748.00	7,748.00	129.72	134.26	90.00	-7,179.67	2,061.70	6,728.90	6,479.39	249.51	26.968		
13,500.00	7,730.00	7,748.00	7,748.00	129.78	134.26	90.00	-7,179.67	2,061.70	6,646.30	6,396.43	249.86	26.600		
13,600.00	7,730.00	7,748.00	7,748.00	129.86	134.26	90.00	-7,179.67	2,061.70	6,564.17	6,313.95	250.22	26.233		
13,700.00	7,730.00	7,748.00	7,748.00	129.96	134.26	90.00	-7,179.67	2,061.70	6,482.56	6,231.96	250.60	25.869		
13,800.00	7,730.00	7,748.00	7,748.00	130.07	134.26	90.00	-7,179.67	2,061.70	6,401.46	6,150.48	250.98	25.506		
13,900.00	7,730.00	7,748.00	7,748.00	130.19	134.26	90.00	-7,179.67	2,061.70	6,320.90	6,069.53	251.37	25.146		
14,000.00	7,730.00	7,748.00	7,748.00	130.33	134.26	90.00	-7,179.67	2,061.70	6,240.91	5,989.13	251.78	24.787		
14,100.00	7,730.00	7,748.00	7,748.00	130.49	134.26	90.00	-7,179.67	2,061.70	6,161.50	5,909.31	252.19	24.432		
14,200.00	7,730.00	7,748.00	7,748.00	130.67	134.26	90.00	-7,179.67	2,061.70	6,082.70	5,830.08	252.62	24.078		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	7,748.00	7,748.00	130.86	134.26	90.00	-7,179.67	2,061.70	6,004.53	5,751.47	253.06	23.728		
14,400.00	7,730.00	7,748.00	7,748.00	131.07	134.26	90.00	-7,179.67	2,061.70	5,927.02	5,673.50	253.51	23.380		
14,500.00	7,730.00	7,748.00	7,748.00	131.30	134.26	90.00	-7,179.67	2,061.70	5,850.19	5,596.21	253.97	23.034		
14,600.00	7,730.00	7,748.00	7,748.00	131.55	134.26	90.00	-7,179.67	2,061.70	5,774.06	5,519.61	254.45	22.692		
14,700.00	7,730.00	7,748.00	7,748.00	131.82	134.26	90.00	-7,179.67	2,061.70	5,698.68	5,443.74	254.94	22.353		
14,800.00	7,730.00	7,748.00	7,748.00	132.11	134.26	90.00	-7,179.67	2,061.70	5,624.06	5,368.62	255.44	22.017		
14,900.00	7,730.00	7,748.00	7,748.00	132.42	134.26	90.00	-7,179.67	2,061.70	5,550.25	5,294.29	255.95	21.685		
15,000.00	7,730.00	7,748.00	7,748.00	132.75	134.26	90.00	-7,179.67	2,061.70	5,477.26	5,220.78	256.48	21.356		
15,100.00	7,730.00	7,748.00	7,748.00	133.10	134.26	90.00	-7,179.67	2,061.70	5,405.14	5,148.12	257.02	21.030		
15,200.00	7,730.00	7,748.00	7,748.00	133.48	134.26	90.00	-7,179.67	2,061.70	5,333.92	5,076.35	257.57	20.709		
15,300.00	7,730.00	7,748.00	7,748.00	133.88	134.26	90.00	-7,179.67	2,061.70	5,263.63	5,005.50	258.13	20.392		
15,400.00	7,730.00	7,748.00	7,748.00	134.31	134.26	90.00	-7,179.67	2,061.70	5,194.32	4,935.62	258.70	20.078		
15,500.00	7,730.00	7,748.00	7,748.00	134.76	134.26	90.00	-7,179.67	2,061.70	5,126.02	4,866.73	259.29	19.769		
15,600.00	7,730.00	7,748.00	7,748.00	135.23	134.26	90.00	-7,179.67	2,061.70	5,058.78	4,798.89	259.89	19.465		
15,700.00	7,730.00	7,748.00	7,748.00	135.73	134.26	90.00	-7,179.67	2,061.70	4,992.63	4,732.13	260.50	19.166		
15,800.00	7,730.00	7,748.00	7,748.00	136.26	134.26	90.00	-7,179.67	2,061.70	4,927.63	4,666.51	261.12	18.871		
15,900.00	7,730.00	7,748.00	7,748.00	136.81	134.26	90.00	-7,179.67	2,061.70	4,863.81	4,602.06	261.75	18.582		
16,000.00	7,730.00	7,748.00	7,748.00	137.39	134.26	90.00	-7,179.67	2,061.70	4,801.23	4,538.84	262.39	18.298		
16,100.00	7,730.00	7,748.00	7,748.00	138.00	134.26	90.00	-7,179.67	2,061.70	4,739.93	4,476.90	263.03	18.020		
16,200.00	7,730.00	7,748.00	7,748.00	138.63	134.26	90.00	-7,179.67	2,061.70	4,679.97	4,416.28	263.69	17.748		
16,300.00	7,730.00	7,748.00	7,748.00	139.30	134.26	90.00	-7,179.67	2,061.70	4,621.39	4,357.04	264.35	17.482		
16,400.00	7,730.00	7,748.00	7,748.00	139.99	134.26	90.00	-7,179.67	2,061.70	4,564.25	4,299.23	265.01	17.223		
16,500.00	7,730.00	7,748.00	7,748.00	140.70	134.26	90.00	-7,179.67	2,061.70	4,508.60	4,242.92	265.68	16.970		
16,600.00	7,730.00	7,748.00	7,748.00	141.45	134.26	90.00	-7,179.67	2,061.70	4,454.51	4,188.15	266.36	16.724		
16,700.00	7,730.00	7,748.00	7,748.00	142.22	134.26	90.00	-7,179.67	2,061.70	4,402.02	4,134.99	267.03	16.485		
16,800.00	7,730.00	7,748.00	7,748.00	143.03	134.26	90.00	-7,179.67	2,061.70	4,351.20	4,083.50	267.70	16.254		
16,900.00	7,730.00	7,748.00	7,748.00	143.86	134.26	90.00	-7,179.67	2,061.70	4,302.10	4,033.73	268.37	16.031		
17,000.00	7,730.00	7,748.00	7,748.00	144.71	134.26	90.00	-7,179.67	2,061.70	4,254.79	3,985.76	269.03	15.815		
17,100.00	7,730.00	7,748.00	7,748.00	145.60	134.26	90.00	-7,179.67	2,061.70	4,209.32	3,939.63	269.69	15.608		
17,200.00	7,730.00	7,748.00	7,748.00	146.51	134.26	90.00	-7,179.67	2,061.70	4,165.75	3,895.42	270.33	15.410		
17,300.00	7,730.00	7,748.00	7,748.00	147.44	134.26	90.00	-7,179.67	2,061.70	4,124.15	3,853.19	270.96	15.220		
17,400.00	7,730.00	7,748.00	7,748.00	148.40	134.26	90.00	-7,179.67	2,061.70	4,084.58	3,813.00	271.58	15.040		
17,500.00	7,730.00	7,748.00	7,748.00	149.39	134.26	90.00	-7,179.67	2,061.70	4,047.09	3,774.91	272.18	14.869		
17,600.00	7,730.00	7,748.00	7,748.00	150.40	134.26	90.00	-7,179.67	2,061.70	4,011.74	3,738.98	272.76	14.708		
17,700.00	7,730.00	7,748.00	7,748.00	151.44	134.26	90.00	-7,179.67	2,061.70	3,978.59	3,705.28	273.31	14.557		
17,800.00	7,730.00	7,748.00	7,748.00	152.50	134.26	90.00	-7,179.67	2,061.70	3,947.70	3,673.86	273.84	14.416		
17,900.00	7,730.00	7,748.00	7,748.00	153.58	134.26	90.00	-7,179.67	2,061.70	3,919.12	3,644.78	274.34	14.286		
18,000.00	7,730.00	7,748.00	7,748.00	154.68	134.26	90.00	-7,179.67	2,061.70	3,892.90	3,618.09	274.81	14.166		
18,100.00	7,730.00	7,748.00	7,748.00	155.80	134.26	90.00	-7,179.67	2,061.70	3,869.08	3,593.84	275.24	14.057		
18,200.00	7,730.00	7,748.00	7,748.00	156.95	134.26	90.00	-7,179.67	2,061.70	3,847.72	3,572.08	275.64	13.959		
18,300.00	7,730.00	7,748.00	7,748.00	158.11	134.26	90.00	-7,179.67	2,061.70	3,828.85	3,552.86	275.99	13.873		
18,400.00	7,730.00	7,748.00	7,748.00	159.30	134.26	90.00	-7,179.67	2,061.70	3,812.51	3,536.21	276.30	13.798		
18,500.00	7,730.00	7,748.00	7,748.00	160.50	134.26	90.00	-7,179.67	2,061.70	3,798.73	3,522.16	276.57	13.735		
18,600.00	7,730.00	7,748.00	7,748.00	161.72	134.26	90.00	-7,179.67	2,061.70	3,787.54	3,510.75	276.79	13.684		
18,700.00	7,730.00	7,748.00	7,748.00	162.96	134.26	90.00	-7,179.67	2,061.70	3,778.97	3,502.01	276.96	13.644		
18,800.00	7,730.00	7,748.00	7,748.00	164.21	134.26	90.00	-7,179.67	2,061.70	3,773.03	3,495.94	277.09	13.617		
18,900.00	7,730.00	7,748.00	7,748.00	165.48	134.26	90.00	-7,179.67	2,061.70	3,769.74	3,492.57	277.17	13.601		
18,974.29	7,730.00	7,748.00	7,748.00	166.43	134.26	90.00	-7,179.67	2,061.70	3,769.01	3,491.82	277.19	13.597 CC, ES, SF		
19,000.00	7,730.00	7,748.00	7,748.00	166.76	134.26	90.00	-7,179.67	2,061.70	3,769.09	3,491.90	277.19	13.597		
19,100.00	7,730.00	7,748.00	7,748.00	168.06	134.26	90.00	-7,179.67	2,061.70	3,771.10	3,493.94	277.17	13.606		
19,200.00	7,730.00	7,748.00	7,748.00	169.38	134.26	90.00	-7,179.67	2,061.70	3,775.76	3,498.67	277.09	13.626		
19,300.00	7,730.00	7,748.00	7,748.00	170.70	134.26	90.00	-7,179.67	2,061.70	3,783.05	3,506.09	276.97	13.659		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,748.00	7,748.00	172.04	134.26	90.00	-7,179.67	2,061.70	3,792.97	3,516.18	276.80	13.703	
19,500.00	7,730.00	7,748.00	7,748.00	173.40	134.26	90.00	-7,179.67	2,061.70	3,805.49	3,528.91	276.58	13.759	
19,600.00	7,730.00	7,748.00	7,748.00	174.76	134.26	90.00	-7,179.67	2,061.70	3,820.59	3,544.28	276.31	13.827	
19,700.00	7,730.00	7,748.00	7,748.00	176.14	134.26	90.00	-7,179.67	2,061.70	3,838.24	3,562.23	276.01	13.906	
19,800.00	7,730.00	7,748.00	7,748.00	177.52	134.26	90.00	-7,179.67	2,061.70	3,858.39	3,582.73	275.66	13.997	
19,900.00	7,730.00	7,748.00	7,748.00	178.92	134.26	90.00	-7,179.67	2,061.70	3,881.02	3,605.75	275.27	14.099	
20,000.00	7,730.00	7,748.00	7,748.00	180.33	134.26	90.00	-7,179.67	2,061.70	3,906.08	3,631.23	274.85	14.212	
20,100.00	7,730.00	7,748.00	7,748.00	181.75	134.26	90.00	-7,179.67	2,061.70	3,933.53	3,659.13	274.39	14.335	
20,184.95	7,730.00	7,748.00	7,748.00	182.96	134.26	90.00	-7,179.67	2,061.70	3,958.68	3,684.69	273.98	14.449	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	140.61	-6,862.91	5,634.37	8,879.56					
100.00	100.00	69.00	69.00	0.13	0.54	140.61	-6,862.91	5,634.37	8,879.51	8,878.83	0.68	N/A		
200.00	199.98	168.98	168.98	0.49	1.99	70.18	-6,862.91	5,634.37	8,878.92	8,876.44	2.48	3,580.997		
300.00	299.84	268.84	268.84	0.86	3.73	70.25	-6,862.91	5,634.37	8,877.14	8,872.56	4.58	1,936.188		
400.00	399.45	368.45	368.45	1.23	5.47	70.36	-6,862.91	5,634.37	8,874.20	8,867.50	6.70	1,324.754		
500.00	498.70	467.70	467.70	1.63	7.20	70.51	-6,862.91	5,634.37	8,870.09	8,861.26	8.82	1,005.230		
600.00	597.47	566.47	566.47	2.05	8.93	70.70	-6,862.91	5,634.37	8,864.83	8,853.87	10.96	808.547		
700.00	695.62	664.62	664.62	2.51	10.64	70.94	-6,862.91	5,634.37	8,858.46	8,845.34	13.12	675.081		
800.00	793.06	762.06	762.06	3.00	12.34	71.21	-6,862.91	5,634.37	8,850.99	8,835.69	15.30	578.435		
900.00	889.64	858.64	858.64	3.53	14.03	71.53	-6,862.91	5,634.37	8,842.46	8,824.96	17.51	505.125		
1,000.00	985.27	954.27	954.27	4.12	15.70	71.88	-6,862.91	5,634.37	8,832.91	8,813.17	19.74	447.547		
1,100.00	1,079.82	1,048.82	1,048.82	4.75	17.35	72.28	-6,862.91	5,634.37	8,822.37	8,800.38	22.00	401.084		
1,200.00	1,173.17	1,142.17	1,142.17	5.44	18.97	72.71	-6,862.91	5,634.37	8,810.90	8,786.61	24.29	362.771		
1,300.00	1,265.21	1,234.21	1,234.21	6.18	20.58	73.17	-6,862.91	5,634.37	8,798.54	8,771.93	26.61	330.620		
1,400.00	1,355.84	1,324.84	1,324.84	6.99	22.16	73.67	-6,862.91	5,634.37	8,785.35	8,756.37	28.97	303.243		
1,500.00	1,444.94	1,413.94	1,413.94	7.87	23.72	74.19	-6,862.91	5,634.37	8,771.38	8,740.01	31.37	279.644		
1,600.00	1,532.39	1,501.39	1,501.39	8.80	25.24	74.75	-6,862.91	5,634.37	8,756.70	8,722.90	33.80	259.090		
1,700.00	1,618.11	1,587.11	1,587.11	9.81	26.74	75.33	-6,862.91	5,634.37	8,741.37	8,705.10	36.27	241.028		
1,800.00	1,701.97	1,670.97	1,670.97	10.89	28.20	75.94	-6,862.91	5,634.37	8,725.46	8,686.69	38.77	225.034		
1,900.00	1,783.88	1,752.88	1,752.88	12.04	29.63	76.56	-6,862.91	5,634.37	8,709.04	8,667.73	41.32	210.775		
2,000.00	1,863.74	1,832.74	1,832.74	13.26	31.03	77.21	-6,862.91	5,634.37	8,692.19	8,648.29	43.90	197.991		
2,100.00	1,941.45	1,910.45	1,910.45	14.55	32.38	77.87	-6,862.91	5,634.37	8,674.98	8,628.46	46.52	186.469		
2,200.00	2,016.92	1,985.92	1,985.92	15.92	33.70	78.54	-6,862.91	5,634.37	8,657.49	8,608.31	49.18	176.039		
2,292.11	2,084.36	2,053.36	2,053.36	17.25	34.88	79.17	-6,862.91	5,634.37	8,641.20	8,589.55	51.66	167.277		
2,300.00	2,090.06	2,059.06	2,059.06	17.36	34.98	79.20	-6,862.91	5,634.37	8,639.81	8,587.93	51.87	166.561		
2,400.00	2,162.18	2,131.18	2,131.18	18.84	36.24	79.53	-6,862.91	5,634.37	8,622.35	8,567.76	54.59	157.951		
2,500.00	2,234.31	2,203.31	2,203.31	20.33	37.50	79.86	-6,862.91	5,634.37	8,605.42	8,548.10	57.32	150.125		
2,600.00	2,306.43	2,275.43	2,275.43	21.83	38.75	80.19	-6,862.91	5,634.37	8,589.01	8,528.95	60.07	142.990		
2,700.00	2,378.56	2,347.56	2,347.56	23.33	40.01	80.53	-6,862.91	5,634.37	8,573.13	8,510.31	62.82	136.462		
2,800.00	2,450.68	2,419.68	2,419.68	24.84	41.27	80.86	-6,862.91	5,634.37	8,557.79	8,492.20	65.59	130.472		
2,900.00	2,522.81	2,508.19	2,491.81	26.36	42.82	81.19	-6,862.91	5,634.37	8,542.97	8,474.32	68.65	124.439		
3,000.00	2,594.93	2,563.93	2,563.93	27.88	43.79	81.53	-6,862.91	5,634.37	8,528.70	8,457.55	71.15	119.872		
3,100.00	2,667.06	2,636.06	2,636.06	29.40	45.05	81.87	-6,862.91	5,634.37	8,514.96	8,441.02	73.94	115.164		
3,200.00	2,739.18	2,708.18	2,708.18	30.92	46.31	82.20	-6,862.91	5,634.37	8,501.77	8,425.03	76.73	110.797		
3,300.00	2,811.31	2,780.31	2,780.31	32.45	47.57	82.54	-6,862.91	5,634.37	8,489.12	8,409.58	79.53	106.736		
3,400.00	2,883.43	2,852.43	2,852.43	33.98	48.82	82.88	-6,862.91	5,634.37	8,477.01	8,394.68	82.34	102.953		
3,500.00	2,955.56	2,924.56	2,924.56	35.51	50.08	83.21	-6,862.91	5,634.37	8,465.46	8,380.31	85.15	99.421		
3,600.00	3,027.68	3,003.32	2,996.68	37.04	51.46	83.55	-6,862.91	5,634.37	8,454.46	8,366.38	88.08	95.990		
3,700.00	3,099.81	3,068.81	3,068.81	38.57	52.60	83.89	-6,862.91	5,634.37	8,444.01	8,353.24	90.78	93.020		
3,800.00	3,171.93	3,140.93	3,140.93	40.11	53.86	84.23	-6,862.91	5,634.37	8,434.12	8,340.53	93.59	90.113		
3,900.00	3,244.06	3,213.06	3,213.06	41.64	55.12	84.57	-6,862.91	5,634.37	8,424.79	8,328.37	96.42	87.380		
4,000.00	3,316.18	3,285.18	3,285.18	43.18	56.38	84.91	-6,862.91	5,634.37	8,416.01	8,316.77	99.24	84.806		
4,100.00	3,388.31	3,357.31	3,357.31	44.71	57.64	85.25	-6,862.91	5,634.37	8,407.80	8,305.74	102.06	82.379		
4,200.00	3,460.43	3,429.43	3,429.43	46.25	58.89	85.59	-6,862.91	5,634.37	8,400.15	8,295.26	104.89	80.087		
4,300.00	3,532.56	3,501.56	3,501.56	47.79	60.15	85.93	-6,862.91	5,634.37	8,393.07	8,285.35	107.71	77.920		
4,400.00	3,604.68	3,573.68	3,573.68	49.33	61.41	86.27	-6,862.91	5,634.37	8,386.55	8,276.01	110.54	75.869		
4,500.00	3,676.81	3,645.81	3,645.81	50.87	62.67	86.61	-6,862.91	5,634.37	8,380.60	8,267.23	113.37	73.925		
4,600.00	3,748.93	3,717.93	3,717.93	52.41	63.93	86.95	-6,862.91	5,634.37	8,375.22	8,259.02	116.19	72.081		
4,700.00	3,821.06	3,809.94	3,790.06	53.95	65.54	87.30	-6,862.91	5,634.37	8,370.40	8,251.04	119.36	70.125		
4,800.00	3,893.18	3,862.18	3,862.18	55.49	66.45	87.64	-6,862.91	5,634.37	8,366.16	8,244.32	121.84	68.665		
4,900.00	3,965.31	3,934.31	3,934.31	57.03	67.71	87.98	-6,862.91	5,634.37	8,362.49	8,237.83	124.66	67.081		
5,000.00	4,037.43	4,006.43	4,006.43	58.58	68.97	88.32	-6,862.91	5,634.37	8,359.39	8,231.91	127.48	65.572		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-INC-ONLY													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,078.56	4,078.56	60.12	70.22	88.66	-6,862.91	5,634.37	8,356.87	8,226.57	130.30	64.134		
5,200.00	4,181.68	4,150.68	4,150.68	61.66	71.48	89.01	-6,862.91	5,634.37	8,354.92	8,221.80	133.12	62.763		
5,300.00	4,253.81	4,222.81	4,222.81	63.20	72.74	89.35	-6,862.91	5,634.37	8,353.54	8,217.61	135.93	61.454		
5,400.00	4,325.93	4,305.07	4,294.93	64.75	74.18	89.69	-6,862.91	5,634.37	8,352.74	8,213.82	138.92	60.126		
5,489.81	4,390.70	4,359.70	4,359.70	66.13	75.13	90.00	-6,862.91	5,634.37	8,352.51	8,211.24	141.26	59.127		
5,500.00	4,398.06	4,367.06	4,367.06	66.29	75.26	90.03	-6,862.91	5,634.37	8,352.51	8,210.96	141.55	59.007		
5,600.00	4,470.18	4,439.18	4,439.18	67.84	76.52	90.38	-6,862.91	5,634.37	8,352.85	8,208.50	144.35	57.864		
5,700.00	4,542.31	4,511.31	4,511.31	69.38	77.78	90.72	-6,862.91	5,634.37	8,353.77	8,206.62	147.15	56.769		
5,800.00	4,614.43	4,583.43	4,583.43	70.92	79.04	91.06	-6,862.91	5,634.37	8,355.27	8,205.32	149.95	55.721		
5,900.00	4,686.56	4,655.56	4,655.56	72.47	80.29	91.41	-6,862.91	5,634.37	8,357.34	8,204.60	152.74	54.717		
6,000.00	4,758.68	4,727.68	4,727.68	74.01	81.55	91.75	-6,862.91	5,634.37	8,359.98	8,204.45	155.52	53.754		
6,100.00	4,830.81	4,800.19	4,799.81	75.56	82.82	92.09	-6,862.91	5,634.37	8,363.19	8,204.88	158.31	52.828		
6,200.00	4,902.93	4,871.93	4,871.93	77.10	84.07	92.43	-6,862.91	5,634.37	8,366.98	8,205.90	161.08	51.943		
6,300.00	4,975.06	4,944.06	4,944.06	78.65	85.33	92.77	-6,862.91	5,634.37	8,371.34	8,207.49	163.85	51.092		
6,400.00	5,047.18	5,016.18	5,016.18	80.19	86.59	93.12	-6,862.91	5,634.37	8,376.27	8,209.66	166.61	50.274		
6,500.00	5,119.31	5,042.00	5,042.00	81.74	87.04	93.24	-6,862.91	5,634.37	8,381.89	8,213.34	168.55	49.729		
6,600.00	5,191.43	5,042.00	5,042.00	83.28	87.04	93.24	-6,862.91	5,634.37	8,388.67	8,218.65	170.02	49.339		
6,700.00	5,263.56	5,042.00	5,042.00	84.83	87.04	93.24	-6,862.91	5,634.37	8,396.63	8,225.16	171.47	48.969		
6,800.00	5,335.68	5,042.00	5,042.00	86.37	87.04	93.24	-6,862.91	5,634.37	8,405.77	8,232.87	172.90	48.617		
6,900.00	5,407.81	5,042.00	5,042.00	87.92	87.04	93.24	-6,862.91	5,634.37	8,416.09	8,241.79	174.31	48.284		
7,000.00	5,479.93	5,042.00	5,042.00	89.47	87.04	93.24	-6,862.91	5,634.37	8,427.59	8,251.90	175.69	47.968		
7,100.00	5,552.06	5,042.00	5,042.00	91.01	87.04	93.24	-6,862.91	5,634.37	8,440.25	8,263.20	177.05	47.670		
7,200.00	5,624.18	5,042.00	5,042.00	92.56	87.04	93.24	-6,862.91	5,634.37	8,454.08	8,275.68	178.40	47.390		
7,300.00	5,696.31	5,042.00	5,042.00	94.10	87.04	93.24	-6,862.91	5,634.37	8,469.07	8,289.35	179.71	47.125		
7,400.00	5,768.43	5,042.00	5,042.00	95.65	87.04	93.24	-6,862.91	5,634.37	8,485.20	8,304.19	181.01	46.877		
7,500.00	5,840.56	5,042.00	5,042.00	97.20	87.04	93.24	-6,862.91	5,634.37	8,502.49	8,320.21	182.28	46.645		
7,600.00	5,912.68	5,042.00	5,042.00	98.74	87.04	93.24	-6,862.91	5,634.37	8,520.91	8,337.38	183.53	46.428		
7,700.00	5,984.81	5,042.00	5,042.00	100.29	87.04	93.24	-6,862.91	5,634.37	8,540.46	8,355.71	184.75	46.226		
7,800.00	6,056.93	5,042.00	5,042.00	101.84	87.04	93.24	-6,862.91	5,634.37	8,561.14	8,375.19	185.96	46.039		
7,900.00	6,129.06	5,042.00	5,042.00	103.38	87.04	93.24	-6,862.91	5,634.37	8,582.93	8,395.80	187.13	45.865		
8,000.00	6,201.18	5,042.00	5,042.00	104.93	87.04	93.24	-6,862.91	5,634.37	8,605.83	8,417.55	188.29	45.706		
8,100.00	6,273.31	5,042.00	5,042.00	106.48	87.04	93.24	-6,862.91	5,634.37	8,629.83	8,440.42	189.41	45.561		
8,200.00	6,345.43	5,042.00	5,042.00	108.02	87.04	93.24	-6,862.91	5,634.37	8,654.92	8,464.40	190.52	45.428		
8,300.00	6,417.56	5,042.00	5,042.00	109.57	87.04	93.24	-6,862.91	5,634.37	8,681.09	8,489.49	191.60	45.309		
8,400.00	6,489.68	5,042.00	5,042.00	111.12	87.04	93.24	-6,862.91	5,634.37	8,708.32	8,515.67	192.65	45.202		
8,500.00	6,561.81	5,042.00	5,042.00	112.66	87.04	93.24	-6,862.91	5,634.37	8,736.62	8,542.93	193.69	45.107		
8,600.00	6,633.93	5,042.00	5,042.00	114.21	87.04	93.24	-6,862.91	5,634.37	8,765.96	8,571.27	194.69	45.024		
8,700.00	6,706.06	5,042.00	5,042.00	115.76	87.04	93.24	-6,862.91	5,634.37	8,796.35	8,600.67	195.68	44.953		
8,800.00	6,778.18	5,042.00	5,042.00	117.30	87.04	93.24	-6,862.91	5,634.37	8,827.76	8,631.12	196.64	44.894		
8,900.00	6,850.31	5,042.00	5,042.00	118.85	87.04	93.24	-6,862.91	5,634.37	8,860.19	8,662.62	197.57	44.845		
9,000.00	6,922.43	5,042.00	5,042.00	120.40	87.04	93.24	-6,862.91	5,634.37	8,893.62	8,695.14	198.49	44.807		
9,100.00	6,994.56	5,042.00	5,042.00	121.95	87.04	93.24	-6,862.91	5,634.37	8,928.06	8,728.68	199.37	44.780		
9,200.00	7,066.68	5,042.00	5,042.00	123.49	87.04	93.24	-6,862.91	5,634.37	8,963.47	8,763.23	200.24	44.764		
9,300.00	7,138.81	5,042.00	5,042.00	125.04	87.04	93.24	-6,862.91	5,634.37	8,999.86	8,798.77	201.08	44.757		
9,392.50	7,205.52	5,042.00	5,042.00	126.47	87.04	93.24	-6,862.91	5,634.37	9,034.37	8,832.52	201.84	44.759		
9,400.00	7,210.94	5,042.00	5,042.00	126.59	87.04	92.54	-6,862.91	5,634.37	9,037.16	8,835.25	201.90	44.760		
9,450.00	7,247.42	5,042.00	5,042.00	127.35	87.04	87.64	-6,862.91	5,634.37	9,053.58	8,851.27	202.31	44.751		
9,500.00	7,284.35	5,042.00	5,042.00	128.10	87.04	82.43	-6,862.91	5,634.37	9,066.16	8,863.45	202.71	44.725		
9,550.00	7,321.43	5,042.00	5,042.00	128.83	87.04	77.07	-6,862.91	5,634.37	9,074.82	8,871.72	203.10	44.681		
9,600.00	7,358.38	5,042.00	5,042.00	129.52	87.04	71.69	-6,862.91	5,634.37	9,079.49	8,876.02	203.48	44.621		
9,650.00	7,394.93	5,042.00	5,042.00	130.16	87.04	66.44	-6,862.91	5,634.37	9,080.16	8,876.33	203.83	44.547		
9,700.00	7,430.79	5,042.00	5,042.00	130.76	87.04	61.43	-6,862.91	5,634.37	9,076.81	8,872.66	204.16	44.460		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,042.00	5,042.00	131.30	87.04	56.72	-6,862.91	5,634.37	9,069.47	8,865.02	204.45	44.361		
9,800.00	7,499.38	5,042.00	5,042.00	131.78	87.04	52.37	-6,862.91	5,634.37	9,058.19	8,853.48	204.71	44.250		
9,850.00	7,531.58	5,042.00	5,042.00	132.21	87.04	48.37	-6,862.91	5,634.37	9,043.03	8,838.11	204.92	44.129		
9,900.00	7,562.06	5,042.00	5,042.00	132.57	87.04	44.72	-6,862.91	5,634.37	9,024.09	8,818.99	205.10	43.998		
9,950.00	7,590.58	5,042.00	5,042.00	132.87	87.04	41.36	-6,862.91	5,634.37	9,001.50	8,796.26	205.24	43.859		
10,000.00	7,616.93	5,042.00	5,042.00	133.11	87.04	38.26	-6,862.91	5,634.37	8,975.39	8,770.05	205.33	43.711		
10,050.00	7,640.90	5,042.00	5,042.00	133.29	87.04	35.35	-6,862.91	5,634.37	8,945.94	8,740.54	205.39	43.555		
10,100.00	7,662.32	5,042.00	5,042.00	133.42	87.04	32.54	-6,862.91	5,634.37	8,913.33	8,707.92	205.42	43.392		
10,150.00	7,681.01	5,042.00	5,042.00	133.50	87.04	29.76	-6,862.91	5,634.37	8,877.80	8,672.39	205.41	43.221		
10,200.00	7,696.85	5,042.00	5,042.00	133.52	87.04	26.87	-6,862.91	5,634.37	8,839.56	8,634.19	205.37	43.043		
10,250.00	7,709.70	5,042.00	5,042.00	133.51	87.04	23.70	-6,862.91	5,634.37	8,798.87	8,593.57	205.30	42.858		
10,300.00	7,719.47	5,042.00	5,042.00	133.46	87.04	19.99	-6,862.91	5,634.37	8,756.03	8,550.81	205.22	42.666		
10,350.00	7,726.09	5,042.00	5,042.00	133.37	87.04	15.32	-6,862.91	5,634.37	8,711.32	8,506.19	205.12	42.468		
10,400.00	7,729.50	5,042.00	5,042.00	133.26	87.04	8.96	-6,862.91	5,634.37	8,665.05	8,460.03	205.02	42.265		
10,427.79	7,730.00	5,042.00	5,042.00	133.18	87.04	4.25	-6,862.91	5,634.37	8,638.78	8,433.82	204.96	42.149		
10,500.00	7,730.00	5,042.00	5,042.00	132.98	87.04	4.25	-6,862.91	5,634.37	8,570.12	8,365.33	204.80	41.847		
10,600.00	7,730.00	5,042.00	5,042.00	132.72	87.04	4.25	-6,862.91	5,634.37	8,475.14	8,270.57	204.57	41.430		
10,700.00	7,730.00	5,042.00	5,042.00	132.47	87.04	4.25	-6,862.91	5,634.37	8,380.26	8,175.94	204.33	41.014		
10,800.00	7,730.00	5,042.00	5,042.00	132.22	87.04	4.25	-6,862.91	5,634.37	8,285.51	8,081.43	204.09	40.598		
10,900.00	7,730.00	5,042.00	5,042.00	131.99	87.04	4.25	-6,862.91	5,634.37	8,190.89	7,987.05	203.84	40.184		
11,000.00	7,730.00	5,042.00	5,042.00	131.77	87.04	4.25	-6,862.91	5,634.37	8,096.39	7,892.81	203.58	39.770		
11,100.00	7,730.00	5,042.00	5,042.00	131.56	87.04	4.25	-6,862.91	5,634.37	8,002.03	7,798.72	203.31	39.358		
11,200.00	7,730.00	5,042.00	5,042.00	131.36	87.04	4.25	-6,862.91	5,634.37	7,907.81	7,704.77	203.04	38.947		
11,300.00	7,730.00	5,042.00	5,042.00	131.17	87.04	4.25	-6,862.91	5,634.37	7,813.72	7,610.97	202.76	38.537		
11,400.00	7,730.00	5,042.00	5,042.00	130.99	87.04	4.25	-6,862.91	5,634.37	7,719.79	7,517.33	202.47	38.129		
11,500.00	7,730.00	5,042.00	5,042.00	130.82	87.04	4.25	-6,862.91	5,634.37	7,626.02	7,423.85	202.17	37.721		
11,600.00	7,730.00	5,042.00	5,042.00	130.66	87.04	4.25	-6,862.91	5,634.37	7,532.40	7,330.54	201.86	37.315		
11,700.00	7,730.00	5,042.00	5,042.00	130.51	87.04	4.25	-6,862.91	5,634.37	7,438.95	7,237.41	201.54	36.910		
11,800.00	7,730.00	5,042.00	5,042.00	130.37	87.04	4.25	-6,862.91	5,634.37	7,345.67	7,144.46	201.21	36.507		
11,900.00	7,730.00	5,042.00	5,042.00	130.24	87.04	4.25	-6,862.91	5,634.37	7,252.57	7,051.70	200.87	36.105		
12,000.00	7,730.00	5,042.00	5,042.00	130.13	87.04	4.25	-6,862.91	5,634.37	7,159.65	6,959.13	200.52	35.705		
12,100.00	7,730.00	5,042.00	5,042.00	130.02	87.04	4.25	-6,862.91	5,634.37	7,066.93	6,866.78	200.16	35.307		
12,200.00	7,730.00	5,042.00	5,042.00	129.93	87.04	4.25	-6,862.91	5,634.37	6,974.42	6,774.63	199.78	34.910		
12,300.00	7,730.00	5,042.00	5,042.00	129.85	87.04	4.25	-6,862.91	5,634.37	6,882.11	6,682.71	199.39	34.515		
12,400.00	7,730.00	5,042.00	5,042.00	129.77	87.04	4.25	-6,862.91	5,634.37	6,790.01	6,591.02	198.99	34.122		
12,500.00	7,730.00	5,042.00	5,042.00	129.71	87.04	4.25	-6,862.91	5,634.37	6,698.15	6,499.57	198.58	33.731		
12,600.00	7,730.00	5,042.00	5,042.00	129.66	87.04	4.25	-6,862.91	5,634.37	6,606.52	6,408.38	198.15	33.342		
12,700.00	7,730.00	5,042.00	5,042.00	129.63	87.04	4.25	-6,862.91	5,634.37	6,515.14	6,317.44	197.70	32.955		
12,800.00	7,730.00	5,042.00	5,042.00	129.60	87.04	4.25	-6,862.91	5,634.37	6,424.01	6,226.78	197.24	32.570		
12,900.00	7,730.00	5,042.00	5,042.00	129.59	87.04	4.25	-6,862.91	5,634.37	6,333.15	6,136.40	196.76	32.188		
13,000.00	7,730.00	5,042.00	5,042.00	129.59	87.04	4.25	-6,862.91	5,634.37	6,242.58	6,046.32	196.26	31.808		
13,100.00	7,730.00	5,042.00	5,042.00	129.60	87.04	4.25	-6,862.91	5,634.37	6,152.29	5,956.55	195.74	31.431		
13,200.00	7,730.00	5,042.00	5,042.00	129.63	87.04	4.25	-6,862.91	5,634.37	6,062.31	5,867.10	195.21	31.056		
13,300.00	7,730.00	5,042.00	5,042.00	129.66	87.04	4.25	-6,862.91	5,634.37	5,972.64	5,778.00	194.65	30.684		
13,400.00	7,730.00	5,042.00	5,042.00	129.72	87.04	4.25	-6,862.91	5,634.37	5,883.31	5,689.25	194.07	30.316		
13,500.00	7,730.00	5,042.00	5,042.00	129.78	87.04	4.25	-6,862.91	5,634.37	5,794.33	5,600.87	193.47	29.950		
13,600.00	7,730.00	5,042.00	5,042.00	129.86	87.04	4.25	-6,862.91	5,634.37	5,705.72	5,512.88	192.84	29.588		
13,700.00	7,730.00	5,042.00	5,042.00	129.96	87.04	4.25	-6,862.91	5,634.37	5,617.48	5,425.29	192.19	29.229		
13,800.00	7,730.00	5,042.00	5,042.00	130.07	87.04	4.25	-6,862.91	5,634.37	5,529.65	5,338.14	191.51	28.874		
13,900.00	7,730.00	5,042.00	5,042.00	130.19	87.04	4.25	-6,862.91	5,634.37	5,442.24	5,251.43	190.81	28.522		
14,000.00	7,730.00	5,042.00	5,042.00	130.33	87.04	4.25	-6,862.91	5,634.37	5,355.26	5,165.19	190.07	28.175		
14,100.00	7,730.00	5,042.00	5,042.00	130.49	87.04	4.25	-6,862.91	5,634.37	5,268.75	5,079.45	189.31	27.832		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,042.00	5,042.00	130.67	87.04	4.25	-6,862.91	5,634.37	5,182.73	4,994.22	188.51	27.493		
14,300.00	7,730.00	5,042.00	5,042.00	130.86	87.04	4.25	-6,862.91	5,634.37	5,097.21	4,909.54	187.68	27.160		
14,400.00	7,730.00	5,042.00	5,042.00	131.07	87.04	4.25	-6,862.91	5,634.37	5,012.23	4,825.43	186.81	26.831		
14,500.00	7,730.00	5,042.00	5,042.00	131.30	87.04	4.25	-6,862.91	5,634.37	4,927.82	4,741.92	185.90	26.508		
14,600.00	7,730.00	5,042.00	5,042.00	131.55	87.04	4.25	-6,862.91	5,634.37	4,844.00	4,659.04	184.96	26.190		
14,700.00	7,730.00	5,042.00	5,042.00	131.82	87.04	4.25	-6,862.91	5,634.37	4,760.80	4,576.83	183.97	25.878		
14,800.00	7,730.00	5,042.00	5,042.00	132.11	87.04	4.25	-6,862.91	5,634.37	4,678.26	4,495.32	182.94	25.573		
14,900.00	7,730.00	5,042.00	5,042.00	132.42	87.04	4.25	-6,862.91	5,634.37	4,596.42	4,414.55	181.86	25.274		
15,000.00	7,730.00	5,042.00	5,042.00	132.75	87.04	4.25	-6,862.91	5,634.37	4,515.30	4,334.56	180.74	24.982		
15,100.00	7,730.00	5,042.00	5,042.00	133.10	87.04	4.25	-6,862.91	5,634.37	4,434.96	4,255.39	179.57	24.698		
15,200.00	7,730.00	5,042.00	5,042.00	133.48	87.04	4.25	-6,862.91	5,634.37	4,355.43	4,177.09	178.34	24.422		
15,300.00	7,730.00	5,042.00	5,042.00	133.88	87.04	4.25	-6,862.91	5,634.37	4,276.76	4,099.70	177.06	24.154		
15,400.00	7,730.00	5,042.00	5,042.00	134.31	87.04	4.25	-6,862.91	5,634.37	4,199.00	4,023.28	175.72	23.896		
15,500.00	7,730.00	5,042.00	5,042.00	134.76	87.04	4.25	-6,862.91	5,634.37	4,122.20	3,947.87	174.33	23.646		
15,600.00	7,730.00	5,042.00	5,042.00	135.23	87.04	4.25	-6,862.91	5,634.37	4,046.41	3,873.54	172.87	23.408		
15,700.00	7,730.00	5,042.00	5,042.00	135.73	87.04	4.25	-6,862.91	5,634.37	3,971.69	3,800.34	171.35	23.179		
15,800.00	7,730.00	5,042.00	5,042.00	136.26	87.04	4.25	-6,862.91	5,634.37	3,898.10	3,728.35	169.76	22.963		
15,900.00	7,730.00	5,042.00	5,042.00	136.81	87.04	4.25	-6,862.91	5,634.37	3,825.72	3,657.62	168.10	22.758		
16,000.00	7,730.00	5,042.00	5,042.00	137.39	87.04	4.25	-6,862.91	5,634.37	3,754.60	3,588.22	166.38	22.567		
16,100.00	7,730.00	5,042.00	5,042.00	138.00	87.04	4.25	-6,862.91	5,634.37	3,684.83	3,520.24	164.58	22.389		
16,200.00	7,730.00	5,042.00	5,042.00	138.63	87.04	4.25	-6,862.91	5,634.37	3,616.47	3,453.75	162.72	22.225		
16,300.00	7,730.00	5,042.00	5,042.00	139.30	87.04	4.25	-6,862.91	5,634.37	3,549.62	3,388.84	160.78	22.078		
16,400.00	7,730.00	5,042.00	5,042.00	139.99	87.04	4.25	-6,862.91	5,634.37	3,484.35	3,325.58	158.77	21.946		
16,500.00	7,730.00	5,042.00	5,042.00	140.70	87.04	4.25	-6,862.91	5,634.37	3,420.76	3,264.07	156.69	21.832		
16,600.00	7,730.00	5,042.00	5,042.00	141.45	87.04	4.25	-6,862.91	5,634.37	3,358.94	3,204.41	154.53	21.736		
16,700.00	7,730.00	5,042.00	5,042.00	142.22	87.04	4.25	-6,862.91	5,634.37	3,299.00	3,146.69	152.32	21.659		
16,800.00	7,730.00	5,042.00	5,042.00	143.03	87.04	4.25	-6,862.91	5,634.37	3,241.04	3,091.00	150.03	21.602		
16,900.00	7,730.00	5,042.00	5,042.00	143.86	87.04	4.25	-6,862.91	5,634.37	3,185.16	3,037.46	147.69	21.566		
17,000.00	7,730.00	5,042.00	5,042.00	144.71	87.04	4.25	-6,862.91	5,634.37	3,131.48	2,986.17	145.30	21.551		
17,100.00	7,730.00	5,042.00	5,042.00	145.60	87.04	4.25	-6,862.91	5,634.37	3,080.10	2,937.24	142.87	21.559		
17,200.00	7,730.00	5,042.00	5,042.00	146.51	87.04	4.25	-6,862.91	5,634.37	3,031.16	2,890.76	140.40	21.590		
17,300.00	7,730.00	5,042.00	5,042.00	147.44	87.04	4.25	-6,862.91	5,634.37	2,984.77	2,846.86	137.91	21.643		
17,400.00	7,730.00	5,042.00	5,042.00	148.40	87.04	4.25	-6,862.91	5,634.37	2,941.05	2,805.64	135.41	21.719		
17,500.00	7,730.00	5,042.00	5,042.00	149.39	87.04	4.25	-6,862.91	5,634.37	2,900.12	2,767.19	132.93	21.817		
17,600.00	7,730.00	5,042.00	5,042.00	150.40	87.04	4.25	-6,862.91	5,634.37	2,862.10	2,731.62	130.47	21.936		
17,700.00	7,730.00	5,042.00	5,042.00	151.44	87.04	4.25	-6,862.91	5,634.37	2,827.10	2,699.03	128.07	22.075		
17,800.00	7,730.00	5,042.00	5,042.00	152.50	87.04	4.25	-6,862.91	5,634.37	2,795.25	2,669.50	125.75	22.229		
17,900.00	7,730.00	5,042.00	5,042.00	153.58	87.04	4.25	-6,862.91	5,634.37	2,766.64	2,643.10	123.54	22.395		
18,000.00	7,730.00	5,042.00	5,042.00	154.68	87.04	4.25	-6,862.91	5,634.37	2,741.39	2,619.91	121.49	22.565		
18,100.00	7,730.00	5,042.00	5,042.00	155.80	87.04	4.25	-6,862.91	5,634.37	2,719.59	2,599.95	119.64	22.732		
18,200.00	7,730.00	5,042.00	5,042.00	156.95	87.04	4.25	-6,862.91	5,634.37	2,701.31	2,583.25	118.05	22.882		
18,300.00	7,730.00	5,042.00	5,042.00	158.11	87.04	4.25	-6,862.91	5,634.37	2,686.63	2,569.81	116.81	22.999		
18,400.00	7,730.00	5,042.00	5,042.00	159.30	87.04	4.25	-6,862.91	5,634.37	2,675.61	2,559.59	116.02	23.062		
18,500.00	7,730.00	5,042.00	5,042.00	160.50	87.04	4.25	-6,862.91	5,634.37	2,668.29	2,552.53	115.76	23.050		
18,600.00	7,730.00	5,042.00	5,042.00	161.72	87.04	4.25	-6,862.91	5,634.37	2,664.71	2,548.57	116.14	22.944		
18,645.45	7,730.00	5,042.00	5,042.00	162.28	87.04	4.25	-6,862.91	5,634.37	2,664.32	2,547.78	116.54	22.862 CC		
18,700.00	7,730.00	5,042.00	5,042.00	162.96	87.04	4.25	-6,862.91	5,634.37	2,664.88	2,547.67	117.21	22.736 ES		
18,800.00	7,730.00	5,042.00	5,042.00	164.21	87.04	4.25	-6,862.91	5,634.37	2,668.80	2,549.85	118.96	22.435		
18,900.00	7,730.00	5,042.00	5,042.00	165.48	87.04	4.25	-6,862.91	5,634.37	2,676.46	2,555.16	121.30	22.066		
19,000.00	7,730.00	5,042.00	5,042.00	166.76	87.04	4.25	-6,862.91	5,634.37	2,687.81	2,563.70	124.11	21.656		
19,100.00	7,730.00	5,042.00	5,042.00	168.06	87.04	4.25	-6,862.91	5,634.37	2,702.82	2,575.54	127.28	21.235		
19,200.00	7,730.00	5,042.00	5,042.00	169.38	87.04	4.25	-6,862.91	5,634.37	2,721.42	2,590.72	130.70	20.822		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,042.00	5,042.00	170.70	87.04	4.25	-6,862.91	5,634.37	2,743.55	2,609.28	134.27	20.433	
19,400.00	7,730.00	5,042.00	5,042.00	172.04	87.04	4.25	-6,862.91	5,634.37	2,769.11	2,631.19	137.92	20.077	
19,500.00	7,730.00	5,042.00	5,042.00	173.40	87.04	4.25	-6,862.91	5,634.37	2,798.01	2,656.41	141.60	19.760	
19,600.00	7,730.00	5,042.00	5,042.00	174.76	87.04	4.25	-6,862.91	5,634.37	2,830.16	2,684.90	145.26	19.483	
19,700.00	7,730.00	5,042.00	5,042.00	176.14	87.04	4.25	-6,862.91	5,634.37	2,865.43	2,716.56	148.87	19.248	
19,800.00	7,730.00	5,042.00	5,042.00	177.52	87.04	4.25	-6,862.91	5,634.37	2,903.72	2,751.32	152.40	19.053	
19,900.00	7,730.00	5,042.00	5,042.00	178.92	87.04	4.25	-6,862.91	5,634.37	2,944.91	2,789.08	155.84	18.897	
20,000.00	7,730.00	5,042.00	5,042.00	180.33	87.04	4.25	-6,862.91	5,634.37	2,988.88	2,829.72	159.16	18.779	
20,100.00	7,730.00	5,042.00	5,042.00	181.75	87.04	4.25	-6,862.91	5,634.37	3,035.51	2,873.15	162.37	18.696	
20,184.95	7,730.00	5,042.00	5,042.00	182.96	87.04	4.25	-6,862.91	5,634.37	3,077.12	2,912.14	164.98	18.651 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.46	-8,181.64	5,631.87	9,932.68					
100.00	100.00	67.00	67.00	0.13	0.55	145.46	-8,181.64	5,631.87	9,932.63	9,931.95	0.68	N/A		
200.00	199.98	166.98	166.98	0.49	1.99	75.02	-8,181.64	5,631.87	9,932.18	9,929.70	2.48	4,005.895		
300.00	299.84	266.84	266.84	0.86	3.73	75.08	-8,181.64	5,631.87	9,930.83	9,926.24	4.58	2,166.049		
400.00	399.45	366.45	366.45	1.23	5.47	75.17	-8,181.64	5,631.87	9,928.58	9,921.88	6.70	1,482.033		
500.00	498.70	465.70	465.70	1.63	7.20	75.30	-8,181.64	5,631.87	9,925.45	9,916.63	8.83	1,124.564		
600.00	597.47	564.47	564.47	2.05	8.93	75.46	-8,181.64	5,631.87	9,921.46	9,910.49	10.97	904.524		
700.00	695.62	662.62	662.62	2.51	10.64	75.66	-8,181.64	5,631.87	9,916.62	9,903.49	13.13	755.215		
800.00	793.06	760.06	760.06	3.00	12.34	75.89	-8,181.64	5,631.87	9,910.95	9,895.64	15.32	647.106		
900.00	889.64	856.64	856.64	3.53	14.03	76.16	-8,181.64	5,631.87	9,904.50	9,886.97	17.53	565.114		
1,000.00	985.27	952.27	952.27	4.12	15.70	76.46	-8,181.64	5,631.87	9,897.28	9,877.51	19.77	500.729		
1,100.00	1,079.82	1,046.82	1,046.82	4.75	17.35	76.79	-8,181.64	5,631.87	9,889.34	9,867.30	22.04	448.787		
1,200.00	1,173.17	1,140.17	1,140.17	5.44	18.97	77.15	-8,181.64	5,631.87	9,880.71	9,856.37	24.34	405.972		
1,300.00	1,265.21	1,232.21	1,232.21	6.18	20.58	77.53	-8,181.64	5,631.87	9,871.45	9,844.77	26.68	370.056		
1,400.00	1,355.84	1,322.84	1,322.84	6.99	22.16	77.94	-8,181.64	5,631.87	9,861.59	9,832.54	29.05	339.487		
1,500.00	1,444.94	1,411.94	1,411.94	7.87	23.72	78.38	-8,181.64	5,631.87	9,851.19	9,819.74	31.46	313.151		
1,600.00	1,532.39	1,500.61	1,499.39	8.80	25.27	78.84	-8,181.64	5,631.87	9,840.31	9,806.38	33.93	290.044		
1,700.00	1,618.11	1,585.11	1,585.11	9.81	26.74	79.31	-8,181.64	5,631.87	9,829.00	9,792.61	36.39	270.090		
1,800.00	1,701.97	1,668.97	1,668.97	10.89	28.20	79.81	-8,181.64	5,631.87	9,817.31	9,778.40	38.92	252.272		
1,900.00	1,783.88	1,750.88	1,750.88	12.04	29.63	80.32	-8,181.64	5,631.87	9,805.32	9,763.84	41.48	236.398		
2,000.00	1,863.74	1,830.74	1,830.74	13.26	31.03	80.84	-8,181.64	5,631.87	9,793.08	9,749.00	44.08	222.175		
2,100.00	1,941.45	1,908.45	1,908.45	14.55	32.38	81.38	-8,181.64	5,631.87	9,780.66	9,733.95	46.72	209.365		
2,200.00	2,016.92	1,983.92	1,983.92	15.92	33.70	81.91	-8,181.64	5,631.87	9,768.13	9,718.75	49.39	197.777		
2,292.11	2,084.36	2,051.36	2,051.36	17.25	34.88	82.41	-8,181.64	5,631.87	9,756.55	9,704.67	51.88	188.050		
2,300.00	2,090.06	2,057.06	2,057.06	17.36	34.98	82.44	-8,181.64	5,631.87	9,755.56	9,703.46	52.10	187.256		
2,400.00	2,162.18	2,129.18	2,129.18	18.84	36.24	82.73	-8,181.64	5,631.87	9,743.26	9,688.43	54.83	177.701		
2,500.00	2,234.31	2,201.31	2,201.31	20.33	37.50	83.03	-8,181.64	5,631.87	9,731.44	9,673.86	57.57	169.023		
2,600.00	2,306.43	2,273.43	2,273.43	21.83	38.75	83.32	-8,181.64	5,631.87	9,720.09	9,659.76	60.33	161.113		
2,700.00	2,378.56	2,345.56	2,345.56	23.33	40.01	83.61	-8,181.64	5,631.87	9,709.23	9,646.13	63.10	153.880		
2,800.00	2,450.68	2,417.68	2,417.68	24.84	41.27	83.91	-8,181.64	5,631.87	9,698.85	9,632.98	65.87	147.243		
2,900.00	2,522.81	2,489.81	2,489.81	26.36	42.53	84.20	-8,181.64	5,631.87	9,688.95	9,620.31	68.65	141.137		
3,000.00	2,594.93	2,561.93	2,561.93	27.88	43.79	84.50	-8,181.64	5,631.87	9,679.54	9,608.11	71.43	135.501		
3,100.00	2,667.06	2,634.06	2,634.06	29.40	45.05	84.79	-8,181.64	5,631.87	9,670.62	9,596.39	74.23	130.287		
3,200.00	2,739.18	2,706.18	2,706.18	30.92	46.31	85.09	-8,181.64	5,631.87	9,662.19	9,585.16	77.02	125.450		
3,300.00	2,811.31	2,778.31	2,778.31	32.45	47.57	85.39	-8,181.64	5,631.87	9,654.24	9,574.42	79.82	120.953		
3,400.00	2,883.43	2,850.43	2,850.43	33.98	48.82	85.68	-8,181.64	5,631.87	9,646.78	9,564.16	82.62	116.761		
3,500.00	2,955.56	2,922.56	2,922.56	35.51	50.08	85.98	-8,181.64	5,631.87	9,639.82	9,554.40	85.42	112.847		
3,600.00	3,027.68	3,005.32	2,994.68	37.04	51.53	86.28	-8,181.64	5,631.87	9,633.35	9,544.94	88.42	108.956		
3,700.00	3,099.81	3,066.81	3,066.81	38.57	52.60	86.57	-8,181.64	5,631.87	9,627.38	9,536.34	91.04	105.752		
3,800.00	3,171.93	3,138.93	3,138.93	40.11	53.86	86.87	-8,181.64	5,631.87	9,621.90	9,528.05	93.85	102.528		
3,900.00	3,244.06	3,211.06	3,211.06	41.64	55.12	87.17	-8,181.64	5,631.87	9,616.91	9,520.25	96.66	99.496		
4,000.00	3,316.18	3,283.18	3,283.18	43.18	56.38	87.47	-8,181.64	5,631.87	9,612.42	9,512.95	99.47	96.639		
4,100.00	3,388.31	3,355.31	3,355.31	44.71	57.64	87.77	-8,181.64	5,631.87	9,608.43	9,506.15	102.28	93.944		
4,200.00	3,460.43	3,427.43	3,427.43	46.25	58.89	88.06	-8,181.64	5,631.87	9,604.94	9,499.85	105.09	91.398		
4,300.00	3,532.56	3,500.44	3,499.56	47.79	60.17	88.36	-8,181.64	5,631.87	9,601.94	9,494.03	107.92	88.977		
4,400.00	3,604.68	3,571.68	3,571.68	49.33	61.41	88.66	-8,181.64	5,631.87	9,599.45	9,488.74	110.71	86.708		
4,500.00	3,676.81	3,643.81	3,643.81	50.87	62.67	88.96	-8,181.64	5,631.87	9,597.45	9,483.93	113.52	84.545		
4,600.00	3,748.93	3,715.93	3,715.93	52.41	63.93	89.26	-8,181.64	5,631.87	9,595.95	9,479.63	116.33	82.491		
4,700.00	3,821.06	3,788.06	3,788.06	53.95	65.19	89.55	-8,181.64	5,631.87	9,594.96	9,475.82	119.13	80.540		
4,800.00	3,893.18	3,860.18	3,860.18	55.49	66.45	89.85	-8,181.64	5,631.87	9,594.46	9,472.52	121.94	78.683		
4,849.44	3,928.84	3,904.16	3,895.84	56.26	67.22	90.00	-8,181.64	5,631.87	9,594.40	9,470.93	123.47	77.707		
4,900.00	3,965.31	3,932.31	3,932.31	57.03	67.71	90.15	-8,181.64	5,631.87	9,594.46	9,469.72	124.74	76.915		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,004.43	4,004.43	58.58	68.97	90.45	-8,181.64	5,631.87	9,594.96	9,467.42	127.54	75.230		
5,100.00	4,109.56	4,076.56	4,076.56	60.12	70.22	90.75	-8,181.64	5,631.87	9,595.97	9,465.63	130.34	73.623		
5,200.00	4,181.68	4,148.68	4,148.68	61.66	71.48	91.05	-8,181.64	5,631.87	9,597.47	9,464.33	133.14	72.088		
5,300.00	4,253.81	4,220.81	4,220.81	63.20	72.74	91.34	-8,181.64	5,631.87	9,599.47	9,463.54	135.93	70.622		
5,400.00	4,325.93	4,302.07	4,292.93	64.75	74.25	91.64	-8,181.64	5,631.87	9,601.97	9,463.01	138.96	69.097		
5,500.00	4,398.06	4,365.06	4,365.06	66.29	75.26	91.94	-8,181.64	5,631.87	9,604.97	9,463.47	141.50	67.878		
5,600.00	4,470.18	4,437.18	4,437.18	67.84	76.52	92.24	-8,181.64	5,631.87	9,608.47	9,464.19	144.29	66.593		
5,700.00	4,542.31	4,509.31	4,509.31	69.38	77.78	92.54	-8,181.64	5,631.87	9,612.47	9,465.41	147.06	65.363		
5,800.00	4,614.43	4,581.43	4,581.43	70.92	79.04	92.83	-8,181.64	5,631.87	9,616.96	9,467.13	149.84	64.182		
5,900.00	4,686.56	4,653.56	4,653.56	72.47	80.29	93.13	-8,181.64	5,631.87	9,621.95	9,469.35	152.61	63.050		
6,000.00	4,758.68	4,725.68	4,725.68	74.01	81.55	93.43	-8,181.64	5,631.87	9,627.44	9,472.07	155.37	61.963		
6,100.00	4,830.81	4,802.19	4,797.81	75.56	82.89	93.73	-8,181.64	5,631.87	9,633.42	9,475.21	158.21	60.890		
6,200.00	4,902.93	4,869.93	4,869.93	77.10	84.07	94.02	-8,181.64	5,631.87	9,639.90	9,479.01	160.89	59.916		
6,300.00	4,975.06	4,942.06	4,942.06	78.65	85.33	94.32	-8,181.64	5,631.87	9,646.87	9,483.22	163.64	58.951		
6,400.00	5,047.18	5,014.18	5,014.18	80.19	86.59	94.62	-8,181.64	5,631.87	9,654.33	9,487.94	166.39	58.024		
6,500.00	5,119.31	5,020.00	5,020.00	81.74	86.69	94.64	-8,181.64	5,631.87	9,662.50	9,494.55	167.96	57.529		
6,600.00	5,191.43	5,020.00	5,020.00	83.28	86.69	94.64	-8,181.64	5,631.87	9,671.71	9,502.30	169.41	57.090		
6,700.00	5,263.56	5,020.00	5,020.00	84.83	86.69	94.64	-8,181.64	5,631.87	9,681.94	9,511.09	170.85	56.670		
6,800.00	5,335.68	5,020.00	5,020.00	86.37	86.69	94.64	-8,181.64	5,631.87	9,693.19	9,520.92	172.27	56.268		
6,900.00	5,407.81	5,020.00	5,020.00	87.92	86.69	94.64	-8,181.64	5,631.87	9,705.45	9,531.78	173.67	55.884		
7,000.00	5,479.93	5,020.00	5,020.00	89.47	86.69	94.64	-8,181.64	5,631.87	9,718.73	9,543.67	175.06	55.517		
7,100.00	5,552.06	5,020.00	5,020.00	91.01	86.69	94.64	-8,181.64	5,631.87	9,733.02	9,556.59	176.43	55.167		
7,200.00	5,624.18	5,020.00	5,020.00	92.56	86.69	94.64	-8,181.64	5,631.87	9,748.32	9,570.53	177.78	54.833		
7,300.00	5,696.31	5,020.00	5,020.00	94.10	86.69	94.64	-8,181.64	5,631.87	9,764.61	9,585.49	179.12	54.516		
7,400.00	5,768.43	5,020.00	5,020.00	95.65	86.69	94.64	-8,181.64	5,631.87	9,781.90	9,601.47	180.43	54.214		
7,500.00	5,840.56	5,020.00	5,020.00	97.20	86.69	94.64	-8,181.64	5,631.87	9,800.18	9,618.45	181.73	53.927		
7,600.00	5,912.68	5,020.00	5,020.00	98.74	86.69	94.64	-8,181.64	5,631.87	9,819.44	9,636.43	183.01	53.656		
7,700.00	5,984.81	5,020.00	5,020.00	100.29	86.69	94.64	-8,181.64	5,631.87	9,839.69	9,655.42	184.27	53.398		
7,800.00	6,056.93	5,020.00	5,020.00	101.84	86.69	94.64	-8,181.64	5,631.87	9,860.90	9,675.39	185.51	53.155		
7,900.00	6,129.06	5,020.00	5,020.00	103.38	86.69	94.64	-8,181.64	5,631.87	9,883.08	9,696.35	186.73	52.926		
8,000.00	6,201.18	5,020.00	5,020.00	104.93	86.69	94.64	-8,181.64	5,631.87	9,906.22	9,718.29	187.94	52.710		
8,100.00	6,273.31	5,020.00	5,020.00	106.48	86.69	94.64	-8,181.64	5,631.87	9,930.32	9,741.20	189.12	52.508		
8,200.00	6,345.43	5,020.00	5,020.00	108.02	86.69	94.64	-8,181.64	5,631.87	9,955.36	9,765.07	190.29	52.318		
8,300.00	6,417.56	5,020.00	5,020.00	109.57	86.69	94.64	-8,181.64	5,631.87	9,981.34	9,789.91	191.43	52.141		
10,350.00	7,726.09	5,020.00	5,020.00	133.37	86.69	16.44	-8,181.64	5,631.87	9,980.49	9,773.24	207.24	48.158		
10,400.00	7,729.50	5,020.00	5,020.00	133.26	86.69	9.52	-8,181.64	5,631.87	9,933.53	9,726.35	207.18	47.947		
10,427.79	7,730.00	5,020.00	5,020.00	133.18	86.69	4.18	-8,181.64	5,631.87	9,906.93	9,699.79	207.14	47.827		
10,500.00	7,730.00	5,020.00	5,020.00	132.98	86.69	4.18	-8,181.64	5,631.87	9,837.44	9,630.41	207.03	47.517		
10,600.00	7,730.00	5,020.00	5,020.00	132.72	86.69	4.18	-8,181.64	5,631.87	9,741.27	9,534.40	206.87	47.088		
10,700.00	7,730.00	5,020.00	5,020.00	132.47	86.69	4.18	-8,181.64	5,631.87	9,645.18	9,438.47	206.72	46.659		
10,800.00	7,730.00	5,020.00	5,020.00	132.22	86.69	4.18	-8,181.64	5,631.87	9,549.17	9,342.62	206.55	46.231		
10,900.00	7,730.00	5,020.00	5,020.00	131.99	86.69	4.18	-8,181.64	5,631.87	9,453.25	9,246.86	206.39	45.803		
11,000.00	7,730.00	5,020.00	5,020.00	131.77	86.69	4.18	-8,181.64	5,631.87	9,357.41	9,151.19	206.22	45.376		
11,100.00	7,730.00	5,020.00	5,020.00	131.56	86.69	4.18	-8,181.64	5,631.87	9,261.65	9,055.61	206.04	44.950		
11,200.00	7,730.00	5,020.00	5,020.00	131.36	86.69	4.18	-8,181.64	5,631.87	9,165.99	8,960.13	205.87	44.524		
11,300.00	7,730.00	5,020.00	5,020.00	131.17	86.69	4.18	-8,181.64	5,631.87	9,070.42	8,864.74	205.68	44.099		
11,400.00	7,730.00	5,020.00	5,020.00	130.99	86.69	4.18	-8,181.64	5,631.87	8,974.95	8,769.46	205.49	43.675		
11,500.00	7,730.00	5,020.00	5,020.00	130.82	86.69	4.18	-8,181.64	5,631.87	8,879.58	8,674.27	205.30	43.251		
11,600.00	7,730.00	5,020.00	5,020.00	130.66	86.69	4.18	-8,181.64	5,631.87	8,784.31	8,579.20	205.10	42.829		
11,700.00	7,730.00	5,020.00	5,020.00	130.51	86.69	4.18	-8,181.64	5,631.87	8,689.14	8,484.24	204.90	42.407		
11,800.00	7,730.00	5,020.00	5,020.00	130.37	86.69	4.18	-8,181.64	5,631.87	8,594.09	8,389.40	204.69	41.986		
11,900.00	7,730.00	5,020.00	5,020.00	130.24	86.69	4.18	-8,181.64	5,631.87	8,499.15	8,294.67	204.48	41.565		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,000.00	7,730.00	5,020.00	5,020.00	130.13	86.69	4.18	-8,181.64	5,631.87	8,404.33	8,200.07	204.26	41.146		
12,100.00	7,730.00	5,020.00	5,020.00	130.02	86.69	4.18	-8,181.64	5,631.87	8,309.62	8,105.59	204.03	40.727		
12,200.00	7,730.00	5,020.00	5,020.00	129.93	86.69	4.18	-8,181.64	5,631.87	8,215.05	8,011.25	203.80	40.310		
12,300.00	7,730.00	5,020.00	5,020.00	129.85	86.69	4.18	-8,181.64	5,631.87	8,120.60	7,917.04	203.56	39.893		
12,400.00	7,730.00	5,020.00	5,020.00	129.77	86.69	4.18	-8,181.64	5,631.87	8,026.29	7,822.98	203.31	39.478		
12,500.00	7,730.00	5,020.00	5,020.00	129.71	86.69	4.18	-8,181.64	5,631.87	7,932.12	7,729.06	203.06	39.063		
12,600.00	7,730.00	5,020.00	5,020.00	129.66	86.69	4.18	-8,181.64	5,631.87	7,838.09	7,635.29	202.80	38.650		
12,700.00	7,730.00	5,020.00	5,020.00	129.63	86.69	4.18	-8,181.64	5,631.87	7,744.21	7,541.69	202.53	38.238		
12,800.00	7,730.00	5,020.00	5,020.00	129.60	86.69	4.18	-8,181.64	5,631.87	7,650.49	7,448.24	202.25	37.827		
12,900.00	7,730.00	5,020.00	5,020.00	129.59	86.69	4.18	-8,181.64	5,631.87	7,556.93	7,354.96	201.96	37.417		
13,000.00	7,730.00	5,020.00	5,020.00	129.59	86.69	4.18	-8,181.64	5,631.87	7,463.53	7,261.86	201.67	37.009		
13,100.00	7,730.00	5,020.00	5,020.00	129.60	86.69	4.18	-8,181.64	5,631.87	7,370.31	7,168.95	201.37	36.602		
13,200.00	7,730.00	5,020.00	5,020.00	129.63	86.69	4.18	-8,181.64	5,631.87	7,277.27	7,076.22	201.05	36.196		
13,300.00	7,730.00	5,020.00	5,020.00	129.66	86.69	4.18	-8,181.64	5,631.87	7,184.42	6,983.69	200.73	35.792		
13,400.00	7,730.00	5,020.00	5,020.00	129.72	86.69	4.18	-8,181.64	5,631.87	7,091.76	6,891.36	200.39	35.389		
13,500.00	7,730.00	5,020.00	5,020.00	129.78	86.69	4.18	-8,181.64	5,631.87	6,999.30	6,799.25	200.05	34.988		
13,600.00	7,730.00	5,020.00	5,020.00	129.86	86.69	4.18	-8,181.64	5,631.87	6,907.05	6,707.36	199.69	34.589		
13,700.00	7,730.00	5,020.00	5,020.00	129.96	86.69	4.18	-8,181.64	5,631.87	6,815.02	6,615.70	199.32	34.191		
13,800.00	7,730.00	5,020.00	5,020.00	130.07	86.69	4.18	-8,181.64	5,631.87	6,723.22	6,524.28	198.94	33.796		
13,900.00	7,730.00	5,020.00	5,020.00	130.19	86.69	4.18	-8,181.64	5,631.87	6,631.65	6,433.11	198.54	33.402		
14,000.00	7,730.00	5,020.00	5,020.00	130.33	86.69	4.18	-8,181.64	5,631.87	6,540.33	6,342.20	198.13	33.010		
14,100.00	7,730.00	5,020.00	5,020.00	130.49	86.69	4.18	-8,181.64	5,631.87	6,449.27	6,251.57	197.71	32.620		
14,200.00	7,730.00	5,020.00	5,020.00	130.67	86.69	4.18	-8,181.64	5,631.87	6,358.48	6,161.21	197.27	32.233		
14,300.00	7,730.00	5,020.00	5,020.00	130.86	86.69	4.18	-8,181.64	5,631.87	6,267.97	6,071.16	196.81	31.847		
14,400.00	7,730.00	5,020.00	5,020.00	131.07	86.69	4.18	-8,181.64	5,631.87	6,177.75	5,981.41	196.34	31.464		
14,500.00	7,730.00	5,020.00	5,020.00	131.30	86.69	4.18	-8,181.64	5,631.87	6,087.84	5,891.99	195.85	31.084		
14,600.00	7,730.00	5,020.00	5,020.00	131.55	86.69	4.18	-8,181.64	5,631.87	5,998.25	5,802.90	195.34	30.706		
14,700.00	7,730.00	5,020.00	5,020.00	131.82	86.69	4.18	-8,181.64	5,631.87	5,908.99	5,714.17	194.82	30.331		
14,800.00	7,730.00	5,020.00	5,020.00	132.11	86.69	4.18	-8,181.64	5,631.87	5,820.08	5,625.81	194.27	29.959		
14,900.00	7,730.00	5,020.00	5,020.00	132.42	86.69	4.18	-8,181.64	5,631.87	5,731.53	5,537.83	193.70	29.590		
15,000.00	7,730.00	5,020.00	5,020.00	132.75	86.69	4.18	-8,181.64	5,631.87	5,643.37	5,450.26	193.11	29.223		
15,100.00	7,730.00	5,020.00	5,020.00	133.10	86.69	4.18	-8,181.64	5,631.87	5,555.61	5,363.11	192.50	28.861		
15,200.00	7,730.00	5,020.00	5,020.00	133.48	86.69	4.18	-8,181.64	5,631.87	5,468.27	5,276.41	191.86	28.502		
15,300.00	7,730.00	5,020.00	5,020.00	133.88	86.69	4.18	-8,181.64	5,631.87	5,381.37	5,190.17	191.19	28.146		
15,400.00	7,730.00	5,020.00	5,020.00	134.31	86.69	4.18	-8,181.64	5,631.87	5,294.93	5,104.43	190.50	27.794		
15,500.00	7,730.00	5,020.00	5,020.00	134.76	86.69	4.18	-8,181.64	5,631.87	5,208.98	5,019.19	189.78	27.447		
15,600.00	7,730.00	5,020.00	5,020.00	135.23	86.69	4.18	-8,181.64	5,631.87	5,123.53	4,934.50	189.04	27.104		
15,700.00	7,730.00	5,020.00	5,020.00	135.73	86.69	4.18	-8,181.64	5,631.87	5,038.63	4,850.37	188.26	26.765		
15,800.00	7,730.00	5,020.00	5,020.00	136.26	86.69	4.18	-8,181.64	5,631.87	4,954.28	4,766.84	187.44	26.431		
15,900.00	7,730.00	5,020.00	5,020.00	136.81	86.69	4.18	-8,181.64	5,631.87	4,870.53	4,683.94	186.60	26.102		
16,000.00	7,730.00	5,020.00	5,020.00	137.39	86.69	4.18	-8,181.64	5,631.87	4,787.41	4,601.69	185.72	25.778		
16,100.00	7,730.00	5,020.00	5,020.00	138.00	86.69	4.18	-8,181.64	5,631.87	4,704.94	4,520.14	184.80	25.460		
16,200.00	7,730.00	5,020.00	5,020.00	138.63	86.69	4.18	-8,181.64	5,631.87	4,623.16	4,439.32	183.84	25.148		
16,300.00	7,730.00	5,020.00	5,020.00	139.30	86.69	4.18	-8,181.64	5,631.87	4,542.11	4,359.27	182.84	24.842		
16,400.00	7,730.00	5,020.00	5,020.00	139.99	86.69	4.18	-8,181.64	5,631.87	4,461.83	4,280.03	181.80	24.543		
16,500.00	7,730.00	5,020.00	5,020.00	140.70	86.69	4.18	-8,181.64	5,631.87	4,382.36	4,201.65	180.71	24.251		
16,600.00	7,730.00	5,020.00	5,020.00	141.45	86.69	4.18	-8,181.64	5,631.87	4,303.75	4,124.17	179.58	23.966		
16,700.00	7,730.00	5,020.00	5,020.00	142.22	86.69	4.18	-8,181.64	5,631.87	4,226.04	4,047.64	178.40	23.689		
16,800.00	7,730.00	5,020.00	5,020.00	143.03	86.69	4.18	-8,181.64	5,631.87	4,149.29	3,972.12	177.17	23.420		
16,900.00	7,730.00	5,020.00	5,020.00	143.86	86.69	4.18	-8,181.64	5,631.87	4,073.54	3,897.65	175.89	23.160		
17,000.00	7,730.00	5,020.00	5,020.00	144.71	86.69	4.18	-8,181.64	5,631.87	3,998.86	3,824.31	174.55	22.909		
17,100.00	7,730.00	5,020.00	5,020.00	145.60	86.69	4.18	-8,181.64	5,631.87	3,925.31	3,752.15	173.16	22.669		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)					
17,200.00	7,730.00	5,020.00	5,020.00	146.51	86.69	4.18	-8,181.64	5,631.87	3,852.95	3,681.24	171.71	22.438	
17,300.00	7,730.00	5,020.00	5,020.00	147.44	86.69	4.18	-8,181.64	5,631.87	3,781.85	3,611.64	170.21	22.219	
17,400.00	7,730.00	5,020.00	5,020.00	148.40	86.69	4.18	-8,181.64	5,631.87	3,712.08	3,543.44	168.65	22.011	
17,500.00	7,730.00	5,020.00	5,020.00	149.39	86.69	4.18	-8,181.64	5,631.87	3,643.72	3,476.70	167.02	21.816	
17,600.00	7,730.00	5,020.00	5,020.00	150.40	86.69	4.18	-8,181.64	5,631.87	3,576.85	3,411.51	165.34	21.633	
17,700.00	7,730.00	5,020.00	5,020.00	151.44	86.69	4.18	-8,181.64	5,631.87	3,511.56	3,347.96	163.60	21.464	
17,800.00	7,730.00	5,020.00	5,020.00	152.50	86.69	4.18	-8,181.64	5,631.87	3,447.93	3,286.13	161.80	21.310	
17,900.00	7,730.00	5,020.00	5,020.00	153.58	86.69	4.18	-8,181.64	5,631.87	3,386.06	3,226.12	159.94	21.171	
18,000.00	7,730.00	5,020.00	5,020.00	154.68	86.69	4.18	-8,181.64	5,631.87	3,326.04	3,168.01	158.03	21.047	
18,100.00	7,730.00	5,020.00	5,020.00	155.80	86.69	4.18	-8,181.64	5,631.87	3,267.98	3,111.92	156.06	20.941	
18,200.00	7,730.00	5,020.00	5,020.00	156.95	86.69	4.18	-8,181.64	5,631.87	3,211.99	3,057.94	154.04	20.851	
18,300.00	7,730.00	5,020.00	5,020.00	158.11	86.69	4.18	-8,181.64	5,631.87	3,158.17	3,006.18	151.98	20.780	
18,400.00	7,730.00	5,020.00	5,020.00	159.30	86.69	4.18	-8,181.64	5,631.87	3,106.64	2,956.75	149.89	20.727	
18,500.00	7,730.00	5,020.00	5,020.00	160.50	86.69	4.18	-8,181.64	5,631.87	3,057.51	2,909.75	147.76	20.693	
18,600.00	7,730.00	5,020.00	5,020.00	161.72	86.69	4.18	-8,181.64	5,631.87	3,010.90	2,865.29	145.61	20.678	
18,700.00	7,730.00	5,020.00	5,020.00	162.96	86.69	4.18	-8,181.64	5,631.87	2,966.93	2,823.48	143.45	20.682	
18,800.00	7,730.00	5,020.00	5,020.00	164.21	86.69	4.18	-8,181.64	5,631.87	2,925.72	2,784.43	141.30	20.706	
18,900.00	7,730.00	5,020.00	5,020.00	165.48	86.69	4.18	-8,181.64	5,631.87	2,887.39	2,748.23	139.16	20.749	
19,000.00	7,730.00	5,020.00	5,020.00	166.76	86.69	4.18	-8,181.64	5,631.87	2,852.05	2,714.99	137.06	20.809	
19,100.00	7,730.00	5,020.00	5,020.00	168.06	86.69	4.18	-8,181.64	5,631.87	2,819.81	2,684.79	135.02	20.885	
19,200.00	7,730.00	5,020.00	5,020.00	169.38	86.69	4.18	-8,181.64	5,631.87	2,790.79	2,657.72	133.07	20.973	
19,300.00	7,730.00	5,020.00	5,020.00	170.70	86.69	4.18	-8,181.64	5,631.87	2,765.08	2,633.85	131.23	21.070	
19,400.00	7,730.00	5,020.00	5,020.00	172.04	86.69	4.18	-8,181.64	5,631.87	2,742.78	2,613.21	129.57	21.169	
19,500.00	7,730.00	5,020.00	5,020.00	173.40	86.69	4.18	-8,181.64	5,631.87	2,723.97	2,595.85	128.12	21.261	
19,600.00	7,730.00	5,020.00	5,020.00	174.76	86.69	4.18	-8,181.64	5,631.87	2,708.72	2,581.75	126.97	21.334	
19,700.00	7,730.00	5,020.00	5,020.00	176.14	86.69	4.18	-8,181.64	5,631.87	2,697.10	2,570.90	126.20	21.372	
19,800.00	7,730.00	5,020.00	5,020.00	177.52	86.69	4.18	-8,181.64	5,631.87	2,689.14	2,563.24	125.90	21.359	
19,900.00	7,730.00	5,020.00	5,020.00	178.92	86.69	4.18	-8,181.64	5,631.87	2,684.89	2,558.70	126.19	21.277	
19,964.18	7,730.00	5,020.00	5,020.00	179.83	86.69	4.18	-8,181.64	5,631.87	2,684.13	2,557.42	126.71	21.184 CC	
20,000.00	7,730.00	5,020.00	5,020.00	180.33	86.69	4.18	-8,181.64	5,631.87	2,684.37	2,557.25	127.11	21.118 ES	
20,100.00	7,730.00	5,020.00	5,020.00	181.75	86.69	4.18	-8,181.64	5,631.87	2,687.56	2,558.89	128.68	20.886	
20,184.95	7,730.00	5,020.00	5,020.00	182.96	86.69	4.18	-8,181.64	5,631.87	2,693.19	2,562.73	130.46	20.644 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.74	-5,565.17	1,728.84	5,827.60					
100.00	100.00	71.00	71.00	0.13	0.58	162.74	-5,565.17	1,728.84	5,827.52	5,826.81	0.71	8,200.295		
200.00	199.98	170.98	170.98	0.49	2.05	92.30	-5,565.17	1,728.84	5,827.59	5,825.05	2.54	2,293.872		
300.00	299.84	270.84	270.84	0.86	3.79	92.35	-5,565.17	1,728.84	5,827.81	5,823.16	4.65	1,254.315		
400.00	399.45	370.45	370.45	1.23	5.53	92.43	-5,565.17	1,728.84	5,828.17	5,821.41	6.76	861.872		
500.00	498.70	469.70	469.70	1.63	7.26	92.54	-5,565.17	1,728.84	5,828.70	5,819.81	8.89	655.507		
600.00	597.47	568.47	568.47	2.05	8.99	92.68	-5,565.17	1,728.84	5,829.43	5,818.39	11.04	528.068		
700.00	695.62	666.62	666.62	2.51	10.70	92.84	-5,565.17	1,728.84	5,830.36	5,817.15	13.21	441.436		
800.00	793.06	764.06	764.06	3.00	12.40	93.03	-5,565.17	1,728.84	5,831.54	5,816.14	15.40	378.649		
900.00	889.64	860.64	860.64	3.53	14.09	93.25	-5,565.17	1,728.84	5,833.01	5,815.39	17.62	331.013		
1,000.00	985.27	956.27	956.27	4.12	15.76	93.49	-5,565.17	1,728.84	5,834.81	5,814.93	19.87	293.612		
1,100.00	1,079.82	1,050.82	1,050.82	4.75	17.41	93.74	-5,565.17	1,728.84	5,836.98	5,814.82	22.16	263.457		
1,200.00	1,173.17	1,144.17	1,144.17	5.44	19.04	94.02	-5,565.17	1,728.84	5,839.58	5,815.11	24.47	238.624		
1,300.00	1,265.21	1,236.21	1,236.21	6.18	20.64	94.31	-5,565.17	1,728.84	5,842.66	5,815.84	26.82	217.821		
1,400.00	1,355.84	1,326.84	1,326.84	6.99	22.22	94.61	-5,565.17	1,728.84	5,846.29	5,817.08	29.21	200.145		
1,500.00	1,444.94	1,415.94	1,415.94	7.87	23.78	94.92	-5,565.17	1,728.84	5,850.52	5,818.89	31.63	184.948		
1,600.00	1,532.39	1,503.39	1,503.39	8.80	25.31	95.24	-5,565.17	1,728.84	5,855.43	5,821.33	34.09	171.752		
1,700.00	1,618.11	1,589.11	1,589.11	9.81	26.80	95.56	-5,565.17	1,728.84	5,861.07	5,824.49	36.59	160.195		
1,800.00	1,701.97	1,672.97	1,672.97	10.89	28.27	95.87	-5,565.17	1,728.84	5,867.53	5,828.41	39.12	150.001		
1,900.00	1,783.88	1,754.88	1,754.88	12.04	29.69	96.18	-5,565.17	1,728.84	5,874.87	5,833.19	41.68	140.953		
2,000.00	1,863.74	1,834.74	1,834.74	13.26	31.09	96.49	-5,565.17	1,728.84	5,883.16	5,838.88	44.27	132.879		
2,100.00	1,941.45	1,912.45	1,912.45	14.55	32.44	96.77	-5,565.17	1,728.84	5,892.47	5,845.57	46.90	125.640		
2,200.00	2,016.92	1,987.92	1,987.92	15.92	33.76	97.05	-5,565.17	1,728.84	5,902.88	5,853.33	49.55	119.125		
2,292.11	2,084.36	2,055.36	2,055.36	17.25	34.94	97.28	-5,565.17	1,728.84	5,913.50	5,861.48	52.02	113.686		
2,300.00	2,090.06	2,061.06	2,061.06	17.36	35.04	97.32	-5,565.17	1,728.84	5,914.45	5,862.23	52.23	113.243		
2,400.00	2,162.18	2,133.18	2,133.18	18.84	36.30	97.80	-5,565.17	1,728.84	5,926.99	5,872.07	54.92	107.926		
2,500.00	2,234.31	2,205.31	2,205.31	20.33	37.56	98.28	-5,565.17	1,728.84	5,940.30	5,882.69	57.61	103.114		
2,600.00	2,306.43	2,277.43	2,277.43	21.83	38.81	98.76	-5,565.17	1,728.84	5,954.40	5,894.09	60.30	98.745		
2,700.00	2,378.56	2,349.56	2,349.56	23.33	40.07	99.24	-5,565.17	1,728.84	5,969.26	5,906.27	62.99	94.765		
2,800.00	2,450.68	2,421.68	2,421.68	24.84	41.33	99.72	-5,565.17	1,728.84	5,984.89	5,919.21	65.68	91.127		
2,900.00	2,522.81	2,506.19	2,493.81	26.36	42.81	100.20	-5,565.17	1,728.84	6,001.27	5,932.70	68.57	87.515		
3,000.00	2,594.93	2,565.93	2,565.93	27.88	43.85	100.67	-5,565.17	1,728.84	6,018.41	5,947.38	71.03	84.727		
3,100.00	2,667.06	2,638.06	2,638.06	29.40	45.11	101.15	-5,565.17	1,728.84	6,036.29	5,962.59	73.70	81.903		
3,200.00	2,739.18	2,710.18	2,710.18	30.92	46.37	101.62	-5,565.17	1,728.84	6,054.92	5,978.56	76.36	79.293		
3,300.00	2,811.31	2,782.31	2,782.31	32.45	47.63	102.09	-5,565.17	1,728.84	6,074.28	5,995.26	79.01	76.877		
3,400.00	2,883.43	2,854.43	2,854.43	33.98	48.89	102.56	-5,565.17	1,728.84	6,094.36	6,012.71	81.66	74.635		
3,500.00	2,955.56	2,926.56	2,926.56	35.51	50.14	103.03	-5,565.17	1,728.84	6,115.16	6,030.87	84.29	72.551		
3,600.00	3,027.68	3,001.32	2,998.68	37.04	51.45	103.49	-5,565.17	1,728.84	6,136.68	6,049.72	86.96	70.572		
3,700.00	3,099.81	3,070.81	3,070.81	38.57	52.66	103.96	-5,565.17	1,728.84	6,158.89	6,069.37	89.52	68.798		
3,800.00	3,171.93	3,142.93	3,142.93	40.11	53.92	104.42	-5,565.17	1,728.84	6,181.81	6,089.68	92.12	67.104		
3,900.00	3,244.06	3,215.06	3,215.06	41.64	55.18	104.88	-5,565.17	1,728.84	6,205.41	6,110.70	94.71	65.519		
4,000.00	3,316.18	3,287.18	3,287.18	43.18	56.44	105.34	-5,565.17	1,728.84	6,229.69	6,132.40	97.29	64.033		
4,100.00	3,388.31	3,359.31	3,359.31	44.71	57.70	105.79	-5,565.17	1,728.84	6,254.65	6,154.79	99.85	62.638		
4,200.00	3,460.43	3,431.43	3,431.43	46.25	58.96	106.25	-5,565.17	1,728.84	6,280.27	6,177.86	102.41	61.327		
4,300.00	3,532.56	3,503.56	3,503.56	47.79	60.21	106.70	-5,565.17	1,728.84	6,306.55	6,201.60	104.95	60.092		
4,400.00	3,604.68	3,575.68	3,575.68	49.33	61.47	107.15	-5,565.17	1,728.84	6,333.47	6,226.00	107.48	58.930		
4,500.00	3,676.81	3,647.81	3,647.81	50.87	62.73	107.60	-5,565.17	1,728.84	6,361.04	6,251.05	109.99	57.833		
4,600.00	3,748.93	3,719.93	3,719.93	52.41	63.99	108.04	-5,565.17	1,728.84	6,389.24	6,276.74	112.49	56.797		
4,700.00	3,821.06	3,807.94	3,792.06	53.95	65.53	108.49	-5,565.17	1,728.84	6,418.06	6,302.80	115.26	55.684		
4,800.00	3,893.18	3,864.18	3,864.18	55.49	66.51	108.93	-5,565.17	1,728.84	6,447.50	6,330.04	117.46	54.893		
4,900.00	3,965.31	3,936.31	3,936.31	57.03	67.77	109.37	-5,565.17	1,728.84	6,477.54	6,357.62	119.92	54.016		
5,000.00	4,037.43	4,008.43	4,008.43	58.58	69.03	109.80	-5,565.17	1,728.84	6,508.18	6,385.82	122.37	53.186		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,080.56	4,080.56	60.12	70.29	110.24	-5,565.17	1,728.84	6,539.42	6,414.62	124.80	52.398		
5,200.00	4,181.68	4,152.68	4,152.68	61.66	71.54	110.67	-5,565.17	1,728.84	6,571.23	6,444.01	127.22	51.651		
5,300.00	4,253.81	4,224.81	4,224.81	63.20	72.80	111.10	-5,565.17	1,728.84	6,603.62	6,473.99	129.63	50.941		
5,400.00	4,325.93	4,303.07	4,296.93	64.75	74.17	111.52	-5,565.17	1,728.84	6,636.57	6,504.44	132.13	50.226		
5,500.00	4,398.06	4,369.06	4,369.06	66.29	75.32	111.95	-5,565.17	1,728.84	6,670.08	6,535.67	134.41	49.626		
5,600.00	4,470.18	4,441.18	4,441.18	67.84	76.58	112.37	-5,565.17	1,728.84	6,704.14	6,567.36	136.78	49.016		
5,700.00	4,542.31	4,513.31	4,513.31	69.38	77.84	112.79	-5,565.17	1,728.84	6,738.74	6,599.61	139.13	48.435		
5,800.00	4,614.43	4,585.43	4,585.43	70.92	79.10	113.21	-5,565.17	1,728.84	6,773.87	6,632.40	141.47	47.882		
5,900.00	4,686.56	4,657.56	4,657.56	72.47	80.36	113.62	-5,565.17	1,728.84	6,809.52	6,665.72	143.80	47.354		
6,000.00	4,758.68	4,729.68	4,729.68	74.01	81.61	114.03	-5,565.17	1,728.84	6,845.69	6,699.57	146.11	46.852		
6,100.00	4,830.81	4,801.81	4,801.81	75.56	82.87	114.44	-5,565.17	1,728.84	6,882.36	6,733.95	148.42	46.372		
6,200.00	4,902.93	4,873.93	4,873.93	77.10	84.13	114.85	-5,565.17	1,728.84	6,919.54	6,768.83	150.70	45.915		
6,300.00	4,975.06	4,946.06	4,946.06	78.65	85.39	115.25	-5,565.17	1,728.84	6,957.20	6,804.22	152.98	45.478		
6,400.00	5,047.18	5,018.18	5,018.18	80.19	86.65	115.65	-5,565.17	1,728.84	6,995.35	6,840.11	155.24	45.061		
6,500.00	5,119.31	5,090.31	5,090.31	81.74	87.91	116.05	-5,565.17	1,728.84	7,033.97	6,876.48	157.49	44.662		
6,600.00	5,191.43	5,125.00	5,125.00	83.28	88.51	116.24	-5,565.17	1,728.84	7,073.16	6,914.12	159.05	44.472		
6,700.00	5,263.56	5,125.00	5,125.00	84.83	88.51	116.24	-5,565.17	1,728.84	7,113.46	6,953.51	159.95	44.473		
6,800.00	5,335.68	5,125.00	5,125.00	86.37	88.51	116.24	-5,565.17	1,728.84	7,154.93	6,994.11	160.82	44.490		
6,900.00	5,407.81	5,125.00	5,125.00	87.92	88.51	116.24	-5,565.17	1,728.84	7,197.54	7,035.88	161.66	44.522		
7,000.00	5,479.93	5,125.00	5,125.00	89.47	88.51	116.24	-5,565.17	1,728.84	7,241.29	7,078.82	162.47	44.569		
7,100.00	5,552.06	5,125.00	5,125.00	91.01	88.51	116.24	-5,565.17	1,728.84	7,286.15	7,122.89	163.26	44.630		
7,200.00	5,624.18	5,125.00	5,125.00	92.56	88.51	116.24	-5,565.17	1,728.84	7,332.09	7,168.08	164.01	44.704		
7,300.00	5,696.31	5,125.00	5,125.00	94.10	88.51	116.24	-5,565.17	1,728.84	7,379.11	7,214.37	164.74	44.792		
7,400.00	5,768.43	5,125.00	5,125.00	95.65	88.51	116.24	-5,565.17	1,728.84	7,427.17	7,261.73	165.44	44.893		
7,500.00	5,840.56	5,125.00	5,125.00	97.20	88.51	116.24	-5,565.17	1,728.84	7,476.27	7,310.15	166.12	45.006		
7,600.00	5,912.68	5,125.00	5,125.00	98.74	88.51	116.24	-5,565.17	1,728.84	7,526.37	7,359.60	166.77	45.131		
7,700.00	5,984.81	5,125.00	5,125.00	100.29	88.51	116.24	-5,565.17	1,728.84	7,577.46	7,410.06	167.39	45.267		
7,800.00	6,056.93	5,125.00	5,125.00	101.84	88.51	116.24	-5,565.17	1,728.84	7,629.52	7,461.52	167.99	45.415		
7,900.00	6,129.06	5,125.00	5,125.00	103.38	88.51	116.24	-5,565.17	1,728.84	7,682.52	7,513.95	168.57	45.574		
8,000.00	6,201.18	5,125.00	5,125.00	104.93	88.51	116.24	-5,565.17	1,728.84	7,736.46	7,567.34	169.13	45.744		
8,100.00	6,273.31	5,125.00	5,125.00	106.48	88.51	116.24	-5,565.17	1,728.84	7,791.31	7,621.65	169.66	45.924		
8,200.00	6,345.43	5,125.00	5,125.00	108.02	88.51	116.24	-5,565.17	1,728.84	7,847.05	7,676.88	170.17	46.114		
8,300.00	6,417.56	5,125.00	5,125.00	109.57	88.51	116.24	-5,565.17	1,728.84	7,903.66	7,733.00	170.66	46.313		
8,400.00	6,489.68	5,125.00	5,125.00	111.12	88.51	116.24	-5,565.17	1,728.84	7,961.12	7,789.99	171.13	46.522		
8,500.00	6,561.81	5,125.00	5,125.00	112.66	88.51	116.24	-5,565.17	1,728.84	8,019.42	7,847.85	171.57	46.740		
8,600.00	6,633.93	5,125.00	5,125.00	114.21	88.51	116.24	-5,565.17	1,728.84	8,078.54	7,906.53	172.00	46.967		
8,700.00	6,706.06	5,125.00	5,125.00	115.76	88.51	116.24	-5,565.17	1,728.84	8,138.45	7,966.04	172.42	47.202		
8,800.00	6,778.18	5,125.00	5,125.00	117.30	88.51	116.24	-5,565.17	1,728.84	8,199.15	8,026.34	172.81	47.446		
8,900.00	6,850.31	5,125.00	5,125.00	118.85	88.51	116.24	-5,565.17	1,728.84	8,260.61	8,087.43	173.19	47.698		
9,000.00	6,922.43	5,125.00	5,125.00	120.40	88.51	116.24	-5,565.17	1,728.84	8,322.82	8,149.28	173.55	47.958		
9,100.00	6,994.56	5,125.00	5,125.00	121.95	88.51	116.24	-5,565.17	1,728.84	8,385.76	8,211.87	173.89	48.225		
9,200.00	7,066.68	5,125.00	5,125.00	123.49	88.51	116.24	-5,565.17	1,728.84	8,449.42	8,275.20	174.22	48.499		
9,300.00	7,138.81	5,125.00	5,125.00	125.04	88.51	116.24	-5,565.17	1,728.84	8,513.77	8,339.24	174.53	48.781		
9,392.50	7,205.52	5,125.00	5,125.00	126.47	88.51	116.24	-5,565.17	1,728.84	8,573.91	8,399.10	174.81	49.048		
9,400.00	7,210.94	5,125.00	5,125.00	126.59	88.51	115.35	-5,565.17	1,728.84	8,578.77	8,403.94	174.83	49.069		
9,450.00	7,247.42	5,125.00	5,125.00	127.35	88.51	109.36	-5,565.17	1,728.84	8,609.39	8,434.40	174.99	49.200		
9,500.00	7,284.35	5,125.00	5,125.00	128.10	88.51	103.32	-5,565.17	1,728.84	8,636.71	8,461.55	175.16	49.308		
9,550.00	7,321.43	5,125.00	5,125.00	128.83	88.51	97.32	-5,565.17	1,728.84	8,660.55	8,485.21	175.34	49.392		
9,600.00	7,358.38	5,125.00	5,125.00	129.52	88.51	91.49	-5,565.17	1,728.84	8,680.78	8,505.24	175.53	49.454		
9,650.00	7,394.93	5,125.00	5,125.00	130.16	88.51	85.95	-5,565.17	1,728.84	8,697.24	8,521.52	175.72	49.495		
9,700.00	7,430.79	5,125.00	5,125.00	130.76	88.51	80.79	-5,565.17	1,728.84	8,709.86	8,533.95	175.90	49.515		
9,750.00	7,465.70	5,125.00	5,125.00	131.30	88.51	76.08	-5,565.17	1,728.84	8,718.54	8,542.46	176.08	49.515		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	5,125.00	5,125.00	131.78	88.51	71.87	-5,565.17	1,728.84	8,723.22	8,546.99	176.24	49.497		
9,850.00	7,531.58	5,125.00	5,125.00	132.21	88.51	68.17	-5,565.17	1,728.84	8,723.89	8,547.51	176.38	49.461		
9,900.00	7,562.06	5,125.00	5,125.00	132.57	88.51	64.97	-5,565.17	1,728.84	8,720.54	8,544.04	176.50	49.409		
9,950.00	7,590.58	5,125.00	5,125.00	132.87	88.51	62.24	-5,565.17	1,728.84	8,713.18	8,536.59	176.59	49.341		
10,000.00	7,616.93	5,125.00	5,125.00	133.11	88.51	59.97	-5,565.17	1,728.84	8,701.87	8,525.21	176.66	49.258		
10,050.00	7,640.90	5,125.00	5,125.00	133.29	88.51	58.14	-5,565.17	1,728.84	8,686.67	8,509.97	176.70	49.161		
10,100.00	7,662.32	5,125.00	5,125.00	133.42	88.51	56.72	-5,565.17	1,728.84	8,667.68	8,490.97	176.71	49.049		
10,150.00	7,681.01	5,125.00	5,125.00	133.50	88.51	55.69	-5,565.17	1,728.84	8,645.03	8,468.32	176.70	48.924		
10,200.00	7,696.85	5,125.00	5,125.00	133.52	88.51	55.06	-5,565.17	1,728.84	8,618.84	8,442.17	176.67	48.784		
10,250.00	7,709.70	5,125.00	5,125.00	133.51	88.51	54.84	-5,565.17	1,728.84	8,589.30	8,412.68	176.62	48.632		
10,300.00	7,719.47	5,125.00	5,125.00	133.46	88.51	55.04	-5,565.17	1,728.84	8,556.60	8,380.04	176.55	48.465		
10,350.00	7,726.09	5,125.00	5,125.00	133.37	88.51	55.71	-5,565.17	1,728.84	8,520.94	8,344.47	176.47	48.286		
10,400.00	7,729.50	5,125.00	5,125.00	133.26	88.51	56.94	-5,565.17	1,728.84	8,482.56	8,306.18	176.38	48.092		
10,427.79	7,730.00	5,125.00	5,125.00	133.18	88.51	57.91	-5,565.17	1,728.84	8,460.15	8,283.82	176.33	47.979		
10,500.00	7,730.00	5,125.00	5,125.00	132.98	88.51	57.91	-5,565.17	1,728.84	8,401.08	8,224.89	176.19	47.681		
10,600.00	7,730.00	5,125.00	5,125.00	132.72	88.51	57.91	-5,565.17	1,728.84	8,319.61	8,143.61	176.00	47.271		
10,700.00	7,730.00	5,125.00	5,125.00	132.47	88.51	57.91	-5,565.17	1,728.84	8,238.55	8,062.75	175.80	46.862		
10,800.00	7,730.00	5,125.00	5,125.00	132.22	88.51	57.91	-5,565.17	1,728.84	8,157.91	7,982.31	175.61	46.456		
10,900.00	7,730.00	5,125.00	5,125.00	131.99	88.51	57.91	-5,565.17	1,728.84	8,077.71	7,902.30	175.41	46.051		
11,000.00	7,730.00	5,125.00	5,125.00	131.77	88.51	57.91	-5,565.17	1,728.84	7,997.95	7,822.74	175.20	45.649		
11,100.00	7,730.00	5,125.00	5,125.00	131.56	88.51	57.91	-5,565.17	1,728.84	7,918.65	7,743.65	175.00	45.249		
11,200.00	7,730.00	5,125.00	5,125.00	131.36	88.51	57.91	-5,565.17	1,728.84	7,839.82	7,665.03	174.79	44.852		
11,300.00	7,730.00	5,125.00	5,125.00	131.17	88.51	57.91	-5,565.17	1,728.84	7,761.48	7,586.90	174.59	44.457		
11,400.00	7,730.00	5,125.00	5,125.00	130.99	88.51	57.91	-5,565.17	1,728.84	7,683.65	7,509.27	174.37	44.064		
11,500.00	7,730.00	5,125.00	5,125.00	130.82	88.51	57.91	-5,565.17	1,728.84	7,606.33	7,432.17	174.16	43.674		
11,600.00	7,730.00	5,125.00	5,125.00	130.66	88.51	57.91	-5,565.17	1,728.84	7,529.55	7,355.60	173.95	43.286		
11,700.00	7,730.00	5,125.00	5,125.00	130.51	88.51	57.91	-5,565.17	1,728.84	7,453.31	7,279.58	173.73	42.901		
11,800.00	7,730.00	5,125.00	5,125.00	130.37	88.51	57.91	-5,565.17	1,728.84	7,377.65	7,204.14	173.51	42.519		
11,900.00	7,730.00	5,125.00	5,125.00	130.24	88.51	57.91	-5,565.17	1,728.84	7,302.57	7,129.28	173.29	42.140		
12,000.00	7,730.00	5,125.00	5,125.00	130.13	88.51	57.91	-5,565.17	1,728.84	7,228.09	7,055.02	173.07	41.763		
12,100.00	7,730.00	5,125.00	5,125.00	130.02	88.51	57.91	-5,565.17	1,728.84	7,154.24	6,981.39	172.85	41.390		
12,200.00	7,730.00	5,125.00	5,125.00	129.93	88.51	57.91	-5,565.17	1,728.84	7,081.03	6,908.40	172.63	41.019		
12,300.00	7,730.00	5,125.00	5,125.00	129.85	88.51	57.91	-5,565.17	1,728.84	7,008.48	6,836.08	172.40	40.652		
12,400.00	7,730.00	5,125.00	5,125.00	129.77	88.51	57.91	-5,565.17	1,728.84	6,936.61	6,764.43	172.18	40.288		
12,500.00	7,730.00	5,125.00	5,125.00	129.71	88.51	57.91	-5,565.17	1,728.84	6,865.45	6,693.50	171.95	39.926		
12,600.00	7,730.00	5,125.00	5,125.00	129.66	88.51	57.91	-5,565.17	1,728.84	6,795.01	6,623.29	171.73	39.569		
12,700.00	7,730.00	5,125.00	5,125.00	129.63	88.51	57.91	-5,565.17	1,728.84	6,725.33	6,553.83	171.50	39.214		
12,800.00	7,730.00	5,125.00	5,125.00	129.60	88.51	57.91	-5,565.17	1,728.84	6,656.41	6,485.14	171.28	38.863		
12,900.00	7,730.00	5,125.00	5,125.00	129.59	88.51	57.91	-5,565.17	1,728.84	6,588.30	6,417.24	171.05	38.516		
13,000.00	7,730.00	5,125.00	5,125.00	129.59	88.51	57.91	-5,565.17	1,728.84	6,521.00	6,350.17	170.83	38.172		
13,100.00	7,730.00	5,125.00	5,125.00	129.60	88.51	57.91	-5,565.17	1,728.84	6,454.56	6,283.95	170.61	37.832		
13,200.00	7,730.00	5,125.00	5,125.00	129.63	88.51	57.91	-5,565.17	1,728.84	6,388.98	6,218.59	170.39	37.496		
13,300.00	7,730.00	5,125.00	5,125.00	129.66	88.51	57.91	-5,565.17	1,728.84	6,324.31	6,154.14	170.17	37.164		
13,400.00	7,730.00	5,125.00	5,125.00	129.72	88.51	57.91	-5,565.17	1,728.84	6,260.57	6,090.61	169.96	36.836		
13,500.00	7,730.00	5,125.00	5,125.00	129.78	88.51	57.91	-5,565.17	1,728.84	6,197.79	6,028.04	169.75	36.511		
13,600.00	7,730.00	5,125.00	5,125.00	129.86	88.51	57.91	-5,565.17	1,728.84	6,135.99	5,966.45	169.54	36.191		
13,700.00	7,730.00	5,125.00	5,125.00	129.96	88.51	57.91	-5,565.17	1,728.84	6,075.21	5,905.87	169.34	35.875		
13,800.00	7,730.00	5,125.00	5,125.00	130.07	88.51	57.91	-5,565.17	1,728.84	6,015.48	5,846.33	169.15	35.564		
13,900.00	7,730.00	5,125.00	5,125.00	130.19	88.51	57.91	-5,565.17	1,728.84	5,956.83	5,787.87	168.96	35.257		
14,000.00	7,730.00	5,125.00	5,125.00	130.33	88.51	57.91	-5,565.17	1,728.84	5,899.29	5,730.52	168.77	34.954		
14,100.00	7,730.00	5,125.00	5,125.00	130.49	88.51	57.91	-5,565.17	1,728.84	5,842.90	5,674.30	168.60	34.656		
14,200.00	7,730.00	5,125.00	5,125.00	130.67	88.51	57.91	-5,565.17	1,728.84	5,787.68	5,619.25	168.43	34.363		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	5,125.00	5,125.00	130.86	88.51	57.91	-5,565.17	1,728.84	5,733.68	5,565.41	168.27	34.075		
14,400.00	7,730.00	5,125.00	5,125.00	131.07	88.51	57.91	-5,565.17	1,728.84	5,680.92	5,512.80	168.12	33.791		
14,500.00	7,730.00	5,125.00	5,125.00	131.30	88.51	57.91	-5,565.17	1,728.84	5,629.45	5,461.47	167.98	33.513		
14,600.00	7,730.00	5,125.00	5,125.00	131.55	88.51	57.91	-5,565.17	1,728.84	5,579.29	5,411.44	167.85	33.239		
14,700.00	7,730.00	5,125.00	5,125.00	131.82	88.51	57.91	-5,565.17	1,728.84	5,530.49	5,362.75	167.74	32.971		
14,800.00	7,730.00	5,125.00	5,125.00	132.11	88.51	57.91	-5,565.17	1,728.84	5,483.08	5,315.44	167.63	32.708		
14,900.00	7,730.00	5,125.00	5,125.00	132.42	88.51	57.91	-5,565.17	1,728.84	5,437.09	5,269.54	167.55	32.451		
15,000.00	7,730.00	5,125.00	5,125.00	132.75	88.51	57.91	-5,565.17	1,728.84	5,392.57	5,225.09	167.47	32.200		
15,100.00	7,730.00	5,125.00	5,125.00	133.10	88.51	57.91	-5,565.17	1,728.84	5,349.54	5,182.12	167.42	31.954		
15,200.00	7,730.00	5,125.00	5,125.00	133.48	88.51	57.91	-5,565.17	1,728.84	5,308.05	5,140.67	167.38	31.713		
15,300.00	7,730.00	5,125.00	5,125.00	133.88	88.51	57.91	-5,565.17	1,728.84	5,268.13	5,100.78	167.35	31.479		
15,400.00	7,730.00	5,125.00	5,125.00	134.31	88.51	57.91	-5,565.17	1,728.84	5,229.82	5,062.47	167.35	31.251		
15,500.00	7,730.00	5,125.00	5,125.00	134.76	88.51	57.91	-5,565.17	1,728.84	5,193.15	5,025.79	167.36	31.029		
15,600.00	7,730.00	5,125.00	5,125.00	135.23	88.51	57.91	-5,565.17	1,728.84	5,158.16	4,990.77	167.40	30.814		
15,700.00	7,730.00	5,125.00	5,125.00	135.73	88.51	57.91	-5,565.17	1,728.84	5,124.89	4,957.43	167.45	30.605		
15,800.00	7,730.00	5,125.00	5,125.00	136.26	88.51	57.91	-5,565.17	1,728.84	5,093.36	4,925.83	167.53	30.402		
15,900.00	7,730.00	5,125.00	5,125.00	136.81	88.51	57.91	-5,565.17	1,728.84	5,063.61	4,895.98	167.63	30.207		
16,000.00	7,730.00	5,125.00	5,125.00	137.39	88.51	57.91	-5,565.17	1,728.84	5,035.67	4,867.91	167.75	30.019		
16,100.00	7,730.00	5,125.00	5,125.00	138.00	88.51	57.91	-5,565.17	1,728.84	5,009.56	4,841.67	167.90	29.837		
16,200.00	7,730.00	5,125.00	5,125.00	138.63	88.51	57.91	-5,565.17	1,728.84	4,985.33	4,817.27	168.06	29.663		
16,300.00	7,730.00	5,125.00	5,125.00	139.30	88.51	57.91	-5,565.17	1,728.84	4,963.00	4,794.74	168.26	29.497		
16,400.00	7,730.00	5,125.00	5,125.00	139.99	88.51	57.91	-5,565.17	1,728.84	4,942.59	4,774.12	168.47	29.338		
16,500.00	7,730.00	5,125.00	5,125.00	140.70	88.51	57.91	-5,565.17	1,728.84	4,924.12	4,755.41	168.71	29.187		
16,600.00	7,730.00	5,125.00	5,125.00	141.45	88.51	57.91	-5,565.17	1,728.84	4,907.63	4,738.66	168.97	29.044		
16,700.00	7,730.00	5,125.00	5,125.00	142.22	88.51	57.91	-5,565.17	1,728.84	4,893.12	4,723.86	169.26	28.910		
16,800.00	7,730.00	5,125.00	5,125.00	143.03	88.51	57.91	-5,565.17	1,728.84	4,880.62	4,711.05	169.56	28.783		
16,900.00	7,730.00	5,125.00	5,125.00	143.86	88.51	57.91	-5,565.17	1,728.84	4,870.14	4,700.24	169.89	28.666		
17,000.00	7,730.00	5,125.00	5,125.00	144.71	88.51	57.91	-5,565.17	1,728.84	4,861.69	4,691.45	170.25	28.557		
17,100.00	7,730.00	5,125.00	5,125.00	145.60	88.51	57.91	-5,565.17	1,728.84	4,855.29	4,684.67	170.62	28.457		
17,200.00	7,730.00	5,125.00	5,125.00	146.51	88.51	57.91	-5,565.17	1,728.84	4,850.95	4,679.93	171.01	28.366		
17,300.00	7,730.00	5,125.00	5,125.00	147.44	88.51	57.91	-5,565.17	1,728.84	4,848.66	4,677.23	171.43	28.284		
17,360.93	7,730.00	5,125.00	5,125.00	148.02	88.51	57.91	-5,565.17	1,728.84	4,848.28	4,676.59	171.69	28.239 CC		
17,400.00	7,730.00	5,125.00	5,125.00	148.40	88.51	57.91	-5,565.17	1,728.84	4,848.44	4,676.58	171.86	28.212 ES		
17,500.00	7,730.00	5,125.00	5,125.00	149.39	88.51	57.91	-5,565.17	1,728.84	4,850.27	4,677.97	172.31	28.149		
17,600.00	7,730.00	5,125.00	5,125.00	150.40	88.51	57.91	-5,565.17	1,728.84	4,854.17	4,681.40	172.77	28.096		
17,700.00	7,730.00	5,125.00	5,125.00	151.44	88.51	57.91	-5,565.17	1,728.84	4,860.12	4,686.87	173.25	28.053		
17,800.00	7,730.00	5,125.00	5,125.00	152.50	88.51	57.91	-5,565.17	1,728.84	4,868.12	4,694.38	173.74	28.019		
17,900.00	7,730.00	5,125.00	5,125.00	153.58	88.51	57.91	-5,565.17	1,728.84	4,878.16	4,703.91	174.24	27.996		
18,000.00	7,730.00	5,125.00	5,125.00	154.68	88.51	57.91	-5,565.17	1,728.84	4,890.22	4,715.46	174.76	27.983		
18,100.00	7,730.00	5,125.00	5,125.00	155.80	88.51	57.91	-5,565.17	1,728.84	4,904.29	4,729.00	175.28	27.979 SF		
18,200.00	7,730.00	5,125.00	5,125.00	156.95	88.51	57.91	-5,565.17	1,728.84	4,920.35	4,744.54	175.81	27.986		
18,300.00	7,730.00	5,125.00	5,125.00	158.11	88.51	57.91	-5,565.17	1,728.84	4,938.39	4,762.04	176.35	28.003		
18,400.00	7,730.00	5,125.00	5,125.00	159.30	88.51	57.91	-5,565.17	1,728.84	4,958.37	4,781.48	176.89	28.030		
18,500.00	7,730.00	5,125.00	5,125.00	160.50	88.51	57.91	-5,565.17	1,728.84	4,980.29	4,802.85	177.44	28.068		
18,600.00	7,730.00	5,125.00	5,125.00	161.72	88.51	57.91	-5,565.17	1,728.84	5,004.11	4,826.12	177.99	28.115		
18,700.00	7,730.00	5,125.00	5,125.00	162.96	88.51	57.91	-5,565.17	1,728.84	5,029.80	4,851.27	178.53	28.173		
18,800.00	7,730.00	5,125.00	5,125.00	164.21	88.51	57.91	-5,565.17	1,728.84	5,057.35	4,878.26	179.08	28.240		
18,900.00	7,730.00	5,125.00	5,125.00	165.48	88.51	57.91	-5,565.17	1,728.84	5,086.70	4,907.08	179.63	28.318		
19,000.00	7,730.00	5,125.00	5,125.00	166.76	88.51	57.91	-5,565.17	1,728.84	5,117.85	4,937.68	180.17	28.406		
19,100.00	7,730.00	5,125.00	5,125.00	168.06	88.51	57.91	-5,565.17	1,728.84	5,150.75	4,970.04	180.71	28.503		
19,200.00	7,730.00	5,125.00	5,125.00	169.38	88.51	57.91	-5,565.17	1,728.84	5,185.36	5,004.12	181.24	28.610		
19,300.00	7,730.00	5,125.00	5,125.00	170.70	88.51	57.91	-5,565.17	1,728.84	5,221.67	5,039.90	181.77	28.727		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	5,125.00	5,125.00	172.04	88.51	57.91	-5,565.17	1,728.84	5,259.62	5,077.33	182.29	28.853	
19,500.00	7,730.00	5,125.00	5,125.00	173.40	88.51	57.91	-5,565.17	1,728.84	5,299.19	5,116.39	182.81	28.988	
19,600.00	7,730.00	5,125.00	5,125.00	174.76	88.51	57.91	-5,565.17	1,728.84	5,340.34	5,157.03	183.31	29.133	
19,700.00	7,730.00	5,125.00	5,125.00	176.14	88.51	57.91	-5,565.17	1,728.84	5,383.04	5,199.23	183.81	29.286	
19,800.00	7,730.00	5,125.00	5,125.00	177.52	88.51	57.91	-5,565.17	1,728.84	5,427.24	5,242.94	184.29	29.449	
19,900.00	7,730.00	5,125.00	5,125.00	178.92	88.51	57.91	-5,565.17	1,728.84	5,472.91	5,288.13	184.77	29.620	
20,000.00	7,730.00	5,125.00	5,125.00	180.33	88.51	57.91	-5,565.17	1,728.84	5,520.01	5,334.77	185.24	29.799	
20,100.00	7,730.00	5,125.00	5,125.00	181.75	88.51	57.91	-5,565.17	1,728.84	5,568.51	5,382.82	185.70	29.987	
20,184.95	7,730.00	5,125.00	5,125.00	182.96	88.51	57.91	-5,565.17	1,728.84	5,610.79	5,424.71	186.08	30.153	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	151.13	-5,536.63	3,052.99	6,322.65					
100.00	100.00	71.00	71.00	0.13	0.58	151.13	-5,536.63	3,052.99	6,322.58	6,321.87	0.71	8,896.921		
200.00	199.98	170.98	170.98	0.49	2.05	80.69	-5,536.63	3,052.99	6,322.30	6,319.76	2.54	2,488.660		
300.00	299.84	270.84	270.84	0.86	3.79	80.76	-5,536.63	3,052.99	6,321.45	6,316.81	4.65	1,360.666		
400.00	399.45	370.45	370.45	1.23	5.53	80.86	-5,536.63	3,052.99	6,320.06	6,313.29	6.76	934.777		
500.00	498.70	469.70	469.70	1.63	7.26	81.01	-5,536.63	3,052.99	6,318.12	6,309.23	8.89	710.760		
600.00	597.47	568.47	568.47	2.05	8.99	81.20	-5,536.63	3,052.99	6,315.67	6,304.64	11.03	572.362		
700.00	695.62	666.62	666.62	2.51	10.70	81.42	-5,536.63	3,052.99	6,312.74	6,299.54	13.20	478.229		
800.00	793.06	764.06	764.06	3.00	12.40	81.69	-5,536.63	3,052.99	6,309.35	6,293.96	15.39	409.959		
900.00	889.64	860.64	860.64	3.53	14.09	81.99	-5,536.63	3,052.99	6,305.55	6,287.94	17.61	358.119		
1,000.00	985.27	956.27	956.27	4.12	15.76	82.32	-5,536.63	3,052.99	6,301.38	6,281.52	19.85	317.377		
1,100.00	1,079.82	1,050.82	1,050.82	4.75	17.41	82.69	-5,536.63	3,052.99	6,296.89	6,274.76	22.13	284.489		
1,200.00	1,173.17	1,144.17	1,144.17	5.44	19.04	83.09	-5,536.63	3,052.99	6,292.14	6,267.69	24.45	257.371		
1,300.00	1,265.21	1,236.21	1,236.21	6.18	20.64	83.51	-5,536.63	3,052.99	6,287.19	6,260.40	26.80	234.619		
1,400.00	1,355.84	1,326.84	1,326.84	6.99	22.22	83.96	-5,536.63	3,052.99	6,282.11	6,252.93	29.18	215.256		
1,500.00	1,444.94	1,415.94	1,415.94	7.87	23.78	84.43	-5,536.63	3,052.99	6,276.96	6,245.35	31.61	198.579		
1,600.00	1,532.39	1,503.39	1,503.39	8.80	25.31	84.92	-5,536.63	3,052.99	6,271.83	6,237.75	34.07	184.068		
1,700.00	1,618.11	1,589.11	1,589.11	9.81	26.80	85.42	-5,536.63	3,052.99	6,266.77	6,230.20	36.58	171.333		
1,800.00	1,701.97	1,672.97	1,672.97	10.89	28.27	85.93	-5,536.63	3,052.99	6,261.89	6,222.77	39.12	160.074		
1,900.00	1,783.88	1,754.88	1,754.88	12.04	29.69	86.46	-5,536.63	3,052.99	6,257.25	6,215.55	41.70	150.056		
2,000.00	1,863.74	1,834.74	1,834.74	13.26	31.09	86.98	-5,536.63	3,052.99	6,252.94	6,208.62	44.32	141.093		
2,100.00	1,941.45	1,912.45	1,912.45	14.55	32.44	87.51	-5,536.63	3,052.99	6,249.06	6,202.09	46.97	133.034		
2,200.00	2,016.92	1,987.92	1,987.92	15.92	33.76	88.03	-5,536.63	3,052.99	6,245.68	6,196.02	49.66	125.760		
2,292.11	2,084.36	2,055.36	2,055.36	17.25	34.94	88.50	-5,536.63	3,052.99	6,243.10	6,190.92	52.17	119.668		
2,300.00	2,090.06	2,061.06	2,061.06	17.36	35.04	88.54	-5,536.63	3,052.99	6,242.90	6,190.51	52.39	119.171		
2,400.00	2,162.18	2,133.18	2,133.18	18.84	36.30	89.00	-5,536.63	3,052.99	6,240.84	6,185.71	55.13	113.203		
2,500.00	2,234.31	2,205.31	2,205.31	20.33	37.56	89.46	-5,536.63	3,052.99	6,239.54	6,181.66	57.88	107.796		
2,600.00	2,306.43	2,277.43	2,277.43	21.83	38.81	89.92	-5,536.63	3,052.99	6,239.01	6,178.37	60.64	102.881		
2,618.50	2,319.78	2,309.22	2,290.78	22.11	39.37	90.00	-5,536.63	3,052.99	6,239.00	6,177.52	61.48	101.486		
2,700.00	2,378.56	2,349.56	2,349.56	23.33	40.07	90.37	-5,536.63	3,052.99	6,239.26	6,175.85	63.41	98.399		
2,800.00	2,450.68	2,421.68	2,421.68	24.84	41.33	90.83	-5,536.63	3,052.99	6,240.27	6,174.09	66.18	94.299		
2,900.00	2,522.81	2,506.19	2,493.81	26.36	42.81	91.29	-5,536.63	3,052.99	6,242.05	6,172.89	69.16	90.254		
3,000.00	2,594.93	2,565.93	2,565.93	27.88	43.85	91.75	-5,536.63	3,052.99	6,244.59	6,172.88	71.71	87.077		
3,100.00	2,667.06	2,638.06	2,638.06	29.40	45.11	92.21	-5,536.63	3,052.99	6,247.91	6,173.43	74.48	83.884		
3,200.00	2,739.18	2,710.18	2,710.18	30.92	46.37	92.67	-5,536.63	3,052.99	6,251.99	6,174.74	77.25	80.933		
3,300.00	2,811.31	2,782.31	2,782.31	32.45	47.63	93.12	-5,536.63	3,052.99	6,256.83	6,176.82	80.01	78.197		
3,400.00	2,883.43	2,854.43	2,854.43	33.98	48.89	93.58	-5,536.63	3,052.99	6,262.44	6,179.67	82.77	75.657		
3,500.00	2,955.56	2,926.56	2,926.56	35.51	50.14	94.04	-5,536.63	3,052.99	6,268.81	6,183.28	85.53	73.293		
3,600.00	3,027.68	3,001.32	2,998.68	37.04	51.45	94.49	-5,536.63	3,052.99	6,275.93	6,187.60	88.33	71.053		
3,700.00	3,099.81	3,070.81	3,070.81	38.57	52.66	94.95	-5,536.63	3,052.99	6,283.81	6,192.79	91.03	69.032		
3,800.00	3,171.93	3,142.93	3,142.93	40.11	53.92	95.40	-5,536.63	3,052.99	6,292.45	6,198.68	93.77	67.107		
3,900.00	3,244.06	3,215.06	3,215.06	41.64	55.18	95.86	-5,536.63	3,052.99	6,301.83	6,205.33	96.50	65.303		
4,000.00	3,316.18	3,287.18	3,287.18	43.18	56.44	96.31	-5,536.63	3,052.99	6,311.96	6,212.73	99.23	63.612		
4,100.00	3,388.31	3,359.31	3,359.31	44.71	57.70	96.77	-5,536.63	3,052.99	6,322.83	6,220.89	101.94	62.022		
4,200.00	3,460.43	3,431.43	3,431.43	46.25	58.96	97.22	-5,536.63	3,052.99	6,334.44	6,229.79	104.65	60.528		
4,300.00	3,532.56	3,503.56	3,503.56	47.79	60.21	97.67	-5,536.63	3,052.99	6,346.79	6,239.43	107.35	59.120		
4,400.00	3,604.68	3,575.68	3,575.68	49.33	61.47	98.12	-5,536.63	3,052.99	6,359.86	6,249.82	110.05	57.793		
4,500.00	3,676.81	3,647.81	3,647.81	50.87	62.73	98.57	-5,536.63	3,052.99	6,373.67	6,260.94	112.73	56.540		
4,600.00	3,748.93	3,719.93	3,719.93	52.41	63.99	99.02	-5,536.63	3,052.99	6,388.19	6,272.79	115.40	55.357		
4,700.00	3,821.06	3,807.94	3,792.06	53.95	65.53	99.46	-5,536.63	3,052.99	6,403.43	6,285.09	118.34	54.111		
4,800.00	3,893.18	3,864.18	3,864.18	55.49	66.51	99.91	-5,536.63	3,052.99	6,419.38	6,298.67	120.71	53.179		
4,900.00	3,965.31	3,936.31	3,936.31	57.03	67.77	100.35	-5,536.63	3,052.99	6,436.04	6,312.68	123.35	52.176		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,008.43	4,008.43	58.58	69.03	100.80	-5,536.63	3,052.99	6,453.40	6,327.41	125.98	51.225		
5,100.00	4,109.56	4,080.56	4,080.56	60.12	70.29	101.24	-5,536.63	3,052.99	6,471.45	6,342.85	128.60	50.323		
5,200.00	4,181.68	4,152.68	4,152.68	61.66	71.54	101.68	-5,536.63	3,052.99	6,490.19	6,358.98	131.20	49.466		
5,300.00	4,253.81	4,224.81	4,224.81	63.20	72.80	102.12	-5,536.63	3,052.99	6,509.61	6,375.82	133.80	48.653		
5,400.00	4,325.93	4,303.07	4,296.93	64.75	74.17	102.56	-5,536.63	3,052.99	6,529.72	6,393.23	136.49	47.842		
5,500.00	4,398.06	4,369.06	4,369.06	66.29	75.32	102.99	-5,536.63	3,052.99	6,550.49	6,411.54	138.95	47.144		
5,600.00	4,470.18	4,441.18	4,441.18	67.84	76.58	103.43	-5,536.63	3,052.99	6,571.93	6,430.42	141.50	46.444		
5,700.00	4,542.31	4,513.31	4,513.31	69.38	77.84	103.86	-5,536.63	3,052.99	6,594.02	6,449.98	144.04	45.778		
5,800.00	4,614.43	4,585.43	4,585.43	70.92	79.10	104.29	-5,536.63	3,052.99	6,616.77	6,470.19	146.57	45.143		
5,900.00	4,686.56	4,657.56	4,657.56	72.47	80.36	104.72	-5,536.63	3,052.99	6,640.16	6,491.07	149.09	44.538		
6,000.00	4,758.68	4,729.68	4,729.68	74.01	81.61	105.15	-5,536.63	3,052.99	6,664.19	6,512.59	151.59	43.961		
6,100.00	4,830.81	4,801.81	4,801.81	75.56	82.87	105.58	-5,536.63	3,052.99	6,688.85	6,534.76	154.08	43.411		
6,200.00	4,902.93	4,873.93	4,873.93	77.10	84.13	106.00	-5,536.63	3,052.99	6,714.13	6,557.57	156.56	42.886		
6,300.00	4,975.06	4,946.06	4,946.06	78.65	85.39	106.43	-5,536.63	3,052.99	6,740.03	6,581.01	159.02	42.384		
6,400.00	5,047.18	5,018.18	5,018.18	80.19	86.65	106.85	-5,536.63	3,052.99	6,766.54	6,605.07	161.47	41.906		
6,500.00	5,119.31	5,090.31	5,090.31	81.74	87.91	107.27	-5,536.63	3,052.99	6,793.66	6,629.75	163.91	41.449		
6,600.00	5,191.43	5,148.00	5,148.00	83.28	88.92	107.60	-5,536.63	3,052.99	6,821.38	6,655.31	166.07	41.076		
6,700.00	5,263.56	5,148.00	5,148.00	84.83	88.92	107.60	-5,536.63	3,052.99	6,850.21	6,683.04	167.17	40.978		
6,800.00	5,335.68	5,148.00	5,148.00	86.37	88.92	107.60	-5,536.63	3,052.99	6,880.37	6,712.14	168.24	40.897		
6,900.00	5,407.81	5,148.00	5,148.00	87.92	88.92	107.60	-5,536.63	3,052.99	6,911.85	6,742.58	169.27	40.833		
7,000.00	5,479.93	5,148.00	5,148.00	89.47	88.92	107.60	-5,536.63	3,052.99	6,944.63	6,774.35	170.27	40.785		
7,100.00	5,552.06	5,148.00	5,148.00	91.01	88.92	107.60	-5,536.63	3,052.99	6,978.68	6,807.44	171.24	40.754		
7,200.00	5,624.18	5,148.00	5,148.00	92.56	88.92	107.60	-5,536.63	3,052.99	7,013.99	6,841.82	172.18	40.737		
7,300.00	5,696.31	5,148.00	5,148.00	94.10	88.92	107.60	-5,536.63	3,052.99	7,050.55	6,877.47	173.08	40.735		
7,400.00	5,768.43	5,148.00	5,148.00	95.65	88.92	107.60	-5,536.63	3,052.99	7,088.33	6,914.38	173.95	40.748		
7,500.00	5,840.56	5,148.00	5,148.00	97.20	88.92	107.60	-5,536.63	3,052.99	7,127.31	6,952.52	174.79	40.775		
7,600.00	5,912.68	5,148.00	5,148.00	98.74	88.92	107.60	-5,536.63	3,052.99	7,167.48	6,991.87	175.61	40.816		
7,700.00	5,984.81	5,148.00	5,148.00	100.29	88.92	107.60	-5,536.63	3,052.99	7,208.80	7,032.42	176.39	40.870		
7,800.00	6,056.93	5,148.00	5,148.00	101.84	88.92	107.60	-5,536.63	3,052.99	7,251.28	7,074.14	177.14	40.936		
7,900.00	6,129.06	5,148.00	5,148.00	103.38	88.92	107.60	-5,536.63	3,052.99	7,294.87	7,117.01	177.86	41.015		
8,000.00	6,201.18	5,148.00	5,148.00	104.93	88.92	107.60	-5,536.63	3,052.99	7,339.57	7,161.02	178.55	41.106		
8,100.00	6,273.31	5,148.00	5,148.00	106.48	88.92	107.60	-5,536.63	3,052.99	7,385.35	7,206.14	179.22	41.209		
8,200.00	6,345.43	5,148.00	5,148.00	108.02	88.92	107.60	-5,536.63	3,052.99	7,432.20	7,252.34	179.85	41.324		
8,300.00	6,417.56	5,148.00	5,148.00	109.57	88.92	107.60	-5,536.63	3,052.99	7,480.09	7,299.62	180.46	41.449		
8,400.00	6,489.68	5,148.00	5,148.00	111.12	88.92	107.60	-5,536.63	3,052.99	7,529.00	7,347.95	181.05	41.585		
8,500.00	6,561.81	5,148.00	5,148.00	112.66	88.92	107.60	-5,536.63	3,052.99	7,578.92	7,397.31	181.61	41.732		
8,600.00	6,633.93	5,148.00	5,148.00	114.21	88.92	107.60	-5,536.63	3,052.99	7,629.82	7,447.67	182.15	41.888		
8,700.00	6,706.06	5,148.00	5,148.00	115.76	88.92	107.60	-5,536.63	3,052.99	7,681.69	7,499.03	182.66	42.055		
8,800.00	6,778.18	5,148.00	5,148.00	117.30	88.92	107.60	-5,536.63	3,052.99	7,734.50	7,551.35	183.15	42.231		
8,900.00	6,850.31	5,148.00	5,148.00	118.85	88.92	107.60	-5,536.63	3,052.99	7,788.23	7,604.62	183.61	42.416		
9,000.00	6,922.43	5,148.00	5,148.00	120.40	88.92	107.60	-5,536.63	3,052.99	7,842.88	7,658.82	184.06	42.611		
9,100.00	6,994.56	5,148.00	5,148.00	121.95	88.92	107.60	-5,536.63	3,052.99	7,898.41	7,713.93	184.48	42.814		
9,200.00	7,066.68	5,148.00	5,148.00	123.49	88.92	107.60	-5,536.63	3,052.99	7,954.81	7,769.93	184.89	43.026		
9,300.00	7,138.81	5,148.00	5,148.00	125.04	88.92	107.60	-5,536.63	3,052.99	8,012.06	7,826.79	185.27	43.246		
9,392.50	7,205.52	5,148.00	5,148.00	126.47	88.92	107.60	-5,536.63	3,052.99	8,065.76	7,880.16	185.61	43.456		
9,400.00	7,210.94	5,148.00	5,148.00	126.59	88.92	106.81	-5,536.63	3,052.99	8,070.11	7,884.48	185.63	43.473		
9,450.00	7,247.42	5,148.00	5,148.00	127.35	88.92	101.41	-5,536.63	3,052.99	8,097.12	7,911.30	185.82	43.575		
9,500.00	7,284.35	5,148.00	5,148.00	128.10	88.92	95.83	-5,536.63	3,052.99	8,120.59	7,934.58	186.01	43.656		
9,550.00	7,321.43	5,148.00	5,148.00	128.83	88.92	90.21	-5,536.63	3,052.99	8,140.40	7,954.18	186.21	43.716		
9,600.00	7,358.38	5,148.00	5,148.00	129.52	88.92	84.67	-5,536.63	3,052.99	8,156.40	7,969.99	186.41	43.755		
9,650.00	7,394.93	5,148.00	5,148.00	130.16	88.92	79.35	-5,536.63	3,052.99	8,168.50	7,981.90	186.60	43.776		
9,700.00	7,430.79	5,148.00	5,148.00	130.76	88.92	74.36	-5,536.63	3,052.99	8,176.63	7,989.85	186.78	43.777		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,148.00	5,148.00	131.30	88.92	69.77	-5,536.63	3,052.99	8,180.74	7,993.80	186.94	43.761		
9,800.00	7,499.38	5,148.00	5,148.00	131.78	88.92	65.63	-5,536.63	3,052.99	8,180.80	7,993.72	187.08	43.728		
9,850.00	7,531.58	5,148.00	5,148.00	132.21	88.92	61.96	-5,536.63	3,052.99	8,176.81	7,989.61	187.20	43.679		
9,900.00	7,562.06	5,148.00	5,148.00	132.57	88.92	58.74	-5,536.63	3,052.99	8,168.80	7,981.50	187.29	43.615		
9,950.00	7,590.58	5,148.00	5,148.00	132.87	88.92	55.95	-5,536.63	3,052.99	8,156.81	7,969.45	187.35	43.537		
10,000.00	7,616.93	5,148.00	5,148.00	133.11	88.92	53.58	-5,536.63	3,052.99	8,140.92	7,953.53	187.39	43.444		
10,050.00	7,640.90	5,148.00	5,148.00	133.29	88.92	51.59	-5,536.63	3,052.99	8,121.23	7,933.83	187.40	43.337		
10,100.00	7,662.32	5,148.00	5,148.00	133.42	88.92	49.96	-5,536.63	3,052.99	8,097.85	7,910.48	187.38	43.217		
10,150.00	7,681.01	5,148.00	5,148.00	133.50	88.92	48.67	-5,536.63	3,052.99	8,070.95	7,883.62	187.33	43.084		
10,200.00	7,696.85	5,148.00	5,148.00	133.52	88.92	47.70	-5,536.63	3,052.99	8,040.68	7,853.42	187.26	42.938		
10,250.00	7,709.70	5,148.00	5,148.00	133.51	88.92	47.04	-5,536.63	3,052.99	8,007.24	7,820.06	187.18	42.779		
10,300.00	7,719.47	5,148.00	5,148.00	133.46	88.92	46.70	-5,536.63	3,052.99	7,970.85	7,783.77	187.08	42.607		
10,350.00	7,726.09	5,148.00	5,148.00	133.37	88.92	46.70	-5,536.63	3,052.99	7,931.75	7,744.78	186.97	42.422		
10,400.00	7,729.50	5,148.00	5,148.00	133.26	88.92	47.07	-5,536.63	3,052.99	7,890.19	7,703.33	186.86	42.225		
10,427.79	7,730.00	5,148.00	5,148.00	133.18	88.92	47.47	-5,536.63	3,052.99	7,866.13	7,679.33	186.80	42.111		
10,500.00	7,730.00	5,148.00	5,148.00	132.98	88.92	47.47	-5,536.63	3,052.99	7,802.87	7,616.23	186.63	41.809		
10,600.00	7,730.00	5,148.00	5,148.00	132.72	88.92	47.47	-5,536.63	3,052.99	7,715.51	7,529.12	186.40	41.393		
10,700.00	7,730.00	5,148.00	5,148.00	132.47	88.92	47.47	-5,536.63	3,052.99	7,628.47	7,442.31	186.16	40.979		
10,800.00	7,730.00	5,148.00	5,148.00	132.22	88.92	47.47	-5,536.63	3,052.99	7,541.75	7,355.84	185.91	40.567		
10,900.00	7,730.00	5,148.00	5,148.00	131.99	88.92	47.47	-5,536.63	3,052.99	7,455.36	7,269.71	185.65	40.158		
11,000.00	7,730.00	5,148.00	5,148.00	131.77	88.92	47.47	-5,536.63	3,052.99	7,369.32	7,183.93	185.39	39.750		
11,100.00	7,730.00	5,148.00	5,148.00	131.56	88.92	47.47	-5,536.63	3,052.99	7,283.63	7,098.51	185.12	39.346		
11,200.00	7,730.00	5,148.00	5,148.00	131.36	88.92	47.47	-5,536.63	3,052.99	7,198.31	7,013.47	184.84	38.943		
11,300.00	7,730.00	5,148.00	5,148.00	131.17	88.92	47.47	-5,536.63	3,052.99	7,113.37	6,928.82	184.55	38.544		
11,400.00	7,730.00	5,148.00	5,148.00	130.99	88.92	47.47	-5,536.63	3,052.99	7,028.83	6,844.57	184.26	38.146		
11,500.00	7,730.00	5,148.00	5,148.00	130.82	88.92	47.47	-5,536.63	3,052.99	6,944.70	6,760.75	183.95	37.752		
11,600.00	7,730.00	5,148.00	5,148.00	130.66	88.92	47.47	-5,536.63	3,052.99	6,861.00	6,677.36	183.64	37.361		
11,700.00	7,730.00	5,148.00	5,148.00	130.51	88.92	47.47	-5,536.63	3,052.99	6,777.74	6,594.42	183.32	36.972		
11,800.00	7,730.00	5,148.00	5,148.00	130.37	88.92	47.47	-5,536.63	3,052.99	6,694.94	6,511.95	182.99	36.587		
11,900.00	7,730.00	5,148.00	5,148.00	130.24	88.92	47.47	-5,536.63	3,052.99	6,612.61	6,429.96	182.64	36.205		
12,000.00	7,730.00	5,148.00	5,148.00	130.13	88.92	47.47	-5,536.63	3,052.99	6,530.77	6,348.48	182.29	35.826		
12,100.00	7,730.00	5,148.00	5,148.00	130.02	88.92	47.47	-5,536.63	3,052.99	6,449.45	6,267.53	181.93	35.451		
12,200.00	7,730.00	5,148.00	5,148.00	129.93	88.92	47.47	-5,536.63	3,052.99	6,368.66	6,187.11	181.55	35.079		
12,300.00	7,730.00	5,148.00	5,148.00	129.85	88.92	47.47	-5,536.63	3,052.99	6,288.42	6,107.26	181.16	34.711		
12,400.00	7,730.00	5,148.00	5,148.00	129.77	88.92	47.47	-5,536.63	3,052.99	6,208.76	6,027.99	180.77	34.347		
12,500.00	7,730.00	5,148.00	5,148.00	129.71	88.92	47.47	-5,536.63	3,052.99	6,129.69	5,949.33	180.36	33.987		
12,600.00	7,730.00	5,148.00	5,148.00	129.66	88.92	47.47	-5,536.63	3,052.99	6,051.24	5,871.31	179.93	33.631		
12,700.00	7,730.00	5,148.00	5,148.00	129.63	88.92	47.47	-5,536.63	3,052.99	5,973.44	5,793.94	179.50	33.279		
12,800.00	7,730.00	5,148.00	5,148.00	129.60	88.92	47.47	-5,536.63	3,052.99	5,896.30	5,717.25	179.05	32.931		
12,900.00	7,730.00	5,148.00	5,148.00	129.59	88.92	47.47	-5,536.63	3,052.99	5,819.86	5,641.27	178.59	32.589		
13,000.00	7,730.00	5,148.00	5,148.00	129.59	88.92	47.47	-5,536.63	3,052.99	5,744.14	5,566.03	178.11	32.250		
13,100.00	7,730.00	5,148.00	5,148.00	129.60	88.92	47.47	-5,536.63	3,052.99	5,669.18	5,491.56	177.62	31.917		
13,200.00	7,730.00	5,148.00	5,148.00	129.63	88.92	47.47	-5,536.63	3,052.99	5,595.00	5,417.88	177.12	31.589		
13,300.00	7,730.00	5,148.00	5,148.00	129.66	88.92	47.47	-5,536.63	3,052.99	5,521.63	5,345.04	176.60	31.267		
13,400.00	7,730.00	5,148.00	5,148.00	129.72	88.92	47.47	-5,536.63	3,052.99	5,449.12	5,273.05	176.07	30.949		
13,500.00	7,730.00	5,148.00	5,148.00	129.78	88.92	47.47	-5,536.63	3,052.99	5,377.48	5,201.96	175.52	30.638		
13,600.00	7,730.00	5,148.00	5,148.00	129.86	88.92	47.47	-5,536.63	3,052.99	5,306.76	5,131.80	174.96	30.332		
13,700.00	7,730.00	5,148.00	5,148.00	129.96	88.92	47.47	-5,536.63	3,052.99	5,237.00	5,062.61	174.38	30.032		
13,800.00	7,730.00	5,148.00	5,148.00	130.07	88.92	47.47	-5,536.63	3,052.99	5,168.22	4,994.43	173.79	29.738		
13,900.00	7,730.00	5,148.00	5,148.00	130.19	88.92	47.47	-5,536.63	3,052.99	5,100.49	4,927.30	173.18	29.451		
14,000.00	7,730.00	5,148.00	5,148.00	130.33	88.92	47.47	-5,536.63	3,052.99	5,033.82	4,861.26	172.56	29.171		
14,100.00	7,730.00	5,148.00	5,148.00	130.49	88.92	47.47	-5,536.63	3,052.99	4,968.28	4,796.35	171.93	28.897		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,148.00	5,148.00	130.67	88.92	47.47	-5,536.63	3,052.99	4,903.90	4,732.61	171.28	28.630		
14,300.00	7,730.00	5,148.00	5,148.00	130.86	88.92	47.47	-5,536.63	3,052.99	4,840.73	4,670.10	170.62	28.371		
14,400.00	7,730.00	5,148.00	5,148.00	131.07	88.92	47.47	-5,536.63	3,052.99	4,778.81	4,608.86	169.95	28.118		
14,500.00	7,730.00	5,148.00	5,148.00	131.30	88.92	47.47	-5,536.63	3,052.99	4,718.21	4,548.94	169.27	27.874		
14,600.00	7,730.00	5,148.00	5,148.00	131.55	88.92	47.47	-5,536.63	3,052.99	4,658.96	4,490.38	168.58	27.637		
14,700.00	7,730.00	5,148.00	5,148.00	131.82	88.92	47.47	-5,536.63	3,052.99	4,601.12	4,433.24	167.88	27.408		
14,800.00	7,730.00	5,148.00	5,148.00	132.11	88.92	47.47	-5,536.63	3,052.99	4,544.75	4,377.58	167.17	27.187		
14,900.00	7,730.00	5,148.00	5,148.00	132.42	88.92	47.47	-5,536.63	3,052.99	4,489.89	4,323.44	166.45	26.974		
15,000.00	7,730.00	5,148.00	5,148.00	132.75	88.92	47.47	-5,536.63	3,052.99	4,436.62	4,270.88	165.74	26.769		
15,100.00	7,730.00	5,148.00	5,148.00	133.10	88.92	47.47	-5,536.63	3,052.99	4,384.97	4,219.96	165.02	26.573		
15,200.00	7,730.00	5,148.00	5,148.00	133.48	88.92	47.47	-5,536.63	3,052.99	4,335.02	4,170.72	164.30	26.385		
15,300.00	7,730.00	5,148.00	5,148.00	133.88	88.92	47.47	-5,536.63	3,052.99	4,286.82	4,123.24	163.58	26.206		
15,400.00	7,730.00	5,148.00	5,148.00	134.31	88.92	47.47	-5,536.63	3,052.99	4,240.43	4,077.55	162.88	26.035		
15,500.00	7,730.00	5,148.00	5,148.00	134.76	88.92	47.47	-5,536.63	3,052.99	4,195.91	4,033.73	162.18	25.872		
15,600.00	7,730.00	5,148.00	5,148.00	135.23	88.92	47.47	-5,536.63	3,052.99	4,153.32	3,991.83	161.49	25.719		
15,700.00	7,730.00	5,148.00	5,148.00	135.73	88.92	47.47	-5,536.63	3,052.99	4,112.72	3,951.90	160.82	25.573		
15,800.00	7,730.00	5,148.00	5,148.00	136.26	88.92	47.47	-5,536.63	3,052.99	4,074.18	3,914.00	160.18	25.436		
15,900.00	7,730.00	5,148.00	5,148.00	136.81	88.92	47.47	-5,536.63	3,052.99	4,037.74	3,878.19	159.55	25.307		
16,000.00	7,730.00	5,148.00	5,148.00	137.39	88.92	47.47	-5,536.63	3,052.99	4,003.47	3,844.51	158.96	25.186		
16,100.00	7,730.00	5,148.00	5,148.00	138.00	88.92	47.47	-5,536.63	3,052.99	3,971.42	3,813.02	158.40	25.073		
16,200.00	7,730.00	5,148.00	5,148.00	138.63	88.92	47.47	-5,536.63	3,052.99	3,941.65	3,783.77	157.87	24.967		
16,300.00	7,730.00	5,148.00	5,148.00	139.30	88.92	47.47	-5,536.63	3,052.99	3,914.21	3,756.81	157.39	24.869		
16,400.00	7,730.00	5,148.00	5,148.00	139.99	88.92	47.47	-5,536.63	3,052.99	3,889.14	3,732.19	156.96	24.778		
16,500.00	7,730.00	5,148.00	5,148.00	140.70	88.92	47.47	-5,536.63	3,052.99	3,866.50	3,709.93	156.57	24.695		
16,600.00	7,730.00	5,148.00	5,148.00	141.45	88.92	47.47	-5,536.63	3,052.99	3,846.33	3,690.09	156.24	24.618		
16,700.00	7,730.00	5,148.00	5,148.00	142.22	88.92	47.47	-5,536.63	3,052.99	3,828.67	3,672.70	155.97	24.548		
16,800.00	7,730.00	5,148.00	5,148.00	143.03	88.92	47.47	-5,536.63	3,052.99	3,813.54	3,657.79	155.75	24.484		
16,900.00	7,730.00	5,148.00	5,148.00	143.86	88.92	47.47	-5,536.63	3,052.99	3,800.99	3,645.38	155.60	24.427		
17,000.00	7,730.00	5,148.00	5,148.00	144.71	88.92	47.47	-5,536.63	3,052.99	3,791.03	3,635.51	155.52	24.376		
17,100.00	7,730.00	5,148.00	5,148.00	145.60	88.92	47.47	-5,536.63	3,052.99	3,783.70	3,628.19	155.50	24.332		
17,200.00	7,730.00	5,148.00	5,148.00	146.51	88.92	47.47	-5,536.63	3,052.99	3,778.99	3,623.44	155.56	24.294		
17,300.00	7,730.00	5,148.00	5,148.00	147.44	88.92	47.47	-5,536.63	3,052.99	3,776.93	3,621.25	155.68	24.262		
17,327.91	7,730.00	5,148.00	5,148.00	147.71	88.92	47.47	-5,536.63	3,052.99	3,776.83	3,621.10	155.72	24.254 CC, ES		
17,400.00	7,730.00	5,148.00	5,148.00	148.40	88.92	47.47	-5,536.63	3,052.99	3,777.51	3,621.65	155.86	24.236		
17,500.00	7,730.00	5,148.00	5,148.00	149.39	88.92	47.47	-5,536.63	3,052.99	3,780.74	3,624.63	156.12	24.217		
17,600.00	7,730.00	5,148.00	5,148.00	150.40	88.92	47.47	-5,536.63	3,052.99	3,786.61	3,630.17	156.44	24.205		
17,700.00	7,730.00	5,148.00	5,148.00	151.44	88.92	47.47	-5,536.63	3,052.99	3,795.11	3,638.29	156.83	24.200 SF		
17,800.00	7,730.00	5,148.00	5,148.00	152.50	88.92	47.47	-5,536.63	3,052.99	3,806.22	3,648.95	157.27	24.202		
17,900.00	7,730.00	5,148.00	5,148.00	153.58	88.92	47.47	-5,536.63	3,052.99	3,819.91	3,662.14	157.77	24.211		
18,000.00	7,730.00	5,148.00	5,148.00	154.68	88.92	47.47	-5,536.63	3,052.99	3,836.16	3,677.83	158.33	24.229		
18,100.00	7,730.00	5,148.00	5,148.00	155.80	88.92	47.47	-5,536.63	3,052.99	3,854.94	3,696.00	158.94	24.255		
18,200.00	7,730.00	5,148.00	5,148.00	156.95	88.92	47.47	-5,536.63	3,052.99	3,876.20	3,716.62	159.59	24.289		
18,300.00	7,730.00	5,148.00	5,148.00	158.11	88.92	47.47	-5,536.63	3,052.99	3,899.92	3,739.64	160.28	24.332		
18,400.00	7,730.00	5,148.00	5,148.00	159.30	88.92	47.47	-5,536.63	3,052.99	3,926.04	3,765.04	161.01	24.385		
18,500.00	7,730.00	5,148.00	5,148.00	160.50	88.92	47.47	-5,536.63	3,052.99	3,954.52	3,792.76	161.76	24.446		
18,600.00	7,730.00	5,148.00	5,148.00	161.72	88.92	47.47	-5,536.63	3,052.99	3,985.30	3,822.75	162.55	24.518		
18,700.00	7,730.00	5,148.00	5,148.00	162.96	88.92	47.47	-5,536.63	3,052.99	4,018.34	3,854.98	163.36	24.599		
18,800.00	7,730.00	5,148.00	5,148.00	164.21	88.92	47.47	-5,536.63	3,052.99	4,053.58	3,889.39	164.18	24.690		
18,900.00	7,730.00	5,148.00	5,148.00	165.48	88.92	47.47	-5,536.63	3,052.99	4,090.95	3,925.93	165.02	24.791		
19,000.00	7,730.00	5,148.00	5,148.00	166.76	88.92	47.47	-5,536.63	3,052.99	4,130.41	3,964.55	165.87	24.902		
19,100.00	7,730.00	5,148.00	5,148.00	168.06	88.92	47.47	-5,536.63	3,052.99	4,171.90	4,005.18	166.72	25.023		
19,200.00	7,730.00	5,148.00	5,148.00	169.38	88.92	47.47	-5,536.63	3,052.99	4,215.35	4,047.77	167.57	25.155		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,148.00	5,148.00	170.70	88.92	47.47	-5,536.63	3,052.99	4,260.70	4,092.27	168.43	25.297	
19,400.00	7,730.00	5,148.00	5,148.00	172.04	88.92	47.47	-5,536.63	3,052.99	4,307.90	4,138.62	169.28	25.448	
19,500.00	7,730.00	5,148.00	5,148.00	173.40	88.92	47.47	-5,536.63	3,052.99	4,356.88	4,186.76	170.12	25.610	
19,600.00	7,730.00	5,148.00	5,148.00	174.76	88.92	47.47	-5,536.63	3,052.99	4,407.59	4,236.63	170.96	25.782	
19,700.00	7,730.00	5,148.00	5,148.00	176.14	88.92	47.47	-5,536.63	3,052.99	4,459.96	4,288.18	171.78	25.963	
19,800.00	7,730.00	5,148.00	5,148.00	177.52	88.92	47.47	-5,536.63	3,052.99	4,513.94	4,341.34	172.60	26.153	
19,900.00	7,730.00	5,148.00	5,148.00	178.92	88.92	47.47	-5,536.63	3,052.99	4,569.47	4,396.08	173.39	26.353	
20,000.00	7,730.00	5,148.00	5,148.00	180.33	88.92	47.47	-5,536.63	3,052.99	4,626.50	4,452.32	174.18	26.562	
20,100.00	7,730.00	5,148.00	5,148.00	181.75	88.92	47.47	-5,536.63	3,052.99	4,684.97	4,510.02	174.95	26.780	
20,184.95	7,730.00	5,148.00	5,148.00	182.96	88.92	47.47	-5,536.63	3,052.99	4,735.73	4,560.15	175.58	26.971	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	147.70	-6,841.69	4,324.43	8,093.82					
100.00	100.00	78.00	78.00	0.13	0.65	147.70	-6,841.69	4,324.43	8,093.79	8,093.00	0.78	N/A		
200.00	199.98	177.98	177.98	0.49	2.19	77.27	-6,841.69	4,324.43	8,093.40	8,090.72	2.68	3,019.830		
300.00	299.84	277.84	277.84	0.86	3.93	77.33	-6,841.69	4,324.43	8,092.25	8,087.46	4.79	1,691.006		
400.00	399.45	377.45	377.45	1.23	5.67	77.43	-6,841.69	4,324.43	8,090.34	8,083.44	6.90	1,172.467		
500.00	498.70	476.70	476.70	1.63	7.40	77.56	-6,841.69	4,324.43	8,087.68	8,078.65	9.03	895.878		
600.00	597.47	575.47	575.47	2.05	9.13	77.73	-6,841.69	4,324.43	8,084.29	8,073.12	11.17	723.659		
700.00	695.62	673.62	673.62	2.51	10.84	77.94	-6,841.69	4,324.43	8,080.20	8,066.87	13.34	605.931		
800.00	793.06	771.06	771.06	3.00	12.54	78.19	-6,841.69	4,324.43	8,075.43	8,059.91	15.52	520.244		
900.00	889.64	867.64	867.64	3.53	14.23	78.47	-6,841.69	4,324.43	8,070.02	8,052.28	17.74	455.007		
1,000.00	985.27	963.27	963.27	4.12	15.90	78.78	-6,841.69	4,324.43	8,064.00	8,044.02	19.98	403.626		
1,100.00	1,079.82	1,057.82	1,057.82	4.75	17.55	79.13	-6,841.69	4,324.43	8,057.42	8,035.17	22.25	362.079		
1,200.00	1,173.17	1,151.17	1,151.17	5.44	19.18	79.50	-6,841.69	4,324.43	8,050.32	8,025.76	24.56	327.767		
1,300.00	1,265.21	1,243.21	1,243.21	6.18	20.78	79.90	-6,841.69	4,324.43	8,042.76	8,015.85	26.90	298.941		
1,400.00	1,355.84	1,333.84	1,333.84	6.99	22.36	80.33	-6,841.69	4,324.43	8,034.78	8,005.50	29.28	274.376		
1,500.00	1,444.94	1,422.94	1,422.94	7.87	23.92	80.78	-6,841.69	4,324.43	8,026.45	7,994.75	31.70	253.191		
1,600.00	1,532.39	1,510.39	1,510.39	8.80	25.45	81.25	-6,841.69	4,324.43	8,017.83	7,983.67	34.16	234.735		
1,700.00	1,618.11	1,603.89	1,596.11	9.81	27.08	81.74	-6,841.69	4,324.43	8,008.98	7,972.19	36.79	217.709		
1,800.00	1,701.97	1,679.97	1,679.97	10.89	28.40	82.25	-6,841.69	4,324.43	7,999.98	7,960.79	39.19	204.157		
1,900.00	1,783.88	1,761.88	1,761.88	12.04	29.83	82.76	-6,841.69	4,324.43	7,990.88	7,949.12	41.76	191.362		
2,000.00	1,863.74	1,841.74	1,841.74	13.26	31.23	83.29	-6,841.69	4,324.43	7,981.77	7,937.40	44.37	179.896		
2,100.00	1,941.45	1,919.45	1,919.45	14.55	32.58	83.82	-6,841.69	4,324.43	7,972.72	7,925.70	47.02	169.570		
2,200.00	2,016.92	2,005.08	1,994.92	15.92	34.08	84.35	-6,841.69	4,324.43	7,963.80	7,913.92	49.88	159.660		
2,292.11	2,084.36	2,062.36	2,062.36	17.25	35.08	84.84	-6,841.69	4,324.43	7,955.77	7,903.57	52.21	152.393		
2,300.00	2,090.06	2,068.06	2,068.06	17.36	35.18	84.87	-6,841.69	4,324.43	7,955.10	7,902.68	52.42	151.753		
2,400.00	2,162.18	2,140.18	2,140.18	18.84	36.44	85.23	-6,841.69	4,324.43	7,946.84	7,891.68	55.16	144.059		
2,500.00	2,234.31	2,212.31	2,212.31	20.33	37.70	85.59	-6,841.69	4,324.43	7,939.18	7,881.26	57.92	137.075		
2,600.00	2,306.43	2,284.43	2,284.43	21.83	38.95	85.95	-6,841.69	4,324.43	7,932.12	7,871.44	60.68	130.714		
2,700.00	2,378.56	2,356.56	2,356.56	23.33	40.21	86.31	-6,841.69	4,324.43	7,925.66	7,862.20	63.46	124.901		
2,800.00	2,450.68	2,428.68	2,428.68	24.84	41.47	86.68	-6,841.69	4,324.43	7,919.80	7,853.56	66.23	119.572		
2,900.00	2,522.81	2,500.81	2,500.81	26.36	42.73	87.04	-6,841.69	4,324.43	7,914.54	7,845.52	69.02	114.673		
3,000.00	2,594.93	2,572.93	2,572.93	27.88	43.99	87.40	-6,841.69	4,324.43	7,909.88	7,838.07	71.81	110.155		
3,100.00	2,667.06	2,645.06	2,645.06	29.40	45.25	87.76	-6,841.69	4,324.43	7,905.83	7,831.23	74.60	105.979		
3,200.00	2,739.18	2,717.18	2,717.18	30.92	46.51	88.12	-6,841.69	4,324.43	7,902.38	7,824.99	77.39	102.109		
3,300.00	2,811.31	2,789.31	2,789.31	32.45	47.77	88.48	-6,841.69	4,324.43	7,899.54	7,819.35	80.19	98.514		
3,400.00	2,883.43	2,861.43	2,861.43	33.98	49.03	88.85	-6,841.69	4,324.43	7,897.30	7,814.32	82.98	95.168		
3,500.00	2,955.56	2,933.56	2,933.56	35.51	50.28	89.21	-6,841.69	4,324.43	7,895.68	7,809.90	85.78	92.046		
3,600.00	3,027.68	3,005.68	3,005.68	37.04	51.54	89.57	-6,841.69	4,324.43	7,894.66	7,806.08	88.58	89.128		
3,700.00	3,099.81	3,077.81	3,077.81	38.57	52.80	89.94	-6,841.69	4,324.43	7,894.24	7,802.87	91.37	86.397		
3,717.91	3,112.73	3,109.27	3,090.73	38.85	53.35	90.00	-6,841.69	4,324.43	7,894.23	7,802.04	92.20	85.624		
3,800.00	3,171.93	3,149.93	3,149.93	40.11	54.06	90.30	-6,841.69	4,324.43	7,894.44	7,800.27	94.17	83.835		
3,900.00	3,244.06	3,222.06	3,222.06	41.64	55.32	90.66	-6,841.69	4,324.43	7,895.24	7,798.28	96.96	81.428		
4,000.00	3,316.18	3,305.82	3,294.18	43.18	56.78	91.02	-6,841.69	4,324.43	7,896.65	7,796.70	99.95	79.003		
4,100.00	3,388.31	3,366.31	3,366.31	44.71	57.84	91.39	-6,841.69	4,324.43	7,898.67	7,796.13	102.54	77.031		
4,200.00	3,460.43	3,438.43	3,438.43	46.25	59.10	91.75	-6,841.69	4,324.43	7,901.29	7,795.97	105.32	75.019		
4,300.00	3,532.56	3,510.56	3,510.56	47.79	60.35	92.11	-6,841.69	4,324.43	7,904.52	7,796.42	108.11	73.118		
4,400.00	3,604.68	3,582.68	3,582.68	49.33	61.61	92.47	-6,841.69	4,324.43	7,908.36	7,797.48	110.88	71.321		
4,500.00	3,676.81	3,654.81	3,654.81	50.87	62.87	92.83	-6,841.69	4,324.43	7,912.80	7,799.14	113.66	69.619		
4,600.00	3,748.93	3,726.93	3,726.93	52.41	64.13	93.20	-6,841.69	4,324.43	7,917.84	7,801.42	116.43	68.006		
4,700.00	3,821.06	3,800.94	3,799.06	53.95	65.42	93.56	-6,841.69	4,324.43	7,923.49	7,804.26	119.23	66.457		
4,800.00	3,893.18	3,871.18	3,871.18	55.49	66.65	93.92	-6,841.69	4,324.43	7,929.74	7,807.78	121.95	65.022		
4,900.00	3,965.31	3,943.31	3,943.31	57.03	67.91	94.28	-6,841.69	4,324.43	7,936.58	7,811.88	124.71	63.641		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,015.43	4,015.43	58.58	69.17	94.64	-6,841.69	4,324.43	7,944.03	7,816.57	127.46	62.327		
5,100.00	4,109.56	4,087.56	4,087.56	60.12	70.43	95.00	-6,841.69	4,324.43	7,952.07	7,821.87	130.20	61.075		
5,200.00	4,181.68	4,159.68	4,159.68	61.66	71.68	95.36	-6,841.69	4,324.43	7,960.71	7,827.77	132.94	59.883		
5,300.00	4,253.81	4,231.81	4,231.81	63.20	72.94	95.72	-6,841.69	4,324.43	7,969.94	7,834.27	135.67	58.746		
5,400.00	4,325.93	4,303.93	4,303.93	64.75	74.20	96.08	-6,841.69	4,324.43	7,979.75	7,841.36	138.39	57.661		
5,500.00	4,398.06	4,376.06	4,376.06	66.29	75.46	96.43	-6,841.69	4,324.43	7,990.16	7,849.06	141.11	56.625		
5,600.00	4,470.18	4,448.18	4,448.18	67.84	76.72	96.79	-6,841.69	4,324.43	8,001.16	7,857.34	143.81	55.635		
5,700.00	4,542.31	4,520.31	4,520.31	69.38	77.98	97.15	-6,841.69	4,324.43	8,012.73	7,866.22	146.52	54.689		
5,800.00	4,614.43	4,607.57	4,592.43	70.92	79.50	97.51	-6,841.69	4,324.43	8,024.89	7,875.42	149.47	53.688		
5,900.00	4,686.56	4,664.56	4,664.56	72.47	80.50	97.86	-6,841.69	4,324.43	8,037.63	7,885.74	151.89	52.916		
6,000.00	4,758.68	4,736.68	4,736.68	74.01	81.75	98.22	-6,841.69	4,324.43	8,050.94	7,896.37	154.57	52.086		
6,100.00	4,830.81	4,808.81	4,808.81	75.56	83.01	98.57	-6,841.69	4,324.43	8,064.83	7,907.59	157.24	51.291		
6,200.00	4,902.93	4,880.93	4,880.93	77.10	84.27	98.93	-6,841.69	4,324.43	8,079.29	7,919.39	159.90	50.528		
6,300.00	4,975.06	4,953.06	4,953.06	78.65	85.53	99.28	-6,841.69	4,324.43	8,094.31	7,931.76	162.55	49.797		
6,400.00	5,047.18	5,025.18	5,025.18	80.19	86.79	99.63	-6,841.69	4,324.43	8,109.90	7,944.71	165.19	49.095		
6,500.00	5,119.31	5,050.00	5,050.00	81.74	87.22	99.75	-6,841.69	4,324.43	8,126.18	7,959.20	166.98	48.666		
6,600.00	5,191.43	5,050.00	5,050.00	83.28	87.22	99.75	-6,841.69	4,324.43	8,143.62	7,975.31	168.31	48.385		
6,700.00	5,263.56	5,050.00	5,050.00	84.83	87.22	99.75	-6,841.69	4,324.43	8,162.25	7,992.64	169.61	48.122		
6,800.00	5,335.68	5,050.00	5,050.00	86.37	87.22	99.75	-6,841.69	4,324.43	8,182.06	8,011.17	170.90	47.877		
6,900.00	5,407.81	5,050.00	5,050.00	87.92	87.22	99.75	-6,841.69	4,324.43	8,203.05	8,030.89	172.15	47.649		
7,000.00	5,479.93	5,050.00	5,050.00	89.47	87.22	99.75	-6,841.69	4,324.43	8,225.19	8,051.80	173.39	47.438		
7,100.00	5,552.06	5,050.00	5,050.00	91.01	87.22	99.75	-6,841.69	4,324.43	8,248.49	8,073.89	174.60	47.243		
7,200.00	5,624.18	5,050.00	5,050.00	92.56	87.22	99.75	-6,841.69	4,324.43	8,272.93	8,097.15	175.78	47.064		
7,300.00	5,696.31	5,050.00	5,050.00	94.10	87.22	99.75	-6,841.69	4,324.43	8,298.50	8,121.56	176.94	46.900		
7,400.00	5,768.43	5,050.00	5,050.00	95.65	87.22	99.75	-6,841.69	4,324.43	8,325.20	8,147.13	178.07	46.752		
7,500.00	5,840.56	5,050.00	5,050.00	97.20	87.22	99.75	-6,841.69	4,324.43	8,353.01	8,173.83	179.18	46.618		
7,600.00	5,912.68	5,050.00	5,050.00	98.74	87.22	99.75	-6,841.69	4,324.43	8,381.92	8,201.65	180.27	46.498		
7,700.00	5,984.81	5,050.00	5,050.00	100.29	87.22	99.75	-6,841.69	4,324.43	8,411.92	8,230.59	181.32	46.392		
7,800.00	6,056.93	5,050.00	5,050.00	101.84	87.22	99.75	-6,841.69	4,324.43	8,442.99	8,260.63	182.36	46.299		
7,900.00	6,129.06	5,050.00	5,050.00	103.38	87.22	99.75	-6,841.69	4,324.43	8,475.13	8,291.77	183.37	46.219		
8,000.00	6,201.18	5,050.00	5,050.00	104.93	87.22	99.75	-6,841.69	4,324.43	8,508.33	8,323.98	184.35	46.153		
8,100.00	6,273.31	5,050.00	5,050.00	106.48	87.22	99.75	-6,841.69	4,324.43	8,542.57	8,357.26	185.31	46.098		
8,200.00	6,345.43	5,050.00	5,050.00	108.02	87.22	99.75	-6,841.69	4,324.43	8,577.84	8,391.59	186.25	46.056		
8,300.00	6,417.56	5,050.00	5,050.00	109.57	87.22	99.75	-6,841.69	4,324.43	8,614.12	8,426.96	187.16	46.026		
8,400.00	6,489.68	5,050.00	5,050.00	111.12	87.22	99.75	-6,841.69	4,324.43	8,651.41	8,463.36	188.05	46.007		
8,500.00	6,561.81	5,050.00	5,050.00	112.66	87.22	99.75	-6,841.69	4,324.43	8,689.69	8,500.78	188.91	45.999		
8,600.00	6,633.93	5,050.00	5,050.00	114.21	87.22	99.75	-6,841.69	4,324.43	8,728.94	8,539.19	189.75	46.002		
8,700.00	6,706.06	5,050.00	5,050.00	115.76	87.22	99.75	-6,841.69	4,324.43	8,769.16	8,578.59	190.57	46.016		
8,800.00	6,778.18	5,050.00	5,050.00	117.30	87.22	99.75	-6,841.69	4,324.43	8,810.34	8,618.97	191.36	46.039		
8,900.00	6,850.31	5,050.00	5,050.00	118.85	87.22	99.75	-6,841.69	4,324.43	8,852.45	8,660.31	192.14	46.074		
9,000.00	6,922.43	5,050.00	5,050.00	120.40	87.22	99.75	-6,841.69	4,324.43	8,895.48	8,702.59	192.89	46.117		
9,100.00	6,994.56	5,050.00	5,050.00	121.95	87.22	99.75	-6,841.69	4,324.43	8,939.43	8,745.81	193.62	46.171		
9,200.00	7,066.68	5,050.00	5,050.00	123.49	87.22	99.75	-6,841.69	4,324.43	8,984.27	8,789.95	194.32	46.234		
9,300.00	7,138.81	5,050.00	5,050.00	125.04	87.22	99.75	-6,841.69	4,324.43	9,030.00	8,834.99	195.01	46.305		
9,392.50	7,205.52	5,050.00	5,050.00	126.47	87.22	99.75	-6,841.69	4,324.43	9,073.08	8,877.45	195.63	46.380		
9,400.00	7,210.94	5,050.00	5,050.00	126.59	87.22	99.03	-6,841.69	4,324.43	9,076.56	8,880.89	195.68	46.386		
9,450.00	7,247.42	5,050.00	5,050.00	127.35	87.22	93.98	-6,841.69	4,324.43	9,097.65	8,901.65	196.01	46.414		
9,500.00	7,284.35	5,050.00	5,050.00	128.10	87.22	88.68	-6,841.69	4,324.43	9,114.97	8,918.62	196.35	46.422		
9,550.00	7,321.43	5,050.00	5,050.00	128.83	87.22	83.26	-6,841.69	4,324.43	9,128.39	8,931.70	196.69	46.411		
9,600.00	7,358.38	5,050.00	5,050.00	129.52	87.22	77.87	-6,841.69	4,324.43	9,137.84	8,940.82	197.02	46.380		
9,650.00	7,394.93	5,050.00	5,050.00	130.16	87.22	72.65	-6,841.69	4,324.43	9,143.26	8,945.92	197.34	46.333		
9,700.00	7,430.79	5,050.00	5,050.00	130.76	87.22	67.70	-6,841.69	4,324.43	9,144.61	8,946.97	197.64	46.269		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,050.00	5,050.00	131.30	87.22	63.11	-6,841.69	4,324.43	9,141.88	8,943.96	197.92	46.191		
9,800.00	7,499.38	5,050.00	5,050.00	131.78	87.22	58.92	-6,841.69	4,324.43	9,135.09	8,936.93	198.17	46.098		
9,850.00	7,531.58	5,050.00	5,050.00	132.21	87.22	55.15	-6,841.69	4,324.43	9,124.29	8,925.91	198.38	45.993		
9,900.00	7,562.06	5,050.00	5,050.00	132.57	87.22	51.78	-6,841.69	4,324.43	9,109.54	8,910.97	198.57	45.876		
9,950.00	7,590.58	5,050.00	5,050.00	132.87	87.22	48.78	-6,841.69	4,324.43	9,090.94	8,892.21	198.72	45.747		
10,000.00	7,616.93	5,050.00	5,050.00	133.11	87.22	46.13	-6,841.69	4,324.43	9,068.59	8,869.76	198.84	45.608		
10,050.00	7,640.90	5,050.00	5,050.00	133.29	87.22	43.78	-6,841.69	4,324.43	9,042.66	8,843.74	198.92	45.458		
10,100.00	7,662.32	5,050.00	5,050.00	133.42	87.22	41.68	-6,841.69	4,324.43	9,013.30	8,814.33	198.97	45.299		
10,150.00	7,681.01	5,050.00	5,050.00	133.50	87.22	39.80	-6,841.69	4,324.43	8,980.70	8,781.71	199.00	45.130		
10,200.00	7,696.85	5,050.00	5,050.00	133.52	87.22	38.09	-6,841.69	4,324.43	8,945.09	8,746.10	198.99	44.952		
10,250.00	7,709.70	5,050.00	5,050.00	133.51	87.22	36.46	-6,841.69	4,324.43	8,906.69	8,707.72	198.96	44.765		
10,300.00	7,719.47	5,050.00	5,050.00	133.46	87.22	34.85	-6,841.69	4,324.43	8,865.76	8,666.84	198.92	44.570		
10,350.00	7,726.09	5,050.00	5,050.00	133.37	87.22	33.11	-6,841.69	4,324.43	8,822.59	8,623.73	198.86	44.366		
10,400.00	7,729.50	5,050.00	5,050.00	133.26	87.22	31.02	-6,841.69	4,324.43	8,777.46	8,578.67	198.79	44.154		
10,427.79	7,730.00	5,050.00	5,050.00	133.18	87.22	29.56	-6,841.69	4,324.43	8,751.65	8,552.90	198.75	44.033		
10,500.00	7,730.00	5,050.00	5,050.00	132.98	87.22	29.56	-6,841.69	4,324.43	8,684.03	8,485.38	198.64	43.717		
10,600.00	7,730.00	5,050.00	5,050.00	132.72	87.22	29.56	-6,841.69	4,324.43	8,590.49	8,392.00	198.49	43.279		
10,700.00	7,730.00	5,050.00	5,050.00	132.47	87.22	29.56	-6,841.69	4,324.43	8,497.11	8,298.77	198.33	42.842		
10,800.00	7,730.00	5,050.00	5,050.00	132.22	87.22	29.56	-6,841.69	4,324.43	8,403.88	8,205.70	198.17	42.407		
10,900.00	7,730.00	5,050.00	5,050.00	131.99	87.22	29.56	-6,841.69	4,324.43	8,310.80	8,112.79	198.01	41.972		
11,000.00	7,730.00	5,050.00	5,050.00	131.77	87.22	29.56	-6,841.69	4,324.43	8,217.89	8,020.05	197.83	41.539		
11,100.00	7,730.00	5,050.00	5,050.00	131.56	87.22	29.56	-6,841.69	4,324.43	8,125.14	7,927.49	197.66	41.107		
11,200.00	7,730.00	5,050.00	5,050.00	131.36	87.22	29.56	-6,841.69	4,324.43	8,032.57	7,835.10	197.47	40.677		
11,300.00	7,730.00	5,050.00	5,050.00	131.17	87.22	29.56	-6,841.69	4,324.43	7,940.18	7,742.90	197.28	40.247		
11,400.00	7,730.00	5,050.00	5,050.00	130.99	87.22	29.56	-6,841.69	4,324.43	7,847.98	7,650.89	197.09	39.819		
11,500.00	7,730.00	5,050.00	5,050.00	130.82	87.22	29.56	-6,841.69	4,324.43	7,755.97	7,559.08	196.89	39.393		
11,600.00	7,730.00	5,050.00	5,050.00	130.66	87.22	29.56	-6,841.69	4,324.43	7,664.16	7,467.48	196.68	38.968		
11,700.00	7,730.00	5,050.00	5,050.00	130.51	87.22	29.56	-6,841.69	4,324.43	7,572.55	7,376.09	196.46	38.544		
11,800.00	7,730.00	5,050.00	5,050.00	130.37	87.22	29.56	-6,841.69	4,324.43	7,481.16	7,284.92	196.24	38.122		
11,900.00	7,730.00	5,050.00	5,050.00	130.24	87.22	29.56	-6,841.69	4,324.43	7,390.00	7,193.99	196.01	37.702		
12,000.00	7,730.00	5,050.00	5,050.00	130.13	87.22	29.56	-6,841.69	4,324.43	7,299.07	7,103.29	195.77	37.284		
12,100.00	7,730.00	5,050.00	5,050.00	130.02	87.22	29.56	-6,841.69	4,324.43	7,208.37	7,012.85	195.52	36.867		
12,200.00	7,730.00	5,050.00	5,050.00	129.93	87.22	29.56	-6,841.69	4,324.43	7,117.93	6,922.66	195.27	36.452		
12,300.00	7,730.00	5,050.00	5,050.00	129.85	87.22	29.56	-6,841.69	4,324.43	7,027.74	6,832.74	195.00	36.039		
12,400.00	7,730.00	5,050.00	5,050.00	129.77	87.22	29.56	-6,841.69	4,324.43	6,937.83	6,743.10	194.73	35.628		
12,500.00	7,730.00	5,050.00	5,050.00	129.71	87.22	29.56	-6,841.69	4,324.43	6,848.19	6,653.75	194.44	35.220		
12,600.00	7,730.00	5,050.00	5,050.00	129.66	87.22	29.56	-6,841.69	4,324.43	6,758.84	6,564.70	194.15	34.813		
12,700.00	7,730.00	5,050.00	5,050.00	129.63	87.22	29.56	-6,841.69	4,324.43	6,669.80	6,475.96	193.84	34.409		
12,800.00	7,730.00	5,050.00	5,050.00	129.60	87.22	29.56	-6,841.69	4,324.43	6,581.07	6,387.55	193.52	34.007		
12,900.00	7,730.00	5,050.00	5,050.00	129.59	87.22	29.56	-6,841.69	4,324.43	6,492.67	6,299.48	193.19	33.608		
13,000.00	7,730.00	5,050.00	5,050.00	129.59	87.22	29.56	-6,841.69	4,324.43	6,404.61	6,211.77	192.84	33.211		
13,100.00	7,730.00	5,050.00	5,050.00	129.60	87.22	29.56	-6,841.69	4,324.43	6,316.91	6,124.42	192.49	32.817		
13,200.00	7,730.00	5,050.00	5,050.00	129.63	87.22	29.56	-6,841.69	4,324.43	6,229.57	6,037.46	192.12	32.426		
13,300.00	7,730.00	5,050.00	5,050.00	129.66	87.22	29.56	-6,841.69	4,324.43	6,142.63	5,950.90	191.73	32.038		
13,400.00	7,730.00	5,050.00	5,050.00	129.72	87.22	29.56	-6,841.69	4,324.43	6,056.08	5,864.76	191.33	31.653		
13,500.00	7,730.00	5,050.00	5,050.00	129.78	87.22	29.56	-6,841.69	4,324.43	5,969.96	5,779.05	190.91	31.271		
13,600.00	7,730.00	5,050.00	5,050.00	129.86	87.22	29.56	-6,841.69	4,324.43	5,884.27	5,693.80	190.47	30.893		
13,700.00	7,730.00	5,050.00	5,050.00	129.96	87.22	29.56	-6,841.69	4,324.43	5,799.05	5,609.03	190.02	30.518		
13,800.00	7,730.00	5,050.00	5,050.00	130.07	87.22	29.56	-6,841.69	4,324.43	5,714.30	5,524.75	189.55	30.147		
13,900.00	7,730.00	5,050.00	5,050.00	130.19	87.22	29.56	-6,841.69	4,324.43	5,630.05	5,441.00	189.05	29.780		
14,000.00	7,730.00	5,050.00	5,050.00	130.33	87.22	29.56	-6,841.69	4,324.43	5,546.33	5,357.79	188.54	29.417		
14,100.00	7,730.00	5,050.00	5,050.00	130.49	87.22	29.56	-6,841.69	4,324.43	5,463.15	5,275.15	188.01	29.059		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,050.00	5,050.00	130.67	87.22	29.56	-6,841.69	4,324.43	5,380.55	5,193.10	187.45	28.704		
14,300.00	7,730.00	5,050.00	5,050.00	130.86	87.22	29.56	-6,841.69	4,324.43	5,298.54	5,111.68	186.87	28.355		
14,400.00	7,730.00	5,050.00	5,050.00	131.07	87.22	29.56	-6,841.69	4,324.43	5,217.17	5,030.91	186.26	28.010		
14,500.00	7,730.00	5,050.00	5,050.00	131.30	87.22	29.56	-6,841.69	4,324.43	5,136.45	4,950.82	185.63	27.671		
14,600.00	7,730.00	5,050.00	5,050.00	131.55	87.22	29.56	-6,841.69	4,324.43	5,056.42	4,871.45	184.97	27.337		
14,700.00	7,730.00	5,050.00	5,050.00	131.82	87.22	29.56	-6,841.69	4,324.43	4,977.11	4,792.83	184.28	27.008		
14,800.00	7,730.00	5,050.00	5,050.00	132.11	87.22	29.56	-6,841.69	4,324.43	4,898.56	4,715.00	183.56	26.686		
14,900.00	7,730.00	5,050.00	5,050.00	132.42	87.22	29.56	-6,841.69	4,324.43	4,820.81	4,637.99	182.81	26.370		
15,000.00	7,730.00	5,050.00	5,050.00	132.75	87.22	29.56	-6,841.69	4,324.43	4,743.88	4,561.85	182.03	26.061		
15,100.00	7,730.00	5,050.00	5,050.00	133.10	87.22	29.56	-6,841.69	4,324.43	4,667.84	4,486.62	181.22	25.758		
15,200.00	7,730.00	5,050.00	5,050.00	133.48	87.22	29.56	-6,841.69	4,324.43	4,592.71	4,412.34	180.37	25.463		
15,300.00	7,730.00	5,050.00	5,050.00	133.88	87.22	29.56	-6,841.69	4,324.43	4,518.54	4,339.06	179.48	25.175		
15,400.00	7,730.00	5,050.00	5,050.00	134.31	87.22	29.56	-6,841.69	4,324.43	4,445.39	4,266.83	178.56	24.895		
15,500.00	7,730.00	5,050.00	5,050.00	134.76	87.22	29.56	-6,841.69	4,324.43	4,373.30	4,195.70	177.60	24.624		
15,600.00	7,730.00	5,050.00	5,050.00	135.23	87.22	29.56	-6,841.69	4,324.43	4,302.33	4,125.73	176.60	24.362		
15,700.00	7,730.00	5,050.00	5,050.00	135.73	87.22	29.56	-6,841.69	4,324.43	4,232.53	4,056.97	175.56	24.108		
15,800.00	7,730.00	5,050.00	5,050.00	136.26	87.22	29.56	-6,841.69	4,324.43	4,163.96	3,989.48	174.48	23.864		
15,900.00	7,730.00	5,050.00	5,050.00	136.81	87.22	29.56	-6,841.69	4,324.43	4,096.69	3,923.33	173.36	23.631		
16,000.00	7,730.00	5,050.00	5,050.00	137.39	87.22	29.56	-6,841.69	4,324.43	4,030.77	3,858.57	172.20	23.408		
16,100.00	7,730.00	5,050.00	5,050.00	138.00	87.22	29.56	-6,841.69	4,324.43	3,966.28	3,795.29	171.00	23.195		
16,200.00	7,730.00	5,050.00	5,050.00	138.63	87.22	29.56	-6,841.69	4,324.43	3,903.29	3,733.54	169.75	22.994		
16,300.00	7,730.00	5,050.00	5,050.00	139.30	87.22	29.56	-6,841.69	4,324.43	3,841.87	3,673.40	168.46	22.805		
16,400.00	7,730.00	5,050.00	5,050.00	139.99	87.22	29.56	-6,841.69	4,324.43	3,782.09	3,614.95	167.14	22.628		
16,500.00	7,730.00	5,050.00	5,050.00	140.70	87.22	29.56	-6,841.69	4,324.43	3,724.04	3,558.26	165.78	22.464		
16,600.00	7,730.00	5,050.00	5,050.00	141.45	87.22	29.56	-6,841.69	4,324.43	3,667.80	3,503.41	164.38	22.312		
16,700.00	7,730.00	5,050.00	5,050.00	142.22	87.22	29.56	-6,841.69	4,324.43	3,613.45	3,450.49	162.96	22.174		
16,800.00	7,730.00	5,050.00	5,050.00	143.03	87.22	29.56	-6,841.69	4,324.43	3,561.08	3,399.57	161.50	22.050		
16,900.00	7,730.00	5,050.00	5,050.00	143.86	87.22	29.56	-6,841.69	4,324.43	3,510.78	3,350.75	160.03	21.938		
17,000.00	7,730.00	5,050.00	5,050.00	144.71	87.22	29.56	-6,841.69	4,324.43	3,462.63	3,304.09	158.54	21.841		
17,100.00	7,730.00	5,050.00	5,050.00	145.60	87.22	29.56	-6,841.69	4,324.43	3,416.74	3,259.69	157.04	21.757		
17,200.00	7,730.00	5,050.00	5,050.00	146.51	87.22	29.56	-6,841.69	4,324.43	3,373.18	3,217.64	155.54	21.686		
17,300.00	7,730.00	5,050.00	5,050.00	147.44	87.22	29.56	-6,841.69	4,324.43	3,332.06	3,178.00	154.06	21.629		
17,400.00	7,730.00	5,050.00	5,050.00	148.40	87.22	29.56	-6,841.69	4,324.43	3,293.46	3,140.87	152.59	21.583		
17,500.00	7,730.00	5,050.00	5,050.00	149.39	87.22	29.56	-6,841.69	4,324.43	3,257.48	3,106.31	151.16	21.549		
17,600.00	7,730.00	5,050.00	5,050.00	150.40	87.22	29.56	-6,841.69	4,324.43	3,224.19	3,074.41	149.78	21.526		
17,700.00	7,730.00	5,050.00	5,050.00	151.44	87.22	29.56	-6,841.69	4,324.43	3,193.70	3,045.23	148.46	21.512		
17,800.00	7,730.00	5,050.00	5,050.00	152.50	87.22	29.56	-6,841.69	4,324.43	3,166.06	3,018.84	147.22	21.506		
17,900.00	7,730.00	5,050.00	5,050.00	153.58	87.22	29.56	-6,841.69	4,324.43	3,141.37	2,995.30	146.07	21.505		
18,000.00	7,730.00	5,050.00	5,050.00	154.68	87.22	29.56	-6,841.69	4,324.43	3,119.70	2,974.66	145.04	21.509		
18,100.00	7,730.00	5,050.00	5,050.00	155.80	87.22	29.56	-6,841.69	4,324.43	3,101.09	2,956.96	144.13	21.516		
18,200.00	7,730.00	5,050.00	5,050.00	156.95	87.22	29.56	-6,841.69	4,324.43	3,085.62	2,942.25	143.36	21.523		
18,300.00	7,730.00	5,050.00	5,050.00	158.11	87.22	29.56	-6,841.69	4,324.43	3,073.32	2,930.57	142.75	21.529		
18,400.00	7,730.00	5,050.00	5,050.00	159.30	87.22	29.56	-6,841.69	4,324.43	3,064.24	2,921.93	142.31	21.532		
18,500.00	7,730.00	5,050.00	5,050.00	160.50	87.22	29.56	-6,841.69	4,324.43	3,058.41	2,916.37	142.04	21.532		
18,600.00	7,730.00	5,050.00	5,050.00	161.72	87.22	29.56	-6,841.69	4,324.43	3,055.83	2,913.88	141.95	21.527		
18,628.66	7,730.00	5,050.00	5,050.00	162.07	87.22	29.56	-6,841.69	4,324.43	3,055.70	2,913.74	141.96	21.525 CC, ES		
18,700.00	7,730.00	5,050.00	5,050.00	162.96	87.22	29.56	-6,841.69	4,324.43	3,056.53	2,914.48	142.05	21.517		
18,800.00	7,730.00	5,050.00	5,050.00	164.21	87.22	29.56	-6,841.69	4,324.43	3,060.50	2,918.16	142.33	21.502		
18,900.00	7,730.00	5,050.00	5,050.00	165.48	87.22	29.56	-6,841.69	4,324.43	3,067.72	2,924.93	142.79	21.483		
19,000.00	7,730.00	5,050.00	5,050.00	166.76	87.22	29.56	-6,841.69	4,324.43	3,078.18	2,934.75	143.43	21.462		
19,100.00	7,730.00	5,050.00	5,050.00	168.06	87.22	29.56	-6,841.69	4,324.43	3,091.84	2,947.62	144.22	21.439		
19,200.00	7,730.00	5,050.00	5,050.00	169.38	87.22	29.56	-6,841.69	4,324.43	3,108.65	2,963.50	145.16	21.416		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,050.00	5,050.00	170.70	87.22	29.56	-6,841.69	4,324.43	3,128.58	2,982.35	146.23	21.395	
19,400.00	7,730.00	5,050.00	5,050.00	172.04	87.22	29.56	-6,841.69	4,324.43	3,151.55	3,004.14	147.41	21.379	
19,500.00	7,730.00	5,050.00	5,050.00	173.40	87.22	29.56	-6,841.69	4,324.43	3,177.50	3,028.81	148.70	21.369	
19,600.00	7,730.00	5,050.00	5,050.00	174.76	87.22	29.56	-6,841.69	4,324.43	3,206.37	3,056.30	150.07	21.366 SF	
19,700.00	7,730.00	5,050.00	5,050.00	176.14	87.22	29.56	-6,841.69	4,324.43	3,238.07	3,086.56	151.51	21.373	
19,800.00	7,730.00	5,050.00	5,050.00	177.52	87.22	29.56	-6,841.69	4,324.43	3,272.51	3,119.52	152.99	21.390	
19,900.00	7,730.00	5,050.00	5,050.00	178.92	87.22	29.56	-6,841.69	4,324.43	3,309.62	3,155.11	154.52	21.419	
20,000.00	7,730.00	5,050.00	5,050.00	180.33	87.22	29.56	-6,841.69	4,324.43	3,349.31	3,193.24	156.07	21.461	
20,100.00	7,730.00	5,050.00	5,050.00	181.75	87.22	29.56	-6,841.69	4,324.43	3,391.48	3,233.85	157.63	21.515	
20,184.95	7,730.00	5,050.00	5,050.00	182.96	87.22	29.56	-6,841.69	4,324.43	3,429.19	3,270.23	158.96	21.573	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	152.21	-8,181.90	4,312.34	9,248.83					
100.00	100.00	69.00	69.00	0.13	0.57	152.21	-8,181.90	4,312.34	9,248.77	9,248.07	0.71	N/A		
200.00	199.98	168.98	168.98	0.49	2.03	81.77	-8,181.90	4,312.34	9,248.52	9,246.00	2.52	3,665.703		
300.00	299.84	268.84	268.84	0.86	3.78	81.82	-8,181.90	4,312.34	9,247.78	9,243.15	4.63	1,998.046		
400.00	399.45	368.45	368.45	1.23	5.51	81.89	-8,181.90	4,312.34	9,246.54	9,239.79	6.74	1,371.138		
500.00	498.70	467.70	467.70	1.63	7.25	82.00	-8,181.90	4,312.34	9,244.82	9,235.94	8.87	1,042.008		
600.00	597.47	566.47	566.47	2.05	8.97	82.14	-8,181.90	4,312.34	9,242.63	9,231.61	11.02	838.899		
700.00	695.62	664.62	664.62	2.51	10.68	82.31	-8,181.90	4,312.34	9,240.00	9,226.82	13.18	700.860		
800.00	793.06	762.06	762.06	3.00	12.38	82.50	-8,181.90	4,312.34	9,236.95	9,221.58	15.37	600.808		
900.00	889.64	858.64	858.64	3.53	14.07	82.73	-8,181.90	4,312.34	9,233.51	9,215.92	17.59	524.873		
1,000.00	985.27	954.27	954.27	4.12	15.74	82.97	-8,181.90	4,312.34	9,229.71	9,209.87	19.84	465.220		
1,100.00	1,079.82	1,048.82	1,048.82	4.75	17.39	83.25	-8,181.90	4,312.34	9,225.58	9,203.46	22.12	417.085		
1,200.00	1,173.17	1,142.17	1,142.17	5.44	19.02	83.54	-8,181.90	4,312.34	9,221.17	9,196.74	24.43	377.406		
1,300.00	1,265.21	1,234.21	1,234.21	6.18	20.62	83.86	-8,181.90	4,312.34	9,216.51	9,189.73	26.78	344.125		
1,400.00	1,355.84	1,324.84	1,324.84	6.99	22.21	84.19	-8,181.90	4,312.34	9,211.66	9,182.49	29.17	315.804		
1,500.00	1,444.94	1,413.94	1,413.94	7.87	23.76	84.54	-8,181.90	4,312.34	9,206.67	9,175.07	31.59	291.414		
1,600.00	1,532.39	1,501.39	1,501.39	8.80	25.29	84.90	-8,181.90	4,312.34	9,201.57	9,167.52	34.06	270.191		
1,700.00	1,618.11	1,587.11	1,587.11	9.81	26.78	85.28	-8,181.90	4,312.34	9,196.44	9,159.88	36.56	251.563		
1,800.00	1,701.97	1,670.97	1,670.97	10.89	28.25	85.67	-8,181.90	4,312.34	9,191.32	9,152.23	39.10	235.089		
1,900.00	1,783.88	1,752.88	1,752.88	12.04	29.68	86.06	-8,181.90	4,312.34	9,186.28	9,144.61	41.68	220.424		
2,000.00	1,863.74	1,832.74	1,832.74	13.26	31.07	86.46	-8,181.90	4,312.34	9,181.37	9,137.08	44.29	207.294		
2,100.00	1,941.45	1,910.45	1,910.45	14.55	32.43	86.86	-8,181.90	4,312.34	9,176.66	9,129.71	46.94	195.481		
2,200.00	2,016.92	1,985.92	1,985.92	15.92	33.74	87.25	-8,181.90	4,312.34	9,172.20	9,122.57	49.63	184.805		
2,292.11	2,084.36	2,053.36	2,053.36	17.25	34.92	87.62	-8,181.90	4,312.34	9,168.38	9,116.24	52.14	175.853		
2,300.00	2,090.06	2,059.06	2,059.06	17.36	35.02	87.64	-8,181.90	4,312.34	9,168.06	9,115.71	52.35	175.123		
2,400.00	2,162.18	2,131.18	2,131.18	18.84	36.28	87.96	-8,181.90	4,312.34	9,164.38	9,109.28	55.09	166.339		
2,500.00	2,234.31	2,203.31	2,203.31	20.33	37.54	88.27	-8,181.90	4,312.34	9,161.21	9,103.37	57.85	158.367		
2,600.00	2,306.43	2,275.43	2,275.43	21.83	38.80	88.58	-8,181.90	4,312.34	9,158.57	9,097.96	60.61	151.108		
2,700.00	2,378.56	2,347.56	2,347.56	23.33	40.06	88.89	-8,181.90	4,312.34	9,156.46	9,093.08	63.38	144.475		
2,800.00	2,450.68	2,419.68	2,419.68	24.84	41.32	89.21	-8,181.90	4,312.34	9,154.86	9,088.71	66.15	138.395		
2,900.00	2,522.81	2,508.19	2,491.81	26.36	42.86	89.52	-8,181.90	4,312.34	9,153.79	9,084.58	69.21	132.255		
3,000.00	2,594.93	2,563.93	2,563.93	27.88	43.83	89.83	-8,181.90	4,312.34	9,153.25	9,081.54	71.71	127.648		
3,054.12	2,633.97	2,602.97	2,602.97	28.70	44.51	90.00	-8,181.90	4,312.34	9,153.17	9,079.96	73.21	125.021		
3,100.00	2,667.06	2,636.06	2,636.06	29.40	45.09	90.14	-8,181.90	4,312.34	9,153.22	9,078.74	74.49	122.880		
3,200.00	2,739.18	2,708.18	2,708.18	30.92	46.35	90.46	-8,181.90	4,312.34	9,153.73	9,076.45	77.27	118.461		
3,300.00	2,811.31	2,780.31	2,780.31	32.45	47.61	90.77	-8,181.90	4,312.34	9,154.75	9,074.70	80.06	114.354		
3,400.00	2,883.43	2,852.43	2,852.43	33.98	48.87	91.08	-8,181.90	4,312.34	9,156.30	9,073.46	82.84	110.530		
3,500.00	2,955.56	2,924.56	2,924.56	35.51	50.13	91.39	-8,181.90	4,312.34	9,158.38	9,072.75	85.62	106.961		
3,600.00	3,027.68	3,003.32	2,996.68	37.04	51.50	91.71	-8,181.90	4,312.34	9,160.98	9,072.45	88.52	103.487		
3,700.00	3,099.81	3,068.81	3,068.81	38.57	52.64	92.02	-8,181.90	4,312.34	9,164.10	9,072.91	91.19	100.496		
3,800.00	3,171.93	3,140.93	3,140.93	40.11	53.90	92.33	-8,181.90	4,312.34	9,167.74	9,073.77	93.97	97.562		
3,900.00	3,244.06	3,213.06	3,213.06	41.64	55.16	92.64	-8,181.90	4,312.34	9,171.90	9,075.16	96.75	94.803		
4,000.00	3,316.18	3,285.18	3,285.18	43.18	56.42	92.96	-8,181.90	4,312.34	9,176.59	9,077.07	99.52	92.206		
4,100.00	3,388.31	3,357.31	3,357.31	44.71	57.68	93.27	-8,181.90	4,312.34	9,181.79	9,079.50	102.30	89.758		
4,200.00	3,460.43	3,429.43	3,429.43	46.25	58.94	93.58	-8,181.90	4,312.34	9,187.52	9,082.45	105.07	87.446		
4,300.00	3,532.56	3,501.56	3,501.56	47.79	60.20	93.89	-8,181.90	4,312.34	9,193.76	9,085.93	107.83	85.260		
4,400.00	3,604.68	3,573.68	3,573.68	49.33	61.46	94.20	-8,181.90	4,312.34	9,200.52	9,089.93	110.60	83.191		
4,500.00	3,676.81	3,645.81	3,645.81	50.87	62.72	94.51	-8,181.90	4,312.34	9,207.80	9,094.44	113.36	81.230		
4,600.00	3,748.93	3,717.93	3,717.93	52.41	63.97	94.82	-8,181.90	4,312.34	9,215.59	9,099.48	116.11	79.369		
4,700.00	3,821.06	3,809.94	3,790.06	53.95	65.58	95.13	-8,181.90	4,312.34	9,223.90	9,104.69	119.21	77.376		
4,800.00	3,893.18	3,862.18	3,862.18	55.49	66.49	95.44	-8,181.90	4,312.34	9,232.71	9,111.10	121.61	75.922		
4,900.00	3,965.31	3,934.31	3,934.31	57.03	67.75	95.75	-8,181.90	4,312.34	9,242.04	9,117.69	124.35	74.323		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,006.43	4,006.43	58.58	69.01	96.06	-8,181.90	4,312.34	9,251.88	9,124.79	127.09	72.800		
5,100.00	4,109.56	4,078.56	4,078.56	60.12	70.27	96.37	-8,181.90	4,312.34	9,262.22	9,132.41	129.82	71.348		
5,200.00	4,181.68	4,150.68	4,150.68	61.66	71.53	96.68	-8,181.90	4,312.34	9,273.07	9,140.53	132.54	69.963		
5,300.00	4,253.81	4,222.81	4,222.81	63.20	72.79	96.99	-8,181.90	4,312.34	9,284.43	9,149.16	135.26	68.640		
5,400.00	4,325.93	4,305.07	4,294.93	64.75	74.22	97.30	-8,181.90	4,312.34	9,296.28	9,158.13	138.15	67.289		
5,500.00	4,398.06	4,367.06	4,367.06	66.29	75.30	97.60	-8,181.90	4,312.34	9,308.64	9,167.96	140.68	66.167		
5,600.00	4,470.18	4,439.18	4,439.18	67.84	76.56	97.91	-8,181.90	4,312.34	9,321.50	9,178.11	143.39	65.010		
5,700.00	4,542.31	4,511.31	4,511.31	69.38	77.82	98.22	-8,181.90	4,312.34	9,334.85	9,188.77	146.08	63.902		
5,800.00	4,614.43	4,583.43	4,583.43	70.92	79.08	98.52	-8,181.90	4,312.34	9,348.70	9,199.93	148.77	62.840		
5,900.00	4,686.56	4,655.56	4,655.56	72.47	80.34	98.83	-8,181.90	4,312.34	9,363.03	9,211.58	151.45	61.822		
6,000.00	4,758.68	4,727.68	4,727.68	74.01	81.60	99.13	-8,181.90	4,312.34	9,377.86	9,223.74	154.13	60.845		
6,100.00	4,830.81	4,800.19	4,799.81	75.56	82.86	99.44	-8,181.90	4,312.34	9,393.18	9,236.38	156.80	59.905		
6,200.00	4,902.93	4,871.93	4,871.93	77.10	84.11	99.74	-8,181.90	4,312.34	9,408.98	9,249.52	159.45	59.007		
6,300.00	4,975.06	4,944.06	4,944.06	78.65	85.37	100.05	-8,181.90	4,312.34	9,425.26	9,263.15	162.11	58.142		
6,400.00	5,047.18	5,016.18	5,016.18	80.19	86.63	100.35	-8,181.90	4,312.34	9,442.02	9,277.27	164.75	57.311		
6,500.00	5,119.31	5,048.00	5,048.00	81.74	87.19	100.48	-8,181.90	4,312.34	9,459.35	9,292.67	166.68	56.753		
6,600.00	5,191.43	5,048.00	5,048.00	83.28	87.19	100.48	-8,181.90	4,312.34	9,477.65	9,309.63	168.02	56.408		
6,700.00	5,263.56	5,048.00	5,048.00	84.83	87.19	100.48	-8,181.90	4,312.34	9,496.96	9,327.61	169.35	56.080		
6,800.00	5,335.68	5,048.00	5,048.00	86.37	87.19	100.48	-8,181.90	4,312.34	9,517.29	9,346.63	170.65	55.770		
6,900.00	5,407.81	5,048.00	5,048.00	87.92	87.19	100.48	-8,181.90	4,312.34	9,538.62	9,366.67	171.94	55.476		
7,000.00	5,479.93	5,048.00	5,048.00	89.47	87.19	100.48	-8,181.90	4,312.34	9,560.95	9,387.73	173.21	55.198		
7,100.00	5,552.06	5,048.00	5,048.00	91.01	87.19	100.48	-8,181.90	4,312.34	9,584.27	9,409.81	174.46	54.936		
7,200.00	5,624.18	5,048.00	5,048.00	92.56	87.19	100.48	-8,181.90	4,312.34	9,608.57	9,432.88	175.69	54.690		
7,300.00	5,696.31	5,048.00	5,048.00	94.10	87.19	100.48	-8,181.90	4,312.34	9,633.85	9,456.95	176.90	54.458		
7,400.00	5,768.43	5,048.00	5,048.00	95.65	87.19	100.48	-8,181.90	4,312.34	9,660.10	9,482.01	178.09	54.241		
7,500.00	5,840.56	5,048.00	5,048.00	97.20	87.19	100.48	-8,181.90	4,312.34	9,687.32	9,508.05	179.27	54.039		
7,600.00	5,912.68	5,048.00	5,048.00	98.74	87.19	100.48	-8,181.90	4,312.34	9,715.48	9,535.06	180.42	53.850		
7,700.00	5,984.81	5,048.00	5,048.00	100.29	87.19	100.48	-8,181.90	4,312.34	9,744.59	9,563.04	181.55	53.674		
7,800.00	6,056.93	5,048.00	5,048.00	101.84	87.19	100.48	-8,181.90	4,312.34	9,774.64	9,591.97	182.66	53.512		
7,900.00	6,129.06	5,048.00	5,048.00	103.38	87.19	100.48	-8,181.90	4,312.34	9,805.61	9,621.86	183.76	53.362		
8,000.00	6,201.18	5,048.00	5,048.00	104.93	87.19	100.48	-8,181.90	4,312.34	9,837.50	9,652.68	184.83	53.225		
8,100.00	6,273.31	5,048.00	5,048.00	106.48	87.19	100.48	-8,181.90	4,312.34	9,870.31	9,684.43	185.88	53.100		
8,200.00	6,345.43	5,048.00	5,048.00	108.02	87.19	100.48	-8,181.90	4,312.34	9,904.01	9,717.10	186.92	52.987		
8,300.00	6,417.56	5,048.00	5,048.00	109.57	87.19	100.48	-8,181.90	4,312.34	9,938.61	9,750.68	187.93	52.885		
8,400.00	6,489.68	5,048.00	5,048.00	111.12	87.19	100.48	-8,181.90	4,312.34	9,974.09	9,785.16	188.92	52.794		
10,500.00	7,730.00	5,048.00	5,048.00	132.98	87.19	29.75	-8,181.90	4,312.34	9,949.03	9,746.70	202.33	49.172		
10,600.00	7,730.00	5,048.00	5,048.00	132.72	87.19	29.75	-8,181.90	4,312.34	9,853.90	9,651.64	202.26	48.719		
10,700.00	7,730.00	5,048.00	5,048.00	132.47	87.19	29.75	-8,181.90	4,312.34	9,758.87	9,556.68	202.19	48.267		
10,800.00	7,730.00	5,048.00	5,048.00	132.22	87.19	29.75	-8,181.90	4,312.34	9,663.94	9,461.83	202.11	47.815		
10,900.00	7,730.00	5,048.00	5,048.00	131.99	87.19	29.75	-8,181.90	4,312.34	9,569.12	9,367.08	202.04	47.363		
11,000.00	7,730.00	5,048.00	5,048.00	131.77	87.19	29.75	-8,181.90	4,312.34	9,474.40	9,272.44	201.96	46.913		
11,100.00	7,730.00	5,048.00	5,048.00	131.56	87.19	29.75	-8,181.90	4,312.34	9,379.79	9,177.91	201.88	46.463		
11,200.00	7,730.00	5,048.00	5,048.00	131.36	87.19	29.75	-8,181.90	4,312.34	9,285.29	9,083.50	201.79	46.014		
11,300.00	7,730.00	5,048.00	5,048.00	131.17	87.19	29.75	-8,181.90	4,312.34	9,190.91	8,989.21	201.71	45.566		
11,400.00	7,730.00	5,048.00	5,048.00	130.99	87.19	29.75	-8,181.90	4,312.34	9,096.65	8,895.03	201.62	45.118		
11,500.00	7,730.00	5,048.00	5,048.00	130.82	87.19	29.75	-8,181.90	4,312.34	9,002.52	8,800.99	201.53	44.671		
11,600.00	7,730.00	5,048.00	5,048.00	130.66	87.19	29.75	-8,181.90	4,312.34	8,908.51	8,707.07	201.44	44.225		
11,700.00	7,730.00	5,048.00	5,048.00	130.51	87.19	29.75	-8,181.90	4,312.34	8,814.63	8,613.29	201.34	43.780		
11,800.00	7,730.00	5,048.00	5,048.00	130.37	87.19	29.75	-8,181.90	4,312.34	8,720.89	8,519.65	201.24	43.336		
11,900.00	7,730.00	5,048.00	5,048.00	130.24	87.19	29.75	-8,181.90	4,312.34	8,627.29	8,426.16	201.14	42.892		
12,000.00	7,730.00	5,048.00	5,048.00	130.13	87.19	29.75	-8,181.90	4,312.34	8,533.84	8,332.81	201.03	42.450		
12,100.00	7,730.00	5,048.00	5,048.00	130.02	87.19	29.75	-8,181.90	4,312.34	8,440.54	8,239.61	200.92	42.009		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,200.00	7,730.00	5,048.00	5,048.00	129.93	87.19	29.75	-8,181.90	4,312.34	8,347.39	8,146.57	200.81	41.568		
12,300.00	7,730.00	5,048.00	5,048.00	129.85	87.19	29.75	-8,181.90	4,312.34	8,254.40	8,053.70	200.70	41.129		
12,400.00	7,730.00	5,048.00	5,048.00	129.77	87.19	29.75	-8,181.90	4,312.34	8,161.57	7,961.00	200.58	40.691		
12,500.00	7,730.00	5,048.00	5,048.00	129.71	87.19	29.75	-8,181.90	4,312.34	8,068.92	7,868.47	200.45	40.254		
12,600.00	7,730.00	5,048.00	5,048.00	129.66	87.19	29.75	-8,181.90	4,312.34	7,976.45	7,776.12	200.32	39.818		
12,700.00	7,730.00	5,048.00	5,048.00	129.63	87.19	29.75	-8,181.90	4,312.34	7,884.16	7,683.97	200.19	39.383		
12,800.00	7,730.00	5,048.00	5,048.00	129.60	87.19	29.75	-8,181.90	4,312.34	7,792.06	7,592.00	200.05	38.950		
12,900.00	7,730.00	5,048.00	5,048.00	129.59	87.19	29.75	-8,181.90	4,312.34	7,700.16	7,500.24	199.91	38.518		
13,000.00	7,730.00	5,048.00	5,048.00	129.59	87.19	29.75	-8,181.90	4,312.34	7,608.46	7,408.69	199.77	38.087		
13,100.00	7,730.00	5,048.00	5,048.00	129.60	87.19	29.75	-8,181.90	4,312.34	7,516.97	7,317.36	199.61	37.658		
13,200.00	7,730.00	5,048.00	5,048.00	129.63	87.19	29.75	-8,181.90	4,312.34	7,425.70	7,226.25	199.46	37.230		
13,300.00	7,730.00	5,048.00	5,048.00	129.66	87.19	29.75	-8,181.90	4,312.34	7,334.66	7,135.37	199.29	36.804		
13,400.00	7,730.00	5,048.00	5,048.00	129.72	87.19	29.75	-8,181.90	4,312.34	7,243.86	7,044.74	199.12	36.379		
13,500.00	7,730.00	5,048.00	5,048.00	129.78	87.19	29.75	-8,181.90	4,312.34	7,153.30	6,954.35	198.95	35.956		
13,600.00	7,730.00	5,048.00	5,048.00	129.86	87.19	29.75	-8,181.90	4,312.34	7,063.00	6,864.23	198.76	35.535		
13,700.00	7,730.00	5,048.00	5,048.00	129.96	87.19	29.75	-8,181.90	4,312.34	6,972.96	6,774.39	198.57	35.115		
13,800.00	7,730.00	5,048.00	5,048.00	130.07	87.19	29.75	-8,181.90	4,312.34	6,883.19	6,684.82	198.38	34.698		
13,900.00	7,730.00	5,048.00	5,048.00	130.19	87.19	29.75	-8,181.90	4,312.34	6,793.72	6,595.55	198.17	34.282		
14,000.00	7,730.00	5,048.00	5,048.00	130.33	87.19	29.75	-8,181.90	4,312.34	6,704.54	6,506.58	197.96	33.869		
14,100.00	7,730.00	5,048.00	5,048.00	130.49	87.19	29.75	-8,181.90	4,312.34	6,615.67	6,417.93	197.73	33.457		
14,200.00	7,730.00	5,048.00	5,048.00	130.67	87.19	29.75	-8,181.90	4,312.34	6,527.12	6,329.61	197.50	33.048		
14,300.00	7,730.00	5,048.00	5,048.00	130.86	87.19	29.75	-8,181.90	4,312.34	6,438.90	6,241.64	197.26	32.641		
14,400.00	7,730.00	5,048.00	5,048.00	131.07	87.19	29.75	-8,181.90	4,312.34	6,351.04	6,154.03	197.01	32.237		
14,500.00	7,730.00	5,048.00	5,048.00	131.30	87.19	29.75	-8,181.90	4,312.34	6,263.54	6,066.79	196.75	31.835		
14,600.00	7,730.00	5,048.00	5,048.00	131.55	87.19	29.75	-8,181.90	4,312.34	6,176.42	5,979.94	196.48	31.436		
14,700.00	7,730.00	5,048.00	5,048.00	131.82	87.19	29.75	-8,181.90	4,312.34	6,089.69	5,893.50	196.20	31.039		
14,800.00	7,730.00	5,048.00	5,048.00	132.11	87.19	29.75	-8,181.90	4,312.34	6,003.38	5,807.48	195.90	30.645		
14,900.00	7,730.00	5,048.00	5,048.00	132.42	87.19	29.75	-8,181.90	4,312.34	5,917.50	5,721.91	195.59	30.254		
15,000.00	7,730.00	5,048.00	5,048.00	132.75	87.19	29.75	-8,181.90	4,312.34	5,832.07	5,636.80	195.27	29.867		
15,100.00	7,730.00	5,048.00	5,048.00	133.10	87.19	29.75	-8,181.90	4,312.34	5,747.10	5,552.17	194.93	29.483		
15,200.00	7,730.00	5,048.00	5,048.00	133.48	87.19	29.75	-8,181.90	4,312.34	5,662.63	5,468.05	194.58	29.102		
15,300.00	7,730.00	5,048.00	5,048.00	133.88	87.19	29.75	-8,181.90	4,312.34	5,578.68	5,384.46	194.21	28.724		
15,400.00	7,730.00	5,048.00	5,048.00	134.31	87.19	29.75	-8,181.90	4,312.34	5,495.26	5,301.43	193.83	28.351		
15,500.00	7,730.00	5,048.00	5,048.00	134.76	87.19	29.75	-8,181.90	4,312.34	5,412.40	5,218.97	193.43	27.981		
15,600.00	7,730.00	5,048.00	5,048.00	135.23	87.19	29.75	-8,181.90	4,312.34	5,330.13	5,137.12	193.01	27.615		
15,700.00	7,730.00	5,048.00	5,048.00	135.73	87.19	29.75	-8,181.90	4,312.34	5,248.48	5,055.90	192.58	27.254		
15,800.00	7,730.00	5,048.00	5,048.00	136.26	87.19	29.75	-8,181.90	4,312.34	5,167.47	4,975.35	192.12	26.897		
15,900.00	7,730.00	5,048.00	5,048.00	136.81	87.19	29.75	-8,181.90	4,312.34	5,087.14	4,895.50	191.64	26.545		
16,000.00	7,730.00	5,048.00	5,048.00	137.39	87.19	29.75	-8,181.90	4,312.34	5,007.51	4,816.37	191.14	26.198		
16,100.00	7,730.00	5,048.00	5,048.00	138.00	87.19	29.75	-8,181.90	4,312.34	4,928.63	4,738.01	190.62	25.856		
16,200.00	7,730.00	5,048.00	5,048.00	138.63	87.19	29.75	-8,181.90	4,312.34	4,850.53	4,660.46	190.07	25.520		
16,300.00	7,730.00	5,048.00	5,048.00	139.30	87.19	29.75	-8,181.90	4,312.34	4,773.24	4,583.75	189.50	25.189		
16,400.00	7,730.00	5,048.00	5,048.00	139.99	87.19	29.75	-8,181.90	4,312.34	4,696.81	4,507.92	188.90	24.864		
16,500.00	7,730.00	5,048.00	5,048.00	140.70	87.19	29.75	-8,181.90	4,312.34	4,621.29	4,433.01	188.27	24.546		
16,600.00	7,730.00	5,048.00	5,048.00	141.45	87.19	29.75	-8,181.90	4,312.34	4,546.70	4,359.08	187.62	24.234		
16,700.00	7,730.00	5,048.00	5,048.00	142.22	87.19	29.75	-8,181.90	4,312.34	4,473.11	4,286.18	186.93	23.929		
16,800.00	7,730.00	5,048.00	5,048.00	143.03	87.19	29.75	-8,181.90	4,312.34	4,400.56	4,214.34	186.22	23.631		
16,900.00	7,730.00	5,048.00	5,048.00	143.86	87.19	29.75	-8,181.90	4,312.34	4,329.11	4,143.63	185.47	23.341		
17,000.00	7,730.00	5,048.00	5,048.00	144.71	87.19	29.75	-8,181.90	4,312.34	4,258.80	4,074.11	184.69	23.059		
17,100.00	7,730.00	5,048.00	5,048.00	145.60	87.19	29.75	-8,181.90	4,312.34	4,189.70	4,005.82	183.88	22.785		
17,200.00	7,730.00	5,048.00	5,048.00	146.51	87.19	29.75	-8,181.90	4,312.34	4,121.87	3,938.84	183.03	22.520		
17,300.00	7,730.00	5,048.00	5,048.00	147.44	87.19	29.75	-8,181.90	4,312.34	4,055.37	3,873.22	182.15	22.264		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,400.00	7,730.00	5,048.00	5,048.00	148.40	87.19	29.75	-8,181.90	4,312.34	3,990.27	3,809.03	181.24	22.017	
17,500.00	7,730.00	5,048.00	5,048.00	149.39	87.19	29.75	-8,181.90	4,312.34	3,926.64	3,746.35	180.28	21.780	
17,600.00	7,730.00	5,048.00	5,048.00	150.40	87.19	29.75	-8,181.90	4,312.34	3,864.54	3,685.25	179.30	21.554	
17,700.00	7,730.00	5,048.00	5,048.00	151.44	87.19	29.75	-8,181.90	4,312.34	3,804.06	3,625.79	178.27	21.338	
17,800.00	7,730.00	5,048.00	5,048.00	152.50	87.19	29.75	-8,181.90	4,312.34	3,745.28	3,568.06	177.22	21.134	
17,900.00	7,730.00	5,048.00	5,048.00	153.58	87.19	29.75	-8,181.90	4,312.34	3,688.27	3,512.14	176.13	20.941	
18,000.00	7,730.00	5,048.00	5,048.00	154.68	87.19	29.75	-8,181.90	4,312.34	3,633.12	3,458.11	175.01	20.760	
18,100.00	7,730.00	5,048.00	5,048.00	155.80	87.19	29.75	-8,181.90	4,312.34	3,579.91	3,406.05	173.86	20.591	
18,200.00	7,730.00	5,048.00	5,048.00	156.95	87.19	29.75	-8,181.90	4,312.34	3,528.74	3,356.05	172.69	20.434	
18,300.00	7,730.00	5,048.00	5,048.00	158.11	87.19	29.75	-8,181.90	4,312.34	3,479.69	3,308.19	171.49	20.291	
18,400.00	7,730.00	5,048.00	5,048.00	159.30	87.19	29.75	-8,181.90	4,312.34	3,432.85	3,262.56	170.28	20.160	
18,500.00	7,730.00	5,048.00	5,048.00	160.50	87.19	29.75	-8,181.90	4,312.34	3,388.31	3,219.25	169.06	20.042	
18,600.00	7,730.00	5,048.00	5,048.00	161.72	87.19	29.75	-8,181.90	4,312.34	3,346.17	3,178.33	167.84	19.936	
18,700.00	7,730.00	5,048.00	5,048.00	162.96	87.19	29.75	-8,181.90	4,312.34	3,306.52	3,139.90	166.63	19.844	
18,800.00	7,730.00	5,048.00	5,048.00	164.21	87.19	29.75	-8,181.90	4,312.34	3,269.45	3,104.03	165.43	19.764	
18,900.00	7,730.00	5,048.00	5,048.00	165.48	87.19	29.75	-8,181.90	4,312.34	3,235.05	3,070.80	164.25	19.696	
19,000.00	7,730.00	5,048.00	5,048.00	166.76	87.19	29.75	-8,181.90	4,312.34	3,203.40	3,040.29	163.11	19.639	
19,100.00	7,730.00	5,048.00	5,048.00	168.06	87.19	29.75	-8,181.90	4,312.34	3,174.58	3,012.56	162.02	19.594	
19,200.00	7,730.00	5,048.00	5,048.00	169.38	87.19	29.75	-8,181.90	4,312.34	3,148.68	2,987.69	161.00	19.558	
19,300.00	7,730.00	5,048.00	5,048.00	170.70	87.19	29.75	-8,181.90	4,312.34	3,125.77	2,965.72	160.05	19.530	
19,400.00	7,730.00	5,048.00	5,048.00	172.04	87.19	29.75	-8,181.90	4,312.34	3,105.90	2,946.72	159.19	19.511	
19,500.00	7,730.00	5,048.00	5,048.00	173.40	87.19	29.75	-8,181.90	4,312.34	3,089.15	2,930.72	158.43	19.499	
19,600.00	7,730.00	5,048.00	5,048.00	174.76	87.19	29.75	-8,181.90	4,312.34	3,075.56	2,917.77	157.79	19.492	
19,700.00	7,730.00	5,048.00	5,048.00	176.14	87.19	29.75	-8,181.90	4,312.34	3,065.17	2,907.90	157.27	19.489 SF	
19,800.00	7,730.00	5,048.00	5,048.00	177.52	87.19	29.75	-8,181.90	4,312.34	3,058.02	2,901.13	156.90	19.491	
19,900.00	7,730.00	5,048.00	5,048.00	178.92	87.19	29.75	-8,181.90	4,312.34	3,054.13	2,897.47	156.66	19.495	
19,968.91	7,730.00	5,048.00	5,048.00	179.89	87.19	29.75	-8,181.90	4,312.34	3,053.36	2,896.77	156.59	19.500 CC, ES	
20,000.00	7,730.00	5,048.00	5,048.00	180.33	87.19	29.75	-8,181.90	4,312.34	3,053.51	2,896.94	156.57	19.502	
20,100.00	7,730.00	5,048.00	5,048.00	181.75	87.19	29.75	-8,181.90	4,312.34	3,056.17	2,899.53	156.63	19.511	
20,184.95	7,730.00	5,048.00	5,048.00	182.96	87.19	29.75	-8,181.90	4,312.34	3,060.99	2,904.19	156.80	19.521	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	142.84	-4,068.55	3,083.61	5,105.08					
100.00	100.00	111.17	111.17	0.13	0.20	142.84	-4,068.51	3,083.28	5,104.88	5,104.55	0.33	N/A		
200.00	199.98	234.64	234.63	0.49	0.41	72.44	-4,068.38	3,082.13	5,103.71	5,102.81	0.90	5,648.469		
300.00	299.84	357.83	357.80	0.86	0.63	72.58	-4,068.16	3,080.17	5,101.03	5,099.55	1.48	3,438.761		
400.00	399.45	480.51	480.45	1.23	0.85	72.80	-4,067.85	3,077.40	5,096.86	5,094.79	2.08	2,456.138		
500.00	498.70	602.44	602.34	1.63	1.06	73.10	-4,067.45	3,073.85	5,091.24	5,088.56	2.68	1,897.202		
600.00	597.47	659.73	659.62	2.05	1.37	73.32	-4,067.19	3,072.78	5,085.03	5,081.62	3.40	1,493.684		
700.00	695.62	718.89	718.77	2.51	1.57	73.57	-4,066.74	3,072.36	5,078.45	5,074.39	4.06	1,252.206		
800.00	793.06	790.43	790.30	3.00	1.81	73.87	-4,065.83	3,073.16	5,071.61	5,066.83	4.78	1,061.131		
900.00	889.64	868.78	868.60	3.53	2.08	74.20	-4,064.28	3,075.36	5,064.31	5,058.75	5.57	909.761		
1,000.00	985.27	1,064.00	1,063.40	4.12	2.76	74.86	-4,055.97	3,084.65	5,055.57	5,048.76	6.81	741.874		
1,100.00	1,079.82	1,132.72	1,131.89	4.75	3.00	75.25	-4,051.86	3,088.53	5,045.10	5,037.42	7.68	657.040		
1,200.00	1,173.17	1,193.50	1,192.42	5.44	3.22	75.63	-4,048.25	3,092.69	5,034.54	5,025.97	8.57	587.433		
1,300.00	1,265.21	1,362.27	1,360.05	6.18	3.86	76.39	-4,035.49	3,107.38	5,023.11	5,013.18	9.93	505.944		
1,400.00	1,355.84	1,481.84	1,478.23	6.99	4.33	77.02	-4,022.84	3,120.51	5,009.76	4,998.57	11.19	447.856		
1,500.00	1,444.94	1,551.00	1,546.30	7.87	4.62	77.51	-4,014.59	3,129.47	4,995.83	4,983.50	12.32	405.426		
1,600.00	1,532.39	1,597.79	1,592.26	8.80	4.82	77.95	-4,008.98	3,136.18	4,982.03	4,968.59	13.44	370.614		
1,700.00	1,618.11	1,640.32	1,633.97	9.81	5.00	78.37	-4,004.03	3,142.92	4,968.71	4,954.09	14.62	339.964		
1,800.00	1,701.97	1,800.00	1,775.94	10.89	5.72	79.23	-3,985.76	3,167.96	4,954.91	4,938.52	16.38	302.413		
1,900.00	1,783.88	1,900.00	2,043.83	12.04	6.19	80.78	-3,946.41	3,209.94	4,938.10	4,920.16	17.94	275.232		
2,000.00	1,863.74	2,119.06	2,102.08	13.26	7.19	81.45	-3,937.66	3,217.48	4,919.88	4,899.74	20.15	244.170		
2,100.00	1,941.45	2,163.00	2,145.27	14.55	7.39	82.05	-3,931.82	3,223.08	4,902.48	4,880.84	21.64	226.573		
2,200.00	2,016.92	2,202.16	2,183.79	15.92	7.57	82.62	-3,926.96	3,228.18	4,885.84	4,862.66	23.18	210.761		
2,292.11	2,084.36	2,250.00	2,230.86	17.25	7.78	83.22	-3,921.26	3,234.59	4,871.15	4,846.43	24.72	197.036		
2,300.00	2,090.06	2,251.36	2,232.19	17.36	7.79	83.23	-3,921.11	3,234.78	4,869.92	4,845.08	24.85	196.010		
2,400.00	2,162.18	2,323.56	2,303.18	18.84	8.12	83.70	-3,912.65	3,244.88	4,854.80	4,828.14	26.65	182.150		
2,500.00	2,234.31	2,392.03	2,370.45	20.33	8.43	84.15	-3,904.61	3,254.83	4,840.48	4,812.02	28.46	170.075		
2,600.00	2,306.43	2,463.13	2,440.31	21.83	8.76	84.61	-3,896.49	3,265.21	4,827.01	4,796.72	30.29	159.347		
2,700.00	2,378.56	2,582.07	2,557.17	23.33	9.31	85.39	-3,882.80	3,282.63	4,814.18	4,781.84	32.34	148.855		
2,800.00	2,450.68	2,651.16	2,624.90	24.84	9.64	85.83	-3,874.14	3,293.23	4,801.42	4,767.23	34.19	140.436		
2,900.00	2,522.81	2,735.65	2,707.64	26.36	10.04	86.38	-3,863.72	3,306.73	4,789.61	4,753.49	36.11	132.622		
3,000.00	2,594.93	2,812.79	2,783.15	27.88	10.41	86.87	-3,853.94	3,319.10	4,778.16	4,740.15	38.01	125.701		
3,100.00	2,667.06	2,870.03	2,839.35	29.40	10.68	87.25	-3,847.31	3,327.69	4,767.76	4,727.93	39.82	119.721		
3,200.00	2,739.18	2,946.27	2,914.30	30.92	11.03	87.76	-3,838.90	3,338.83	4,758.25	4,716.53	41.71	114.068		
3,300.00	2,811.31	3,071.02	3,036.81	32.45	11.61	88.59	-3,824.55	3,357.54	4,749.20	4,705.39	43.82	108.388		
3,400.00	2,883.43	3,164.20	3,128.18	33.98	12.06	89.20	-3,812.88	3,371.57	4,739.94	4,694.15	45.79	103.521		
3,500.00	2,955.56	3,210.00	3,173.13	35.51	12.27	89.51	-3,807.38	3,378.39	4,731.74	4,684.18	47.56	99.497		
3,600.00	3,027.68	3,260.90	3,223.10	37.04	12.51	89.85	-3,801.59	3,386.20	4,724.78	4,675.44	49.35	95.749		
3,700.00	3,099.81	3,297.00	3,258.51	38.57	12.68	90.09	-3,797.69	3,392.03	4,719.18	4,668.11	51.07	92.413		
3,800.00	3,171.93	3,345.46	3,306.04	40.11	12.91	90.41	-3,792.80	3,400.13	4,714.91	4,662.07	52.84	89.233		
3,900.00	3,244.06	3,385.00	3,344.82	41.64	13.10	90.67	-3,789.16	3,406.90	4,712.05	4,657.48	54.56	86.360		
4,000.00	3,316.18	3,441.82	3,400.57	43.18	13.37	91.04	-3,784.35	3,416.76	4,710.44	4,654.08	56.36	83.578		
4,100.00	3,388.31	3,510.52	3,468.01	44.71	13.69	91.49	-3,778.95	3,428.70	4,709.92	4,651.72	58.21	80.918		
4,200.00	3,460.43	3,821.00	3,773.66	46.25	15.11	93.62	-3,748.58	3,473.41	4,706.85	4,645.79	61.06	77.082		
4,300.00	3,532.56	3,876.93	3,828.85	47.79	15.36	94.01	-3,742.45	3,480.10	4,703.90	4,641.07	62.83	74.869		
4,400.00	3,604.68	3,940.58	3,891.70	49.33	15.64	94.46	-3,735.94	3,487.74	4,702.18	4,637.56	64.62	72.771		
4,500.00	3,676.81	4,032.03	3,981.96	50.87	16.05	95.11	-3,726.47	3,499.01	4,701.16	4,634.66	66.50	70.691		
4,584.19	3,737.53	4,109.53	4,058.38	52.17	16.39	95.65	-3,718.19	3,508.87	4,700.72	4,632.63	68.09	69.040		
4,600.00	3,748.93	4,101.93	4,050.89	52.41	16.36	95.59	-3,719.04	3,507.92	4,700.76	4,632.46	68.30	68.825		
4,700.00	3,821.06	4,144.76	4,093.09	53.95	16.56	95.89	-3,714.69	3,513.82	4,701.61	4,631.63	69.98	67.181		
4,800.00	3,893.18	4,800.00	4,188.38	55.49	19.64	96.54	-3,704.72	3,528.72	4,703.35	4,628.87	74.48	63.152		
4,900.00	3,965.31	4,314.16	4,259.51	57.03	17.35	97.03	-3,696.98	3,539.95	4,705.47	4,631.78	73.68	63.860		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,359.81	4,304.51	58.58	17.56	97.34	-3,692.66	3,546.32	4,708.92	4,633.58	75.35	62.497		
5,100.00	4,109.56	4,408.84	4,352.95	60.12	17.77	97.69	-3,688.48	3,552.70	4,713.66	4,636.67	77.00	61.218		
5,200.00	4,181.68	4,458.55	4,402.15	61.66	17.98	98.04	-3,684.69	3,558.69	4,719.67	4,641.05	78.63	60.025		
5,300.00	4,253.81	4,508.15	4,451.37	63.20	18.18	98.40	-3,681.40	3,563.78	4,726.94	4,646.71	80.23	58.915		
5,400.00	4,325.93	4,571.30	4,514.21	64.75	18.43	98.88	-3,677.78	3,568.95	4,735.39	4,653.53	81.86	57.849		
5,500.00	4,398.06	4,634.36	4,577.06	66.29	18.66	99.36	-3,674.53	3,572.82	4,744.86	4,661.41	83.45	56.858		
5,600.00	4,470.18	4,694.00	4,636.58	67.84	18.87	99.83	-3,671.82	3,575.56	4,755.45	4,670.45	85.01	55.943		
5,700.00	4,542.31	4,754.79	4,697.29	69.38	19.08	100.31	-3,669.36	3,577.54	4,767.16	4,680.63	86.53	55.091		
5,800.00	4,614.43	4,806.23	4,748.68	70.92	19.24	100.72	-3,667.52	3,578.61	4,780.02	4,692.02	88.00	54.319		
5,900.00	4,686.56	4,849.01	4,791.44	72.47	19.38	101.07	-3,666.31	3,578.99	4,794.23	4,704.82	89.41	53.622		
6,000.00	4,758.68	4,898.44	4,840.86	74.01	19.53	101.48	-3,665.29	3,578.81	4,809.81	4,719.00	90.81	52.967		
6,100.00	4,830.81	4,956.00	4,898.40	75.56	19.69	101.95	-3,664.37	3,577.76	4,826.61	4,734.41	92.20	52.348		
6,200.00	4,902.93	5,039.57	4,981.92	77.10	19.93	102.66	-3,663.12	3,575.22	4,844.39	4,750.75	93.64	51.732		
6,300.00	4,975.06	5,105.84	5,048.14	78.65	20.11	103.22	-3,662.05	3,572.78	4,863.05	4,768.04	95.01	51.185		
6,400.00	5,047.18	5,179.82	5,122.05	80.19	20.31	103.84	-3,660.91	3,569.73	4,882.71	4,786.34	96.37	50.665		
6,500.00	5,119.31	5,259.26	5,201.40	81.74	20.53	104.51	-3,659.55	3,566.25	4,903.22	4,805.49	97.73	50.171		
6,600.00	5,191.43	5,325.86	5,267.92	83.28	20.72	105.07	-3,658.31	3,563.21	4,924.59	4,825.56	99.03	49.729		
6,700.00	5,263.56	5,375.86	5,317.88	84.83	20.86	105.48	-3,657.53	3,561.34	4,947.13	4,846.87	100.26	49.344		
6,800.00	5,335.68	5,426.72	5,368.71	86.37	21.01	105.90	-3,656.95	3,559.95	4,970.86	4,869.39	101.47	48.989		
6,900.00	5,407.81	5,480.00	5,421.99	87.92	21.16	106.33	-3,656.58	3,559.07	4,995.75	4,893.08	102.67	48.660		
7,000.00	5,479.93	5,544.80	5,486.78	89.47	21.35	106.84	-3,656.29	3,558.37	5,021.67	4,917.77	103.89	48.335		
7,100.00	5,552.06	5,611.67	5,553.65	91.01	21.55	107.37	-3,656.07	3,557.73	5,048.49	4,943.38	105.11	48.031		
7,200.00	5,624.18	5,679.81	5,621.78	92.56	21.75	107.91	-3,655.90	3,557.13	5,076.19	4,969.89	106.31	47.750		
7,300.00	5,696.31	5,750.00	5,691.97	94.10	21.96	108.45	-3,655.75	3,556.45	5,104.73	4,997.24	107.49	47.489		
7,400.00	5,768.43	5,820.00	5,761.97	95.65	22.16	109.00	-3,655.61	3,555.67	5,134.08	5,025.42	108.66	47.250		
7,500.00	5,840.56	5,894.41	5,836.37	97.20	22.39	109.57	-3,655.44	3,554.72	5,164.20	5,054.39	109.82	47.025		
7,600.00	5,912.68	5,969.26	5,911.21	98.74	22.61	110.15	-3,655.20	3,553.60	5,195.05	5,084.09	110.96	46.819		
7,700.00	5,984.81	6,043.68	5,985.62	100.29	22.83	110.72	-3,654.89	3,552.33	5,226.61	5,114.53	112.08	46.632		
7,800.00	6,056.93	6,117.69	6,059.62	101.84	23.05	111.29	-3,654.51	3,550.92	5,258.89	5,145.71	113.18	46.465		
7,900.00	6,129.06	6,191.46	6,133.38	103.38	23.28	111.85	-3,654.07	3,549.36	5,291.86	5,177.60	114.26	46.315		
8,000.00	6,201.18	6,254.74	6,196.63	104.93	23.47	112.33	-3,653.72	3,547.94	5,325.61	5,210.34	115.27	46.200		
8,100.00	6,273.31	6,319.45	6,261.33	106.48	23.66	112.81	-3,653.42	3,546.44	5,360.16	5,243.88	116.27	46.099		
8,200.00	6,345.43	6,395.48	6,337.33	108.02	23.89	113.38	-3,653.11	3,544.63	5,395.45	5,278.15	117.31	45.995		
8,300.00	6,417.56	6,484.28	6,426.12	109.57	24.16	114.04	-3,652.54	3,542.72	5,431.25	5,312.87	118.38	45.881		
8,400.00	6,489.68	6,567.28	6,509.09	111.12	24.42	114.64	-3,651.81	3,541.16	5,467.51	5,348.10	119.41	45.788		
8,500.00	6,561.81	6,644.60	6,586.40	112.66	24.66	115.20	-3,651.07	3,539.94	5,504.32	5,383.92	120.41	45.715		
8,600.00	6,633.93	6,724.44	6,666.23	114.21	24.92	115.77	-3,650.26	3,538.94	5,541.70	5,420.30	121.40	45.648		
8,700.00	6,706.06	6,811.06	6,752.85	115.76	25.20	116.37	-3,649.33	3,538.38	5,579.53	5,457.11	122.42	45.577		
8,800.00	6,778.18	6,898.90	6,840.67	117.30	25.48	116.98	-3,648.30	3,538.46	5,617.78	5,494.34	123.44	45.511		
8,900.00	6,850.31	6,957.62	6,899.40	118.85	25.67	117.38	-3,647.69	3,538.64	5,656.63	5,532.32	124.31	45.504		
9,000.00	6,922.43	7,022.23	6,964.00	120.40	25.89	117.81	-3,647.11	3,538.89	5,696.15	5,570.95	125.20	45.497		
9,100.00	6,994.56	7,086.52	7,028.29	121.95	26.10	118.24	-3,646.63	3,539.18	5,736.32	5,610.25	126.07	45.502		
9,200.00	7,066.68	7,150.48	7,092.25	123.49	26.31	118.67	-3,646.25	3,539.45	5,777.13	5,650.21	126.92	45.518		
9,300.00	7,138.81	7,214.36	7,156.13	125.04	26.51	119.08	-3,645.97	3,539.72	5,818.59	5,690.83	127.76	45.543		
9,392.50	7,205.52	7,288.27	7,230.03	126.47	26.76	119.57	-3,645.64	3,539.91	5,857.41	5,728.82	128.60	45.549		
9,400.00	7,210.94	7,294.55	7,236.32	126.59	26.78	118.76	-3,645.60	3,539.91	5,860.54	5,731.87	128.66	45.549		
9,450.00	7,247.42	7,336.76	7,278.52	127.35	26.91	113.28	-3,645.30	3,539.87	5,879.16	5,750.03	129.13	45.528		
9,500.00	7,284.35	7,379.27	7,321.03	128.10	27.05	107.72	-3,644.92	3,539.73	5,893.92	5,764.30	129.61	45.473		
9,550.00	7,321.43	7,422.04	7,363.80	128.83	27.19	102.19	-3,644.45	3,539.49	5,904.73	5,774.63	130.10	45.386		
9,600.00	7,358.38	7,464.68	7,406.43	129.52	27.33	96.84	-3,643.90	3,539.13	5,911.53	5,780.94	130.59	45.268		
9,650.00	7,394.93	7,506.52	7,448.27	130.16	27.47	91.78	-3,643.27	3,538.65	5,914.29	5,783.22	131.07	45.123		
9,700.00	7,430.79	7,547.23	7,488.97	130.76	27.60	87.14	-3,642.58	3,538.07	5,913.02	5,781.48	131.53	44.954		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,586.49	7,528.21	131.30	27.73	83.00	-3,641.83	3,537.40	5,907.73	5,775.75	131.98	44.764		
9,800.00	7,499.38	7,612.60	7,554.32	131.78	27.82	79.31	-3,641.39	3,537.07	5,898.52	5,766.18	132.34	44.571		
9,850.00	7,531.58	7,640.47	7,582.19	132.21	27.91	76.21	-3,640.97	3,536.82	5,885.48	5,752.79	132.69	44.354		
9,900.00	7,562.06	7,667.13	7,608.84	132.57	27.99	73.69	-3,640.64	3,536.70	5,868.70	5,735.68	133.01	44.121		
9,950.00	7,590.58	7,692.34	7,634.05	132.87	28.08	71.76	-3,640.38	3,536.70	5,848.29	5,714.99	133.30	43.872		
10,000.00	7,616.93	7,715.89	7,657.59	133.11	28.15	70.40	-3,640.20	3,536.79	5,824.41	5,690.85	133.56	43.610		
10,050.00	7,640.90	7,737.54	7,679.25	133.29	28.22	69.64	-3,640.07	3,536.96	5,797.21	5,663.43	133.77	43.336		
10,100.00	7,662.32	7,763.47	7,705.17	133.42	28.31	69.56	-3,639.96	3,537.26	5,766.88	5,632.89	133.99	43.041		
10,150.00	7,681.01	7,796.18	7,737.88	133.50	28.42	70.26	-3,639.82	3,537.82	5,733.59	5,599.38	134.21	42.721		
10,200.00	7,696.85	7,824.09	7,765.78	133.52	28.51	71.71	-3,639.71	3,538.45	5,697.58	5,563.20	134.39	42.397		
10,250.00	7,709.70	7,846.83	7,788.52	133.51	28.59	74.03	-3,639.62	3,539.07	5,659.12	5,524.61	134.51	42.071		
10,300.00	7,719.47	7,864.14	7,805.82	133.46	28.65	77.38	-3,639.55	3,539.60	5,618.49	5,483.89	134.60	41.743		
10,350.00	7,726.09	7,875.79	7,817.45	133.37	28.69	82.02	-3,639.50	3,539.99	5,575.98	5,441.35	134.63	41.416		
10,400.00	7,729.50	7,881.62	7,823.28	133.26	28.71	88.27	-3,639.47	3,540.20	5,531.91	5,397.28	134.63	41.090		
10,427.79	7,730.00	7,882.32	7,823.98	133.18	28.71	92.59	-3,639.47	3,540.22	5,506.84	5,372.23	134.61	40.909		
10,500.00	7,730.00	7,881.77	7,823.43	132.98	28.71	92.57	-3,639.47	3,540.20	5,441.35	5,306.80	134.55	40.441		
10,600.00	7,730.00	7,881.01	7,822.67	132.72	28.71	92.55	-3,639.48	3,540.17	5,350.93	5,216.47	134.46	39.797		
10,700.00	7,730.00	7,880.25	7,821.91	132.47	28.70	92.53	-3,639.48	3,540.15	5,260.86	5,126.50	134.36	39.155		
10,800.00	7,730.00	7,879.49	7,821.15	132.22	28.70	92.52	-3,639.48	3,540.12	5,171.15	5,036.89	134.26	38.517		
10,900.00	7,730.00	7,878.73	7,820.40	131.99	28.70	92.50	-3,639.48	3,540.09	5,081.83	4,947.68	134.15	37.882		
11,000.00	7,730.00	7,877.97	7,819.64	131.77	28.70	92.48	-3,639.49	3,540.07	4,992.91	4,858.88	134.03	37.251		
11,100.00	7,730.00	7,877.21	7,818.88	131.56	28.69	92.46	-3,639.49	3,540.04	4,904.42	4,770.51	133.91	36.624		
11,200.00	7,730.00	7,876.46	7,818.13	131.36	28.69	92.44	-3,639.49	3,540.01	4,816.38	4,682.59	133.78	36.001		
11,300.00	7,730.00	7,875.70	7,817.37	131.17	28.69	92.42	-3,639.50	3,539.99	4,728.81	4,595.16	133.65	35.383		
11,400.00	7,730.00	7,874.95	7,816.61	130.99	28.69	92.40	-3,639.50	3,539.96	4,641.75	4,508.24	133.50	34.769		
11,500.00	7,730.00	7,874.19	7,815.86	130.82	28.68	92.38	-3,639.50	3,539.94	4,555.22	4,421.86	133.35	34.159		
11,600.00	7,730.00	7,873.44	7,815.11	130.66	28.68	92.37	-3,639.51	3,539.91	4,469.25	4,336.06	133.19	33.555		
11,700.00	7,730.00	7,872.68	7,814.35	130.51	28.68	92.35	-3,639.51	3,539.88	4,383.87	4,250.85	133.02	32.957		
11,800.00	7,730.00	7,871.93	7,813.60	130.37	28.68	92.33	-3,639.51	3,539.86	4,299.13	4,166.29	132.84	32.364		
11,900.00	7,730.00	7,871.18	7,812.85	130.24	28.67	92.31	-3,639.52	3,539.83	4,215.05	4,082.41	132.64	31.777		
12,000.00	7,730.00	7,870.43	7,812.10	130.13	28.67	92.29	-3,639.52	3,539.81	4,131.69	3,999.25	132.44	31.197		
12,100.00	7,730.00	7,869.67	7,811.35	130.02	28.67	92.27	-3,639.52	3,539.78	4,049.07	3,916.85	132.22	30.624		
12,200.00	7,730.00	7,868.92	7,810.60	129.93	28.67	92.25	-3,639.53	3,539.76	3,967.26	3,835.28	131.99	30.058		
12,300.00	7,730.00	7,868.17	7,809.85	129.85	28.66	92.23	-3,639.53	3,539.73	3,886.30	3,754.56	131.74	29.500		
12,400.00	7,730.00	7,867.42	7,809.10	129.77	28.66	92.22	-3,639.53	3,539.71	3,806.25	3,674.77	131.48	28.950		
12,500.00	7,730.00	7,866.68	7,808.35	129.71	28.66	92.20	-3,639.54	3,539.68	3,727.15	3,595.96	131.20	28.409		
12,600.00	7,730.00	7,865.93	7,807.60	129.66	28.66	92.18	-3,639.54	3,539.66	3,649.09	3,518.19	130.90	27.877		
12,700.00	7,730.00	7,865.18	7,806.85	129.63	28.65	92.16	-3,639.54	3,539.63	3,572.11	3,441.53	130.58	27.356		
12,800.00	7,730.00	7,864.43	7,806.11	129.60	28.65	92.14	-3,639.54	3,539.61	3,496.31	3,366.07	130.24	26.845		
12,900.00	7,730.00	7,863.69	7,805.36	129.59	28.65	92.12	-3,639.55	3,539.59	3,421.74	3,291.86	129.88	26.345		
13,000.00	7,730.00	7,862.94	7,804.62	129.59	28.65	92.10	-3,639.55	3,539.56	3,348.51	3,219.01	129.50	25.857		
13,100.00	7,730.00	7,862.20	7,803.87	129.60	28.64	92.09	-3,639.55	3,539.54	3,276.68	3,147.59	129.09	25.383		
13,200.00	7,730.00	7,861.45	7,803.13	129.63	28.64	92.07	-3,639.56	3,539.51	3,206.37	3,077.71	128.66	24.921		
13,300.00	7,730.00	7,860.71	7,802.38	129.66	28.64	92.05	-3,639.56	3,539.49	3,137.67	3,009.47	128.20	24.474		
13,400.00	7,730.00	7,859.97	7,801.64	129.72	28.64	92.03	-3,639.56	3,539.47	3,070.69	2,942.97	127.72	24.043		
13,500.00	7,730.00	7,859.22	7,800.90	129.78	28.63	92.01	-3,639.57	3,539.44	3,005.54	2,878.34	127.21	23.628		
13,600.00	7,730.00	7,858.48	7,800.16	129.86	28.63	91.99	-3,639.57	3,539.42	2,942.35	2,815.69	126.66	23.229		
13,700.00	7,730.00	7,857.74	7,799.42	129.96	28.63	91.97	-3,639.57	3,539.40	2,881.25	2,755.15	126.10	22.850		
13,800.00	7,730.00	7,857.00	7,798.68	130.07	28.63	91.96	-3,639.58	3,539.37	2,822.37	2,696.87	125.50	22.489		
13,900.00	7,730.00	7,856.26	7,797.94	130.19	28.62	91.94	-3,639.58	3,539.35	2,765.85	2,640.97	124.88	22.148		
14,000.00	7,730.00	7,855.52	7,797.20	130.33	28.62	91.92	-3,639.58	3,539.33	2,711.84	2,587.61	124.23	21.829		
14,100.00	7,730.00	7,854.78	7,796.46	130.49	28.62	91.90	-3,639.58	3,539.30	2,660.49	2,536.93	123.56	21.532		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,854.04	7,795.72	130.67	28.62	91.88	-3,639.59	3,539.28	2,611.97	2,489.10	122.87	21.258		
14,300.00	7,730.00	7,853.30	7,794.98	130.86	28.61	91.86	-3,639.59	3,539.26	2,566.42	2,444.26	122.17	21.008		
14,400.00	7,730.00	7,852.57	7,794.25	131.07	28.61	91.85	-3,639.59	3,539.24	2,524.02	2,402.57	121.45	20.782		
14,500.00	7,730.00	7,851.83	7,793.51	131.30	28.61	91.83	-3,639.60	3,539.21	2,484.92	2,364.19	120.73	20.583		
14,600.00	7,730.00	7,851.09	7,792.78	131.55	28.61	91.81	-3,639.60	3,539.19	2,449.28	2,329.27	120.01	20.409		
14,700.00	7,730.00	7,850.36	7,792.04	131.82	28.60	91.79	-3,639.60	3,539.17	2,417.26	2,297.95	119.31	20.261		
14,800.00	7,730.00	7,849.62	7,791.31	132.11	28.60	91.77	-3,639.61	3,539.15	2,388.99	2,270.37	118.62	20.140		
14,900.00	7,730.00	7,848.89	7,790.57	132.42	28.60	91.75	-3,639.61	3,539.13	2,364.62	2,246.66	117.96	20.045		
15,000.00	7,730.00	7,848.16	7,789.84	132.75	28.60	91.74	-3,639.61	3,539.10	2,344.27	2,226.92	117.35	19.977		
15,100.00	7,730.00	7,847.42	7,789.11	133.10	28.59	91.72	-3,639.61	3,539.08	2,328.03	2,211.25	116.78	19.934		
15,200.00	7,730.00	7,846.69	7,788.37	133.48	28.59	91.70	-3,639.62	3,539.06	2,316.01	2,199.73	116.28	19.918 SF		
15,300.00	7,730.00	7,845.96	7,787.64	133.88	28.59	91.68	-3,639.62	3,539.04	2,308.25	2,192.41	115.84	19.926		
15,400.00	7,730.00	7,845.23	7,786.91	134.31	28.59	91.66	-3,639.62	3,539.02	2,304.82	2,189.33	115.49	19.958		
15,429.27	7,730.00	7,845.01	7,786.70	134.44	28.58	91.66	-3,639.62	3,539.01	2,304.63	2,189.23	115.40	19.971 CC, ES		
15,500.00	7,730.00	7,844.50	7,786.18	134.76	28.58	91.65	-3,639.63	3,539.00	2,305.72	2,190.51	115.21	20.013		
15,600.00	7,730.00	7,843.77	7,785.45	135.23	28.58	91.63	-3,639.63	3,538.98	2,310.95	2,195.93	115.02	20.092		
15,700.00	7,730.00	7,843.04	7,784.72	135.73	28.58	91.61	-3,639.63	3,538.96	2,320.48	2,205.56	114.92	20.192		
15,800.00	7,730.00	7,842.31	7,784.00	136.26	28.58	91.59	-3,639.64	3,538.93	2,334.26	2,219.35	114.91	20.314		
15,900.00	7,730.00	7,841.58	7,783.27	136.81	28.57	91.57	-3,639.64	3,538.91	2,352.21	2,237.23	114.98	20.457		
16,000.00	7,730.00	7,840.85	7,782.54	137.39	28.57	91.56	-3,639.64	3,538.89	2,374.25	2,259.11	115.14	20.621		
16,100.00	7,730.00	7,840.13	7,781.81	138.00	28.57	91.54	-3,639.64	3,538.87	2,400.25	2,284.88	115.36	20.806		
16,200.00	7,730.00	7,839.40	7,781.09	138.63	28.57	91.52	-3,639.65	3,538.85	2,430.09	2,314.43	115.66	21.010		
16,300.00	7,730.00	7,838.68	7,780.36	139.30	28.56	91.50	-3,639.65	3,538.83	2,463.63	2,347.61	116.02	21.235		
16,400.00	7,730.00	7,837.95	7,779.64	139.99	28.56	91.48	-3,639.65	3,538.81	2,500.72	2,384.30	116.43	21.479		
16,500.00	7,730.00	7,837.23	7,778.91	140.70	28.56	91.46	-3,639.66	3,538.79	2,541.21	2,424.33	116.88	21.743		
16,600.00	7,730.00	7,836.50	7,778.19	141.45	28.56	91.45	-3,639.66	3,538.77	2,584.94	2,467.58	117.36	22.026		
16,700.00	7,730.00	7,835.78	7,777.47	142.22	28.55	91.43	-3,639.66	3,538.75	2,631.74	2,513.87	117.87	22.327		
16,800.00	7,730.00	7,835.06	7,776.74	143.03	28.55	91.41	-3,639.67	3,538.73	2,681.45	2,563.05	118.40	22.648		
16,900.00	7,730.00	7,834.33	7,776.02	143.86	28.55	91.39	-3,639.67	3,538.71	2,733.92	2,614.98	118.94	22.986		
17,000.00	7,730.00	7,833.61	7,775.30	144.71	28.55	91.37	-3,639.67	3,538.69	2,788.99	2,669.50	119.48	23.342		
17,100.00	7,730.00	7,832.89	7,774.58	145.60	28.54	91.36	-3,639.67	3,538.67	2,846.50	2,726.47	120.03	23.715		
17,200.00	7,730.00	7,832.17	7,773.86	146.51	28.54	91.34	-3,639.68	3,538.66	2,906.32	2,785.75	120.57	24.104		
17,300.00	7,730.00	7,831.45	7,773.14	147.44	28.54	91.32	-3,639.68	3,538.64	2,968.31	2,847.20	121.11	24.509		
17,400.00	7,730.00	7,830.73	7,772.42	148.40	28.54	91.30	-3,639.68	3,538.62	3,032.32	2,910.69	121.64	24.929		
17,500.00	7,730.00	7,830.01	7,771.70	149.39	28.53	91.29	-3,639.69	3,538.60	3,098.25	2,976.09	122.15	25.364		
17,600.00	7,730.00	7,829.29	7,770.98	150.40	28.53	91.27	-3,639.69	3,538.58	3,165.95	3,043.30	122.66	25.812		
17,700.00	7,730.00	7,828.58	7,770.27	151.44	28.53	91.25	-3,639.69	3,538.56	3,235.33	3,112.19	123.14	26.273		
17,800.00	7,730.00	7,827.86	7,769.55	152.50	28.53	91.23	-3,639.70	3,538.54	3,306.29	3,182.67	123.61	26.747		
17,900.00	7,730.00	7,827.14	7,768.83	153.58	28.52	91.21	-3,639.70	3,538.52	3,378.71	3,254.64	124.07	27.233		
18,000.00	7,730.00	7,826.43	7,768.12	154.68	28.52	91.20	-3,639.70	3,538.51	3,452.50	3,328.00	124.51	27.730		
18,100.00	7,730.00	7,825.71	7,767.40	155.80	28.52	91.18	-3,639.70	3,538.49	3,527.59	3,402.66	124.93	28.237		
18,200.00	7,730.00	7,825.00	7,766.69	156.95	28.52	91.16	-3,639.71	3,538.47	3,603.89	3,478.56	125.33	28.754		
18,300.00	7,730.00	7,824.28	7,765.98	158.11	28.52	91.14	-3,639.71	3,538.45	3,681.33	3,555.60	125.72	29.281		
18,400.00	7,730.00	7,823.57	7,765.26	159.30	28.51	91.13	-3,639.71	3,538.43	3,759.83	3,633.73	126.10	29.817		
18,500.00	7,730.00	7,822.86	7,764.55	160.50	28.51	91.11	-3,639.72	3,538.42	3,839.33	3,712.87	126.46	30.361		
18,600.00	7,730.00	7,822.14	7,763.84	161.72	28.51	91.09	-3,639.72	3,538.40	3,919.77	3,792.97	126.80	30.913		
18,700.00	7,730.00	7,821.43	7,763.13	162.96	28.51	91.07	-3,639.72	3,538.38	4,001.09	3,873.96	127.13	31.473		
18,800.00	7,730.00	7,820.72	7,762.41	164.21	28.50	91.05	-3,639.72	3,538.36	4,083.24	3,955.79	127.44	32.040		
18,900.00	7,730.00	7,820.01	7,761.70	165.48	28.50	91.04	-3,639.73	3,538.35	4,166.17	4,038.42	127.75	32.613		
19,000.00	7,730.00	7,819.30	7,760.99	166.76	28.50	91.02	-3,639.73	3,538.33	4,249.83	4,121.80	128.04	33.193		
19,100.00	7,730.00	7,818.59	7,760.28	168.06	28.50	91.00	-3,639.73	3,538.31	4,334.19	4,205.88	128.31	33.778		
19,200.00	7,730.00	7,817.88	7,759.58	169.38	28.49	90.98	-3,639.74	3,538.29	4,419.20	4,290.62	128.58	34.370		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,817.17	7,758.87	170.70	28.49	90.97	-3,639.74	3,538.28	4,504.82	4,375.99	128.83	34.966	
19,400.00	7,730.00	7,816.47	7,758.16	172.04	28.49	90.95	-3,639.74	3,538.26	4,591.03	4,461.95	129.08	35.568	
19,500.00	7,730.00	7,815.76	7,757.45	173.40	28.49	90.93	-3,639.74	3,538.24	4,677.79	4,548.47	129.31	36.174	
19,600.00	7,730.00	7,815.05	7,756.75	174.76	28.48	90.91	-3,639.75	3,538.23	4,765.06	4,635.52	129.54	36.785	
19,700.00	7,730.00	7,814.35	7,756.04	176.14	28.48	90.90	-3,639.75	3,538.21	4,852.83	4,723.07	129.76	37.399	
19,800.00	7,730.00	7,813.64	7,755.34	177.52	28.48	90.88	-3,639.75	3,538.19	4,941.06	4,811.09	129.97	38.018	
19,900.00	7,730.00	7,812.94	7,754.63	178.92	28.48	90.86	-3,639.76	3,538.18	5,029.73	4,899.56	130.17	38.641	
20,000.00	7,730.00	7,812.23	7,753.93	180.33	28.47	90.84	-3,639.76	3,538.16	5,118.82	4,988.46	130.36	39.267	
20,100.00	7,730.00	7,811.53	7,753.22	181.75	28.47	90.83	-3,639.76	3,538.15	5,208.30	5,077.76	130.54	39.897	
20,184.95	7,730.00	7,810.93	7,752.63	182.96	28.47	90.81	-3,639.76	3,538.13	5,284.62	5,153.92	130.70	40.434	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	33.41	33.40	0.00	0.05	163.91	-7,121.34	2,054.22	7,411.70					
100.00	100.00	153.28	153.27	0.13	0.39	163.90	-7,120.77	2,054.92	7,411.40	7,410.88	0.52	N/A		
182.37	182.36	219.24	219.23	0.43	0.62	93.46	-7,120.70	2,054.42	7,411.22	7,410.18	1.04	7,097.783		
200.00	199.98	232.45	232.44	0.49	0.66	93.47	-7,120.72	2,054.29	7,411.23	7,410.08	1.15	6,427.663		
300.00	299.84	292.43	292.41	0.86	0.87	93.49	-7,120.99	2,053.55	7,411.67	7,409.94	1.73	4,291.220		
400.00	399.45	349.00	348.97	1.23	1.07	93.51	-7,121.72	2,052.57	7,412.95	7,410.65	2.30	3,216.477		
500.00	498.70	409.74	409.68	1.63	1.29	93.54	-7,122.94	2,051.20	7,415.01	7,412.09	2.92	2,540.471		
600.00	597.47	476.93	476.82	2.05	1.53	93.58	-7,124.75	2,049.12	7,417.76	7,414.18	3.58	2,069.819		
700.00	695.62	553.06	552.78	2.51	1.81	93.66	-7,127.58	2,045.08	7,421.17	7,416.86	4.32	1,719.318		
800.00	793.06	931.18	927.04	3.00	3.33	94.66	-7,141.33	1,995.69	7,422.07	7,415.75	6.33	1,173.284		
900.00	889.64	986.00	980.65	3.53	3.58	94.83	-7,143.81	1,984.52	7,423.24	7,416.13	7.11	1,044.148		
1,000.00	985.27	1,031.00	1,024.53	4.12	3.79	94.96	-7,146.17	1,974.80	7,425.36	7,417.46	7.90	939.506		
1,100.00	1,079.82	1,075.96	1,068.18	4.75	4.01	95.09	-7,148.80	1,964.39	7,428.46	7,419.70	8.76	848.241		
1,200.00	1,173.17	1,096.00	1,087.60	5.44	4.11	95.09	-7,150.13	1,959.59	7,432.87	7,423.32	9.54	778.998		
1,300.00	1,265.21	1,127.52	1,118.09	6.18	4.28	95.12	-7,152.48	1,951.98	7,438.62	7,428.17	10.45	712.162		
1,400.00	1,355.84	1,148.78	1,138.66	6.99	4.39	95.08	-7,154.26	1,946.87	7,445.81	7,434.46	11.35	655.775		
1,500.00	1,444.94	1,183.00	1,171.73	7.87	4.56	95.08	-7,157.45	1,938.72	7,454.48	7,442.09	12.39	601.601		
1,600.00	1,532.39	1,183.00	1,171.73	8.80	4.56	94.88	-7,157.45	1,938.72	7,464.50	7,451.19	13.31	560.727		
1,700.00	1,618.11	1,224.93	1,212.15	9.81	4.79	94.89	-7,161.82	1,928.46	7,475.89	7,461.36	14.53	514.647		
1,800.00	1,701.97	1,271.00	1,256.32	10.89	5.04	94.90	-7,167.08	1,916.46	7,488.67	7,472.84	15.83	473.133		
1,900.00	1,783.88	1,271.00	1,256.32	12.04	5.04	94.62	-7,167.08	1,916.46	7,502.74	7,485.80	16.94	442.888		
2,000.00	1,863.74	1,305.98	1,289.74	13.26	5.25	94.52	-7,171.38	1,907.08	7,518.21	7,499.89	18.32	410.389		
2,100.00	1,941.45	1,329.43	1,312.13	14.55	5.38	94.33	-7,174.38	1,900.81	7,535.07	7,515.38	19.70	382.556		
2,200.00	2,016.92	1,358.00	1,339.41	15.92	5.55	94.15	-7,178.17	1,893.18	7,553.32	7,532.16	21.17	356.846		
2,292.11	2,084.36	1,416.31	1,395.06	17.25	5.89	94.17	-7,185.96	1,877.61	7,571.25	7,548.48	22.77	332.544		
2,300.00	2,090.06	1,423.62	1,402.03	17.36	5.93	94.22	-7,186.92	1,875.66	7,572.82	7,549.90	22.92	330.395		
2,400.00	2,162.18	1,469.77	1,446.09	18.84	6.21	94.53	-7,192.95	1,863.30	7,593.24	7,568.65	24.59	308.795		
2,500.00	2,234.31	1,501.72	1,476.57	20.33	6.40	94.74	-7,197.20	1,854.69	7,614.69	7,588.52	26.18	290.907		
2,600.00	2,306.43	1,532.00	1,505.42	21.83	6.58	94.95	-7,201.29	1,846.48	7,637.20	7,609.45	27.75	275.228		
2,700.00	2,378.56	1,555.46	1,527.76	23.33	6.73	95.11	-7,204.52	1,840.07	7,660.78	7,631.50	29.28	261.649		
2,800.00	2,450.68	1,577.62	1,548.82	24.84	6.86	95.25	-7,207.66	1,833.96	7,685.45	7,654.66	30.79	249.575		
2,900.00	2,522.81	1,599.46	1,569.57	26.36	7.00	95.40	-7,210.82	1,827.89	7,711.21	7,678.91	32.30	238.741		
3,000.00	2,594.93	1,620.00	1,589.04	27.88	7.13	95.54	-7,213.87	1,822.13	7,738.04	7,704.25	33.79	229.023		
3,100.00	2,667.06	1,648.41	1,615.97	29.40	7.31	95.73	-7,218.16	1,814.15	7,765.92	7,730.60	35.32	219.896		
3,200.00	2,739.18	1,675.57	1,641.71	30.92	7.48	95.91	-7,222.33	1,806.56	7,794.82	7,757.99	36.83	211.662		
3,300.00	2,811.31	1,707.00	1,671.50	32.45	7.68	96.13	-7,227.24	1,797.81	7,824.73	7,786.37	38.35	204.022		
3,400.00	2,883.43	2,231.00	2,171.98	33.98	10.92	99.57	-7,294.47	1,658.39	7,855.03	7,812.13	42.90	183.106		
3,500.00	2,955.56	2,267.79	2,207.39	35.51	11.14	99.81	-7,297.94	1,649.04	7,883.70	7,839.27	44.43	177.428		
3,600.00	3,027.68	2,287.28	2,226.11	37.04	11.26	99.94	-7,299.90	1,644.00	7,913.45	7,867.59	45.85	172.589		
3,700.00	3,099.81	2,318.00	2,255.58	38.57	11.44	100.14	-7,303.12	1,635.95	7,944.24	7,896.92	47.32	167.872		
3,800.00	3,171.93	2,335.76	2,272.61	40.11	11.55	100.25	-7,305.04	1,631.26	7,976.00	7,927.29	48.70	163.762		
3,900.00	3,244.06	2,550.02	2,478.58	41.64	12.84	101.63	-7,326.49	1,576.31	8,008.50	7,957.26	51.24	156.288		
4,000.00	3,316.18	2,653.97	2,578.90	43.18	13.44	102.28	-7,335.38	1,550.59	8,040.75	7,987.65	53.10	151.432		
4,100.00	3,388.31	2,667.00	2,591.45	44.71	13.52	102.37	-7,336.44	1,547.24	8,073.68	8,019.27	54.41	148.378		
4,200.00	3,460.43	2,702.86	2,625.97	46.25	13.73	102.59	-7,339.46	1,538.01	8,107.49	8,051.65	55.85	145.169		
4,300.00	3,532.56	2,721.84	2,644.24	47.79	13.85	102.71	-7,341.17	1,533.15	8,142.32	8,085.15	57.17	142.423		
4,400.00	3,604.68	2,755.00	2,676.15	49.33	14.05	102.92	-7,344.33	1,524.71	8,178.14	8,119.58	58.56	139.654		
4,500.00	3,676.81	2,814.38	2,733.35	50.87	14.39	103.30	-7,350.06	1,509.89	8,214.80	8,154.71	60.09	136.717		
4,600.00	3,748.93	2,955.61	2,870.04	52.41	15.20	104.17	-7,362.73	1,476.67	8,251.70	8,189.64	62.06	132.970		
4,700.00	3,821.06	3,091.78	3,002.07	53.95	15.96	105.00	-7,373.64	1,445.18	8,288.82	8,224.85	63.97	129.569		
4,800.00	3,893.18	3,126.63	3,035.81	55.49	16.16	105.22	-7,376.22	1,436.86	8,326.38	8,261.07	65.31	127.487		
4,900.00	3,965.31	3,150.93	3,059.30	57.03	16.30	105.37	-7,378.10	1,430.94	8,364.81	8,298.23	66.58	125.641		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	3,191.00	3,097.98	58.58	16.53	105.61	-7,381.33	1,420.97	8,404.14	8,336.22	67.92	123.741		
5,100.00	4,109.56	3,191.00	3,097.98	60.12	16.53	105.61	-7,381.33	1,420.97	8,444.26	8,375.25	69.01	122.358		
5,200.00	4,181.68	3,223.79	3,129.57	61.66	16.73	105.82	-7,384.11	1,412.65	8,485.25	8,414.97	70.28	120.728		
5,300.00	4,253.81	3,248.43	3,153.29	63.20	16.88	105.97	-7,386.27	1,406.34	8,527.07	8,455.58	71.49	119.273		
5,400.00	4,325.93	3,278.00	3,181.73	64.75	17.05	106.15	-7,388.96	1,398.70	8,569.71	8,497.00	72.71	117.855		
5,500.00	4,398.06	3,278.00	3,181.73	66.29	17.05	106.15	-7,388.96	1,398.70	8,613.20	8,539.46	73.74	116.798		
5,600.00	4,470.18	3,307.77	3,210.35	67.84	17.23	106.33	-7,391.83	1,391.02	8,657.47	8,582.54	74.94	115.532		
5,700.00	4,542.31	3,324.44	3,226.38	69.38	17.33	106.43	-7,393.54	1,386.75	8,702.60	8,626.57	76.03	114.458		
5,800.00	4,614.43	3,366.00	3,266.33	70.92	17.58	106.69	-7,398.10	1,376.26	8,748.65	8,671.38	77.27	113.228		
5,900.00	4,686.56	5,132.33	5,005.21	72.47	24.63	115.77	-7,467.46	1,174.12	8,791.08	8,705.41	85.68	102.606		
6,000.00	4,758.68	5,179.95	5,052.81	74.01	24.75	115.98	-7,465.91	1,173.98	8,825.97	8,739.09	86.88	101.592		
6,100.00	4,830.81	5,237.44	5,110.27	75.56	24.89	116.23	-7,464.13	1,173.89	8,861.36	8,773.27	88.09	100.593		
6,200.00	4,902.93	5,286.00	5,158.81	77.10	25.00	116.44	-7,462.73	1,173.91	8,897.28	8,808.01	89.27	99.666		
6,300.00	4,975.06	5,286.00	5,158.81	78.65	25.00	116.44	-7,462.73	1,173.91	8,934.00	8,843.70	90.30	98.932		
6,400.00	5,047.18	5,286.00	5,158.81	80.19	25.00	116.44	-7,462.73	1,173.91	8,971.69	8,880.37	91.32	98.244		
6,500.00	5,119.31	5,358.97	5,231.77	81.74	25.20	116.75	-7,461.24	1,173.56	9,009.40	8,916.85	92.55	97.346		
6,600.00	5,191.43	5,381.63	5,254.42	83.28	25.26	116.85	-7,461.00	1,173.28	9,048.31	8,954.70	93.61	96.659		
6,700.00	5,263.56	5,404.08	5,276.86	84.83	25.32	116.95	-7,460.86	1,172.92	9,087.98	8,993.32	94.66	96.008		
6,800.00	5,335.68	5,461.00	5,333.77	86.37	25.48	117.20	-7,460.98	1,171.66	9,128.61	9,032.80	95.80	95.286		
6,900.00	5,407.81	5,461.00	5,333.77	87.92	25.48	117.20	-7,460.98	1,171.66	9,169.58	9,072.83	96.75	94.774		
7,000.00	5,479.93	5,486.02	5,358.78	89.47	25.55	117.30	-7,461.19	1,171.02	9,211.42	9,113.65	97.77	94.215		
7,100.00	5,552.06	5,545.99	5,418.74	91.01	25.72	117.56	-7,461.83	1,169.73	9,253.78	9,154.88	98.90	93.568		
7,200.00	5,624.18	5,606.51	5,479.24	92.56	25.90	117.82	-7,462.65	1,168.79	9,296.55	9,196.53	100.02	92.946		
7,300.00	5,696.31	7,300.00	5,626.43	94.10	30.61	118.43	-7,464.15	1,167.80	9,339.07	9,233.17	105.90	88.187		
7,400.00	5,768.43	5,942.56	5,815.27	95.65	26.83	119.21	-7,464.31	1,166.70	9,381.29	9,278.31	102.98	91.097		
7,500.00	5,840.56	7,500.00	5,970.95	97.20	31.08	119.85	-7,462.47	1,165.63	9,422.96	9,314.44	108.52	86.830		
7,600.00	5,912.68	6,223.90	6,096.57	98.74	27.60	120.36	-7,460.44	1,165.39	9,464.69	9,358.99	105.70	89.541		
7,700.00	5,984.81	6,279.05	6,151.72	100.29	27.74	120.58	-7,459.43	1,165.16	9,506.68	9,399.91	106.77	89.039		
7,800.00	6,056.93	6,334.00	6,206.65	101.84	27.89	120.80	-7,458.44	1,164.68	9,549.12	9,441.29	107.83	88.559		
7,900.00	6,129.06	6,422.23	6,294.86	103.38	28.14	121.16	-7,456.82	1,163.81	9,591.87	9,482.88	108.99	88.006		
8,000.00	6,201.18	6,511.30	6,383.91	104.93	28.39	121.51	-7,455.10	1,163.13	9,634.81	9,524.66	110.15	87.469		
8,100.00	6,273.31	6,569.13	6,441.73	106.48	28.54	121.74	-7,454.03	1,162.87	9,678.05	9,566.85	111.19	87.038		
8,200.00	6,345.43	6,628.06	6,500.65	108.02	28.70	121.97	-7,453.12	1,162.82	9,721.68	9,609.45	112.23	86.620		
8,300.00	6,417.56	6,688.80	6,561.40	109.57	28.87	122.20	-7,452.36	1,163.01	9,765.71	9,652.44	113.27	86.214		
8,400.00	6,489.68	6,769.36	6,641.95	111.12	29.08	122.51	-7,451.42	1,163.40	9,810.03	9,695.66	114.37	85.775		
8,500.00	6,561.81	6,850.01	6,722.59	112.66	29.30	122.82	-7,450.42	1,163.82	9,854.57	9,739.11	115.46	85.352		
8,600.00	6,633.93	6,936.51	6,809.08	114.21	29.53	123.14	-7,449.22	1,164.23	9,899.31	9,782.74	116.56	84.926		
8,700.00	6,706.06	7,023.51	6,896.07	115.76	29.77	123.47	-7,447.83	1,164.50	9,944.21	9,826.55	117.66	84.515		
8,800.00	6,778.18	7,082.73	6,955.28	117.30	29.94	123.69	-7,446.85	1,164.62	9,989.38	9,870.72	118.66	84.185		
10,400.00	7,729.50	7,992.66	7,865.12	133.26	32.48	87.68	-7,435.92	1,170.50	9,987.44	9,854.36	133.08	75.046		
10,427.79	7,730.00	7,992.97	7,865.43	133.18	32.48	91.37	-7,435.92	1,170.50	9,963.08	9,829.95	133.13	74.837		
10,500.00	7,730.00	7,992.71	7,865.17	132.98	32.48	91.37	-7,435.92	1,170.50	9,899.32	9,766.09	133.24	74.299		
10,600.00	7,730.00	7,992.35	7,864.81	132.72	32.47	91.36	-7,435.92	1,170.49	9,811.21	9,677.82	133.39	73.554		
10,700.00	7,730.00	7,991.99	7,864.44	132.47	32.47	91.36	-7,435.92	1,170.48	9,723.33	9,589.79	133.55	72.809		
10,800.00	7,730.00	7,991.62	7,864.08	132.22	32.47	91.35	-7,435.92	1,170.48	9,635.69	9,501.98	133.71	72.065		
10,900.00	7,730.00	7,991.26	7,863.71	131.99	32.47	91.35	-7,435.92	1,170.47	9,548.29	9,414.41	133.88	71.322		
11,000.00	7,730.00	7,990.89	7,863.34	131.77	32.47	91.34	-7,435.93	1,170.47	9,461.13	9,327.08	134.05	70.580		
11,100.00	7,730.00	7,990.51	7,862.97	131.56	32.47	91.34	-7,435.93	1,170.46	9,374.24	9,240.01	134.23	69.838		
11,200.00	7,730.00	7,990.14	7,862.59	131.36	32.47	91.34	-7,435.93	1,170.46	9,287.61	9,153.19	134.41	69.098		
11,300.00	7,730.00	7,989.76	7,862.21	131.17	32.47	91.33	-7,435.93	1,170.45	9,201.24	9,066.64	134.60	68.358		
11,400.00	7,730.00	7,989.38	7,861.83	130.99	32.47	91.33	-7,435.93	1,170.44	9,115.16	8,980.36	134.80	67.619		
11,500.00	7,730.00	7,989.00	7,861.45	130.82	32.47	91.32	-7,435.93	1,170.44	9,029.37	8,894.36	135.00	66.882		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,600.00	7,730.00	7,988.61	7,861.07	130.66	32.46	91.32	-7,435.94	1,170.43	8,943.87	8,808.65	135.21	66.146		
11,700.00	7,730.00	7,988.23	7,860.68	130.51	32.46	91.31	-7,435.94	1,170.43	8,858.67	8,723.24	135.43	65.411		
11,800.00	7,730.00	7,987.84	7,860.29	130.37	32.46	91.31	-7,435.94	1,170.42	8,773.79	8,638.13	135.66	64.677		
11,900.00	7,730.00	7,987.44	7,859.90	130.24	32.46	91.30	-7,435.94	1,170.41	8,689.22	8,553.34	135.89	63.945		
12,000.00	7,730.00	7,987.05	7,859.50	130.13	32.46	91.30	-7,435.94	1,170.41	8,604.99	8,468.87	136.12	63.214		
12,100.00	7,730.00	7,986.65	7,859.11	130.02	32.46	91.29	-7,435.94	1,170.40	8,521.10	8,384.73	136.37	62.485		
12,200.00	7,730.00	7,986.25	7,858.71	129.93	32.46	91.29	-7,435.95	1,170.40	8,437.56	8,300.94	136.62	61.757		
12,300.00	7,730.00	7,985.85	7,858.30	129.85	32.46	91.28	-7,435.95	1,170.39	8,354.39	8,217.50	136.89	61.032		
12,400.00	7,730.00	7,985.44	7,857.90	129.77	32.46	91.28	-7,435.95	1,170.38	8,271.58	8,134.42	137.16	60.308		
12,500.00	7,730.00	7,985.04	7,857.49	129.71	32.45	91.27	-7,435.95	1,170.38	8,189.16	8,051.72	137.43	59.586		
12,600.00	7,730.00	7,984.63	7,857.08	129.66	32.45	91.27	-7,435.95	1,170.37	8,107.13	7,969.41	137.72	58.866		
12,700.00	7,730.00	7,984.21	7,856.67	129.63	32.45	91.26	-7,435.96	1,170.36	8,025.52	7,887.50	138.02	58.148		
12,800.00	7,730.00	7,983.80	7,856.25	129.60	32.45	91.26	-7,435.96	1,170.36	7,944.32	7,805.99	138.32	57.433		
12,900.00	7,730.00	7,983.38	7,855.83	129.59	32.45	91.25	-7,435.96	1,170.35	7,863.55	7,724.91	138.64	56.720		
13,000.00	7,730.00	7,982.96	7,855.41	129.59	32.45	91.25	-7,435.96	1,170.35	7,783.23	7,644.27	138.96	56.009		
13,100.00	7,730.00	7,982.53	7,854.99	129.60	32.45	91.24	-7,435.96	1,170.34	7,703.38	7,564.08	139.30	55.302		
13,200.00	7,730.00	7,982.10	7,854.56	129.63	32.45	91.24	-7,435.97	1,170.33	7,624.00	7,484.35	139.64	54.597		
13,300.00	7,730.00	7,981.67	7,854.13	129.66	32.44	91.23	-7,435.97	1,170.33	7,545.10	7,405.11	140.00	53.895		
13,400.00	7,730.00	7,981.24	7,853.70	129.72	32.44	91.23	-7,435.97	1,170.32	7,466.72	7,326.35	140.36	53.196		
13,500.00	7,730.00	7,980.80	7,853.26	129.78	32.44	91.22	-7,435.97	1,170.31	7,388.85	7,248.11	140.74	52.500		
13,600.00	7,730.00	7,980.36	7,852.82	129.86	32.44	91.21	-7,435.97	1,170.31	7,311.53	7,170.40	141.13	51.808		
13,700.00	7,730.00	7,979.92	7,852.38	129.96	32.44	91.21	-7,435.98	1,170.30	7,234.76	7,093.23	141.53	51.119		
13,800.00	7,730.00	7,979.48	7,851.93	130.07	32.44	91.20	-7,435.98	1,170.29	7,158.56	7,016.62	141.94	50.434		
13,900.00	7,730.00	7,979.03	7,851.48	130.19	32.44	91.20	-7,435.98	1,170.29	7,082.96	6,940.59	142.36	49.754		
14,000.00	7,730.00	7,978.58	7,851.03	130.33	32.44	91.19	-7,435.98	1,170.28	7,007.96	6,865.17	142.80	49.077		
14,100.00	7,730.00	7,978.12	7,850.58	130.49	32.44	91.19	-7,435.99	1,170.27	6,933.60	6,790.36	143.24	48.404		
14,200.00	7,730.00	7,977.66	7,850.12	130.67	32.43	91.18	-7,435.99	1,170.26	6,859.89	6,716.19	143.70	47.737		
14,300.00	7,730.00	7,977.20	7,849.66	130.86	32.43	91.18	-7,435.99	1,170.26	6,786.85	6,642.68	144.17	47.074		
14,400.00	7,730.00	7,976.74	7,849.19	131.07	32.43	91.17	-7,435.99	1,170.25	6,714.51	6,569.85	144.66	46.416		
14,500.00	7,730.00	7,976.27	7,848.73	131.30	32.43	91.16	-7,435.99	1,170.24	6,642.88	6,497.73	145.16	45.763		
14,600.00	7,730.00	7,975.80	7,848.25	131.55	32.43	91.16	-7,436.00	1,170.24	6,572.00	6,426.33	145.67	45.116		
14,700.00	7,730.00	7,975.32	7,847.78	131.82	32.43	91.15	-7,436.00	1,170.23	6,501.88	6,355.69	146.19	44.474		
14,800.00	7,730.00	7,974.85	7,847.30	132.11	32.43	91.15	-7,436.00	1,170.22	6,432.55	6,285.82	146.73	43.839		
14,900.00	7,730.00	7,974.37	7,846.82	132.42	32.42	91.14	-7,436.00	1,170.21	6,364.04	6,216.76	147.28	43.209		
15,000.00	7,730.00	7,973.88	7,846.34	132.75	32.42	91.14	-7,436.01	1,170.21	6,296.37	6,148.52	147.85	42.586		
15,100.00	7,730.00	7,973.39	7,845.85	133.10	32.42	91.13	-7,436.01	1,170.20	6,229.57	6,081.14	148.43	41.970		
15,200.00	7,730.00	7,972.90	7,845.36	133.48	32.42	91.12	-7,436.01	1,170.19	6,163.67	6,014.65	149.02	41.361		
15,300.00	7,730.00	7,972.41	7,844.86	133.88	32.42	91.12	-7,436.01	1,170.18	6,098.70	5,949.07	149.63	40.760		
15,400.00	7,730.00	7,971.91	7,844.36	134.31	32.42	91.11	-7,436.02	1,170.18	6,034.68	5,884.44	150.25	40.166		
15,500.00	7,730.00	7,971.40	7,843.86	134.76	32.42	91.10	-7,436.02	1,170.17	5,971.65	5,820.78	150.88	39.579		
15,600.00	7,730.00	7,970.90	7,843.35	135.23	32.42	91.10	-7,436.02	1,170.16	5,909.65	5,758.12	151.52	39.002		
15,700.00	7,730.00	7,970.39	7,842.84	135.73	32.41	91.09	-7,436.02	1,170.15	5,848.69	5,696.51	152.18	38.433		
15,800.00	7,730.00	7,969.87	7,842.33	136.26	32.41	91.09	-7,436.03	1,170.15	5,788.82	5,635.97	152.85	37.872		
15,900.00	7,730.00	7,969.35	7,841.81	136.81	32.41	91.08	-7,436.03	1,170.14	5,730.07	5,576.54	153.53	37.321		
16,000.00	7,730.00	7,968.83	7,841.29	137.39	32.41	91.07	-7,436.03	1,170.13	5,672.48	5,518.25	154.23	36.780		
16,100.00	7,730.00	7,968.31	7,840.76	138.00	32.41	91.07	-7,436.04	1,170.12	5,616.07	5,461.14	154.93	36.248		
16,200.00	7,730.00	7,967.78	7,840.23	138.63	32.41	91.06	-7,436.04	1,170.12	5,560.89	5,405.24	155.65	35.727		
16,300.00	7,730.00	7,967.24	7,839.70	139.30	32.41	91.05	-7,436.04	1,170.11	5,506.98	5,350.60	156.37	35.217		
16,400.00	7,730.00	7,966.71	7,839.16	139.99	32.40	91.05	-7,436.04	1,170.10	5,454.36	5,297.25	157.11	34.717		
16,500.00	7,730.00	7,966.16	7,838.62	140.70	32.40	91.04	-7,436.05	1,170.09	5,403.08	5,245.23	157.85	34.229		
16,600.00	7,730.00	7,965.62	7,838.08	141.45	32.40	91.03	-7,436.05	1,170.08	5,353.18	5,194.58	158.60	33.752		
16,700.00	7,730.00	7,965.07	7,837.53	142.22	32.40	91.03	-7,436.05	1,170.07	5,304.70	5,145.34	159.36	33.288		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,800.00	7,730.00	7,964.51	7,836.97	143.03	32.40	91.02	-7,436.06	1,170.07	5,257.67	5,097.55	160.12	32.835		
16,900.00	7,730.00	7,963.96	7,836.41	143.86	32.40	91.01	-7,436.06	1,170.06	5,212.14	5,051.25	160.89	32.396		
17,000.00	7,730.00	7,963.39	7,835.85	144.71	32.39	91.01	-7,436.06	1,170.05	5,168.14	5,006.48	161.66	31.970		
17,100.00	7,730.00	7,962.82	7,835.28	145.60	32.39	91.00	-7,436.07	1,170.04	5,125.71	4,963.28	162.43	31.557		
17,200.00	7,730.00	7,962.25	7,834.71	146.51	32.39	90.99	-7,436.07	1,170.03	5,084.89	4,921.69	163.20	31.157		
17,300.00	7,730.00	7,961.68	7,834.13	147.44	32.39	90.99	-7,436.07	1,170.02	5,045.73	4,881.76	163.97	30.772		
17,400.00	7,730.00	7,961.10	7,833.55	148.40	32.39	90.98	-7,436.08	1,170.02	5,008.26	4,843.52	164.74	30.402		
17,500.00	7,730.00	7,960.51	7,832.97	149.39	32.39	90.97	-7,436.08	1,170.01	4,972.52	4,807.02	165.50	30.046		
17,600.00	7,730.00	7,959.92	7,832.38	150.40	32.39	90.96	-7,436.08	1,170.00	4,938.54	4,772.29	166.25	29.705		
17,700.00	7,730.00	7,959.32	7,831.78	151.44	32.38	90.96	-7,436.09	1,169.99	4,906.37	4,739.37	167.00	29.379		
17,800.00	7,730.00	7,958.72	7,831.18	152.50	32.38	90.95	-7,436.09	1,169.98	4,876.03	4,708.29	167.74	29.069		
17,900.00	7,730.00	7,958.12	7,830.58	153.58	32.38	90.94	-7,436.09	1,169.97	4,847.57	4,679.11	168.47	28.775		
18,000.00	7,730.00	7,957.51	7,829.97	154.68	32.38	90.93	-7,436.10	1,169.96	4,821.02	4,651.84	169.18	28.497		
18,100.00	7,730.00	7,956.90	7,829.35	155.80	32.38	90.93	-7,436.10	1,169.95	4,796.40	4,626.53	169.88	28.235		
18,200.00	7,730.00	7,956.28	7,828.73	156.95	32.38	90.92	-7,436.10	1,169.94	4,773.75	4,603.20	170.55	27.990		
18,300.00	7,730.00	7,955.65	7,828.11	158.11	32.37	90.91	-7,436.11	1,169.93	4,753.10	4,581.89	171.21	27.761		
18,400.00	7,730.00	7,955.02	7,827.48	159.30	32.37	90.90	-7,436.11	1,169.93	4,734.47	4,562.62	171.85	27.550		
18,500.00	7,730.00	7,954.39	7,826.85	160.50	32.37	90.90	-7,436.11	1,169.92	4,717.89	4,545.42	172.47	27.355		
18,600.00	7,730.00	7,953.75	7,826.21	161.72	32.37	90.89	-7,436.12	1,169.91	4,703.37	4,530.32	173.06	27.178		
18,700.00	7,730.00	7,953.10	7,825.56	162.96	32.37	90.88	-7,436.12	1,169.90	4,690.95	4,517.32	173.62	27.018		
18,800.00	7,730.00	7,952.45	7,824.91	164.21	32.36	90.87	-7,436.13	1,169.89	4,680.62	4,506.46	174.16	26.876		
18,900.00	7,730.00	7,951.79	7,824.25	165.48	32.36	90.86	-7,436.13	1,169.88	4,672.42	4,497.75	174.66	26.751		
19,000.00	7,730.00	7,951.13	7,823.59	166.76	32.36	90.86	-7,436.13	1,169.87	4,666.34	4,491.20	175.14	26.644		
19,100.00	7,730.00	7,950.46	7,822.92	168.06	32.36	90.85	-7,436.14	1,169.86	4,662.40	4,486.82	175.58	26.554		
19,200.00	7,730.00	7,949.79	7,822.25	169.38	32.36	90.84	-7,436.14	1,169.85	4,660.60	4,484.61	175.99	26.482		
19,233.77	7,730.00	7,949.56	7,822.02	169.82	32.36	90.84	-7,436.14	1,169.85	4,660.48	4,484.36	176.12	26.462 CC, ES		
19,300.00	7,730.00	7,949.11	7,821.57	170.70	32.36	90.83	-7,436.15	1,169.84	4,660.95	4,484.58	176.37	26.428		
19,400.00	7,730.00	7,948.43	7,820.89	172.04	32.35	90.82	-7,436.15	1,169.83	4,663.44	4,486.74	176.71	26.391		
19,500.00	7,730.00	7,947.74	7,820.20	173.40	32.35	90.81	-7,436.15	1,169.82	4,668.08	4,491.07	177.01	26.372		
19,600.00	7,730.00	7,947.04	7,819.50	174.76	32.35	90.81	-7,436.16	1,169.81	4,674.85	4,497.57	177.28	26.370 SF		
19,700.00	7,730.00	7,946.34	7,818.80	176.14	32.35	90.80	-7,436.16	1,169.80	4,683.74	4,506.23	177.51	26.386		
19,800.00	7,730.00	7,945.63	7,818.09	177.52	32.35	90.79	-7,436.17	1,169.79	4,694.75	4,517.04	177.71	26.419		
19,900.00	7,730.00	7,944.91	7,817.37	178.92	32.34	90.78	-7,436.17	1,169.78	4,707.86	4,529.99	177.87	26.469		
20,000.00	7,730.00	7,944.19	7,816.65	180.33	32.34	90.77	-7,436.18	1,169.77	4,723.04	4,545.06	177.99	26.536		
20,100.00	7,730.00	7,943.46	7,815.92	181.75	32.34	90.76	-7,436.18	1,169.76	4,740.29	4,562.22	178.08	26.620		
20,184.95	7,730.00	7,942.84	7,815.30	182.96	32.34	90.75	-7,436.18	1,169.75	4,756.55	4,578.43	178.12	26.704		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	69.52	69.51	0.00	0.11	163.95	-7,135.89	2,053.56	7,425.64					
100.00	100.00	124.94	124.93	0.13	0.29	163.95	-7,135.95	2,052.64	7,425.31	7,424.88	0.43	N/A		
101.45	101.45	125.69	125.68	0.14	0.30	93.50	-7,135.96	2,052.63	7,425.31	7,424.87	0.44	N/A		
200.00	199.98	187.25	187.23	0.49	0.52	93.51	-7,136.46	2,051.64	7,425.71	7,424.70	1.01	7,373.915		
300.00	299.84	290.73	290.63	0.86	0.89	93.56	-7,137.98	2,048.10	7,426.51	7,424.76	1.75	4,253.125		
400.00	399.45	370.21	369.95	1.23	1.19	93.63	-7,139.76	2,043.22	7,427.55	7,425.13	2.42	3,070.515		
500.00	498.70	417.88	417.44	1.63	1.37	93.67	-7,141.33	2,039.52	7,429.41	7,426.41	3.00	2,478.522		
600.00	597.47	440.00	439.46	2.05	1.45	93.66	-7,142.22	2,037.63	7,432.30	7,428.80	3.51	2,120.375		
700.00	695.62	478.64	477.89	2.51	1.61	93.66	-7,144.20	2,034.10	7,436.31	7,432.20	4.11	1,808.422		
800.00	793.06	533.00	531.84	3.00	1.82	93.70	-7,148.09	2,028.68	7,441.84	7,437.02	4.82	1,544.817		
900.00	889.64	533.00	531.84	3.53	1.82	93.57	-7,148.09	2,028.68	7,448.18	7,442.83	5.35	1,392.303		
1,000.00	985.27	560.93	559.50	4.12	1.94	93.50	-7,150.52	2,025.70	7,455.93	7,449.89	6.04	1,234.115		
1,100.00	1,079.82	596.31	594.50	4.75	2.09	93.45	-7,153.87	2,021.77	7,464.81	7,458.00	6.81	1,095.609		
1,200.00	1,173.17	625.00	622.85	5.44	2.21	93.35	-7,156.82	2,018.46	7,474.82	7,467.21	7.61	982.197		
1,300.00	1,265.21	661.99	659.33	6.18	2.37	93.28	-7,160.94	2,013.96	7,485.97	7,477.47	8.50	880.320		
1,400.00	1,355.84	717.00	713.42	6.99	2.61	93.27	-7,167.79	2,006.64	7,498.41	7,488.87	9.53	786.496		
1,500.00	1,444.94	717.00	713.42	7.87	2.61	93.00	-7,167.79	2,006.64	7,511.81	7,501.42	10.38	723.360		
1,600.00	1,532.39	717.00	713.42	8.80	2.61	92.70	-7,167.79	2,006.64	7,526.69	7,515.39	11.30	666.313		
1,700.00	1,618.11	763.00	758.45	9.81	2.83	92.61	-7,174.32	1,999.90	7,542.53	7,530.05	12.48	604.181		
1,800.00	1,701.97	809.00	803.25	10.89	3.05	92.51	-7,181.70	1,992.51	7,559.94	7,546.20	13.74	550.365		
1,900.00	1,783.88	809.00	803.25	12.04	3.05	92.13	-7,181.70	1,992.51	7,578.27	7,563.44	14.84	510.785		
2,000.00	1,863.74	809.00	803.25	13.26	3.05	91.73	-7,181.70	1,992.51	7,598.01	7,582.01	16.00	474.880		
2,100.00	1,941.45	809.00	803.25	14.55	3.05	91.30	-7,181.70	1,992.51	7,619.11	7,601.88	17.23	442.309		
2,200.00	2,016.92	844.87	838.02	15.92	3.24	91.06	-7,188.09	1,986.46	7,641.17	7,622.47	18.69	408.756		
2,292.11	2,084.36	856.48	849.25	17.25	3.30	90.69	-7,190.28	1,984.49	7,662.68	7,642.69	19.99	383.277		
2,300.00	2,090.06	857.45	850.18	17.36	3.30	90.70	-7,190.47	1,984.32	7,664.57	7,644.47	20.11	381.216		
2,400.00	2,162.18	898.00	889.29	18.84	3.51	90.96	-7,198.62	1,977.35	7,689.38	7,667.69	21.69	354.565		
2,500.00	2,234.31	898.00	889.29	20.33	3.51	90.96	-7,198.62	1,977.35	7,714.93	7,691.87	23.06	334.545		
2,600.00	2,306.43	898.00	889.29	21.83	3.51	90.96	-7,198.62	1,977.35	7,741.68	7,717.25	24.43	316.884		
2,700.00	2,378.56	898.00	889.29	23.33	3.51	90.96	-7,198.62	1,977.35	7,769.64	7,743.84	25.79	301.221		
2,800.00	2,450.68	898.00	889.29	24.84	3.51	90.96	-7,198.62	1,977.35	7,798.77	7,771.62	27.15	287.260		
2,900.00	2,522.81	941.80	931.38	26.36	3.76	91.24	-7,208.08	1,969.76	7,828.68	7,799.95	28.73	272.471		
3,000.00	2,594.93	958.24	947.14	27.88	3.85	91.34	-7,211.77	1,966.91	7,859.79	7,829.63	30.16	260.623		
3,100.00	2,667.06	974.55	962.77	29.40	3.94	91.45	-7,215.51	1,964.07	7,891.94	7,860.36	31.57	249.968		
3,200.00	2,739.18	1,011.00	997.61	30.92	4.14	91.68	-7,224.12	1,957.74	7,925.19	7,892.10	33.08	239.552		
3,300.00	2,811.31	1,011.00	997.61	32.45	4.14	91.68	-7,224.12	1,957.74	7,959.29	7,924.90	34.39	231.474		
3,400.00	2,883.43	1,011.00	997.61	33.98	4.14	91.68	-7,224.12	1,957.74	7,994.50	7,958.82	35.67	224.102		
3,500.00	2,955.56	1,011.00	997.61	35.51	4.14	91.68	-7,224.12	1,957.74	8,030.79	7,993.85	36.95	217.356		
3,600.00	3,027.68	1,053.80	1,038.43	37.04	4.39	91.96	-7,234.70	1,950.37	8,067.79	8,029.34	38.45	209.830		
3,700.00	3,099.81	1,069.33	1,053.21	38.57	4.49	92.05	-7,238.66	1,947.73	8,105.91	8,066.12	39.78	203.750		
3,800.00	3,171.93	1,100.00	1,082.35	40.11	4.67	92.25	-7,246.69	1,942.57	8,145.02	8,103.82	41.20	197.715		
3,900.00	3,244.06	1,100.00	1,082.35	41.64	4.67	92.25	-7,246.69	1,942.57	8,184.97	8,142.56	42.41	192.980		
4,000.00	3,316.18	1,100.00	1,082.35	43.18	4.67	92.25	-7,246.69	1,942.57	8,225.95	8,182.34	43.62	188.602		
4,100.00	3,388.31	1,136.77	1,117.23	44.71	4.89	92.48	-7,256.62	1,936.54	8,267.71	8,222.69	45.02	183.657		
4,200.00	3,460.43	1,155.05	1,134.56	46.25	5.00	92.60	-7,261.66	1,933.61	8,310.40	8,264.10	46.30	179.501		
4,300.00	3,532.56	1,187.00	1,164.81	47.79	5.19	92.80	-7,270.66	1,928.61	8,353.99	8,306.34	47.65	175.336		
4,400.00	3,604.68	1,187.00	1,164.81	49.33	5.19	92.80	-7,270.66	1,928.61	8,398.37	8,349.59	48.79	172.143		
4,500.00	3,676.81	1,187.00	1,164.81	50.87	5.19	92.80	-7,270.66	1,928.61	8,443.71	8,393.80	49.91	169.172		
4,600.00	3,748.93	1,220.74	1,196.68	52.41	5.40	93.01	-7,280.42	1,923.34	8,489.75	8,438.52	51.23	165.724		
4,700.00	3,821.06	1,235.38	1,210.46	53.95	5.50	93.10	-7,284.75	1,921.00	8,536.69	8,484.28	52.41	162.874		
4,800.00	3,893.18	1,275.00	1,247.66	55.49	5.75	93.34	-7,296.75	1,914.51	8,584.59	8,530.85	53.74	159.749		
4,900.00	3,965.31	1,275.00	1,247.66	57.03	5.75	93.34	-7,296.75	1,914.51	8,633.07	8,578.26	54.80	157.533		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	1,275.00	1,247.66	58.58	5.75	93.34	-7,296.75	1,914.51	8,682.42	8,626.57	55.85	155.464		
5,100.00	4,109.56	1,305.03	1,275.77	60.12	5.94	93.53	-7,306.05	1,909.51	8,732.54	8,675.47	57.07	153.008		
5,200.00	4,181.68	1,329.43	1,298.59	61.66	6.11	93.68	-7,313.69	1,905.46	8,783.38	8,725.13	58.25	150.797		
5,300.00	4,253.81	1,362.00	1,329.01	63.20	6.32	93.89	-7,323.98	1,900.07	8,834.92	8,775.46	59.46	148.586		
5,400.00	4,325.93	1,382.43	1,348.08	64.75	6.46	94.01	-7,330.49	1,896.66	8,887.14	8,826.56	60.58	146.697		
5,500.00	4,398.06	1,413.12	1,376.69	66.29	6.67	94.20	-7,340.29	1,891.46	8,940.01	8,878.25	61.76	144.761		
5,600.00	4,470.18	1,449.00	1,410.10	67.84	6.91	94.43	-7,351.81	1,885.24	8,993.52	8,930.57	62.95	142.859		
5,700.00	4,542.31	1,449.00	1,410.10	69.38	6.91	94.43	-7,351.81	1,885.24	9,047.71	8,983.81	63.90	141.599		
5,800.00	4,614.43	1,449.00	1,410.10	70.92	6.91	94.43	-7,351.81	1,885.24	9,102.67	9,037.84	64.82	140.422		
5,900.00	4,686.56	1,488.98	1,447.22	72.47	7.19	94.67	-7,364.86	1,878.17	9,158.09	9,092.08	66.01	138.737		
6,000.00	4,758.68	1,502.93	1,460.14	74.01	7.29	94.76	-7,369.50	1,875.68	9,214.32	9,147.32	67.01	137.516		
6,100.00	4,830.81	1,537.00	1,491.60	75.56	7.53	94.97	-7,381.04	1,869.54	9,271.30	9,203.17	68.13	136.090		
6,200.00	4,902.93	1,537.00	1,491.60	77.10	7.53	94.97	-7,381.04	1,869.54	9,328.78	9,259.78	69.00	135.207		
6,300.00	4,975.06	1,537.00	1,491.60	78.65	7.53	94.97	-7,381.04	1,869.54	9,386.98	9,317.13	69.85	134.384		
6,400.00	5,047.18	1,537.00	1,491.60	80.19	7.53	94.97	-7,381.04	1,869.54	9,445.88	9,375.18	70.69	133.619		
6,500.00	5,119.31	1,537.00	1,491.60	81.74	7.53	94.97	-7,381.04	1,869.54	9,505.46	9,433.94	71.52	132.909		
6,600.00	5,191.43	1,574.41	1,525.99	83.28	7.80	95.20	-7,394.08	1,862.72	9,565.40	9,492.80	72.60	131.751		
6,700.00	5,263.56	1,584.82	1,535.53	84.83	7.88	95.26	-7,397.79	1,860.81	9,626.12	9,552.64	73.48	131.007		
6,800.00	5,335.68	1,624.00	1,571.29	86.37	8.17	95.50	-7,412.05	1,853.55	9,687.63	9,613.08	74.55	129.946		
6,900.00	5,407.81	1,624.00	1,571.29	87.92	8.17	95.50	-7,412.05	1,853.55	9,749.43	9,674.11	75.33	129.430		
7,000.00	5,479.93	1,624.00	1,571.29	89.47	8.17	95.50	-7,412.05	1,853.55	9,811.86	9,735.78	76.09	128.957		
7,100.00	5,552.06	1,624.00	1,571.29	91.01	8.17	95.50	-7,412.05	1,853.55	9,874.91	9,798.08	76.83	128.523		
7,200.00	5,624.18	1,624.00	1,571.29	92.56	8.17	95.50	-7,412.05	1,853.55	9,938.57	9,861.00	77.57	128.127		
11,800.00	7,730.00	8,433.00	8,062.15	130.37	43.56	93.72	-8,717.16	1,079.74	9,928.24	9,787.78	140.46	70.686		
11,900.00	7,730.00	8,433.00	8,062.15	130.24	43.56	93.72	-8,717.16	1,079.74	9,840.57	9,699.83	140.75	69.917		
12,000.00	7,730.00	8,433.00	8,062.15	130.13	43.56	93.72	-8,717.16	1,079.74	9,753.15	9,612.10	141.05	69.148		
12,100.00	7,730.00	8,433.00	8,062.15	130.02	43.56	93.72	-8,717.16	1,079.74	9,665.97	9,524.61	141.36	68.380		
12,200.00	7,730.00	8,433.00	8,062.15	129.93	43.56	93.72	-8,717.16	1,079.74	9,579.03	9,437.36	141.67	67.613		
12,300.00	7,730.00	8,433.00	8,062.15	129.85	43.56	93.72	-8,717.16	1,079.74	9,492.36	9,350.36	142.00	66.847		
12,400.00	7,730.00	8,433.00	8,062.15	129.77	43.56	93.72	-8,717.16	1,079.74	9,405.95	9,263.61	142.34	66.081		
12,500.00	7,730.00	8,403.77	8,032.93	129.71	43.51	93.36	-8,717.83	1,079.23	9,319.72	9,177.14	142.59	65.361		
12,600.00	7,730.00	8,402.35	8,031.51	129.66	43.50	93.35	-8,717.87	1,079.21	9,233.86	9,090.92	142.94	64.599		
12,700.00	7,730.00	8,400.90	8,030.06	129.63	43.50	93.33	-8,717.91	1,079.19	9,148.28	9,004.97	143.30	63.839		
12,800.00	7,730.00	8,399.43	8,028.60	129.60	43.50	93.31	-8,717.94	1,079.16	9,062.99	8,919.32	143.67	63.080		
12,900.00	7,730.00	8,397.94	8,027.10	129.59	43.50	93.29	-8,717.98	1,079.14	8,978.01	8,833.95	144.06	62.323		
13,000.00	7,730.00	8,396.42	8,025.58	129.59	43.49	93.27	-8,718.02	1,079.12	8,893.34	8,748.89	144.45	61.567		
13,100.00	7,730.00	8,394.87	8,024.03	129.60	43.49	93.26	-8,718.06	1,079.09	8,808.99	8,664.13	144.85	60.813		
13,200.00	7,730.00	8,393.29	8,022.46	129.63	43.49	93.24	-8,718.10	1,079.07	8,724.97	8,579.69	145.27	60.060		
13,300.00	7,730.00	8,391.69	8,020.86	129.66	43.48	93.22	-8,718.15	1,079.04	8,641.29	8,495.59	145.70	59.309		
13,400.00	7,730.00	8,390.06	8,019.23	129.72	43.48	93.20	-8,718.19	1,079.02	8,557.95	8,411.81	146.14	58.560		
13,500.00	7,730.00	8,388.40	8,017.57	129.78	43.48	93.18	-8,718.24	1,078.99	8,474.98	8,328.39	146.59	57.813		
13,600.00	7,730.00	8,386.71	8,015.88	129.86	43.48	93.16	-8,718.28	1,078.97	8,392.38	8,245.32	147.06	57.068		
13,700.00	7,730.00	8,384.98	8,014.15	129.96	43.47	93.14	-8,718.33	1,078.95	8,310.17	8,162.63	147.54	56.325		
13,800.00	7,730.00	8,383.23	8,012.40	130.07	43.47	93.12	-8,718.38	1,078.92	8,228.34	8,080.31	148.03	55.585		
13,900.00	7,730.00	8,381.44	8,010.61	130.19	43.47	93.09	-8,718.43	1,078.89	8,146.92	7,998.38	148.54	54.847		
14,000.00	7,730.00	8,379.62	8,008.79	130.33	43.46	93.07	-8,718.49	1,078.87	8,065.92	7,916.86	149.06	54.111		
14,100.00	7,730.00	8,377.76	8,006.94	130.49	43.46	93.05	-8,718.54	1,078.84	7,985.35	7,835.75	149.60	53.379		
14,200.00	7,730.00	8,375.87	8,005.04	130.67	43.46	93.03	-8,718.60	1,078.82	7,905.22	7,755.07	150.15	52.650		
14,300.00	7,730.00	8,373.94	8,003.11	130.86	43.45	93.00	-8,718.65	1,078.79	7,825.55	7,674.83	150.71	51.923		
14,400.00	7,730.00	8,371.97	8,001.15	131.07	43.45	92.98	-8,718.71	1,078.76	7,746.34	7,595.05	151.30	51.200		
14,500.00	7,730.00	8,369.96	7,999.14	131.30	43.44	92.96	-8,718.77	1,078.74	7,667.63	7,515.73	151.89	50.480		
14,600.00	7,730.00	8,367.91	7,997.09	131.55	43.44	92.93	-8,718.83	1,078.71	7,589.41	7,436.90	152.51	49.764		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,700.00	7,730.00	8,365.82	7,995.00	131.82	43.44	92.91	-8,718.90	1,078.68	7,511.71	7,358.57	153.14	49.052		
14,800.00	7,730.00	8,363.69	7,992.87	132.11	43.43	92.88	-8,718.96	1,078.66	7,434.54	7,280.76	153.79	48.343		
14,900.00	7,730.00	8,361.51	7,990.70	132.42	43.43	92.85	-8,719.03	1,078.63	7,357.92	7,203.47	154.45	47.639		
15,000.00	7,730.00	8,359.29	7,988.47	132.75	43.43	92.83	-8,719.10	1,078.60	7,281.87	7,126.74	155.13	46.939		
15,100.00	7,730.00	8,357.02	7,986.20	133.10	43.42	92.80	-8,719.18	1,078.57	7,206.40	7,050.57	155.84	46.244		
15,200.00	7,730.00	8,354.70	7,983.89	133.48	43.42	92.77	-8,719.25	1,078.55	7,131.54	6,974.98	156.55	45.553		
15,300.00	7,730.00	8,352.33	7,981.52	133.88	43.41	92.74	-8,719.33	1,078.52	7,057.29	6,900.00	157.29	44.867		
15,400.00	7,730.00	8,349.91	7,979.10	134.31	43.41	92.71	-8,719.41	1,078.49	6,983.69	6,825.64	158.05	44.187		
15,500.00	7,730.00	8,347.43	7,976.63	134.76	43.40	92.69	-8,719.49	1,078.46	6,910.75	6,751.92	158.82	43.512		
15,600.00	7,730.00	8,344.90	7,974.10	135.23	43.40	92.65	-8,719.58	1,078.43	6,838.49	6,678.87	159.62	42.842		
15,700.00	7,730.00	8,342.32	7,971.51	135.73	43.39	92.62	-8,719.67	1,078.40	6,766.93	6,606.50	160.43	42.179		
15,800.00	7,730.00	8,339.67	7,968.86	136.26	43.39	92.59	-8,719.76	1,078.38	6,696.11	6,534.84	161.27	41.522		
15,900.00	7,730.00	8,336.96	7,966.16	136.81	43.38	92.56	-8,719.85	1,078.35	6,626.03	6,463.91	162.12	40.871		
16,000.00	7,730.00	8,334.19	7,963.39	137.39	43.38	92.53	-8,719.95	1,078.32	6,556.73	6,393.74	162.99	40.227		
16,100.00	7,730.00	8,331.35	7,960.55	138.00	43.37	92.49	-8,720.05	1,078.29	6,488.23	6,324.35	163.89	39.590		
16,200.00	7,730.00	8,328.44	7,957.65	138.63	43.37	92.46	-8,720.16	1,078.26	6,420.56	6,255.76	164.80	38.960		
16,300.00	7,730.00	8,325.46	7,954.67	139.30	43.36	92.42	-8,720.27	1,078.23	6,353.73	6,188.00	165.73	38.337		
16,400.00	7,730.00	8,322.41	7,951.62	139.99	43.36	92.38	-8,720.38	1,078.20	6,287.79	6,121.10	166.69	37.723		
16,500.00	7,730.00	8,319.29	7,948.50	140.70	43.35	92.35	-8,720.50	1,078.18	6,222.75	6,055.09	167.66	37.116		
16,600.00	7,730.00	8,316.08	7,945.29	141.45	43.35	92.31	-8,720.62	1,078.15	6,158.65	5,990.00	168.65	36.518		
16,700.00	7,730.00	8,312.79	7,942.01	142.22	43.34	92.27	-8,720.75	1,078.12	6,095.51	5,925.85	169.66	35.928		
16,800.00	7,730.00	8,309.42	7,938.64	143.03	43.33	92.23	-8,720.88	1,078.09	6,033.36	5,862.67	170.69	35.348		
16,900.00	7,730.00	8,305.96	7,935.18	143.86	43.33	92.19	-8,721.02	1,078.06	5,972.24	5,800.51	171.73	34.776		
17,000.00	7,730.00	8,302.40	7,931.63	144.71	43.32	92.14	-8,721.16	1,078.04	5,912.18	5,739.38	172.80	34.215		
17,100.00	7,730.00	8,298.75	7,927.98	145.60	43.32	92.10	-8,721.31	1,078.01	5,853.21	5,679.33	173.88	33.663		
17,200.00	7,730.00	8,295.01	7,924.24	146.51	43.31	92.05	-8,721.47	1,077.98	5,795.36	5,620.38	174.97	33.121		
17,300.00	7,730.00	8,291.15	7,920.39	147.44	43.30	92.01	-8,721.63	1,077.96	5,738.66	5,562.58	176.09	32.590		
17,400.00	7,730.00	8,287.19	7,916.43	148.40	43.29	91.96	-8,721.80	1,077.93	5,683.16	5,505.95	177.21	32.070		
17,500.00	7,730.00	8,292.15	7,921.37	149.39	43.30	92.02	-8,721.46	1,077.92	5,628.87	5,450.47	178.39	31.553		
17,600.00	7,730.00	8,285.71	7,914.95	150.40	43.29	91.94	-8,721.78	1,077.89	5,575.86	5,396.33	179.53	31.058		
17,700.00	7,730.00	8,279.41	7,908.66	151.44	43.28	91.87	-8,722.08	1,077.87	5,524.15	5,343.47	180.68	30.574		
17,800.00	7,730.00	8,273.24	7,902.49	152.50	43.27	91.79	-8,722.38	1,077.84	5,473.78	5,291.93	181.85	30.101		
17,900.00	7,730.00	8,267.20	7,896.45	153.58	43.26	91.72	-8,722.67	1,077.82	5,424.77	5,241.75	183.02	29.641		
18,000.00	7,730.00	8,261.27	7,890.53	154.68	43.25	91.65	-8,722.95	1,077.80	5,377.17	5,192.98	184.19	29.193		
18,100.00	7,730.00	8,255.46	7,884.73	155.80	43.24	91.58	-8,723.22	1,077.78	5,331.02	5,145.65	185.37	28.758		
18,200.00	7,730.00	8,249.77	7,879.04	156.95	43.23	91.51	-8,723.49	1,077.75	5,286.35	5,099.79	186.56	28.336		
18,300.00	7,730.00	8,244.18	7,873.46	158.11	43.22	91.44	-8,723.75	1,077.73	5,243.21	5,055.46	187.74	27.927		
18,400.00	7,730.00	8,238.70	7,867.99	159.30	43.21	91.38	-8,724.00	1,077.71	5,201.62	5,012.69	188.93	27.532		
18,500.00	7,730.00	8,233.33	7,862.62	160.50	43.20	91.31	-8,724.24	1,077.69	5,161.63	4,971.52	190.11	27.151		
18,600.00	7,730.00	8,228.06	7,857.36	161.72	43.19	91.25	-8,724.47	1,077.67	5,123.28	4,931.99	191.28	26.784		
18,700.00	7,730.00	8,222.88	7,852.19	162.96	43.18	91.18	-8,724.70	1,077.65	5,086.60	4,894.15	192.45	26.431		
18,800.00	7,730.00	8,217.81	7,847.12	164.21	43.17	91.12	-8,724.93	1,077.63	5,051.63	4,858.02	193.60	26.093		
18,900.00	7,730.00	8,212.82	7,842.13	165.48	43.16	91.06	-8,725.14	1,077.61	5,018.40	4,823.65	194.74	25.769		
19,000.00	7,730.00	8,207.93	7,837.24	166.76	43.15	91.00	-8,725.35	1,077.59	4,986.95	4,791.08	195.87	25.461		
19,100.00	7,730.00	8,203.12	7,832.44	168.06	43.14	90.95	-8,725.56	1,077.57	4,957.32	4,760.35	196.97	25.168		
19,200.00	7,730.00	8,198.40	7,827.73	169.38	43.13	90.89	-8,725.76	1,077.55	4,929.53	4,731.48	198.05	24.890		
19,300.00	7,730.00	8,193.76	7,823.09	170.70	43.13	90.83	-8,725.95	1,077.54	4,903.62	4,704.52	199.11	24.628		
19,400.00	7,730.00	8,189.20	7,818.54	172.04	43.12	90.78	-8,726.14	1,077.52	4,879.62	4,679.49	200.13	24.382		
19,500.00	7,730.00	8,184.73	7,814.07	173.40	43.11	90.72	-8,726.33	1,077.50	4,857.56	4,656.43	201.13	24.152		
19,600.00	7,730.00	8,180.33	7,809.67	174.76	43.10	90.67	-8,726.50	1,077.48	4,837.46	4,635.37	202.09	23.937		
19,700.00	7,730.00	8,176.00	7,805.35	176.14	43.09	90.62	-8,726.68	1,077.47	4,819.35	4,616.34	203.01	23.739		
19,800.00	7,730.00	8,171.75	7,801.10	177.52	43.09	90.57	-8,726.85	1,077.45	4,803.25	4,599.35	203.90	23.557		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		74-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,900.00	7,730.00	8,167.57	7,796.92	178.92	43.08	90.52	-8,727.02	1,077.43	4,789.18	4,584.44	204.74	23.392	
20,000.00	7,730.00	8,163.46	7,792.82	180.33	43.07	90.47	-8,727.18	1,077.42	4,777.15	4,571.62	205.54	23.242	
20,100.00	7,730.00	8,159.42	7,788.78	181.75	43.06	90.42	-8,727.34	1,077.40	4,767.20	4,560.91	206.29	23.109	
20,184.95	7,730.00	8,156.03	7,785.40	182.96	43.06	90.38	-8,727.47	1,077.39	4,760.37	4,553.48	206.89	23.009	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	45.34	45.34	0.00	0.07	163.98	-7,153.72	2,053.62	7,442.69					
100.00	100.00	115.08	115.08	0.13	0.25	163.98	-7,153.51	2,053.73	7,442.48	7,442.10	0.39	N/A		
200.00	199.98	166.00	166.00	0.49	0.43	93.53	-7,153.86	2,053.40	7,443.06	7,442.14	0.92	8,095.367		
300.00	299.84	211.57	211.56	0.86	0.59	93.52	-7,154.57	2,052.86	7,444.54	7,443.10	1.44	5,158.076		
400.00	399.45	257.00	256.97	1.23	0.75	93.51	-7,155.63	2,052.20	7,446.94	7,444.96	1.98	3,760.230		
500.00	498.70	298.12	298.06	1.63	0.90	93.49	-7,156.97	2,051.35	7,450.32	7,447.80	2.53	2,949.494		
600.00	597.47	349.00	348.86	2.05	1.08	93.48	-7,159.29	2,049.75	7,454.77	7,451.64	3.13	2,380.499		
700.00	695.62	375.21	375.01	2.51	1.18	93.42	-7,160.77	2,048.71	7,460.21	7,456.53	3.68	2,025.974		
800.00	793.06	413.11	412.79	3.00	1.32	93.38	-7,163.21	2,046.97	7,466.72	7,462.41	4.31	1,731.495		
900.00	889.64	440.00	439.57	3.53	1.42	93.29	-7,165.18	2,045.57	7,474.32	7,469.37	4.94	1,512.022		
1,000.00	985.27	477.85	477.24	4.12	1.57	93.22	-7,168.29	2,043.51	7,483.02	7,477.35	5.66	1,321.487		
1,100.00	1,079.82	533.00	532.05	4.75	1.78	93.19	-7,173.57	2,040.55	7,493.03	7,486.54	6.50	1,153.283		
1,200.00	1,173.17	533.00	532.05	5.44	1.78	92.97	-7,173.57	2,040.55	7,503.92	7,496.75	7.17	1,045.860		
1,300.00	1,265.21	568.65	567.43	6.18	1.93	92.86	-7,177.45	2,038.51	7,516.08	7,508.04	8.05	934.062		
1,400.00	1,355.84	625.00	623.23	6.99	2.16	92.81	-7,184.31	2,034.68	7,529.46	7,520.40	9.06	831.241		
1,500.00	1,444.94	625.00	623.23	7.87	2.16	92.52	-7,184.31	2,034.68	7,543.74	7,533.83	9.91	761.398		
1,600.00	1,532.39	666.97	664.68	8.80	2.34	92.40	-7,189.96	2,031.33	7,559.20	7,548.21	10.99	687.766		
1,700.00	1,618.11	717.00	713.96	9.81	2.55	92.30	-7,197.25	2,026.74	7,575.79	7,563.62	12.17	622.445		
1,800.00	1,701.97	717.00	713.96	10.89	2.55	91.94	-7,197.25	2,026.74	7,593.41	7,580.21	13.21	574.934		
1,900.00	1,783.88	752.29	748.63	12.04	2.72	91.74	-7,202.78	2,023.14	7,612.18	7,597.72	14.46	526.390		
2,000.00	1,863.74	774.87	770.77	13.26	2.82	91.46	-7,206.52	2,020.70	7,632.12	7,616.40	15.72	485.393		
2,100.00	1,941.45	809.00	804.14	14.55	2.98	91.22	-7,212.48	2,016.81	7,653.25	7,636.15	17.10	447.536		
2,200.00	2,016.92	809.00	804.14	15.92	2.98	90.77	-7,212.48	2,016.81	7,675.46	7,657.07	18.39	417.366		
2,292.11	2,084.36	809.00	804.14	17.25	2.98	90.32	-7,212.48	2,016.81	7,697.05	7,677.42	19.63	392.080		
2,300.00	2,090.06	809.00	804.14	17.36	2.98	90.32	-7,212.48	2,016.81	7,698.95	7,679.21	19.74	390.027		
2,400.00	2,162.18	854.78	848.77	18.84	3.20	90.61	-7,221.01	2,011.24	7,723.26	7,701.93	21.33	362.073		
2,500.00	2,234.31	898.00	890.75	20.33	3.42	90.87	-7,229.63	2,005.63	7,748.91	7,726.00	22.91	338.231		
2,600.00	2,306.43	898.00	890.75	21.83	3.42	90.87	-7,229.63	2,005.63	7,775.39	7,751.11	24.28	320.201		
2,700.00	2,378.56	898.00	890.75	23.33	3.42	90.87	-7,229.63	2,005.63	7,803.06	7,777.41	25.65	304.223		
2,800.00	2,450.68	898.00	890.75	24.84	3.42	90.87	-7,229.63	2,005.63	7,831.91	7,804.91	27.01	289.990		
2,900.00	2,522.81	934.14	925.74	26.36	3.61	91.10	-7,237.32	2,000.83	7,861.59	7,833.05	28.54	275.474		
3,000.00	2,594.93	947.74	938.87	27.88	3.68	91.18	-7,240.34	1,999.04	7,892.46	7,862.51	29.95	263.547		
3,100.00	2,667.06	986.00	975.76	29.40	3.88	91.42	-7,249.22	1,994.05	7,924.53	7,893.06	31.47	251.817		
3,200.00	2,739.18	986.00	975.76	30.92	3.88	91.42	-7,249.22	1,994.05	7,957.35	7,924.56	32.79	242.691		
3,300.00	2,811.31	986.00	975.76	32.45	3.88	91.42	-7,249.22	1,994.05	7,991.29	7,957.20	34.09	234.391		
3,400.00	2,883.43	1,008.25	997.16	33.98	4.01	91.55	-7,254.61	1,991.22	8,026.24	7,990.74	35.50	226.078		
3,500.00	2,955.56	1,036.00	1,023.83	35.51	4.16	91.72	-7,261.48	1,987.84	8,062.16	8,025.23	36.93	218.314		
3,600.00	3,027.68	1,036.00	1,023.83	37.04	4.16	91.72	-7,261.48	1,987.84	8,099.02	8,060.83	38.20	212.041		
3,700.00	3,099.81	1,067.76	1,054.34	38.57	4.34	91.92	-7,269.54	1,984.25	8,136.77	8,097.16	39.61	205.401		
3,800.00	3,171.93	1,088.34	1,074.10	40.11	4.45	92.04	-7,274.87	1,982.11	8,175.46	8,134.49	40.96	199.583		
3,900.00	3,244.06	1,109.18	1,094.11	41.64	4.57	92.16	-7,280.36	1,980.10	8,215.03	8,172.73	42.30	194.206		
4,000.00	3,316.18	1,143.00	1,126.55	43.18	4.76	92.37	-7,289.45	1,977.16	8,255.51	8,211.81	43.70	188.918		
4,100.00	3,388.31	1,161.23	1,144.02	44.71	4.86	92.47	-7,294.42	1,975.70	8,296.78	8,251.78	44.99	184.395		
4,200.00	3,460.43	1,206.45	1,187.37	46.25	5.12	92.74	-7,306.80	1,972.14	8,338.79	8,292.36	46.43	179.611		
4,300.00	3,532.56	1,272.35	1,250.54	47.79	5.49	93.12	-7,324.89	1,967.06	8,381.44	8,333.47	47.96	174.743		
4,400.00	3,604.68	1,400.00	1,373.04	49.33	6.22	93.86	-7,359.35	1,957.06	8,424.43	8,374.59	49.84	169.031		
4,500.00	3,676.81	4,500.00	1,456.99	50.87	24.06	94.37	-7,382.23	1,949.79	8,467.44	8,403.22	64.22	131.852		
4,600.00	3,748.93	1,535.62	1,503.44	52.41	7.00	94.64	-7,394.83	1,945.62	8,511.01	8,458.11	52.89	160.904		
4,700.00	3,821.06	1,580.00	1,546.04	53.95	7.26	94.90	-7,406.57	1,941.57	8,555.35	8,501.08	54.27	157.632		
4,800.00	3,893.18	1,602.50	1,567.62	55.49	7.39	95.03	-7,412.58	1,939.45	8,600.37	8,544.86	55.52	154.915		
4,900.00	3,965.31	1,640.84	1,604.37	57.03	7.62	95.25	-7,422.86	1,935.71	8,646.09	8,589.25	56.84	152.118		
5,000.00	4,037.43	1,686.98	1,648.54	58.58	7.89	95.52	-7,435.32	1,931.02	8,692.46	8,634.26	58.19	149.371		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	1,751.08	1,709.90	60.12	8.28	95.89	-7,452.59	1,924.31	8,739.35	8,679.71	59.64	146.523		
5,200.00	4,181.68	1,801.31	1,757.99	61.66	8.58	96.17	-7,466.10	1,918.94	8,786.77	8,725.77	61.00	144.038		
5,300.00	4,253.81	1,856.01	1,810.33	63.20	8.91	96.49	-7,480.84	1,913.04	8,834.75	8,772.37	62.38	141.635		
5,400.00	4,325.93	1,932.77	1,883.82	64.75	9.37	96.92	-7,501.45	1,904.88	8,883.17	8,819.30	63.87	139.075		
5,500.00	4,398.06	1,976.82	1,926.02	66.29	9.64	97.17	-7,513.28	1,900.38	8,932.07	8,866.91	65.16	137.076		
5,600.00	4,470.18	2,198.98	2,139.53	67.84	10.94	98.40	-7,571.00	1,879.61	8,980.64	8,913.13	67.51	133.030		
5,700.00	4,542.31	2,191.00	2,131.85	69.38	10.90	98.36	-7,568.99	1,880.41	9,029.74	8,961.27	68.47	131.883		
5,800.00	4,614.43	2,235.30	2,174.42	70.92	11.16	98.61	-7,580.26	1,875.63	9,079.37	9,009.64	69.73	130.210		
5,900.00	4,686.56	5,900.00	2,240.56	72.47	33.24	98.99	-7,598.05	1,866.91	9,129.82	9,043.35	86.47	105.581		
6,000.00	4,758.68	2,402.51	2,334.75	74.01	12.16	99.54	-7,622.70	1,854.33	9,180.37	9,107.68	72.69	126.290		
6,100.00	4,830.81	2,427.34	2,358.58	75.56	12.31	99.68	-7,628.95	1,851.26	9,231.39	9,157.59	73.80	125.084		
6,200.00	4,902.93	6,200.00	2,521.42	77.10	34.23	100.60	-7,671.48	1,832.44	9,282.89	9,192.14	90.75	102.291		
6,300.00	4,975.06	2,627.00	2,550.62	78.65	13.48	100.76	-7,678.88	1,829.16	9,334.27	9,257.36	76.91	121.374		
6,400.00	5,047.18	2,665.38	2,587.59	80.19	13.71	100.97	-7,688.15	1,824.60	9,386.10	9,308.03	78.07	120.232		
6,500.00	5,119.31	2,680.76	2,602.36	81.74	13.80	101.06	-7,691.96	1,822.74	9,438.70	9,359.63	79.07	119.365		
6,600.00	5,191.43	2,714.00	2,634.25	83.28	14.00	101.23	-7,700.42	1,818.63	9,492.05	9,411.87	80.18	118.384		
6,700.00	5,263.56	2,714.00	2,634.25	84.83	14.00	101.23	-7,700.42	1,818.63	9,545.93	9,464.87	81.07	117.755		
6,800.00	5,335.68	2,926.64	2,838.54	86.37	15.26	102.37	-7,753.99	1,793.94	9,600.02	9,516.75	83.28	115.279		
6,900.00	5,407.81	2,976.00	2,886.09	87.92	15.55	102.62	-7,765.97	1,788.32	9,653.93	9,569.47	84.46	114.308		
7,000.00	5,479.93	3,014.45	2,923.12	89.47	15.77	102.83	-7,775.40	1,784.10	9,708.32	9,622.77	85.56	113.474		
7,100.00	5,552.06	3,040.12	2,947.84	91.01	15.92	102.96	-7,781.84	1,781.48	9,763.31	9,676.74	86.57	112.784		
7,200.00	5,624.18	3,068.38	2,975.02	92.56	16.09	103.10	-7,789.06	1,778.77	9,818.86	9,731.28	87.58	112.109		
7,300.00	5,696.31	3,125.02	3,029.50	94.10	16.42	103.39	-7,803.65	1,773.48	9,874.85	9,786.08	88.77	111.238		
7,400.00	5,768.43	3,170.35	3,073.09	95.65	16.69	103.62	-7,815.34	1,769.24	9,931.23	9,841.35	89.88	110.494		
7,500.00	5,840.56	3,205.60	3,106.97	97.20	16.90	103.80	-7,824.45	1,765.74	9,988.07	9,897.16	90.91	109.864		
11,100.00	7,730.00	8,033.74	7,865.80	131.56	35.56	91.51	-8,338.80	1,577.14	9,985.19	9,846.48	138.71	71.984		
11,200.00	7,730.00	8,032.73	7,864.78	131.36	35.56	91.49	-8,338.81	1,577.13	9,984.80	9,755.86	138.94	71.217		
11,300.00	7,730.00	8,031.73	7,863.78	131.17	35.55	91.48	-8,338.82	1,577.11	9,984.60	9,665.42	139.17	70.450		
11,400.00	7,730.00	8,030.74	7,862.80	130.99	35.55	91.47	-8,338.82	1,577.10	9,974.58	9,575.17	139.41	69.684		
11,500.00	7,730.00	8,029.77	7,861.83	130.82	35.55	91.45	-8,338.83	1,577.09	9,964.76	9,485.11	139.65	68.919		
11,600.00	7,730.00	8,028.82	7,860.87	130.66	35.55	91.44	-8,338.83	1,577.08	9,955.15	9,395.24	139.91	68.154		
11,700.00	7,730.00	8,027.88	7,859.93	130.51	35.54	91.43	-8,338.84	1,577.06	9,945.74	9,305.58	140.17	67.390		
11,800.00	7,730.00	8,026.95	7,859.00	130.37	35.54	91.42	-8,338.84	1,577.05	9,936.55	9,216.12	140.43	66.627		
11,900.00	7,730.00	8,026.03	7,858.08	130.24	35.54	91.40	-8,338.85	1,577.04	9,927.58	9,126.87	140.71	65.865		
12,000.00	7,730.00	8,025.13	7,857.18	130.13	35.54	91.39	-8,338.86	1,577.03	9,918.83	9,037.85	140.99	65.104		
12,100.00	7,730.00	8,024.24	7,856.29	130.02	35.54	91.38	-8,338.86	1,577.02	9,909.32	8,949.04	141.28	64.344		
12,200.00	7,730.00	8,023.36	7,855.41	129.93	35.53	91.37	-8,338.87	1,577.01	9,900.05	8,860.48	141.57	63.585		
12,300.00	7,730.00	8,022.49	7,854.55	129.85	35.53	91.36	-8,338.87	1,577.00	8,914.03	8,772.15	141.88	62.827		
12,400.00	7,730.00	8,021.64	7,853.69	129.77	35.53	91.34	-8,338.88	1,576.98	8,826.26	8,684.06	142.20	62.071		
12,500.00	7,730.00	8,020.80	7,852.85	129.71	35.53	91.33	-8,338.88	1,576.97	8,738.76	8,596.24	142.52	61.316		
12,600.00	7,730.00	8,019.96	7,852.02	129.66	35.52	91.32	-8,338.89	1,576.96	8,651.52	8,508.67	142.85	60.562		
12,700.00	7,730.00	8,019.14	7,851.20	129.63	35.52	91.31	-8,338.89	1,576.95	8,564.57	8,421.37	143.20	59.810		
12,800.00	7,730.00	8,018.34	7,850.39	129.60	35.52	91.30	-8,338.90	1,576.94	8,477.90	8,334.35	143.55	59.060		
12,900.00	7,730.00	8,017.54	7,849.59	129.59	35.52	91.29	-8,338.90	1,576.93	8,391.53	8,247.62	143.91	58.311		
13,000.00	7,730.00	8,016.75	7,848.80	129.59	35.52	91.28	-8,338.90	1,576.92	8,305.46	8,161.18	144.28	57.564		
13,100.00	7,730.00	8,015.97	7,848.03	129.60	35.51	91.27	-8,338.91	1,576.91	8,219.71	8,075.05	144.67	56.819		
13,200.00	7,730.00	8,015.20	7,847.26	129.63	35.51	91.26	-8,338.91	1,576.90	8,134.29	7,989.23	145.06	56.076		
13,300.00	7,730.00	8,014.45	7,846.50	129.66	35.51	91.25	-8,338.92	1,576.89	8,049.20	7,903.74	145.46	55.335		
13,400.00	7,730.00	8,013.70	7,845.75	129.72	35.51	91.24	-8,338.92	1,576.88	7,964.46	7,818.58	145.88	54.596		
13,500.00	7,730.00	8,012.96	7,845.02	129.78	35.51	91.23	-8,338.93	1,576.87	7,880.07	7,733.76	146.31	53.859		
13,600.00	7,730.00	8,012.23	7,844.29	129.86	35.51	91.22	-8,338.93	1,576.86	7,796.06	7,649.31	146.75	53.125		
13,700.00	7,730.00	8,011.51	7,843.57	129.96	35.50	91.21	-8,338.93	1,576.85	7,712.42	7,565.22	147.20	52.394		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,730.00	8,010.80	7,842.86	130.07	35.50	91.20	-8,338.94	1,576.84	7,629.18	7,481.52	147.67	51.665		
13,900.00	7,730.00	8,010.10	7,842.15	130.19	35.50	91.19	-8,338.94	1,576.84	7,546.35	7,398.20	148.15	50.939		
14,000.00	7,730.00	8,009.41	7,841.46	130.33	35.50	91.18	-8,338.94	1,576.83	7,463.94	7,315.30	148.64	50.216		
14,100.00	7,730.00	8,008.72	7,840.78	130.49	35.50	91.17	-8,338.95	1,576.82	7,381.96	7,232.82	149.14	49.496		
14,200.00	7,730.00	8,008.05	7,840.10	130.67	35.49	91.16	-8,338.95	1,576.81	7,300.43	7,150.77	149.66	48.780		
14,300.00	7,730.00	8,007.38	7,839.43	130.86	35.49	91.15	-8,338.95	1,576.80	7,219.37	7,069.17	150.20	48.067		
14,400.00	7,730.00	8,006.72	7,838.77	131.07	35.49	91.14	-8,338.96	1,576.79	7,138.78	6,988.04	150.74	47.357		
14,500.00	7,730.00	8,006.06	7,838.12	131.30	35.49	91.13	-8,338.96	1,576.78	7,058.69	6,907.39	151.31	46.651		
14,600.00	7,730.00	8,005.42	7,837.47	131.55	35.49	91.13	-8,338.96	1,576.77	6,979.12	6,827.23	151.89	45.950		
14,700.00	7,730.00	8,004.78	7,836.84	131.82	35.49	91.12	-8,338.97	1,576.77	6,900.08	6,747.60	152.48	45.252		
14,800.00	7,730.00	8,004.15	7,836.21	132.11	35.49	91.11	-8,338.97	1,576.76	6,821.59	6,668.49	153.09	44.559		
14,900.00	7,730.00	8,003.53	7,835.59	132.42	35.48	91.10	-8,338.97	1,576.75	6,743.66	6,589.94	153.72	43.871		
15,000.00	7,730.00	8,002.92	7,834.97	132.75	35.48	91.09	-8,338.98	1,576.74	6,666.33	6,511.97	154.36	43.187		
15,100.00	7,730.00	8,002.31	7,834.36	133.10	35.48	91.08	-8,338.98	1,576.73	6,589.60	6,434.58	155.02	42.508		
15,200.00	7,730.00	8,001.71	7,833.76	133.48	35.48	91.08	-8,338.98	1,576.73	6,513.51	6,357.81	155.70	41.834		
15,300.00	7,730.00	8,001.11	7,833.17	133.88	35.48	91.07	-8,338.99	1,576.72	6,438.07	6,281.68	156.39	41.166		
15,400.00	7,730.00	8,000.53	7,832.58	134.31	35.48	91.06	-8,338.99	1,576.71	6,363.31	6,206.21	157.10	40.504		
15,500.00	7,730.00	7,999.95	7,832.00	134.76	35.47	91.05	-8,338.99	1,576.70	6,289.25	6,131.42	157.83	39.848		
15,600.00	7,730.00	7,999.37	7,831.43	135.23	35.47	91.04	-8,338.99	1,576.70	6,215.92	6,057.34	158.58	39.197		
15,700.00	7,730.00	7,998.81	7,830.86	135.73	35.47	91.04	-8,339.00	1,576.69	6,143.34	5,983.99	159.35	38.554		
15,800.00	7,730.00	7,998.24	7,830.30	136.26	35.47	91.03	-8,339.00	1,576.68	6,071.54	5,911.41	160.13	37.917		
15,900.00	7,730.00	7,997.69	7,829.74	136.81	35.47	91.02	-8,339.00	1,576.67	6,000.54	5,839.61	160.93	37.287		
16,000.00	7,730.00	7,997.14	7,829.20	137.39	35.47	91.01	-8,339.00	1,576.67	5,930.38	5,768.63	161.75	36.664		
16,100.00	7,730.00	7,996.60	7,828.65	138.00	35.47	91.01	-8,339.01	1,576.66	5,861.09	5,698.51	162.59	36.049		
16,200.00	7,730.00	7,996.06	7,828.12	138.63	35.46	91.00	-8,339.01	1,576.65	5,792.70	5,629.26	163.44	35.442		
16,300.00	7,730.00	7,995.53	7,827.58	139.30	35.46	90.99	-8,339.01	1,576.65	5,725.23	5,560.92	164.31	34.843		
16,400.00	7,730.00	7,995.00	7,827.06	139.99	35.46	90.98	-8,339.01	1,576.64	5,658.73	5,493.53	165.20	34.253		
16,500.00	7,730.00	7,994.48	7,826.54	140.70	35.46	90.98	-8,339.02	1,576.63	5,593.23	5,427.12	166.11	33.672		
16,600.00	7,730.00	7,993.97	7,826.02	141.45	35.46	90.97	-8,339.02	1,576.62	5,528.76	5,361.72	167.03	33.099		
16,700.00	7,730.00	7,993.46	7,825.52	142.22	35.46	90.96	-8,339.02	1,576.62	5,465.35	5,297.38	167.97	32.537		
16,800.00	7,730.00	7,992.96	7,825.01	143.03	35.46	90.96	-8,339.02	1,576.61	5,403.06	5,234.13	168.93	31.984		
16,900.00	7,730.00	7,992.46	7,824.51	143.86	35.46	90.95	-8,339.03	1,576.60	5,341.91	5,172.01	169.90	31.442		
17,000.00	7,730.00	7,991.96	7,824.02	144.71	35.45	90.94	-8,339.03	1,576.60	5,281.94	5,111.06	170.88	30.910		
17,100.00	7,730.00	7,991.48	7,823.53	145.60	35.45	90.94	-8,339.03	1,576.59	5,223.20	5,051.33	171.88	30.389		
17,200.00	7,730.00	7,990.99	7,823.05	146.51	35.45	90.93	-8,339.03	1,576.59	5,165.73	4,992.85	172.88	29.880		
17,300.00	7,730.00	7,990.52	7,822.57	147.44	35.45	90.92	-8,339.03	1,576.58	5,109.57	4,935.67	173.90	29.382		
17,400.00	7,730.00	7,990.04	7,822.10	148.40	35.45	90.92	-8,339.04	1,576.57	5,054.77	4,879.84	174.93	28.897		
17,500.00	7,730.00	7,989.57	7,821.63	149.39	35.45	90.91	-8,339.04	1,576.57	5,001.36	4,825.40	175.96	28.424		
17,600.00	7,730.00	7,989.11	7,821.17	150.40	35.45	90.91	-8,339.04	1,576.56	4,949.40	4,772.40	177.00	27.963		
17,700.00	7,730.00	7,988.65	7,820.71	151.44	35.45	90.90	-8,339.04	1,576.55	4,898.93	4,720.89	178.04	27.516		
17,800.00	7,730.00	7,988.20	7,820.25	152.50	35.45	90.89	-8,339.04	1,576.55	4,849.99	4,670.91	179.08	27.083		
17,900.00	7,730.00	7,987.75	7,819.80	153.58	35.44	90.89	-8,339.05	1,576.54	4,802.64	4,622.52	180.12	26.663		
18,000.00	7,730.00	7,987.30	7,819.36	154.68	35.44	90.88	-8,339.05	1,576.54	4,756.92	4,575.76	181.16	26.257		
18,100.00	7,730.00	7,986.86	7,818.92	155.80	35.44	90.88	-8,339.05	1,576.53	4,712.88	4,530.68	182.20	25.867		
18,200.00	7,730.00	7,986.42	7,818.48	156.95	35.44	90.87	-8,339.05	1,576.53	4,670.57	4,487.34	183.22	25.491		
18,300.00	7,730.00	7,985.99	7,818.05	158.11	35.44	90.86	-8,339.05	1,576.52	4,630.03	4,445.79	184.24	25.130		
18,400.00	7,730.00	7,985.56	7,817.62	159.30	35.44	90.86	-8,339.06	1,576.51	4,591.31	4,406.07	185.24	24.786		
18,500.00	7,730.00	7,985.14	7,817.20	160.50	35.44	90.85	-8,339.06	1,576.51	4,554.45	4,368.23	186.22	24.457		
18,600.00	7,730.00	7,984.72	7,816.78	161.72	35.44	90.85	-8,339.06	1,576.50	4,519.51	4,332.32	187.19	24.144		
18,700.00	7,730.00	7,984.30	7,816.36	162.96	35.44	90.84	-8,339.06	1,576.50	4,486.52	4,298.40	188.13	23.848		
18,800.00	7,730.00	7,983.89	7,815.95	164.21	35.43	90.84	-8,339.06	1,576.49	4,455.54	4,266.50	189.04	23.569		
18,900.00	7,730.00	7,983.48	7,815.54	165.48	35.43	90.83	-8,339.06	1,576.49	4,426.60	4,236.67	189.93	23.307		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,000.00	7,730.00	7,983.08	7,815.14	166.76	35.43	90.82	-8,339.07	1,576.48	4,399.74	4,208.96	190.78	23.062	
19,100.00	7,730.00	7,982.68	7,814.74	168.06	35.43	90.82	-8,339.07	1,576.48	4,375.00	4,183.41	191.59	22.835	
19,200.00	7,730.00	7,982.28	7,814.34	169.38	35.43	90.81	-8,339.07	1,576.47	4,352.42	4,160.06	192.37	22.626	
19,300.00	7,730.00	7,981.89	7,813.95	170.70	35.43	90.81	-8,339.07	1,576.46	4,332.03	4,138.94	193.10	22.434	
19,400.00	7,730.00	7,981.50	7,813.56	172.04	35.43	90.80	-8,339.07	1,576.46	4,313.87	4,120.08	193.78	22.261	
19,500.00	7,730.00	7,981.11	7,813.17	173.40	35.43	90.80	-8,339.07	1,576.45	4,297.95	4,103.53	194.42	22.106	
19,600.00	7,730.00	7,980.73	7,812.79	174.76	35.43	90.79	-8,339.07	1,576.45	4,284.31	4,089.30	195.01	21.970	
19,700.00	7,730.00	7,980.35	7,812.41	176.14	35.43	90.79	-8,339.08	1,576.44	4,272.97	4,077.42	195.54	21.852	
19,800.00	7,730.00	7,979.98	7,812.03	177.52	35.42	90.78	-8,339.08	1,576.44	4,263.94	4,067.92	196.02	21.752	
19,900.00	7,730.00	7,979.60	7,811.66	178.92	35.42	90.78	-8,339.08	1,576.43	4,257.24	4,060.80	196.44	21.672	
20,000.00	7,730.00	7,979.24	7,811.29	180.33	35.42	90.77	-8,339.08	1,576.43	4,252.89	4,056.08	196.80	21.610	
20,100.00	7,730.00	7,978.87	7,810.93	181.75	35.42	90.77	-8,339.08	1,576.42	4,250.88	4,053.78	197.11	21.566	
20,135.34	7,730.00	7,978.74	7,810.80	182.25	35.42	90.77	-8,339.08	1,576.42	4,250.73	4,053.54	197.20	21.556 CC, ES	
20,184.95	7,730.00	7,978.56	7,810.62	182.96	35.42	90.76	-8,339.08	1,576.42	4,251.02	4,053.71	197.31	21.544 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	22.16	22.16	0.00	0.04	163.83	-7,110.46	2,061.70	7,403.32					
100.00	100.00	114.47	114.47	0.13	0.19	163.83	-7,110.43	2,062.03	7,403.40	7,403.08	0.32	N/A		
200.00	199.98	187.45	187.43	0.49	0.41	93.37	-7,110.26	2,063.36	7,403.79	7,402.89	0.90	8,222.765		
300.00	299.84	226.00	225.93	0.86	0.56	93.34	-7,109.96	2,065.25	7,404.89	7,403.49	1.40	5,276.344		
400.00	399.45	266.51	266.34	1.23	0.71	93.30	-7,109.73	2,068.11	7,407.01	7,405.07	1.93	3,830.620		
500.00	498.70	318.00	317.60	1.63	0.91	93.25	-7,109.93	2,072.97	7,410.46	7,407.93	2.52	2,935.426		
600.00	597.47	330.16	329.69	2.05	0.95	93.17	-7,110.05	2,074.29	7,414.81	7,411.81	3.00	2,474.851		
700.00	695.62	700.00	833.01	2.51	2.52	93.19	-7,093.34	2,162.86	7,419.71	7,414.70	5.01	1,480.781		
800.00	793.06	940.00	927.25	3.00	3.79	93.16	-7,084.36	2,187.02	7,419.11	7,412.33	6.78	1,094.494		
844.05	835.72	978.84	964.61	3.23	4.01	93.16	-7,080.74	2,196.98	7,418.98	7,411.74	7.24	1,025.369		
900.00	889.64	1,005.43	990.17	3.53	4.16	93.15	-7,078.36	2,203.94	7,419.12	7,411.43	7.69	965.120		
1,000.00	985.27	1,069.43	1,051.64	4.12	4.53	93.14	-7,072.90	2,220.90	7,420.01	7,411.37	8.64	859.024		
1,100.00	1,079.82	1,154.25	1,133.30	4.75	5.01	93.15	-7,066.12	2,242.78	7,421.42	7,411.66	9.76	760.543		
1,200.00	1,173.17	1,236.48	1,212.63	5.44	5.49	93.18	-7,059.79	2,263.48	7,423.16	7,412.24	10.92	679.729		
1,300.00	1,265.21	1,308.49	1,281.56	6.18	5.92	93.19	-7,054.03	2,283.49	7,425.51	7,413.42	12.10	613.889		
1,400.00	1,355.84	1,426.52	1,394.59	6.99	6.63	93.27	-7,044.48	2,316.13	7,427.95	7,414.33	13.62	545.367		
1,500.00	1,444.94	1,491.92	1,457.34	7.87	7.03	93.31	-7,039.39	2,333.80	7,430.80	7,415.91	14.88	499.238		
1,600.00	1,532.39	1,557.00	1,519.79	8.80	7.42	93.34	-7,034.79	2,351.55	7,434.54	7,418.33	16.21	458.563		
1,700.00	1,618.11	1,655.30	1,614.04	9.81	8.01	93.45	-7,027.98	2,378.64	7,438.84	7,421.02	17.81	417.572		
1,800.00	1,701.97	1,768.59	1,722.42	10.89	8.71	93.61	-7,019.51	2,410.52	7,443.08	7,423.49	19.59	379.951		
1,900.00	1,783.88	1,896.76	1,845.24	12.04	9.50	93.83	-7,009.77	2,445.83	7,447.41	7,425.89	21.52	346.061		
2,000.00	1,863.74	1,986.86	1,931.76	13.26	10.04	93.99	-7,002.83	2,470.00	7,451.84	7,428.56	23.28	320.084		
2,100.00	1,941.45	2,100.03	2,040.47	14.55	10.72	94.23	-6,994.01	2,500.20	7,456.57	7,431.32	25.25	295.303		
2,200.00	2,016.92	2,168.00	2,105.79	15.92	11.13	94.34	-6,988.72	2,518.22	7,461.77	7,434.75	27.02	276.187		
2,292.11	2,084.36	2,215.89	2,151.81	17.25	11.42	94.40	-6,985.15	2,531.02	7,467.34	7,438.72	28.62	260.920		
2,300.00	2,090.06	2,219.48	2,155.26	17.36	11.44	94.41	-6,984.90	2,531.99	7,467.86	7,439.10	28.76	259.701		
2,400.00	2,162.18	2,400.00	2,242.95	18.84	12.57	94.73	-6,978.21	2,557.54	7,474.66	7,443.32	31.34	238.475		
2,500.00	2,234.31	2,430.00	2,356.71	20.33	12.75	95.14	-6,968.68	2,590.85	7,481.02	7,448.02	33.00	226.675		
2,600.00	2,306.43	2,478.37	2,403.12	21.83	13.05	95.31	-6,964.96	2,603.97	7,488.01	7,453.23	34.78	215.314		
2,700.00	2,378.56	2,517.00	2,440.09	23.33	13.29	95.44	-6,962.32	2,614.86	7,496.01	7,459.52	36.49	205.414		
2,800.00	2,450.68	2,549.45	2,471.12	24.84	13.49	95.55	-6,960.31	2,624.14	7,504.90	7,466.73	38.17	196.613		
2,900.00	2,522.81	2,604.00	2,523.36	26.36	13.83	95.74	-6,957.32	2,639.57	7,514.66	7,474.67	39.99	187.912		
3,000.00	2,594.93	2,680.40	2,596.36	27.88	14.31	96.00	-6,953.29	2,661.71	7,525.00	7,483.04	41.96	179.347		
3,100.00	2,667.06	2,772.63	2,684.47	29.40	14.89	96.32	-6,948.27	2,688.54	7,535.51	7,491.48	44.03	171.155		
3,200.00	2,739.18	2,889.63	2,796.54	30.92	15.62	96.72	-6,941.71	2,721.49	7,545.94	7,499.69	46.25	163.166		
3,300.00	2,811.31	2,953.00	2,857.17	32.45	16.01	96.94	-6,938.28	2,739.59	7,556.87	7,508.75	48.12	157.033		
3,400.00	2,883.43	3,163.47	3,058.36	33.98	17.34	97.65	-6,925.23	2,799.96	7,567.45	7,516.49	50.96	148.495		
3,500.00	2,955.56	3,215.00	3,107.54	35.51	17.67	97.82	-6,921.71	2,814.94	7,577.76	7,525.00	52.76	143.615		
3,600.00	3,027.68	3,320.44	3,208.46	37.04	18.32	98.18	-6,914.74	2,844.65	7,588.39	7,533.48	54.90	138.216		
3,700.00	3,099.81	3,382.89	3,268.72	38.57	18.69	98.40	-6,910.94	2,860.60	7,599.39	7,542.65	56.74	133.937		
3,800.00	3,171.93	3,538.42	3,420.07	40.11	19.52	98.99	-6,901.57	2,895.12	7,610.20	7,551.15	59.05	128.884		
3,900.00	3,244.06	3,610.12	3,490.33	41.64	19.87	99.28	-6,897.41	2,908.80	7,621.27	7,560.41	60.86	125.234		
4,000.00	3,316.18	3,673.65	3,552.84	43.18	20.16	99.54	-6,894.04	2,919.64	7,632.89	7,570.29	62.60	121.927		
4,100.00	3,388.31	3,732.14	3,610.56	44.71	20.42	99.78	-6,891.26	2,928.65	7,645.16	7,580.86	64.30	118.893		
4,200.00	3,460.43	3,805.71	3,683.37	46.25	20.72	100.10	-6,888.07	2,938.72	7,658.01	7,591.97	66.04	115.955		
4,300.00	3,532.56	3,894.05	3,771.03	47.79	21.06	100.49	-6,884.47	2,949.03	7,671.31	7,603.49	67.81	113.122		
4,400.00	3,604.68	3,959.86	3,836.46	49.33	21.29	100.79	-6,881.89	2,955.60	7,685.04	7,615.56	69.47	110.618		
4,500.00	3,676.81	4,022.57	3,898.89	50.87	21.51	101.08	-6,879.68	2,961.10	7,699.43	7,628.32	71.10	108.284		
4,600.00	3,748.93	4,094.80	3,970.86	52.41	21.75	101.42	-6,877.27	2,966.69	7,714.38	7,641.63	72.75	106.040		
4,700.00	3,821.06	4,151.47	4,027.36	53.95	21.93	101.68	-6,875.53	2,970.59	7,729.96	7,655.63	74.32	104.002		
4,800.00	3,893.18	4,226.33	4,102.06	55.49	22.17	102.04	-6,873.43	2,975.19	7,746.18	7,670.24	75.95	101.995		
4,900.00	3,965.31	4,305.69	4,181.26	57.03	22.41	102.41	-6,871.16	2,979.59	7,762.85	7,685.28	77.57	100.078		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,390.43	4,265.86	58.58	22.67	102.82	-6,868.77	2,983.78	7,780.01	7,700.82	79.19	98.241		
5,100.00	4,109.56	4,485.89	4,361.17	60.12	22.96	103.27	-6,865.84	2,988.36	7,797.49	7,716.65	80.84	96.455		
5,200.00	4,181.68	4,573.41	4,448.57	61.66	23.22	103.69	-6,863.02	2,992.22	7,815.34	7,732.89	82.45	94.786		
5,300.00	4,253.81	4,651.49	4,526.54	63.20	23.45	104.06	-6,860.42	2,995.36	7,833.61	7,749.59	84.02	93.233		
5,400.00	4,325.93	4,722.06	4,597.01	64.75	23.66	104.40	-6,858.11	2,997.96	7,852.42	7,766.86	85.56	91.781		
5,500.00	4,398.06	4,798.82	4,673.70	66.29	23.89	104.77	-6,855.64	3,000.54	7,871.78	7,784.68	87.10	90.378		
5,600.00	4,470.18	4,957.38	4,832.06	67.84	24.35	105.53	-6,849.64	3,005.41	7,891.21	7,802.34	88.87	88.797		
5,700.00	4,542.31	5,029.29	4,903.88	69.38	24.55	105.87	-6,846.54	3,007.36	7,910.76	7,820.39	90.37	87.538		
5,800.00	4,614.43	5,098.61	4,973.12	70.92	24.75	106.20	-6,843.60	3,008.92	7,930.86	7,839.01	91.85	86.345		
5,900.00	4,686.56	5,136.00	5,010.47	72.47	24.86	106.38	-6,842.03	3,009.63	7,951.60	7,858.37	93.23	85.291		
6,000.00	4,758.68	5,184.32	5,058.75	74.01	25.00	106.62	-6,840.19	3,010.47	7,973.11	7,878.48	94.62	84.261		
6,100.00	4,830.81	5,217.33	5,091.74	75.56	25.09	106.77	-6,839.15	3,011.01	7,995.54	7,899.58	95.96	83.320		
6,200.00	4,902.93	5,250.21	5,124.60	77.10	25.18	106.93	-6,838.27	3,011.54	8,018.85	7,921.57	97.29	82.426		
6,300.00	4,975.06	5,310.00	5,184.37	78.65	25.35	107.22	-6,837.11	3,012.46	8,043.14	7,944.47	98.68	81.510		
6,400.00	5,047.18	5,310.00	5,184.37	80.19	25.35	107.22	-6,837.11	3,012.46	8,068.10	7,968.23	99.87	80.787		
6,500.00	5,119.31	5,350.59	5,224.96	81.74	25.46	107.41	-6,836.62	3,013.07	8,094.00	7,992.83	101.17	80.001		
6,600.00	5,191.43	5,385.16	5,259.52	83.28	25.55	107.58	-6,836.39	3,013.60	8,120.74	8,018.30	102.44	79.270		
6,700.00	5,263.56	5,419.64	5,294.00	84.83	25.65	107.74	-6,836.32	3,014.14	8,148.32	8,044.62	103.70	78.576		
6,800.00	5,335.68	5,485.00	5,359.35	86.37	25.82	108.05	-6,836.64	3,015.21	8,176.83	8,071.79	105.05	77.839		
6,900.00	5,407.81	5,491.53	5,365.88	87.92	25.84	108.08	-6,836.70	3,015.32	8,205.92	8,099.74	106.18	77.283		
7,000.00	5,479.93	5,557.96	5,432.30	89.47	26.02	108.39	-6,837.36	3,016.31	8,235.76	8,128.26	107.50	76.609		
7,100.00	5,552.06	7,100.00	5,613.46	91.01	30.14	109.25	-6,838.12	3,018.00	8,265.83	8,152.93	112.91	73.210		
7,200.00	5,624.18	5,916.83	5,791.13	92.56	26.98	110.08	-6,836.30	3,019.11	8,295.22	8,184.36	110.87	74.822		
7,300.00	5,696.31	5,979.13	5,853.41	94.10	27.15	110.37	-6,835.30	3,019.43	8,324.65	8,212.50	112.15	74.228		
7,400.00	5,768.43	6,047.32	5,921.60	95.65	27.34	110.69	-6,834.27	3,019.77	8,354.62	8,241.18	113.44	73.647		
7,500.00	5,840.56	6,120.93	5,995.20	97.20	27.55	111.03	-6,833.16	3,020.08	8,385.05	8,270.31	114.74	73.079		
7,600.00	5,912.68	6,196.53	6,070.79	98.74	27.76	111.38	-6,832.00	3,020.34	8,415.91	8,299.88	116.03	72.530		
7,700.00	5,984.81	6,283.26	6,157.51	100.29	28.00	111.78	-6,830.56	3,020.54	8,447.15	8,329.80	117.35	71.981		
7,800.00	6,056.93	6,370.02	6,244.26	101.84	28.24	112.18	-6,828.96	3,020.62	8,478.70	8,360.04	118.66	71.454		
7,900.00	6,129.06	6,457.76	6,331.98	103.38	28.49	112.58	-6,827.18	3,020.68	8,510.57	8,390.61	119.96	70.945		
8,000.00	6,201.18	6,547.22	6,421.42	104.93	28.75	112.99	-6,825.20	3,020.78	8,542.74	8,421.49	121.26	70.452		
8,100.00	6,273.31	6,646.39	6,520.56	106.48	29.03	113.44	-6,822.78	3,021.06	8,575.15	8,452.57	122.58	69.956		
8,200.00	6,345.43	6,731.43	6,605.57	108.02	29.28	113.82	-6,820.51	3,021.47	8,607.79	8,483.94	123.84	69.505		
8,300.00	6,417.56	6,793.76	6,667.87	109.57	29.46	114.09	-6,818.87	3,021.80	8,640.87	8,515.84	125.03	69.112		
8,400.00	6,489.68	6,856.02	6,730.11	111.12	29.65	114.37	-6,817.31	3,022.12	8,674.45	8,548.25	126.20	68.737		
8,500.00	6,561.81	6,913.49	6,787.56	112.66	29.81	114.62	-6,815.95	3,022.40	8,708.54	8,581.20	127.34	68.387		
8,600.00	6,633.93	6,967.45	6,841.51	114.21	29.97	114.86	-6,814.78	3,022.63	8,743.19	8,614.73	128.46	68.060		
8,700.00	6,706.06	7,021.29	6,895.34	115.76	30.13	115.10	-6,813.73	3,022.83	8,778.39	8,648.82	129.57	67.750		
8,800.00	6,778.18	7,079.30	6,953.34	117.30	30.30	115.35	-6,812.71	3,023.01	8,814.13	8,683.45	130.68	67.446		
8,900.00	6,850.31	7,145.19	7,019.22	118.85	30.50	115.64	-6,811.64	3,023.29	8,850.35	8,718.53	131.82	67.141		
9,000.00	6,922.43	7,211.20	7,085.22	120.40	30.69	115.92	-6,810.64	3,023.66	8,886.99	8,754.05	132.94	66.849		
9,100.00	6,994.56	7,274.51	7,148.52	121.95	30.88	116.20	-6,809.76	3,024.07	8,924.08	8,790.03	134.05	66.574		
9,200.00	7,066.68	7,336.54	7,210.55	123.49	31.07	116.46	-6,808.96	3,024.45	8,961.62	8,826.48	135.14	66.314		
9,300.00	7,138.81	7,398.47	7,272.48	125.04	31.26	116.73	-6,808.23	3,024.78	8,999.62	8,863.40	136.22	66.067		
9,392.50	7,205.52	7,475.38	7,349.37	126.47	31.49	117.05	-6,807.34	3,025.22	9,035.10	8,897.81	137.29	65.811		
9,400.00	7,210.94	7,481.88	7,355.87	126.59	31.51	116.25	-6,807.26	3,025.26	9,037.94	8,900.57	137.38	65.790		
9,450.00	7,247.42	7,525.63	7,399.62	127.35	31.64	110.82	-6,806.72	3,025.55	9,054.63	8,916.66	137.98	65.625		
9,500.00	7,284.35	7,569.91	7,443.90	128.10	31.78	105.28	-6,806.15	3,025.89	9,067.32	8,928.73	138.60	65.422		
9,550.00	7,321.43	7,614.37	7,488.35	128.83	31.91	99.76	-6,805.54	3,026.26	9,075.93	8,936.70	139.23	65.185		
9,600.00	7,358.38	7,639.83	7,513.81	129.52	31.99	94.31	-6,805.23	3,026.46	9,080.47	8,940.66	139.81	64.951		
9,650.00	7,394.93	7,673.09	7,547.07	130.16	32.09	89.18	-6,804.81	3,026.73	9,080.87	8,940.47	140.41	64.676		
9,700.00	7,430.79	7,705.69	7,579.66	130.76	32.19	84.45	-6,804.41	3,026.99	9,077.17	8,936.17	141.00	64.378		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,737.37	7,611.34	131.30	32.29	80.20	-6,804.04	3,027.25	9,069.38	8,927.80	141.57	64.061		
9,800.00	7,499.38	7,769.34	7,643.30	131.78	32.39	76.48	-6,803.68	3,027.51	9,057.56	8,915.43	142.13	63.727		
9,850.00	7,531.58	7,801.74	7,675.70	132.21	32.49	73.34	-6,803.31	3,027.79	9,041.81	8,899.14	142.67	63.377		
9,900.00	7,562.06	7,832.40	7,706.36	132.57	32.58	70.77	-6,802.98	3,028.08	9,022.22	8,879.05	143.17	63.018		
9,950.00	7,590.58	7,861.07	7,735.03	132.87	32.67	68.77	-6,802.67	3,028.37	8,998.96	8,855.32	143.63	62.652		
10,000.00	7,616.93	7,887.53	7,761.49	133.11	32.75	67.34	-6,802.38	3,028.65	8,972.18	8,828.12	144.06	62.282		
10,050.00	7,640.90	7,911.58	7,785.53	133.29	32.83	66.52	-6,802.13	3,028.92	8,942.08	8,797.64	144.44	61.910		
10,100.00	7,662.32	7,933.93	7,807.88	133.42	32.90	66.32	-6,801.90	3,029.18	8,908.87	8,764.10	144.77	61.536		
10,150.00	7,681.01	7,956.81	7,830.75	133.50	32.97	66.85	-6,801.65	3,029.45	8,872.79	8,727.71	145.08	61.157		
10,200.00	7,696.85	7,976.02	7,849.97	133.52	33.03	68.17	-6,801.44	3,029.69	8,834.10	8,688.76	145.34	60.782		
10,250.00	7,709.70	7,991.44	7,865.38	133.51	33.08	70.48	-6,801.26	3,029.87	8,793.09	8,647.53	145.55	60.411		
10,300.00	7,719.47	8,002.96	7,876.90	133.46	33.11	74.06	-6,801.12	3,030.02	8,750.04	8,604.31	145.72	60.045		
10,350.00	7,726.09	8,010.50	7,884.43	133.37	33.14	79.36	-6,801.03	3,030.11	8,705.26	8,559.41	145.85	59.685		
10,400.00	7,729.50	8,014.01	7,887.95	133.26	33.15	87.07	-6,800.99	3,030.15	8,659.10	8,513.15	145.95	59.331		
10,427.79	7,730.00	8,014.22	7,888.15	133.18	33.15	92.74	-6,800.99	3,030.16	8,632.96	8,486.98	145.98	59.137		
10,500.00	7,730.00	8,013.14	7,887.07	132.98	33.14	92.72	-6,801.00	3,030.14	8,564.70	8,418.64	146.06	58.638		
10,600.00	7,730.00	8,011.65	7,885.58	132.72	33.14	92.69	-6,801.02	3,030.12	8,470.28	8,324.11	146.17	57.946		
10,700.00	7,730.00	8,010.16	7,884.10	132.47	33.14	92.66	-6,801.04	3,030.11	8,375.99	8,229.70	146.29	57.256		
10,800.00	7,730.00	8,008.69	7,882.63	132.22	33.13	92.63	-6,801.05	3,030.09	8,281.83	8,135.42	146.41	56.566		
10,900.00	7,730.00	8,007.22	7,881.16	131.99	33.13	92.60	-6,801.07	3,030.07	8,187.81	8,041.27	146.53	55.877		
11,000.00	7,730.00	8,005.76	7,879.70	131.77	33.12	92.57	-6,801.09	3,030.05	8,093.93	7,947.27	146.66	55.188		
11,100.00	7,730.00	8,004.30	7,878.24	131.56	33.12	92.54	-6,801.11	3,030.03	8,000.20	7,853.41	146.79	54.501		
11,200.00	7,730.00	8,002.86	7,876.80	131.36	33.11	92.51	-6,801.12	3,030.01	7,906.63	7,759.70	146.92	53.814		
11,300.00	7,730.00	8,001.42	7,875.36	131.17	33.11	92.48	-6,801.14	3,030.00	7,813.21	7,666.15	147.06	53.129		
11,400.00	7,730.00	7,999.99	7,873.93	130.99	33.10	92.45	-6,801.16	3,029.98	7,719.96	7,572.75	147.20	52.444		
11,500.00	7,730.00	7,998.56	7,872.50	130.82	33.10	92.42	-6,801.18	3,029.96	7,626.88	7,479.53	147.35	51.761		
11,600.00	7,730.00	7,997.14	7,871.08	130.66	33.09	92.39	-6,801.19	3,029.94	7,533.97	7,386.47	147.50	51.078		
11,700.00	7,730.00	7,995.73	7,869.67	130.51	33.09	92.36	-6,801.21	3,029.93	7,441.25	7,293.60	147.65	50.397		
11,800.00	7,730.00	7,994.33	7,868.27	130.37	33.09	92.34	-6,801.23	3,029.91	7,348.72	7,200.91	147.81	49.717		
11,900.00	7,730.00	7,992.93	7,866.87	130.24	33.08	92.31	-6,801.24	3,029.89	7,256.39	7,108.42	147.97	49.038		
12,000.00	7,730.00	7,991.54	7,865.48	130.13	33.08	92.28	-6,801.26	3,029.88	7,164.26	7,016.12	148.14	48.361		
12,100.00	7,730.00	7,990.15	7,864.09	130.02	33.07	92.25	-6,801.27	3,029.86	7,072.35	6,924.04	148.31	47.685		
12,200.00	7,730.00	7,988.78	7,862.72	129.93	33.07	92.22	-6,801.29	3,029.84	6,980.66	6,832.17	148.49	47.010		
12,300.00	7,730.00	7,987.40	7,861.35	129.85	33.06	92.19	-6,801.31	3,029.82	6,889.20	6,740.53	148.67	46.337		
12,400.00	7,730.00	7,986.04	7,859.98	129.77	33.06	92.17	-6,801.32	3,029.81	6,797.98	6,649.12	148.86	45.666		
12,500.00	7,730.00	7,984.68	7,858.62	129.71	33.06	92.14	-6,801.34	3,029.79	6,707.01	6,557.96	149.06	44.997		
12,600.00	7,730.00	7,983.33	7,857.27	129.66	33.05	92.11	-6,801.35	3,029.77	6,616.31	6,467.05	149.26	44.329		
12,700.00	7,730.00	7,981.99	7,855.93	129.63	33.05	92.08	-6,801.37	3,029.76	6,525.87	6,376.41	149.46	43.663		
12,800.00	7,730.00	7,980.65	7,854.59	129.60	33.04	92.06	-6,801.38	3,029.74	6,435.71	6,286.04	149.67	42.999		
12,900.00	7,730.00	7,979.31	7,853.26	129.59	33.04	92.03	-6,801.40	3,029.73	6,345.85	6,195.97	149.89	42.337		
13,000.00	7,730.00	7,977.99	7,851.93	129.59	33.03	92.00	-6,801.41	3,029.71	6,256.30	6,106.19	150.11	41.677		
13,100.00	7,730.00	7,976.67	7,850.61	129.60	33.03	91.97	-6,801.43	3,029.69	6,167.07	6,016.73	150.34	41.020		
13,200.00	7,730.00	7,975.35	7,849.30	129.63	33.03	91.95	-6,801.44	3,029.68	6,078.17	5,927.60	150.58	40.365		
13,300.00	7,730.00	7,974.05	7,847.99	129.66	33.02	91.92	-6,801.46	3,029.66	5,989.63	5,838.80	150.82	39.713		
13,400.00	7,730.00	7,972.75	7,846.69	129.72	33.02	91.89	-6,801.47	3,029.65	5,901.45	5,750.37	151.08	39.063		
13,500.00	7,730.00	7,971.45	7,845.39	129.78	33.01	91.87	-6,801.49	3,029.63	5,813.65	5,662.32	151.33	38.416		
13,600.00	7,730.00	7,970.16	7,844.10	129.86	33.01	91.84	-6,801.50	3,029.61	5,726.25	5,574.65	151.60	37.772		
13,700.00	7,730.00	7,968.88	7,842.82	129.96	33.01	91.82	-6,801.52	3,029.60	5,639.27	5,487.40	151.87	37.131		
13,800.00	7,730.00	7,967.60	7,841.54	130.07	33.00	91.79	-6,801.53	3,029.58	5,552.73	5,400.57	152.16	36.494		
13,900.00	7,730.00	7,966.33	7,840.27	130.19	33.00	91.76	-6,801.55	3,029.57	5,466.65	5,314.20	152.45	35.859		
14,000.00	7,730.00	7,965.06	7,839.01	130.33	32.99	91.74	-6,801.56	3,029.55	5,381.05	5,228.30	152.75	35.229		
14,100.00	7,730.00	7,963.80	7,837.75	130.49	32.99	91.71	-6,801.57	3,029.54	5,295.95	5,142.90	153.05	34.602		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,962.55	7,836.49	130.67	32.99	91.69	-6,801.59	3,029.52	5,211.38	5,058.01	153.37	33.979		
14,300.00	7,730.00	7,961.30	7,835.24	130.86	32.98	91.66	-6,801.60	3,029.51	5,127.37	4,973.67	153.69	33.361		
14,400.00	7,730.00	7,960.06	7,834.00	131.07	32.98	91.64	-6,801.61	3,029.49	5,043.94	4,889.91	154.03	32.747		
14,500.00	7,730.00	7,958.82	7,832.77	131.30	32.97	91.61	-6,801.63	3,029.48	4,961.12	4,806.75	154.37	32.138		
14,600.00	7,730.00	7,957.59	7,831.53	131.55	32.97	91.58	-6,801.64	3,029.46	4,878.95	4,724.22	154.72	31.533		
14,700.00	7,730.00	7,956.36	7,830.31	131.82	32.97	91.56	-6,801.66	3,029.45	4,797.45	4,642.36	155.09	30.934		
14,800.00	7,730.00	7,955.14	7,829.09	132.11	32.96	91.53	-6,801.67	3,029.43	4,716.66	4,561.21	155.46	30.341		
14,900.00	7,730.00	7,953.93	7,827.87	132.42	32.96	91.51	-6,801.68	3,029.42	4,636.63	4,480.79	155.84	29.753		
15,000.00	7,730.00	7,952.72	7,826.67	132.75	32.96	91.49	-6,801.69	3,029.40	4,557.38	4,401.15	156.23	29.171		
15,100.00	7,730.00	7,951.52	7,825.46	133.10	32.95	91.46	-6,801.71	3,029.39	4,478.96	4,322.33	156.63	28.596		
15,200.00	7,730.00	7,950.32	7,824.26	133.48	32.95	91.44	-6,801.72	3,029.38	4,401.42	4,244.38	157.04	28.028		
15,300.00	7,730.00	7,949.12	7,823.07	133.88	32.94	91.41	-6,801.73	3,029.36	4,324.80	4,167.34	157.45	27.467		
15,400.00	7,730.00	7,947.94	7,821.88	134.31	32.94	91.39	-6,801.75	3,029.35	4,249.15	4,091.27	157.88	26.914		
15,500.00	7,730.00	7,946.75	7,820.70	134.76	32.94	91.36	-6,801.76	3,029.33	4,174.52	4,016.21	158.31	26.369		
15,600.00	7,730.00	7,945.58	7,819.52	135.23	32.93	91.34	-6,801.77	3,029.32	4,100.98	3,942.22	158.76	25.832		
15,700.00	7,730.00	7,944.41	7,818.35	135.73	32.93	91.32	-6,801.78	3,029.31	4,028.57	3,869.37	159.20	25.305		
15,800.00	7,730.00	7,943.24	7,817.19	136.26	32.93	91.29	-6,801.80	3,029.29	3,957.37	3,797.71	159.66	24.786		
15,900.00	7,730.00	7,942.08	7,816.02	136.81	32.92	91.27	-6,801.81	3,029.28	3,887.43	3,727.31	160.12	24.279		
16,000.00	7,730.00	7,940.92	7,814.87	137.39	32.92	91.24	-6,801.82	3,029.26	3,818.83	3,658.25	160.58	23.781		
16,100.00	7,730.00	7,939.77	7,813.72	138.00	32.91	91.22	-6,801.83	3,029.25	3,751.65	3,590.60	161.05	23.295		
16,200.00	7,730.00	7,938.62	7,812.57	138.63	32.91	91.20	-6,801.85	3,029.24	3,685.95	3,524.43	161.52	22.821		
16,300.00	7,730.00	7,937.48	7,811.43	139.30	32.91	91.17	-6,801.86	3,029.22	3,621.82	3,459.84	161.98	22.359		
16,400.00	7,730.00	7,936.35	7,810.29	139.99	32.90	91.15	-6,801.87	3,029.21	3,559.34	3,396.90	162.45	21.911		
16,500.00	7,730.00	7,935.21	7,809.16	140.70	32.90	91.13	-6,801.88	3,029.20	3,498.61	3,335.70	162.91	21.476		
16,600.00	7,730.00	7,934.09	7,808.04	141.45	32.90	91.10	-6,801.89	3,029.18	3,439.71	3,276.36	163.36	21.056		
16,700.00	7,730.00	7,932.97	7,806.91	142.22	32.89	91.08	-6,801.91	3,029.17	3,382.75	3,218.95	163.80	20.652		
16,800.00	7,730.00	7,931.85	7,805.80	143.03	32.89	91.06	-6,801.92	3,029.16	3,327.81	3,163.58	164.23	20.263		
16,900.00	7,730.00	7,930.74	7,804.69	143.86	32.89	91.04	-6,801.93	3,029.14	3,275.01	3,110.36	164.64	19.892		
17,000.00	7,730.00	7,929.63	7,803.58	144.71	32.88	91.01	-6,801.94	3,029.13	3,224.44	3,059.40	165.04	19.538		
17,100.00	7,730.00	7,928.53	7,802.48	145.60	32.88	90.99	-6,801.95	3,029.12	3,176.22	3,010.81	165.41	19.203		
17,200.00	7,730.00	7,927.43	7,801.38	146.51	32.88	90.97	-6,801.96	3,029.10	3,130.45	2,964.70	165.75	18.887		
17,300.00	7,730.00	7,926.33	7,800.28	147.44	32.87	90.95	-6,801.97	3,029.09	3,087.24	2,921.18	166.06	18.591		
17,400.00	7,730.00	7,925.23	7,799.17	148.40	32.87	90.92	-6,801.99	3,029.08	3,046.70	2,880.37	166.33	18.317		
17,500.00	7,730.00	7,924.12	7,798.07	149.39	32.87	90.90	-6,802.00	3,029.07	3,008.94	2,842.37	166.56	18.065		
17,600.00	7,730.00	7,923.02	7,796.97	150.40	32.86	90.88	-6,802.01	3,029.05	2,974.06	2,807.31	166.75	17.835		
17,700.00	7,730.00	7,921.91	7,795.86	151.44	32.86	90.86	-6,802.02	3,029.04	2,942.17	2,775.28	166.89	17.629		
17,800.00	7,730.00	7,920.80	7,794.75	152.50	32.86	90.83	-6,802.03	3,029.03	2,913.36	2,746.39	166.98	17.448		
17,900.00	7,730.00	7,919.70	7,793.64	153.58	32.85	90.81	-6,802.04	3,029.01	2,887.73	2,720.73	167.01	17.291		
18,000.00	7,730.00	7,918.58	7,792.53	154.68	32.85	90.79	-6,802.06	3,029.00	2,865.37	2,698.39	166.98	17.160		
18,100.00	7,730.00	7,917.47	7,791.42	155.80	32.85	90.76	-6,802.07	3,028.99	2,846.34	2,679.46	166.88	17.056		
18,200.00	7,730.00	7,916.36	7,790.31	156.95	32.84	90.74	-6,802.08	3,028.98	2,830.72	2,663.99	166.73	16.978		
18,300.00	7,730.00	7,915.25	7,789.20	158.11	32.84	90.72	-6,802.09	3,028.96	2,818.56	2,652.05	166.50	16.928		
18,400.00	7,730.00	7,914.13	7,788.08	159.30	32.83	90.70	-6,802.10	3,028.95	2,809.91	2,643.69	166.22	16.905 SF		
18,500.00	7,730.00	7,913.01	7,786.97	160.50	32.83	90.67	-6,802.11	3,028.94	2,804.80	2,638.94	165.86	16.911		
18,593.48	7,730.00	7,911.97	7,785.92	161.64	32.83	90.65	-6,802.12	3,028.93	2,803.24	2,637.77	165.47	16.941 CC, ES		
18,600.00	7,730.00	7,911.90	7,785.85	161.72	32.83	90.65	-6,802.13	3,028.92	2,803.25	2,637.80	165.44	16.944		
18,700.00	7,730.00	7,910.78	7,784.73	162.96	32.82	90.63	-6,802.14	3,028.91	2,805.26	2,640.30	164.96	17.006		
18,800.00	7,730.00	7,909.66	7,783.61	164.21	32.82	90.61	-6,802.15	3,028.90	2,810.84	2,646.41	164.42	17.095		
18,900.00	7,730.00	7,908.53	7,782.49	165.48	32.82	90.58	-6,802.16	3,028.89	2,819.95	2,656.12	163.83	17.213		
19,000.00	7,730.00	7,907.41	7,781.36	166.76	32.81	90.56	-6,802.17	3,028.87	2,832.56	2,669.38	163.18	17.358		
19,100.00	7,730.00	7,906.29	7,780.24	168.06	32.81	90.54	-6,802.18	3,028.86	2,848.63	2,686.14	162.49	17.531		
19,200.00	7,730.00	7,905.16	7,779.11	169.38	32.81	90.51	-6,802.20	3,028.85	2,868.10	2,706.34	161.76	17.731		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,904.03	7,777.99	170.70	32.80	90.49	-6,802.21	3,028.84	2,890.89	2,729.91	160.99	17.957	
19,400.00	7,730.00	7,902.91	7,776.86	172.04	32.80	90.47	-6,802.22	3,028.82	2,916.94	2,756.75	160.19	18.209	
19,500.00	7,730.00	7,901.78	7,775.73	173.40	32.80	90.44	-6,802.23	3,028.81	2,946.16	2,786.78	159.38	18.486	
19,600.00	7,730.00	7,900.64	7,774.60	174.76	32.79	90.42	-6,802.24	3,028.80	2,978.44	2,819.90	158.54	18.786	
19,700.00	7,730.00	7,899.51	7,773.46	176.14	32.79	90.40	-6,802.26	3,028.78	3,013.70	2,856.00	157.70	19.111	
19,800.00	7,730.00	7,898.38	7,772.33	177.52	32.79	90.37	-6,802.27	3,028.77	3,051.83	2,894.98	156.85	19.457	
19,900.00	7,730.00	7,897.24	7,771.19	178.92	32.78	90.35	-6,802.28	3,028.76	3,092.73	2,936.73	156.00	19.825	
20,000.00	7,730.00	7,896.11	7,770.06	180.33	32.78	90.33	-6,802.29	3,028.75	3,136.28	2,981.12	155.16	20.214	
20,100.00	7,730.00	7,894.97	7,768.92	181.75	32.78	90.30	-6,802.30	3,028.73	3,182.37	3,028.05	154.32	20.621	
20,184.95	7,730.00	7,894.00	7,767.95	182.96	32.77	90.29	-6,802.31	3,028.72	3,223.45	3,069.83	153.62	20.983	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	163.92	-7,146.52	2,059.73	7,437.46					
100.00	100.00	44.31	44.30	0.13	0.08	163.92	-7,146.62	2,060.23	7,438.09	7,437.88	0.20	N/A		
200.00	199.98	87.42	87.39	0.49	0.18	93.43	-7,146.92	2,061.63	7,439.69	7,439.04	0.65	N/A		
300.00	299.84	164.79	164.70	0.86	0.44	93.40	-7,147.68	2,064.50	7,441.98	7,440.69	1.29	5,747.446		
400.00	399.45	227.00	226.87	1.23	0.67	93.36	-7,148.49	2,066.82	7,444.83	7,442.93	1.90	3,923.371		
500.00	498.70	282.03	281.85	1.63	0.87	93.33	-7,149.49	2,068.97	7,448.45	7,445.95	2.49	2,985.891		
600.00	597.47	318.00	317.77	2.05	1.00	93.27	-7,150.37	2,070.48	7,453.00	7,449.95	3.05	2,445.065		
700.00	695.62	376.62	376.29	2.51	1.22	93.23	-7,152.07	2,073.48	7,458.43	7,454.71	3.72	2,006.372		
800.00	793.06	410.00	409.58	3.00	1.35	93.14	-7,153.14	2,075.63	7,464.81	7,460.48	4.33	1,723.706		
900.00	889.64	410.00	409.58	3.53	1.35	92.99	-7,153.14	2,075.63	7,472.56	7,467.70	4.86	1,536.639		
1,000.00	985.27	456.62	456.03	4.12	1.53	92.89	-7,155.24	2,078.96	7,481.12	7,475.51	5.61	1,332.654		
1,100.00	1,079.82	502.00	501.18	4.75	1.70	92.79	-7,158.31	2,082.42	7,491.36	7,484.95	6.41	1,168.857		
1,200.00	1,173.17	502.00	501.18	5.44	1.70	92.57	-7,158.31	2,082.42	7,502.42	7,495.33	7.09	1,058.564		
1,300.00	1,265.21	502.00	501.18	6.18	1.70	92.32	-7,158.31	2,082.42	7,514.95	7,507.13	7.82	960.925		
1,400.00	1,355.84	544.99	543.86	6.99	1.88	92.16	-7,161.98	2,086.05	7,528.48	7,519.71	8.78	857.808		
1,500.00	1,444.94	594.00	592.40	7.87	2.08	92.01	-7,166.84	2,090.77	7,543.36	7,533.55	9.82	768.472		
1,600.00	1,532.39	594.00	592.40	8.80	2.08	91.70	-7,166.84	2,090.77	7,559.08	7,548.35	10.73	704.652		
1,700.00	1,618.11	625.75	623.76	9.81	2.21	91.46	-7,170.28	2,094.23	7,575.99	7,564.16	11.83	640.372		
1,800.00	1,701.97	657.10	654.68	10.89	2.35	91.21	-7,173.82	2,098.06	7,593.91	7,580.92	13.00	584.295		
1,900.00	1,783.88	690.49	687.54	12.04	2.49	90.95	-7,177.75	2,102.57	7,612.82	7,598.58	14.24	534.701		
2,000.00	1,863.74	755.31	751.13	13.26	2.79	90.80	-7,185.39	2,112.44	7,632.49	7,616.80	15.69	486.490		
2,100.00	1,941.45	778.00	773.35	14.55	2.90	90.47	-7,188.03	2,116.23	7,652.90	7,635.88	17.02	449.603		
2,200.00	2,016.92	822.44	816.78	15.92	3.12	90.22	-7,193.41	2,123.96	7,674.15	7,655.63	18.52	414.261		
2,292.11	2,084.36	855.00	848.53	17.25	3.27	89.94	-7,197.65	2,129.83	7,694.66	7,674.73	19.93	386.123		
2,300.00	2,090.06	855.00	848.53	17.36	3.27	89.94	-7,197.65	2,129.83	7,696.45	7,676.41	20.04	384.108		
2,400.00	2,162.18	878.43	871.33	18.84	3.39	90.05	-7,200.84	2,134.15	7,719.68	7,698.14	21.54	358.362		
2,500.00	2,234.31	909.73	901.76	20.33	3.55	90.19	-7,205.25	2,140.04	7,743.82	7,720.73	23.09	335.433		
2,600.00	2,306.43	942.00	933.07	21.83	3.72	90.33	-7,209.97	2,146.25	7,768.86	7,744.22	24.63	315.365		
2,700.00	2,378.56	942.00	933.07	23.33	3.72	90.33	-7,209.97	2,146.25	7,794.92	7,768.91	26.02	299.603		
2,800.00	2,450.68	992.52	981.97	24.84	3.99	90.55	-7,217.82	2,156.19	7,821.68	7,794.02	27.66	282.783		
2,900.00	2,522.81	1,036.00	1,023.95	26.36	4.23	90.74	-7,225.10	2,164.89	7,849.55	7,820.28	29.27	268.207		
3,000.00	2,594.93	1,036.00	1,023.95	27.88	4.23	90.74	-7,225.10	2,164.89	7,878.22	7,847.59	30.63	257.198		
3,100.00	2,667.06	1,091.43	1,077.36	29.40	4.54	90.98	-7,234.84	2,176.06	7,907.69	7,875.39	32.30	244.853		
3,200.00	2,739.18	3,200.00	1,184.78	30.92	16.54	91.46	-7,254.47	2,198.01	7,937.46	7,893.57	43.89	180.858		
3,300.00	2,811.31	1,249.07	1,229.41	32.45	5.43	91.66	-7,262.51	2,207.13	7,967.55	7,931.66	35.89	222.011		
3,400.00	2,883.43	1,289.00	1,267.78	33.98	5.66	91.83	-7,269.78	2,215.43	7,998.59	7,961.13	37.46	213.526		
3,500.00	2,955.56	1,319.56	1,297.09	35.51	5.84	91.96	-7,275.48	2,221.95	8,030.39	7,991.42	38.97	206.050		
3,600.00	3,027.68	1,376.00	1,351.16	37.04	6.17	92.19	-7,286.16	2,234.11	8,062.86	8,022.22	40.64	198.404		
3,700.00	3,099.81	1,423.92	1,397.00	38.57	6.47	92.39	-7,295.38	2,244.57	8,095.91	8,053.66	42.25	191.619		
3,800.00	3,171.93	1,463.00	1,434.36	40.11	6.70	92.55	-7,302.97	2,253.21	8,129.56	8,085.76	43.80	185.611		
3,900.00	3,244.06	1,500.28	1,469.94	41.64	6.94	92.70	-7,310.38	2,261.53	8,163.93	8,118.60	45.33	180.094		
4,000.00	3,316.18	1,550.00	1,517.26	43.18	7.25	92.90	-7,320.71	2,272.73	8,199.18	8,152.24	46.94	174.677		
4,100.00	3,388.31	1,550.00	1,517.26	44.71	7.25	92.90	-7,320.71	2,272.73	8,235.09	8,186.88	48.20	170.839		
4,200.00	3,460.43	1,606.67	1,571.06	46.25	7.61	93.13	-7,332.89	2,285.73	8,271.70	8,221.86	49.85	165.936		
4,300.00	3,532.56	1,638.00	1,600.74	47.79	7.82	93.25	-7,339.73	2,293.06	8,308.98	8,257.67	51.31	161.938		
4,400.00	3,604.68	1,673.48	1,634.28	49.33	8.05	93.39	-7,347.66	2,301.48	8,346.96	8,294.16	52.80	158.101		
4,500.00	3,676.81	1,725.00	1,682.82	50.87	8.40	93.60	-7,359.65	2,313.90	8,385.82	8,331.43	54.39	154.178		
4,600.00	3,748.93	4,600.00	2,080.75	52.41	26.60	95.22	-7,448.99	2,412.32	8,424.14	8,352.40	71.74	117.419		
4,700.00	3,821.06	2,237.96	2,170.09	53.95	11.74	95.58	-7,466.70	2,432.83	8,460.08	8,399.52	60.56	139.689		
4,800.00	3,893.18	2,281.67	2,211.86	55.49	12.02	95.75	-7,475.09	2,442.61	8,496.53	8,434.42	62.11	136.797		
4,900.00	3,965.31	2,336.00	2,263.60	57.03	12.36	95.95	-7,485.78	2,455.27	8,533.65	8,469.92	63.73	133.904		
5,000.00	4,037.43	2,363.83	2,290.06	58.58	12.55	96.06	-7,491.38	2,461.84	8,571.34	8,506.20	65.15	131.570		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	2,598.00	2,513.95	60.12	14.02	96.95	-7,536.99	2,513.00	8,608.92	8,540.87	68.05	126.501		
5,200.00	4,181.68	2,649.83	2,563.72	61.66	14.34	97.14	-7,546.57	2,523.83	8,645.94	8,576.31	69.63	124.165		
5,300.00	4,253.81	2,685.00	2,597.41	63.20	14.55	97.28	-7,553.29	2,531.37	8,683.69	8,612.60	71.08	122.161		
5,400.00	4,325.93	2,738.73	2,648.74	64.75	14.90	97.47	-7,563.77	2,543.32	8,722.02	8,649.35	72.67	120.017		
5,500.00	4,398.06	2,800.00	2,847.80	66.29	32.74	98.22	-7,603.00	2,593.26	8,759.94	8,669.95	89.99	97.346		
5,600.00	4,470.18	2,995.79	2,893.69	67.84	16.56	98.39	-7,611.75	2,604.71	8,797.79	8,720.77	77.01	114.237		
5,700.00	4,542.31	3,035.00	2,931.12	69.38	16.81	98.53	-7,619.10	2,613.80	8,836.27	8,757.79	78.49	112.583		
5,800.00	4,614.43	3,065.52	2,960.25	70.92	17.01	98.64	-7,624.98	2,620.81	8,875.41	8,795.52	79.88	111.107		
5,900.00	4,686.56	3,097.39	2,990.60	72.47	17.21	98.75	-7,631.27	2,628.20	8,915.21	8,833.93	81.28	109.690		
6,000.00	4,758.68	3,122.00	3,014.01	74.01	17.37	98.84	-7,636.25	2,633.94	8,955.67	8,873.07	82.60	108.419		
6,100.00	4,830.81	3,157.93	3,048.13	75.56	17.61	98.96	-7,643.70	2,642.34	8,996.79	8,912.78	84.01	107.091		
6,200.00	4,902.93	3,209.00	3,096.56	77.10	17.95	99.14	-7,654.71	2,654.26	9,038.65	8,953.12	85.53	105.672		
6,300.00	4,975.06	3,209.00	3,096.56	78.65	17.95	99.14	-7,654.71	2,654.26	9,081.03	8,994.41	86.62	104.835		
6,400.00	5,047.18	3,209.00	3,096.56	80.19	17.95	99.14	-7,654.71	2,654.26	9,124.31	9,036.62	87.69	104.049		
6,500.00	5,119.31	3,258.15	3,143.01	81.74	18.29	99.31	-7,665.87	2,665.80	9,168.01	9,078.83	89.18	102.809		
6,600.00	5,191.43	3,609.00	3,473.56	83.28	20.73	100.47	-7,744.37	2,753.27	9,212.53	9,119.20	93.33	98.709		
6,700.00	5,263.56	3,646.00	3,508.49	84.83	20.98	100.59	-7,751.98	2,762.80	9,254.77	9,160.04	94.73	97.699		
6,800.00	5,335.68	3,692.96	3,552.80	86.37	21.31	100.74	-7,761.81	2,774.85	9,297.50	9,201.30	96.21	96.642		
6,900.00	5,407.81	3,733.00	3,590.55	87.92	21.59	100.87	-7,770.51	2,784.96	9,340.93	9,243.31	97.61	95.694		
7,000.00	5,479.93	3,755.07	3,611.36	89.47	21.74	100.94	-7,775.41	2,790.47	9,384.92	9,286.08	98.85	94.945		
7,100.00	5,552.06	3,790.38	3,644.62	91.01	21.99	101.05	-7,783.38	2,799.22	9,429.50	9,329.31	100.19	94.118		
7,200.00	5,624.18	3,828.73	3,680.73	92.56	22.26	101.18	-7,792.21	2,808.64	9,474.63	9,373.08	101.55	93.301		
7,300.00	5,696.31	3,884.92	3,733.59	94.10	22.65	101.36	-7,805.31	2,822.48	9,520.19	9,417.13	103.07	92.368		
7,400.00	5,768.43	3,932.72	3,778.53	95.65	22.99	101.51	-7,816.57	2,834.25	9,566.14	9,461.65	104.50	91.543		
7,500.00	5,840.56	3,974.10	3,817.51	97.20	23.27	101.64	-7,826.44	2,843.98	9,612.57	9,506.71	105.86	90.807		
7,600.00	5,912.68	6,169.31	5,960.01	98.74	33.26	109.57	-8,090.34	3,112.65	9,651.07	9,531.00	120.08	80.374		
7,700.00	5,984.81	6,264.41	6,055.11	100.29	33.44	109.96	-8,089.88	3,111.69	9,681.51	9,560.01	121.50	79.683		
7,800.00	6,056.93	6,359.13	6,149.82	101.84	33.63	110.35	-8,089.19	3,110.67	9,712.18	9,589.27	122.91	79.018		
7,900.00	6,129.06	6,448.25	6,238.93	103.38	33.80	110.71	-8,088.34	3,109.64	9,743.11	9,618.81	124.30	78.384		
8,000.00	6,201.18	6,539.23	6,329.90	104.93	33.98	111.08	-8,087.29	3,108.53	9,774.30	9,648.62	125.68	77.770		
8,100.00	6,273.31	6,641.29	6,431.93	106.48	34.19	111.49	-8,085.87	3,107.39	9,805.71	9,678.63	127.08	77.159		
8,200.00	6,345.43	6,729.50	6,520.14	108.02	34.37	111.85	-8,084.42	3,106.58	9,837.31	9,708.87	128.45	76.587		
8,300.00	6,417.56	6,797.94	6,588.56	109.57	34.51	112.12	-8,083.30	3,106.10	9,869.28	9,739.53	129.76	76.061		
8,400.00	6,489.68	6,866.60	6,657.21	111.12	34.65	112.39	-8,082.22	3,105.76	9,901.66	9,770.60	131.06	75.553		
8,500.00	6,561.81	6,928.04	6,718.65	112.66	34.79	112.63	-8,081.32	3,105.62	9,934.46	9,802.13	132.34	75.070		
8,600.00	6,633.93	6,988.64	6,779.24	114.21	34.93	112.87	-8,080.55	3,105.71	9,967.72	9,834.12	133.61	74.606		
10,250.00	7,709.70	7,948.20	7,737.99	133.51	37.67	66.65	-8,085.18	3,139.50	9,986.79	9,833.83	152.96	65.289		
10,300.00	7,719.47	7,954.87	7,744.65	133.46	37.70	70.02	-8,085.28	3,139.83	9,942.71	9,789.55	153.16	64.919		
10,350.00	7,726.09	7,959.54	7,749.31	133.37	37.71	75.31	-8,085.34	3,140.06	9,896.97	9,743.66	153.31	64.555		
10,400.00	7,729.50	7,962.16	7,751.93	133.26	37.72	83.54	-8,085.38	3,140.19	9,849.92	9,696.49	153.43	64.199		
10,427.79	7,730.00	7,962.72	7,752.49	133.18	37.72	89.97	-8,085.39	3,140.22	9,823.32	9,669.84	153.48	64.004		
10,500.00	7,730.00	7,963.35	7,753.12	132.98	37.72	89.98	-8,085.39	3,140.25	9,753.88	9,600.28	153.60	63.501		
10,600.00	7,730.00	7,964.23	7,754.00	132.72	37.72	90.00	-8,085.41	3,140.29	9,657.79	9,504.02	153.77	62.805		
10,700.00	7,730.00	7,965.11	7,754.88	132.47	37.73	90.02	-8,085.42	3,140.33	9,561.78	9,407.83	153.95	62.109		
10,800.00	7,730.00	7,966.00	7,755.76	132.22	37.73	90.04	-8,085.43	3,140.38	9,465.86	9,311.73	154.13	61.414		
10,900.00	7,730.00	7,966.89	7,756.65	131.99	37.73	90.06	-8,085.45	3,140.42	9,370.01	9,215.70	154.32	60.720		
11,000.00	7,730.00	7,967.79	7,757.55	131.77	37.74	90.08	-8,085.46	3,140.46	9,274.26	9,119.75	154.50	60.026		
11,100.00	7,730.00	7,968.69	7,758.46	131.56	37.74	90.10	-8,085.47	3,140.51	9,178.59	9,023.90	154.70	59.333		
11,200.00	7,730.00	7,969.60	7,759.37	131.36	37.74	90.11	-8,085.48	3,140.55	9,083.02	8,928.13	154.90	58.640		
11,300.00	7,730.00	7,970.52	7,760.28	131.17	37.74	90.13	-8,085.50	3,140.60	8,987.55	8,832.45	155.10	57.948		
11,400.00	7,730.00	7,971.44	7,761.20	130.99	37.75	90.15	-8,085.51	3,140.64	8,892.17	8,736.87	155.31	57.256		
11,500.00	7,730.00	7,972.37	7,762.13	130.82	37.75	90.17	-8,085.53	3,140.69	8,796.90	8,641.38	155.52	56.565		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,600.00	7,730.00	7,973.30	7,763.06	130.66	37.75	90.19	-8,085.54	3,140.73	8,701.73	8,545.99	155.74	55.875		
11,700.00	7,730.00	7,974.25	7,764.00	130.51	37.76	90.21	-8,085.55	3,140.78	8,606.67	8,450.71	155.96	55.186		
11,800.00	7,730.00	7,975.19	7,764.95	130.37	37.76	90.23	-8,085.57	3,140.82	8,511.73	8,355.54	156.19	54.497		
11,900.00	7,730.00	7,976.15	7,765.90	130.24	37.76	90.25	-8,085.58	3,140.87	8,416.90	8,260.48	156.42	53.809		
12,000.00	7,730.00	7,977.11	7,766.86	130.13	37.77	90.27	-8,085.60	3,140.91	8,322.19	8,165.53	156.66	53.122		
12,100.00	7,730.00	7,978.07	7,767.82	130.02	37.77	90.29	-8,085.61	3,140.96	8,227.61	8,070.70	156.91	52.436		
12,200.00	7,730.00	7,979.04	7,768.80	129.93	37.77	90.32	-8,085.62	3,141.01	8,133.16	7,976.00	157.16	51.751		
12,300.00	7,730.00	7,980.02	7,769.77	129.85	37.77	90.34	-8,085.64	3,141.05	8,038.84	7,881.42	157.42	51.066		
12,400.00	7,730.00	7,981.01	7,770.76	129.77	37.78	90.36	-8,085.65	3,141.10	7,944.66	7,786.97	157.69	50.383		
12,500.00	7,730.00	7,982.00	7,771.75	129.71	37.78	90.38	-8,085.67	3,141.15	7,850.62	7,692.67	157.96	49.701		
12,600.00	7,730.00	7,983.00	7,772.75	129.66	37.78	90.40	-8,085.69	3,141.20	7,756.74	7,598.50	158.24	49.020		
12,700.00	7,730.00	7,984.01	7,773.75	129.63	37.79	90.42	-8,085.70	3,141.25	7,663.00	7,504.48	158.52	48.340		
12,800.00	7,730.00	7,985.02	7,774.76	129.60	37.79	90.44	-8,085.72	3,141.29	7,569.43	7,410.61	158.82	47.661		
12,900.00	7,730.00	7,986.04	7,775.78	129.59	37.79	90.46	-8,085.73	3,141.34	7,476.03	7,316.91	159.12	46.984		
13,000.00	7,730.00	7,987.07	7,776.81	129.59	37.80	90.49	-8,085.75	3,141.39	7,382.79	7,223.36	159.43	46.308		
13,100.00	7,730.00	7,988.10	7,777.84	129.60	37.80	90.51	-8,085.76	3,141.44	7,289.74	7,129.99	159.75	45.633		
13,200.00	7,730.00	7,989.14	7,778.88	129.63	37.80	90.53	-8,085.78	3,141.49	7,196.87	7,036.80	160.07	44.960		
13,300.00	7,730.00	7,990.19	7,779.93	129.66	37.81	90.55	-8,085.80	3,141.54	7,104.19	6,943.78	160.41	44.288		
13,400.00	7,730.00	7,991.25	7,780.98	129.72	37.81	90.58	-8,085.81	3,141.59	7,011.72	6,850.97	160.75	43.618		
13,500.00	7,730.00	7,992.31	7,782.04	129.78	37.81	90.60	-8,085.83	3,141.64	6,919.46	6,758.35	161.11	42.949		
13,600.00	7,730.00	7,993.38	7,783.11	129.86	37.82	90.62	-8,085.85	3,141.69	6,827.41	6,665.94	161.47	42.282		
13,700.00	7,730.00	7,994.46	7,784.19	129.96	37.82	90.64	-8,085.86	3,141.74	6,735.59	6,573.74	161.85	41.617		
13,800.00	7,730.00	7,995.54	7,785.27	130.07	37.82	90.67	-8,085.88	3,141.79	6,644.00	6,481.77	162.23	40.954		
13,900.00	7,730.00	7,996.64	7,786.37	130.19	37.83	90.69	-8,085.90	3,141.85	6,552.66	6,390.04	162.62	40.293		
14,000.00	7,730.00	7,997.74	7,787.47	130.33	37.83	90.71	-8,085.92	3,141.90	6,461.58	6,298.55	163.03	39.634		
14,100.00	7,730.00	7,998.85	7,788.57	130.49	37.83	90.74	-8,085.93	3,141.95	6,370.77	6,207.32	163.45	38.978		
14,200.00	7,730.00	7,999.97	7,789.69	130.67	37.84	90.76	-8,085.95	3,142.00	6,280.23	6,116.35	163.88	38.323		
14,300.00	7,730.00	8,001.09	7,790.81	130.86	37.84	90.79	-8,085.97	3,142.05	6,189.98	6,025.67	164.32	37.671		
14,400.00	7,730.00	8,002.23	7,791.95	131.07	37.84	90.81	-8,085.99	3,142.11	6,100.04	5,935.27	164.77	37.022		
14,500.00	7,730.00	8,003.37	7,793.09	131.30	37.85	90.83	-8,086.01	3,142.16	6,010.42	5,845.18	165.24	36.375		
14,600.00	7,730.00	8,004.52	7,794.24	131.55	37.85	90.86	-8,086.03	3,142.22	5,921.12	5,755.41	165.72	35.731		
14,700.00	7,730.00	8,005.68	7,795.39	131.82	37.85	90.88	-8,086.04	3,142.27	5,832.18	5,665.97	166.21	35.089		
14,800.00	7,730.00	8,006.84	7,796.56	132.11	37.86	90.91	-8,086.06	3,142.32	5,743.60	5,576.88	166.72	34.451		
14,900.00	7,730.00	8,008.02	7,797.73	132.42	37.86	90.93	-8,086.08	3,142.38	5,655.40	5,488.16	167.24	33.816		
15,000.00	7,730.00	8,009.20	7,798.92	132.75	37.87	90.96	-8,086.10	3,142.43	5,567.59	5,399.82	167.77	33.185		
15,100.00	7,730.00	8,010.40	7,800.11	133.10	37.87	90.98	-8,086.12	3,142.49	5,480.21	5,311.88	168.33	32.557		
15,200.00	7,730.00	8,011.60	7,801.31	133.48	37.87	91.01	-8,086.14	3,142.55	5,393.26	5,224.37	168.89	31.933		
15,300.00	7,730.00	8,012.81	7,802.52	133.88	37.88	91.04	-8,086.16	3,142.60	5,306.77	5,137.30	169.48	31.313		
15,400.00	7,730.00	8,014.03	7,803.74	134.31	37.88	91.06	-8,086.18	3,142.66	5,220.77	5,050.69	170.08	30.696		
15,500.00	7,730.00	8,015.26	7,804.96	134.76	37.88	91.09	-8,086.20	3,142.72	5,135.27	4,964.57	170.69	30.085		
15,600.00	7,730.00	8,016.50	7,806.20	135.23	37.89	91.11	-8,086.23	3,142.77	5,050.30	4,878.97	171.33	29.477		
15,700.00	7,730.00	8,017.75	7,807.45	135.73	37.89	91.14	-8,086.25	3,142.83	4,965.89	4,793.92	171.98	28.875		
15,800.00	7,730.00	8,019.00	7,808.70	136.26	37.90	91.17	-8,086.27	3,142.89	4,882.08	4,709.43	172.65	28.278		
15,900.00	7,730.00	8,020.27	7,809.97	136.81	37.90	91.19	-8,086.29	3,142.95	4,798.88	4,625.54	173.33	27.686		
16,000.00	7,730.00	8,021.55	7,811.25	137.39	37.90	91.22	-8,086.31	3,143.00	4,716.33	4,542.29	174.04	27.099		
16,100.00	7,730.00	8,022.84	7,812.53	138.00	37.91	91.25	-8,086.33	3,143.06	4,634.47	4,459.71	174.76	26.519		
16,200.00	7,730.00	8,024.13	7,813.83	138.63	37.91	91.28	-8,086.36	3,143.12	4,553.33	4,377.83	175.50	25.944		
16,300.00	7,730.00	8,025.44	7,815.13	139.30	37.92	91.30	-8,086.38	3,143.18	4,472.96	4,296.70	176.26	25.377		
16,400.00	7,730.00	8,026.76	7,816.45	139.99	37.92	91.33	-8,086.40	3,143.24	4,393.39	4,216.36	177.04	24.816		
16,500.00	7,730.00	8,028.08	7,817.77	140.70	37.92	91.36	-8,086.43	3,143.30	4,314.68	4,136.84	177.83	24.262		
16,600.00	7,730.00	8,029.42	7,819.11	141.45	37.93	91.39	-8,086.45	3,143.37	4,236.86	4,058.21	178.65	23.717		
16,700.00	7,730.00	8,030.77	7,820.46	142.22	37.93	91.42	-8,086.47	3,143.43	4,159.99	3,980.51	179.47	23.179		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,800.00	7,730.00	8,032.13	7,821.82	143.03	37.94	91.45	-8,086.50	3,143.49	4,084.11	3,903.80	180.32	22.650		
16,900.00	7,730.00	8,033.50	7,823.18	143.86	37.94	91.48	-8,086.52	3,143.55	4,009.30	3,828.13	181.17	22.130		
17,000.00	7,730.00	8,034.88	7,824.56	144.71	37.95	91.51	-8,086.55	3,143.61	3,935.61	3,753.56	182.04	21.619		
17,100.00	7,730.00	8,036.27	7,825.95	145.60	37.95	91.54	-8,086.57	3,143.68	3,863.09	3,680.17	182.93	21.118		
17,200.00	7,730.00	8,037.68	7,827.36	146.51	37.96	91.57	-8,086.60	3,143.74	3,791.83	3,608.01	183.82	20.628		
17,300.00	7,730.00	8,039.09	7,828.77	147.44	37.96	91.60	-8,086.62	3,143.80	3,721.89	3,537.18	184.72	20.149		
17,400.00	7,730.00	8,040.52	7,830.19	148.40	37.96	91.63	-8,086.65	3,143.87	3,653.35	3,467.73	185.62	19.682		
17,500.00	7,730.00	8,041.96	7,831.63	149.39	37.97	91.66	-8,086.67	3,143.93	3,586.28	3,399.76	186.52	19.227		
17,600.00	7,730.00	8,043.41	7,833.08	150.40	37.97	91.69	-8,086.70	3,144.00	3,520.78	3,333.36	187.43	18.785		
17,700.00	7,730.00	8,044.87	7,834.54	151.44	37.98	91.72	-8,086.73	3,144.06	3,456.93	3,268.61	188.32	18.357		
17,800.00	7,730.00	8,046.34	7,836.01	152.50	37.98	91.75	-8,086.76	3,144.13	3,394.82	3,205.62	189.20	17.943		
17,900.00	7,730.00	8,047.83	7,837.49	153.58	37.99	91.78	-8,086.78	3,144.19	3,334.56	3,144.49	190.07	17.544		
18,000.00	7,730.00	8,049.33	7,838.99	154.68	37.99	91.81	-8,086.81	3,144.26	3,276.24	3,085.32	190.92	17.161		
18,100.00	7,730.00	8,050.84	7,840.50	155.80	38.00	91.85	-8,086.84	3,144.33	3,219.97	3,028.23	191.73	16.794		
18,200.00	7,730.00	8,052.36	7,842.02	156.95	38.00	91.88	-8,086.87	3,144.40	3,165.85	2,973.34	192.51	16.445		
18,300.00	7,730.00	8,053.90	7,843.56	158.11	38.01	91.91	-8,086.90	3,144.46	3,114.01	2,920.76	193.25	16.114		
18,400.00	7,730.00	8,055.45	7,845.10	159.30	38.01	91.94	-8,086.93	3,144.53	3,064.55	2,870.62	193.93	15.802		
18,500.00	7,730.00	8,057.01	7,846.67	160.50	38.02	91.98	-8,086.96	3,144.60	3,017.60	2,823.05	194.55	15.510		
18,600.00	7,730.00	8,058.59	7,848.24	161.72	38.02	92.01	-8,086.99	3,144.67	2,973.27	2,778.16	195.11	15.239		
18,700.00	7,730.00	8,060.18	7,849.83	162.96	38.03	92.05	-8,087.02	3,144.74	2,931.68	2,736.10	195.58	14.990		
18,800.00	7,730.00	8,061.78	7,851.43	164.21	38.03	92.08	-8,087.05	3,144.81	2,892.95	2,696.98	195.96	14.763		
18,900.00	7,730.00	8,063.40	7,853.04	165.48	38.04	92.11	-8,087.08	3,144.88	2,857.19	2,660.94	196.25	14.559		
19,000.00	7,730.00	8,065.03	7,854.67	166.76	38.04	92.15	-8,087.11	3,144.95	2,824.52	2,628.09	196.43	14.379		
19,100.00	7,730.00	8,066.67	7,856.32	168.06	38.05	92.18	-8,087.14	3,145.03	2,795.05	2,598.55	196.50	14.224		
19,200.00	7,730.00	8,068.33	7,857.98	169.38	38.05	92.22	-8,087.18	3,145.10	2,768.88	2,572.43	196.44	14.095		
19,300.00	7,730.00	8,070.01	7,859.65	170.70	38.06	92.26	-8,087.21	3,145.17	2,746.10	2,549.84	196.26	13.992		
19,400.00	7,730.00	8,071.70	7,861.34	172.04	38.06	92.29	-8,087.24	3,145.25	2,726.80	2,530.85	195.94	13.916		
19,500.00	7,730.00	8,073.40	7,863.04	173.40	38.07	92.33	-8,087.28	3,145.32	2,711.05	2,515.56	195.49	13.868		
19,600.00	7,730.00	8,075.12	7,864.76	174.76	38.07	92.36	-8,087.31	3,145.39	2,698.91	2,504.02	194.90	13.848 SF		
19,700.00	7,730.00	8,076.86	7,866.49	176.14	38.08	92.40	-8,087.34	3,145.47	2,690.44	2,496.28	194.17	13.856		
19,800.00	7,730.00	8,078.61	7,868.24	177.52	38.08	92.44	-8,087.38	3,145.54	2,685.67	2,492.37	193.30	13.894		
19,878.36	7,730.00	8,079.99	7,869.62	178.62	38.09	92.47	-8,087.41	3,145.60	2,684.53	2,492.00	192.53	13.943 CC, ES		
19,900.00	7,730.00	8,080.37	7,870.00	178.92	38.09	92.48	-8,087.42	3,145.62	2,684.61	2,492.31	192.30	13.960		
20,000.00	7,730.00	8,082.16	7,871.78	180.33	38.09	92.51	-8,087.45	3,145.70	2,687.28	2,496.10	191.18	14.056		
20,100.00	7,730.00	8,083.95	7,873.58	181.75	38.10	92.55	-8,087.49	3,145.77	2,693.66	2,503.71	189.95	14.181		
20,184.95	7,730.00	8,085.50	7,875.12	182.96	38.11	92.59	-8,087.52	3,145.84	2,701.97	2,513.16	188.81	14.310		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	12.37	12.37	0.00	0.02	164.02	-7,163.29	2,051.90	7,451.38					
100.00	100.00	65.71	65.71	0.13	0.14	164.01	-7,163.47	2,052.19	7,451.86	7,451.59	0.27	N/A		
200.00	199.98	135.00	134.99	0.49	0.39	93.54	-7,163.98	2,053.32	7,453.07	7,452.19	0.87	8,518.032		
300.00	299.84	181.25	181.22	0.86	0.55	93.51	-7,164.46	2,054.49	7,455.02	7,453.61	1.41	5,305.321		
400.00	399.45	227.00	226.94	1.23	0.72	93.48	-7,165.06	2,055.91	7,457.76	7,455.81	1.95	3,828.949		
500.00	498.70	266.97	266.87	1.63	0.87	93.43	-7,165.78	2,057.58	7,461.49	7,459.00	2.49	2,995.275		
600.00	597.47	318.00	317.79	2.05	1.05	93.38	-7,167.11	2,060.64	7,466.43	7,463.33	3.10	2,408.751		
700.00	695.62	318.00	317.79	2.51	1.05	93.26	-7,167.11	2,060.64	7,472.36	7,468.81	3.55	2,102.187		
800.00	793.06	351.72	351.39	3.00	1.18	93.16	-7,168.34	2,063.16	7,479.52	7,475.34	4.17	1,793.232		
900.00	889.64	375.53	375.10	3.53	1.27	93.02	-7,169.46	2,065.11	7,487.90	7,483.11	4.79	1,562.854		
1,000.00	985.27	410.00	409.37	4.12	1.41	92.89	-7,171.44	2,068.19	7,497.52	7,492.03	5.50	1,364.227		
1,100.00	1,079.82	410.00	409.37	4.75	1.41	92.67	-7,171.44	2,068.19	7,508.31	7,502.19	6.12	1,226.632		
1,200.00	1,173.17	452.69	451.77	5.44	1.58	92.53	-7,174.48	2,072.14	7,520.16	7,513.20	6.96	1,080.353		
1,300.00	1,265.21	502.00	500.69	6.18	1.77	92.39	-7,178.77	2,076.58	7,533.29	7,525.41	7.88	955.878		
1,400.00	1,355.84	502.00	500.69	6.99	1.77	92.11	-7,178.77	2,076.58	7,547.31	7,538.64	8.67	870.462		
1,500.00	1,444.94	533.33	531.74	7.87	1.90	91.90	-7,181.93	2,079.33	7,562.53	7,552.89	9.64	784.448		
1,600.00	1,532.39	559.39	557.55	8.80	2.01	91.66	-7,184.82	2,081.56	7,578.85	7,568.20	10.65	711.509		
1,700.00	1,618.11	594.00	591.78	9.81	2.16	91.43	-7,189.02	2,084.44	7,596.28	7,584.52	11.76	645.979		
1,800.00	1,701.97	594.00	591.78	10.89	2.16	91.05	-7,189.02	2,084.44	7,614.79	7,601.99	12.79	595.143		
1,900.00	1,783.88	646.39	643.54	12.04	2.38	90.87	-7,196.03	2,088.44	7,634.16	7,620.06	14.10	541.363		
2,000.00	1,863.74	686.00	682.64	13.26	2.55	90.63	-7,201.81	2,091.07	7,654.60	7,639.18	15.42	496.295		
2,100.00	1,941.45	686.00	682.64	14.55	2.55	90.19	-7,201.81	2,091.07	7,676.06	7,659.41	16.65	460.985		
2,200.00	2,016.92	686.00	682.64	15.92	2.55	89.73	-7,201.81	2,091.07	7,698.77	7,680.83	17.94	429.104		
2,292.11	2,084.36	728.08	724.09	17.25	2.73	89.49	-7,208.61	2,093.55	7,720.23	7,700.87	19.36	398.849		
2,300.00	2,090.06	729.28	725.27	17.36	2.74	89.50	-7,208.82	2,093.62	7,722.13	7,702.66	19.47	396.625		
2,400.00	2,162.18	778.00	773.08	18.84	2.95	89.76	-7,217.83	2,096.13	7,747.13	7,726.08	21.05	368.008		
2,500.00	2,234.31	778.00	773.08	20.33	2.95	89.76	-7,217.83	2,096.13	7,772.63	7,750.19	22.43	346.504		
2,600.00	2,306.43	778.00	773.08	21.83	2.95	89.76	-7,217.83	2,096.13	7,799.32	7,775.51	23.81	327.601		
2,700.00	2,378.56	778.00	773.08	23.33	2.95	89.76	-7,217.83	2,096.13	7,827.21	7,802.03	25.18	310.889		
2,800.00	2,450.68	778.00	773.08	24.84	2.95	89.76	-7,217.83	2,096.13	7,856.26	7,829.72	26.54	296.034		
2,900.00	2,522.81	816.71	810.91	26.36	3.13	89.96	-7,225.83	2,097.87	7,886.02	7,857.95	28.06	281.004		
3,000.00	2,594.93	855.00	848.18	27.88	3.31	90.17	-7,234.49	2,099.38	7,917.17	7,887.59	29.58	267.641		
3,100.00	2,667.06	855.00	848.18	29.40	3.31	90.17	-7,234.49	2,099.38	7,949.02	7,918.10	30.92	257.110		
3,200.00	2,739.18	855.00	848.18	30.92	3.31	90.17	-7,234.49	2,099.38	7,981.99	7,949.75	32.24	247.580		
3,300.00	2,811.31	855.00	848.18	32.45	3.31	90.17	-7,234.49	2,099.38	8,016.07	7,982.52	33.55	238.925		
3,400.00	2,883.43	896.87	888.77	33.98	3.52	90.39	-7,244.62	2,101.00	8,050.86	8,015.81	35.05	229.676		
3,500.00	2,955.56	942.00	932.37	35.51	3.75	90.63	-7,256.13	2,102.95	8,086.85	8,050.29	36.56	221.180		
3,600.00	3,027.68	942.00	932.37	37.04	3.75	90.63	-7,256.13	2,102.95	8,123.47	8,085.63	37.84	214.691		
3,700.00	3,099.81	942.00	932.37	38.57	3.75	90.63	-7,256.13	2,102.95	8,161.15	8,122.06	39.10	208.731		
3,800.00	3,171.93	980.64	969.58	40.11	3.95	90.83	-7,266.38	2,104.85	8,199.63	8,159.08	40.56	202.180		
3,900.00	3,244.06	1,004.92	992.90	41.64	4.08	90.96	-7,272.97	2,106.19	8,238.98	8,197.07	41.92	196.557		
4,000.00	3,316.18	1,031.00	1,017.92	43.18	4.22	91.10	-7,280.18	2,107.74	8,279.16	8,235.88	43.28	191.300		
4,100.00	3,388.31	1,062.08	1,047.68	44.71	4.40	91.26	-7,288.90	2,109.73	8,320.11	8,275.46	44.66	186.301		
4,200.00	3,460.43	1,095.69	1,079.83	46.25	4.59	91.43	-7,298.45	2,112.03	8,361.80	8,315.75	46.05	181.590		
4,300.00	3,532.56	1,146.75	1,128.59	47.79	4.88	91.69	-7,313.14	2,115.70	8,404.17	8,356.64	47.53	176.822		
4,400.00	3,604.68	1,204.00	1,183.29	49.33	5.21	91.98	-7,329.59	2,119.52	8,446.99	8,397.95	49.04	172.248		
4,500.00	3,676.81	1,235.14	1,213.03	50.87	5.40	92.14	-7,338.62	2,121.52	8,490.45	8,440.06	50.39	168.509		
4,600.00	3,748.93	1,259.85	1,236.58	52.41	5.54	92.26	-7,345.92	2,123.13	8,534.67	8,482.99	51.68	165.137		
4,700.00	3,821.06	1,291.00	1,266.22	53.95	5.73	92.42	-7,355.28	2,125.20	8,579.65	8,526.64	53.01	161.858		
4,800.00	3,893.18	1,312.56	1,286.70	55.49	5.86	92.53	-7,361.85	2,126.65	8,625.34	8,571.08	54.26	158.957		
4,900.00	3,965.31	1,341.97	1,314.60	57.03	6.05	92.68	-7,370.92	2,128.71	8,671.73	8,616.17	55.55	156.093		
5,000.00	4,037.43	1,378.00	1,348.72	58.58	6.27	92.86	-7,382.20	2,131.32	8,718.80	8,661.92	56.88	153.282		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	1,401.56	1,370.99	60.12	6.42	92.97	-7,389.66	2,133.11	8,766.52	8,708.41	58.12	150.846		
5,200.00	4,181.68	1,432.14	1,399.86	61.66	6.62	93.12	-7,399.46	2,135.58	8,814.90	8,755.52	59.39	148.431		
5,300.00	4,253.81	1,466.00	1,431.75	63.20	6.83	93.29	-7,410.45	2,138.51	8,863.92	8,803.25	60.67	146.098		
5,400.00	4,325.93	1,466.00	1,431.75	64.75	6.83	93.29	-7,410.45	2,138.51	8,913.65	8,851.94	61.71	144.450		
5,500.00	4,398.06	1,466.00	1,431.75	66.29	6.83	93.29	-7,410.45	2,138.51	8,964.22	8,901.50	62.73	142.907		
5,600.00	4,470.18	1,511.41	1,474.36	67.84	7.14	93.50	-7,425.63	2,142.55	9,015.14	8,951.07	64.06	140.721		
5,700.00	4,542.31	1,553.00	1,513.16	69.38	7.42	93.70	-7,440.15	2,146.20	9,067.12	9,001.76	65.36	138.718		
5,800.00	4,614.43	1,553.00	1,513.16	70.92	7.42	93.70	-7,440.15	2,146.20	9,119.51	9,053.16	66.34	137.457		
5,900.00	4,686.56	1,553.00	1,513.16	72.47	7.42	93.70	-7,440.15	2,146.20	9,172.69	9,105.38	67.31	136.278		
6,000.00	4,758.68	1,553.00	1,513.16	74.01	7.42	93.70	-7,440.15	2,146.20	9,226.64	9,158.38	68.26	135.174		
6,100.00	4,830.81	1,592.67	1,550.00	75.56	7.70	93.89	-7,454.47	2,149.55	9,281.04	9,211.54	69.50	133.539		
6,200.00	4,902.93	1,609.71	1,565.78	77.10	7.82	93.97	-7,460.75	2,150.92	9,336.18	9,265.63	70.56	132.321		
6,300.00	4,975.06	1,640.00	1,593.77	78.65	8.03	94.12	-7,472.10	2,153.24	9,391.99	9,320.28	71.71	130.978		
6,400.00	5,047.18	1,640.00	1,593.77	80.19	8.03	94.12	-7,472.10	2,153.24	9,448.34	9,375.74	72.60	130.139		
6,500.00	5,119.31	1,668.53	1,620.07	81.74	8.24	94.26	-7,482.97	2,155.32	9,505.29	9,431.58	73.72	128.946		
6,600.00	5,191.43	1,692.20	1,641.85	83.28	8.41	94.37	-7,492.07	2,156.98	9,562.80	9,488.03	74.78	127.882		
6,700.00	5,263.56	1,728.00	1,674.74	84.83	8.67	94.54	-7,506.00	2,159.40	9,620.88	9,544.95	75.93	126.703		
6,800.00	5,335.68	1,728.00	1,674.74	86.37	8.67	94.54	-7,506.00	2,159.40	9,678.41	9,576.17	102.24	94.665		
6,900.00	5,407.81	2,462.58	2,358.63	87.92	13.85	97.94	-7,768.73	2,207.68	9,733.14	9,649.52	83.62	116.393		
7,000.00	5,479.93	2,443.00	2,443.00	89.47	43.98	98.34	-7,798.01	2,212.21	9,788.22	9,682.97	105.25	93.001		
7,100.00	5,552.06	2,674.90	2,559.30	91.01	15.25	98.90	-7,837.32	2,217.80	9,843.02	9,755.99	87.03	113.097		
7,200.00	5,624.18	2,711.91	2,594.36	92.56	15.49	99.06	-7,849.10	2,219.24	9,898.15	9,809.95	88.20	112.226		
7,300.00	5,696.31	2,744.67	2,625.32	94.10	15.71	99.21	-7,859.68	2,220.90	9,953.77	9,864.44	89.33	111.433		
11,300.00	7,730.00	8,119.44	7,839.75	131.17	40.09	91.41	-8,783.73	2,352.47	9,906.41	9,758.00	148.41	66.750		
11,400.00	7,730.00	8,120.06	7,840.37	130.99	40.09	91.42	-8,783.73	2,352.50	9,812.83	9,664.16	148.67	66.006		
11,500.00	7,730.00	8,120.69	7,841.00	130.82	40.09	91.44	-8,783.74	2,352.53	9,719.37	9,570.44	148.93	65.261		
11,600.00	7,730.00	8,121.33	7,841.64	130.66	40.10	91.45	-8,783.74	2,352.56	9,626.04	9,476.84	149.20	64.518		
11,700.00	7,730.00	8,121.99	7,842.29	130.51	40.10	91.46	-8,783.75	2,352.60	9,532.84	9,383.37	149.48	63.775		
11,800.00	7,730.00	8,122.65	7,842.95	130.37	40.10	91.47	-8,783.76	2,352.63	9,439.79	9,290.03	149.76	63.033		
11,900.00	7,730.00	8,123.32	7,843.63	130.24	40.10	91.48	-8,783.76	2,352.66	9,346.88	9,196.83	150.05	62.292		
12,000.00	7,730.00	8,124.01	7,844.32	130.13	40.10	91.49	-8,783.77	2,352.69	9,254.12	9,103.77	150.35	61.552		
12,100.00	7,730.00	8,124.71	7,845.01	130.02	40.11	91.50	-8,783.78	2,352.73	9,161.51	9,010.86	150.65	60.813		
12,200.00	7,730.00	8,125.42	7,845.72	129.93	40.11	91.51	-8,783.78	2,352.76	9,069.05	8,918.09	150.96	60.075		
12,300.00	7,730.00	8,126.14	7,846.45	129.85	40.11	91.52	-8,783.79	2,352.80	8,976.76	8,825.48	151.28	59.338		
12,400.00	7,730.00	8,126.88	7,847.18	129.77	40.11	91.54	-8,783.80	2,352.84	8,884.64	8,733.03	151.61	58.602		
12,500.00	7,730.00	8,127.63	7,847.93	129.71	40.11	91.55	-8,783.80	2,352.87	8,792.68	8,640.74	151.95	57.867		
12,600.00	7,730.00	8,128.39	7,848.69	129.66	40.12	91.56	-8,783.81	2,352.91	8,700.91	8,548.62	152.29	57.133		
12,700.00	7,730.00	8,129.17	7,849.47	129.63	40.12	91.57	-8,783.82	2,352.95	8,609.31	8,456.67	152.65	56.401		
12,800.00	7,730.00	8,129.96	7,850.26	129.60	40.12	91.59	-8,783.83	2,352.99	8,517.91	8,364.90	153.01	55.669		
12,900.00	7,730.00	8,130.77	7,851.06	129.59	40.12	91.60	-8,783.84	2,353.03	8,426.70	8,273.32	153.38	54.940		
13,000.00	7,730.00	8,131.59	7,851.89	129.59	40.12	91.61	-8,783.85	2,353.07	8,335.70	8,181.93	153.76	54.211		
13,100.00	7,730.00	8,132.43	7,852.72	129.60	40.13	91.63	-8,783.85	2,353.12	8,244.90	8,090.74	154.16	53.484		
13,200.00	7,730.00	8,133.28	7,853.57	129.63	40.13	91.64	-8,783.86	2,353.16	8,154.31	7,999.76	154.56	52.759		
13,300.00	7,730.00	8,134.15	7,854.44	129.66	40.13	91.66	-8,783.87	2,353.20	8,063.95	7,908.98	154.97	52.036		
13,400.00	7,730.00	8,135.04	7,855.33	129.72	40.13	91.67	-8,783.88	2,353.25	7,973.82	7,818.43	155.39	51.314		
13,500.00	7,730.00	8,135.95	7,856.23	129.78	40.14	91.69	-8,783.89	2,353.30	7,883.93	7,728.10	155.83	50.594		
13,600.00	7,730.00	8,136.87	7,857.15	129.86	40.14	91.70	-8,783.90	2,353.34	7,794.28	7,638.01	156.27	49.876		
13,700.00	7,730.00	8,137.81	7,858.09	129.96	40.14	91.72	-8,783.91	2,353.39	7,704.89	7,548.16	156.73	49.160		
13,800.00	7,730.00	8,138.77	7,859.05	130.07	40.14	91.73	-8,783.92	2,353.44	7,615.76	7,458.56	157.20	48.446		
13,900.00	7,730.00	8,139.75	7,860.03	130.19	40.15	91.75	-8,783.93	2,353.49	7,526.91	7,369.22	157.69	47.734		
14,000.00	7,730.00	8,140.75	7,861.03	130.33	40.15	91.77	-8,783.95	2,353.55	7,438.33	7,280.15	158.18	47.024		
14,100.00	7,730.00	8,141.77	7,862.05	130.49	40.15	91.78	-8,783.96	2,353.60	7,350.05	7,191.36	158.69	46.317		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	8,142.82	7,863.10	130.67	40.15	91.80	-8,783.97	2,353.65	7,262.08	7,102.86	159.21	45.613		
14,300.00	7,730.00	8,143.88	7,864.16	130.86	40.16	91.82	-8,783.98	2,353.71	7,174.42	7,014.67	159.75	44.911		
14,400.00	7,730.00	8,144.97	7,865.25	131.07	40.16	91.84	-8,784.00	2,353.77	7,087.08	6,926.78	160.30	44.211		
14,500.00	7,730.00	8,146.09	7,866.36	131.30	40.16	91.85	-8,784.01	2,353.83	7,000.09	6,839.22	160.87	43.515		
14,600.00	7,730.00	8,147.23	7,867.50	131.55	40.17	91.87	-8,784.02	2,353.89	6,913.44	6,751.99	161.45	42.822		
14,700.00	7,730.00	8,148.39	7,868.66	131.82	40.17	91.89	-8,784.04	2,353.95	6,827.16	6,665.12	162.04	42.131		
14,800.00	7,730.00	8,149.58	7,869.85	132.11	40.17	91.91	-8,784.05	2,354.02	6,741.26	6,578.60	162.66	41.444		
14,900.00	7,730.00	8,150.80	7,871.06	132.42	40.18	91.93	-8,784.07	2,354.08	6,655.75	6,492.47	163.29	40.761		
15,000.00	7,730.00	8,152.04	7,872.31	132.75	40.18	91.95	-8,784.09	2,354.15	6,570.66	6,406.72	163.93	40.081		
15,100.00	7,730.00	8,153.32	7,873.58	133.10	40.18	91.97	-8,784.10	2,354.22	6,485.98	6,321.38	164.60	39.405		
15,200.00	7,730.00	8,154.62	7,874.88	133.48	40.19	91.99	-8,784.12	2,354.29	6,401.75	6,236.47	165.28	38.732		
15,300.00	7,730.00	8,155.96	7,876.22	133.88	40.19	92.02	-8,784.14	2,354.36	6,317.98	6,152.00	165.98	38.064		
15,400.00	7,730.00	8,157.33	7,877.59	134.31	40.19	92.04	-8,784.16	2,354.44	6,234.69	6,067.99	166.70	37.400		
15,500.00	7,730.00	8,158.73	7,878.99	134.76	40.20	92.06	-8,784.17	2,354.52	6,151.89	5,984.45	167.44	36.741		
15,600.00	7,730.00	8,160.17	7,880.42	135.23	40.20	92.09	-8,784.19	2,354.60	6,069.61	5,901.42	168.20	36.086		
15,700.00	7,730.00	8,161.65	7,881.90	135.73	40.21	92.11	-8,784.21	2,354.68	5,987.88	5,818.90	168.97	35.436		
15,800.00	7,730.00	8,163.16	7,883.41	136.26	40.21	92.14	-8,784.24	2,354.77	5,906.70	5,736.93	169.77	34.792		
15,900.00	7,730.00	8,164.71	7,884.96	136.81	40.22	92.16	-8,784.26	2,354.85	5,826.11	5,655.51	170.59	34.152		
16,000.00	7,730.00	8,166.31	7,886.55	137.39	40.22	92.19	-8,784.28	2,354.95	5,746.12	5,574.69	171.43	33.519		
16,100.00	7,730.00	8,167.94	7,888.18	138.00	40.22	92.21	-8,784.31	2,355.04	5,666.78	5,494.48	172.29	32.891		
16,200.00	7,730.00	8,169.62	7,889.86	138.63	40.23	92.24	-8,784.33	2,355.14	5,588.09	5,414.92	173.17	32.269		
16,300.00	7,730.00	8,171.35	7,891.58	139.30	40.23	92.27	-8,784.36	2,355.24	5,510.10	5,336.02	174.08	31.653		
16,400.00	7,730.00	8,173.12	7,893.35	139.99	40.24	92.30	-8,784.38	2,355.34	5,432.82	5,257.82	175.00	31.044		
16,500.00	7,730.00	8,174.94	7,895.17	140.70	40.24	92.33	-8,784.41	2,355.45	5,356.30	5,180.35	175.95	30.442		
16,600.00	7,730.00	8,176.82	7,897.04	141.45	40.25	92.36	-8,784.44	2,355.56	5,280.56	5,103.65	176.92	29.847		
16,700.00	7,730.00	8,178.75	7,898.97	142.22	40.25	92.39	-8,784.47	2,355.67	5,205.65	5,027.74	177.91	29.260		
16,800.00	7,730.00	8,180.74	7,900.95	143.03	40.26	92.43	-8,784.51	2,355.79	5,131.58	4,952.66	178.92	28.680		
16,900.00	7,730.00	8,182.78	7,902.99	143.86	40.26	92.46	-8,784.54	2,355.91	5,058.41	4,878.45	179.96	28.109		
17,000.00	7,730.00	8,184.89	7,905.10	144.71	40.27	92.49	-8,784.57	2,356.04	4,986.17	4,805.16	181.01	27.546		
17,100.00	7,730.00	8,187.07	7,907.27	145.60	40.28	92.53	-8,784.61	2,356.17	4,914.90	4,732.81	182.09	26.992		
17,200.00	7,730.00	8,189.31	7,909.50	146.51	40.28	92.57	-8,784.65	2,356.31	4,844.64	4,661.46	183.18	26.447		
17,300.00	7,730.00	8,191.62	7,911.81	147.44	40.29	92.60	-8,784.69	2,356.45	4,775.45	4,591.15	184.30	25.912		
17,400.00	7,730.00	8,194.01	7,914.19	148.40	40.30	92.64	-8,784.73	2,356.60	4,707.36	4,521.94	185.43	25.387		
17,500.00	7,730.00	8,196.47	7,916.65	149.39	40.30	92.68	-8,784.78	2,356.75	4,640.43	4,453.85	186.57	24.872		
17,600.00	7,730.00	8,199.02	7,919.20	150.40	40.31	92.73	-8,784.82	2,356.91	4,574.70	4,386.96	187.74	24.367		
17,700.00	7,730.00	8,201.65	7,921.82	151.44	40.32	92.77	-8,784.87	2,357.08	4,510.23	4,321.32	188.91	23.874		
17,800.00	7,730.00	8,204.38	7,924.54	152.50	40.32	92.82	-8,784.92	2,357.25	4,447.08	4,256.98	190.10	23.393		
17,900.00	7,730.00	8,207.20	7,927.36	153.58	40.33	92.86	-8,784.98	2,357.44	4,385.29	4,193.99	191.30	22.924		
18,000.00	7,730.00	8,210.12	7,930.27	154.68	40.34	92.91	-8,785.04	2,357.62	4,324.94	4,132.43	192.51	22.467		
18,100.00	7,730.00	8,213.15	7,933.29	155.80	40.35	92.96	-8,785.10	2,357.82	4,266.07	4,072.35	193.71	22.023		
18,200.00	7,730.00	8,216.28	7,936.42	156.95	40.36	93.01	-8,785.16	2,358.03	4,208.75	4,013.83	194.92	21.592		
18,300.00	7,730.00	8,219.54	7,939.67	158.11	40.37	93.07	-8,785.23	2,358.25	4,153.05	3,956.92	196.13	21.175		
18,400.00	7,730.00	8,222.93	7,943.05	159.30	40.37	93.12	-8,785.30	2,358.48	4,099.03	3,901.70	197.33	20.772		
18,500.00	7,730.00	8,226.44	7,946.55	160.50	40.38	93.18	-8,785.38	2,358.71	4,046.76	3,848.24	198.52	20.384		
18,600.00	7,730.00	8,230.10	7,950.20	161.72	40.39	93.24	-8,785.46	2,358.96	3,996.31	3,796.61	199.70	20.011		
18,700.00	7,730.00	8,233.90	7,953.99	162.96	40.40	93.30	-8,785.54	2,359.23	3,947.74	3,746.88	200.86	19.654		
18,800.00	7,730.00	8,237.87	7,957.95	164.21	40.42	93.37	-8,785.63	2,359.51	3,901.13	3,699.14	201.99	19.313		
18,900.00	7,730.00	8,242.00	7,962.07	165.48	40.43	93.44	-8,785.73	2,359.80	3,856.55	3,653.45	203.10	18.989		
19,000.00	7,730.00	8,246.31	7,966.37	166.76	40.44	93.51	-8,785.83	2,360.11	3,814.06	3,609.90	204.17	18.681		
19,100.00	7,730.00	8,250.82	7,970.86	168.06	40.45	93.58	-8,785.94	2,360.43	3,773.75	3,568.55	205.20	18.391		
19,200.00	7,730.00	8,255.52	7,975.55	169.38	40.46	93.66	-8,786.06	2,360.78	3,735.67	3,529.50	206.18	18.119		
19,300.00	7,730.00	8,260.45	7,980.47	170.70	40.48	93.74	-8,786.18	2,361.14	3,699.91	3,492.80	207.11	17.865		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	8,265.61	7,985.61	172.04	40.49	93.83	-8,786.32	2,361.53	3,666.52	3,458.54	207.98	17.629	
19,500.00	7,730.00	8,271.03	7,991.01	173.40	40.51	93.91	-8,786.46	2,361.94	3,635.57	3,426.78	208.78	17.413	
19,600.00	7,730.00	8,276.71	7,996.67	174.76	40.52	94.01	-8,786.62	2,362.38	3,607.12	3,397.60	209.52	17.216	
19,700.00	7,730.00	8,282.69	8,002.63	176.14	40.54	94.11	-8,786.78	2,362.84	3,581.24	3,371.06	210.18	17.039	
19,800.00	7,730.00	8,288.98	8,008.89	177.52	40.56	94.21	-8,786.97	2,363.34	3,557.97	3,347.22	210.76	16.882	
19,900.00	7,730.00	8,295.60	8,015.50	178.92	40.57	94.32	-8,787.16	2,363.87	3,537.38	3,326.13	211.25	16.745	
20,000.00	7,730.00	8,302.60	8,022.47	180.33	40.59	94.44	-8,787.37	2,364.45	3,519.50	3,307.85	211.65	16.629	
20,100.00	7,730.00	8,310.00	8,029.84	181.75	40.61	94.56	-8,787.60	2,365.06	3,504.38	3,292.43	211.95	16.534	
20,184.95	7,730.00	20,184.95	7,959.43	182.96	75.18	93.39	-8,785.96	2,360.07	3,493.64	3,249.60	244.05	14.316	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	163.88	-7,118.11	2,057.77	7,409.62					
100.00	100.00	44.43	44.42	0.13	0.08	163.87	-7,118.22	2,058.22	7,410.24	7,410.04	0.20	N/A		
200.00	199.98	74.00	73.98	0.49	0.14	93.38	-7,118.43	2,059.02	7,411.86	7,411.26	0.60	N/A		
300.00	299.84	120.23	120.18	0.86	0.29	93.34	-7,119.03	2,060.75	7,414.50	7,413.37	1.13	6,533.879		
400.00	399.45	166.00	165.89	1.23	0.45	93.28	-7,119.97	2,062.79	7,418.18	7,416.50	1.68	4,419.466		
500.00	498.70	223.37	223.16	1.63	0.66	93.23	-7,121.40	2,065.86	7,422.72	7,420.44	2.29	3,245.996		
600.00	597.47	310.34	309.91	2.05	0.99	93.19	-7,123.50	2,071.71	7,427.84	7,424.81	3.03	2,450.106		
700.00	695.62	349.00	348.43	2.51	1.14	93.11	-7,124.29	2,074.84	7,433.42	7,429.79	3.63	2,047.681		
800.00	793.06	411.29	410.45	3.00	1.38	93.05	-7,125.82	2,080.42	7,439.77	7,435.41	4.36	1,706.968		
900.00	889.64	440.00	439.02	3.53	1.49	92.94	-7,126.77	2,083.18	7,447.25	7,442.25	5.00	1,489.409		
1,000.00	985.27	477.31	476.08	4.12	1.65	92.83	-7,128.23	2,087.13	7,455.80	7,450.07	5.73	1,302.315		
1,100.00	1,079.82	533.00	531.28	4.75	1.88	92.73	-7,130.92	2,094.07	7,465.61	7,459.04	6.57	1,135.942		
1,200.00	1,173.17	545.32	543.46	5.44	1.93	92.54	-7,131.58	2,095.76	7,476.23	7,468.93	7.30	1,023.789		
1,300.00	1,265.21	625.00	622.14	6.18	2.27	92.48	-7,135.59	2,107.67	7,487.58	7,479.21	8.37	894.561		
1,400.00	1,355.84	680.93	677.20	6.99	2.53	92.36	-7,138.31	2,117.11	7,499.56	7,490.15	9.41	796.957		
1,500.00	1,444.94	738.61	733.79	7.87	2.80	92.23	-7,141.26	2,127.90	7,512.38	7,501.86	10.53	713.662		
1,600.00	1,532.39	805.00	798.57	8.80	3.12	92.12	-7,144.30	2,142.06	7,525.72	7,513.96	11.76	640.011		
1,700.00	1,618.11	843.89	836.35	9.81	3.33	91.93	-7,146.11	2,151.11	7,539.86	7,526.92	12.94	582.746		
1,800.00	1,701.97	893.00	883.90	10.89	3.59	91.75	-7,148.84	2,163.08	7,555.13	7,540.89	14.24	530.648		
1,900.00	1,783.88	912.47	902.70	12.04	3.69	91.48	-7,150.03	2,168.02	7,571.26	7,555.80	15.46	489.803		
2,000.00	1,863.74	963.18	951.46	13.26	3.98	91.29	-7,153.13	2,181.58	7,588.27	7,571.35	16.92	448.559		
2,100.00	1,941.45	1,003.50	990.02	14.55	4.22	91.05	-7,155.63	2,193.11	7,606.07	7,587.67	18.40	413.469		
2,200.00	2,016.92	1,031.00	1,016.18	15.92	4.38	90.76	-7,157.42	2,201.38	7,624.79	7,604.92	19.87	383.712		
2,292.11	2,084.36	1,073.07	1,056.07	17.25	4.65	90.53	-7,160.33	2,214.45	7,642.80	7,621.40	21.40	357.136		
2,300.00	2,090.06	1,075.97	1,058.81	17.36	4.67	90.54	-7,160.54	2,215.36	7,644.38	7,622.85	21.53	355.073		
2,400.00	2,162.18	1,148.56	1,127.47	18.84	5.13	90.80	-7,165.98	2,238.28	7,664.73	7,641.33	23.40	327.516		
2,500.00	2,234.31	1,183.00	1,160.11	20.33	5.36	90.92	-7,168.57	2,248.97	7,685.48	7,660.45	25.04	306.960		
2,600.00	2,306.43	1,236.18	1,210.38	21.83	5.71	91.10	-7,172.79	2,265.80	7,706.91	7,680.11	26.81	287.494		
2,700.00	2,378.56	1,270.00	1,242.17	23.33	5.94	91.22	-7,175.71	2,276.96	7,729.31	7,700.86	28.45	271.712		
2,800.00	2,450.68	1,528.79	1,484.63	24.84	7.77	92.06	-7,195.62	2,365.19	7,751.48	7,719.75	31.73	244.273		
2,900.00	2,522.81	1,575.34	1,528.14	26.36	8.11	92.21	-7,198.67	2,381.45	7,772.90	7,739.40	33.50	232.014		
3,000.00	2,594.93	1,620.18	1,569.98	27.88	8.43	92.35	-7,201.84	2,397.26	7,795.05	7,759.79	35.26	221.093		
3,100.00	2,667.06	1,731.25	1,673.35	29.40	9.26	92.69	-7,209.65	2,437.11	7,817.45	7,779.92	37.53	208.274		
3,200.00	2,739.18	1,811.14	1,747.63	30.92	9.87	92.94	-7,215.21	2,465.99	7,840.07	7,800.49	39.58	198.093		
3,300.00	2,811.31	1,901.74	1,831.83	32.45	10.56	93.21	-7,221.52	2,498.86	7,862.89	7,821.18	41.71	188.507		
3,400.00	2,883.43	1,968.00	1,893.34	33.98	11.06	93.41	-7,226.13	2,523.05	7,885.98	7,842.33	43.65	180.651		
3,500.00	2,955.56	2,023.83	1,945.11	35.51	11.49	93.57	-7,230.20	2,543.53	7,909.59	7,864.08	45.51	173.797		
3,600.00	3,027.68	2,084.51	2,001.36	37.04	11.96	93.75	-7,234.97	2,565.82	7,933.84	7,886.44	47.40	167.363		
3,700.00	3,099.81	2,170.61	2,081.23	38.57	12.63	94.01	-7,241.86	2,597.22	7,958.39	7,908.89	49.51	160.753		
3,800.00	3,171.93	2,230.00	2,136.46	40.11	13.09	94.19	-7,246.72	2,618.50	7,983.24	7,931.86	51.38	155.375		
3,900.00	3,244.06	2,281.48	2,184.37	41.64	13.48	94.34	-7,251.17	2,636.83	8,008.66	7,955.47	53.18	150.592		
4,000.00	3,316.18	2,380.50	2,276.37	43.18	14.24	94.64	-7,260.27	2,672.29	8,034.76	7,979.38	55.38	145.080		
4,100.00	3,388.31	2,489.40	2,377.43	44.71	15.09	94.96	-7,269.58	2,711.78	8,060.50	8,002.83	57.67	139.757		
4,200.00	3,460.43	2,525.13	2,410.58	46.25	15.36	95.07	-7,272.73	2,724.72	8,086.70	8,027.36	59.33	136.289		
4,300.00	3,532.56	2,579.00	2,460.68	47.79	15.78	95.23	-7,278.02	2,743.81	8,113.74	8,052.59	61.14	132.700		
4,400.00	3,604.68	4,400.00	2,524.58	49.33	29.73	95.43	-7,284.88	2,767.96	8,141.16	8,065.37	75.80	107.410		
4,500.00	3,676.81	2,737.07	2,607.72	50.87	16.99	95.70	-7,293.62	2,799.67	8,168.65	8,103.47	65.18	125.330		
4,600.00	3,748.93	2,851.55	2,713.84	52.41	17.89	96.03	-7,304.75	2,841.15	8,196.36	8,128.84	67.52	121.393		
4,700.00	3,821.06	2,932.32	2,788.51	53.95	18.53	96.25	-7,312.40	2,870.98	8,224.10	8,154.53	69.57	118.211		
4,800.00	3,893.18	3,058.51	2,905.72	55.49	19.52	96.62	-7,324.35	2,916.16	8,251.90	8,179.88	72.01	114.588		
4,900.00	3,965.31	3,158.60	2,998.48	57.03	20.30	96.90	-7,333.31	2,952.68	8,279.45	8,205.22	74.23	111.533		
5,000.00	4,037.43	3,251.30	3,084.12	58.58	21.04	97.15	-7,341.57	2,987.17	8,307.22	8,230.83	76.39	108.744		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	3,329.00	3,156.20	60.12	21.66	97.37	-7,348.54	3,015.34	8,335.12	8,256.71	78.41	106.304		
5,200.00	4,181.68	3,385.74	3,208.63	61.66	22.11	97.52	-7,353.72	3,036.40	8,363.41	8,283.18	80.23	104.245		
5,300.00	4,253.81	3,428.89	3,248.50	63.20	22.45	97.64	-7,357.89	3,052.38	8,392.30	8,310.38	81.92	102.448		
5,400.00	4,325.93	3,473.43	3,289.68	64.75	22.81	97.76	-7,362.44	3,068.73	8,421.82	8,338.22	83.61	100.729		
5,500.00	4,398.06	3,519.63	3,332.43	66.29	23.18	97.88	-7,367.41	3,085.54	8,451.95	8,366.65	85.31	99.079		
5,600.00	4,470.18	3,578.09	3,552.64	67.84	25.10	98.52	-7,390.68	3,173.98	8,480.96	8,392.11	88.85	95.448		
5,700.00	4,542.31	3,802.00	3,593.04	69.38	25.45	98.63	-7,394.77	3,190.67	8,510.26	8,419.72	90.54	93.991		
5,800.00	4,614.43	3,802.00	3,593.04	70.92	25.45	98.63	-7,394.77	3,190.67	8,540.42	8,448.63	91.79	93.043		
5,900.00	4,686.56	3,854.77	3,641.57	72.47	25.89	98.77	-7,400.22	3,210.67	8,571.07	8,477.52	93.55	91.624		
6,000.00	4,758.68	6,000.00	3,700.12	74.01	43.00	98.94	-7,407.55	3,234.06	8,602.64	8,491.33	111.31	77.287		
6,100.00	4,830.81	4,812.38	4,550.81	75.56	32.25	101.66	-7,468.95	3,496.31	8,627.83	8,524.08	103.75	83.159		
6,200.00	4,902.93	4,860.73	4,598.19	77.10	32.49	101.83	-7,470.44	3,505.86	8,651.89	8,546.54	105.35	82.129		
6,300.00	4,975.06	4,912.74	4,649.20	78.65	32.73	102.02	-7,472.24	3,515.82	8,676.55	8,569.60	106.94	81.132		
6,400.00	5,047.18	5,170.82	4,903.66	80.19	33.82	102.98	-7,478.74	3,558.14	8,700.42	8,590.86	109.56	79.413		
6,500.00	5,119.31	5,270.39	5,002.37	81.74	34.19	103.36	-7,480.40	3,571.11	8,724.19	8,612.88	111.30	78.381		
6,600.00	5,191.43	5,326.71	5,058.36	83.28	34.38	103.59	-7,481.29	3,577.19	8,748.24	8,635.40	112.83	77.533		
6,700.00	5,263.56	5,373.00	5,104.42	84.83	34.54	103.77	-7,482.19	3,581.67	8,772.94	8,658.63	114.30	76.751		
6,800.00	5,335.68	5,413.41	5,144.66	86.37	34.66	103.94	-7,483.14	3,585.14	8,798.33	8,682.60	115.73	76.027		
6,900.00	5,407.81	5,460.00	5,191.11	87.92	34.80	104.13	-7,484.43	3,588.56	8,824.43	8,707.28	117.16	75.321		
7,000.00	5,479.93	5,609.82	5,340.76	89.47	35.17	104.78	-7,487.97	3,594.37	8,850.72	8,731.86	118.86	74.462		
7,100.00	5,552.06	5,724.63	5,455.54	91.01	35.42	105.28	-7,489.85	3,596.01	8,876.97	8,756.56	120.41	73.721		
7,200.00	5,624.18	5,808.81	5,539.71	92.56	35.59	105.66	-7,490.96	3,596.58	8,903.46	8,781.61	121.86	73.065		
7,300.00	5,696.31	5,893.60	5,624.50	94.10	35.76	106.03	-7,491.95	3,597.08	8,930.31	8,807.02	123.29	72.433		
7,400.00	5,768.43	6,015.42	5,746.31	95.65	36.01	106.57	-7,492.95	3,597.61	8,957.37	8,832.56	124.81	71.770		
7,500.00	5,840.56	6,108.78	5,839.66	97.20	36.19	106.98	-7,493.28	3,597.81	8,984.53	8,858.29	126.24	71.173		
7,600.00	5,912.68	6,177.21	5,908.09	98.74	36.32	107.28	-7,493.48	3,597.73	9,012.12	8,884.53	127.59	70.634		
7,700.00	5,984.81	6,245.22	5,976.11	100.29	36.45	107.58	-7,493.69	3,597.42	9,040.20	8,911.27	128.93	70.117		
7,800.00	6,056.93	7,800.00	6,109.12	101.84	39.41	108.16	-7,493.23	3,596.83	9,068.05	8,934.91	133.14	68.109		
7,900.00	6,129.06	6,532.56	6,263.44	103.38	37.01	108.83	-7,491.82	3,596.34	9,096.04	8,964.12	131.93	68.948		
8,000.00	6,201.18	6,625.75	6,356.62	104.93	37.20	109.23	-7,490.57	3,596.11	9,124.26	8,990.96	133.30	68.449		
8,100.00	6,273.31	6,729.91	6,460.77	106.48	37.41	109.68	-7,488.88	3,596.05	9,152.68	9,017.99	134.69	67.953		
8,200.00	6,345.43	6,840.99	6,571.83	108.02	37.65	110.15	-7,486.68	3,596.26	9,181.27	9,045.18	136.09	67.463		
8,300.00	6,417.56	6,956.45	6,687.24	109.57	37.89	110.64	-7,483.88	3,596.58	9,209.95	9,072.46	137.49	66.984		
8,400.00	6,489.68	7,024.74	6,755.51	111.12	38.05	110.92	-7,482.14	3,596.98	9,238.92	9,100.13	138.79	66.569		
8,500.00	6,561.81	7,098.17	6,828.91	112.66	38.21	111.23	-7,480.29	3,597.69	9,268.30	9,128.22	140.08	66.165		
8,600.00	6,633.93	7,174.08	6,904.80	114.21	38.39	111.54	-7,478.40	3,598.68	9,298.07	9,156.70	141.37	65.770		
8,700.00	6,706.06	7,250.99	6,981.68	115.76	38.57	111.86	-7,476.48	3,599.78	9,328.21	9,185.55	142.66	65.387		
8,800.00	6,778.18	7,316.96	7,047.61	117.30	38.72	112.12	-7,474.83	3,600.81	9,358.74	9,214.83	143.92	65.030		
8,900.00	6,850.31	7,369.00	7,099.63	118.85	38.85	112.34	-7,473.65	3,601.73	9,389.80	9,244.67	145.12	64.702		
9,000.00	6,922.43	7,421.15	7,151.76	120.40	38.98	112.55	-7,472.61	3,602.76	9,421.40	9,275.08	146.32	64.389		
9,100.00	6,994.56	7,468.00	7,198.60	121.95	39.10	112.73	-7,471.79	3,603.78	9,453.56	9,306.07	147.49	64.096		
9,200.00	7,066.68	7,527.47	7,258.05	123.49	39.25	112.97	-7,470.91	3,605.21	9,486.24	9,337.54	148.70	63.796		
9,300.00	7,138.81	7,581.52	7,312.07	125.04	39.39	113.18	-7,470.25	3,606.64	9,519.44	9,369.56	149.87	63.517		
9,392.50	7,205.52	7,631.64	7,362.17	126.47	39.53	113.38	-7,469.77	3,608.09	9,550.60	9,399.65	150.95	63.269		
9,400.00	7,210.94	7,643.00	7,373.52	126.59	39.56	112.62	-7,469.68	3,608.43	9,553.10	9,402.04	151.06	63.239		
9,450.00	7,247.42	7,662.29	7,392.80	127.35	39.61	107.24	-7,469.53	3,609.01	9,567.48	9,415.85	151.64	63.095		
9,500.00	7,284.35	7,688.83	7,419.33	128.10	39.68	101.73	-7,469.36	3,609.82	9,577.83	9,425.58	152.25	62.908		
9,550.00	7,321.43	7,715.46	7,445.94	128.83	39.75	96.22	-7,469.22	3,610.62	9,584.08	9,431.20	152.88	62.691		
9,600.00	7,358.38	7,741.98	7,472.45	129.52	39.82	90.83	-7,469.11	3,611.42	9,586.18	9,432.67	153.51	62.448		
9,650.00	7,394.93	7,768.20	7,498.66	130.16	39.89	85.70	-7,469.04	3,612.20	9,584.12	9,429.99	154.13	62.181		
9,700.00	7,430.79	7,793.94	7,524.39	130.76	39.96	80.94	-7,468.99	3,612.97	9,577.94	9,423.19	154.75	61.895		
9,750.00	7,465.70	7,820.46	7,550.90	131.30	40.04	76.65	-7,468.98	3,613.76	9,567.66	9,412.31	155.34	61.590		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	7,862.03	7,592.45	131.78	40.15	72.95	-7,468.95	3,614.95	9,553.33	9,397.36	155.97	61.250		
9,850.00	7,531.58	7,901.59	7,632.00	132.21	40.26	69.78	-7,468.87	3,616.01	9,535.03	9,378.46	156.56	60.902		
9,900.00	7,562.06	7,938.85	7,669.24	132.57	40.36	67.16	-7,468.76	3,616.95	9,512.89	9,355.77	157.12	60.546		
9,950.00	7,590.58	7,973.53	7,703.91	132.87	40.45	65.09	-7,468.63	3,617.77	9,487.09	9,329.46	157.63	60.187		
10,000.00	7,616.93	8,106.73	7,837.07	133.11	40.81	64.18	-7,467.41	3,621.05	9,457.75	9,299.33	158.42	59.699		
10,050.00	7,640.90	10,050.00	7,836.55	133.29	46.06	63.12	-7,467.11	3,621.20	9,424.66	9,260.66	164.00	57.467		
10,100.00	7,662.32	10,100.00	7,857.95	133.42	46.20	62.83	-7,466.85	3,621.77	9,388.94	9,224.51	164.43	57.100		
10,150.00	7,681.01	8,206.23	7,936.50	133.50	41.08	63.75	-7,465.63	3,624.09	9,350.38	9,190.78	159.60	58.586		
10,200.00	7,696.85	8,216.87	7,947.14	133.52	41.11	65.05	-7,465.45	3,624.46	9,309.37	9,149.53	159.85	58.239		
10,250.00	7,709.70	8,225.45	7,955.71	133.51	41.14	67.45	-7,465.31	3,624.77	9,266.23	9,106.18	160.05	57.895		
10,300.00	7,719.47	8,231.88	7,962.14	133.46	41.16	71.41	-7,465.21	3,625.01	9,221.26	9,061.05	160.22	57.555		
10,350.00	7,726.09	8,236.09	7,966.34	133.37	41.17	77.70	-7,465.15	3,625.17	9,174.79	9,014.45	160.34	57.219		
10,400.00	7,729.50	8,238.02	7,968.27	133.26	41.17	87.68	-7,465.12	3,625.24	9,127.16	8,966.72	160.44	56.888		
10,427.79	7,730.00	8,238.09	7,968.34	133.18	41.17	95.55	-7,465.12	3,625.24	9,100.31	8,939.83	160.48	56.707		
10,500.00	7,730.00	8,237.34	7,967.60	132.98	41.17	95.53	-7,465.13	3,625.22	9,030.29	8,869.72	160.57	56.238		
10,600.00	7,730.00	8,236.30	7,966.55	132.72	41.17	95.51	-7,465.15	3,625.18	8,933.38	8,772.68	160.70	55.589		
10,700.00	7,730.00	8,235.25	7,965.50	132.47	41.17	95.48	-7,465.16	3,625.14	8,836.54	8,675.70	160.84	54.941		
10,800.00	7,730.00	8,234.19	7,964.44	132.22	41.16	95.45	-7,465.18	3,625.10	8,739.76	8,578.79	160.97	54.293		
10,900.00	7,730.00	8,233.11	7,963.36	131.99	41.16	95.42	-7,465.19	3,625.06	8,643.06	8,481.95	161.12	53.645		
11,000.00	7,730.00	8,232.02	7,962.28	131.77	41.16	95.40	-7,465.21	3,625.02	8,546.44	8,385.18	161.26	52.998		
11,100.00	7,730.00	8,230.92	7,961.18	131.56	41.15	95.37	-7,465.23	3,624.98	8,449.90	8,288.49	161.41	52.351		
11,200.00	7,730.00	8,229.81	7,960.07	131.36	41.15	95.34	-7,465.24	3,624.93	8,353.43	8,191.87	161.56	51.705		
11,300.00	7,730.00	8,228.69	7,958.95	131.17	41.15	95.31	-7,465.26	3,624.89	8,257.05	8,095.34	161.71	51.060		
11,400.00	7,730.00	8,227.55	7,957.81	130.99	41.14	95.28	-7,465.28	3,624.85	8,160.76	7,998.89	161.87	50.415		
11,500.00	7,730.00	8,226.41	7,956.67	130.82	41.14	95.25	-7,465.30	3,624.81	8,064.56	7,902.52	162.04	49.770		
11,600.00	7,730.00	8,225.25	7,955.51	130.66	41.14	95.22	-7,465.31	3,624.77	7,968.45	7,806.24	162.20	49.126		
11,700.00	7,730.00	8,224.07	7,954.33	130.51	41.13	95.19	-7,465.33	3,624.72	7,872.43	7,710.06	162.37	48.483		
11,800.00	7,730.00	8,222.88	7,953.15	130.37	41.13	95.16	-7,465.35	3,624.68	7,776.52	7,613.97	162.55	47.841		
11,900.00	7,730.00	8,221.68	7,951.95	130.24	41.13	95.13	-7,465.37	3,624.64	7,680.71	7,517.98	162.73	47.199		
12,000.00	7,730.00	8,220.47	7,950.73	130.13	41.12	95.10	-7,465.39	3,624.59	7,585.01	7,422.09	162.92	46.558		
12,100.00	7,730.00	8,219.24	7,949.51	130.02	41.12	95.07	-7,465.41	3,624.55	7,489.42	7,326.32	163.11	45.917		
12,200.00	7,730.00	8,218.00	7,948.26	129.93	41.12	95.03	-7,465.43	3,624.50	7,393.95	7,230.65	163.30	45.278		
12,300.00	7,730.00	8,216.74	7,947.01	129.85	41.11	95.00	-7,465.45	3,624.46	7,298.60	7,135.10	163.50	44.639		
12,400.00	7,730.00	8,215.47	7,945.74	129.77	41.11	94.97	-7,465.47	3,624.41	7,203.37	7,039.67	163.71	44.001		
12,500.00	7,730.00	8,214.18	7,944.45	129.71	41.11	94.94	-7,465.49	3,624.37	7,108.28	6,944.36	163.92	43.365		
12,600.00	7,730.00	8,212.88	7,943.15	129.66	41.10	94.90	-7,465.51	3,624.32	7,013.32	6,849.18	164.14	42.729		
12,700.00	7,730.00	8,211.56	7,941.84	129.63	41.10	94.87	-7,465.54	3,624.28	6,918.50	6,754.14	164.36	42.094		
12,800.00	7,730.00	8,210.23	7,940.50	129.60	41.09	94.83	-7,465.56	3,624.23	6,823.83	6,659.25	164.59	41.460		
12,900.00	7,730.00	8,208.88	7,939.16	129.59	41.09	94.80	-7,465.58	3,624.18	6,729.32	6,564.50	164.82	40.828		
13,000.00	7,730.00	8,207.52	7,937.79	129.59	41.09	94.76	-7,465.60	3,624.13	6,634.96	6,469.90	165.06	40.196		
13,100.00	7,730.00	8,206.14	7,936.41	129.60	41.08	94.73	-7,465.63	3,624.09	6,540.78	6,375.46	165.31	39.566		
13,200.00	7,730.00	8,204.74	7,935.01	129.63	41.08	94.69	-7,465.65	3,624.04	6,446.76	6,281.20	165.57	38.937		
13,300.00	7,730.00	8,203.32	7,933.60	129.66	41.07	94.65	-7,465.68	3,623.99	6,352.93	6,187.10	165.83	38.310		
13,400.00	7,730.00	8,201.89	7,932.17	129.72	41.07	94.62	-7,465.70	3,623.94	6,259.29	6,093.19	166.10	37.684		
13,500.00	7,730.00	8,200.44	7,930.72	129.78	41.07	94.58	-7,465.73	3,623.89	6,165.85	5,999.48	166.38	37.060		
13,600.00	7,730.00	8,198.97	7,929.25	129.86	41.06	94.54	-7,465.75	3,623.84	6,072.62	5,905.96	166.66	36.437		
13,700.00	7,730.00	8,197.48	7,927.76	129.96	41.06	94.50	-7,465.78	3,623.79	5,979.61	5,812.65	166.95	35.816		
13,800.00	7,730.00	8,195.97	7,926.25	130.07	41.05	94.46	-7,465.80	3,623.74	5,886.82	5,719.57	167.26	35.196		
13,900.00	7,730.00	8,194.44	7,924.73	130.19	41.05	94.43	-7,465.83	3,623.69	5,794.28	5,626.71	167.57	34.579		
14,000.00	7,730.00	8,192.90	7,923.18	130.33	41.05	94.39	-7,465.86	3,623.64	5,701.98	5,534.10	167.89	33.963		
14,100.00	7,730.00	8,191.33	7,921.62	130.49	41.04	94.34	-7,465.89	3,623.58	5,609.95	5,441.74	168.21	33.350		
14,200.00	7,730.00	8,189.75	7,920.03	130.67	41.04	94.30	-7,465.92	3,623.53	5,518.20	5,349.65	168.55	32.739		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	14,300.00	7,874.59	130.86	57.64	93.13	-7,466.64	3,622.21	5,426.74	5,241.26	185.47	29.259		
14,400.00	7,730.00	14,400.00	7,873.34	131.07	57.91	93.09	-7,466.65	3,622.17	5,335.57	5,149.45	186.12	28.668		
14,500.00	7,730.00	14,500.00	7,872.08	131.30	58.18	93.06	-7,466.67	3,622.14	5,244.72	5,057.95	186.77	28.081		
14,600.00	7,730.00	14,600.00	7,870.82	131.55	58.46	93.03	-7,466.69	3,622.11	5,154.21	4,966.77	187.43	27.499		
14,700.00	7,730.00	14,700.00	7,829.83	131.82	41.06	94.56	-7,465.66	3,623.83	5,064.08	4,893.59	170.49	29.704		
14,800.00	7,730.00	8,195.01	7,925.29	132.11	41.05	94.44	-7,465.76	3,623.69	4,974.32	4,803.45	170.88	29.111		
14,900.00	7,730.00	8,190.62	7,920.91	132.42	41.03	94.33	-7,465.86	3,623.55	4,884.96	4,713.69	171.28	28.521		
15,000.00	7,730.00	8,186.38	7,916.67	132.75	41.02	94.22	-7,465.95	3,623.41	4,796.02	4,624.33	171.69	27.934		
15,100.00	7,730.00	8,182.28	7,912.57	133.10	41.01	94.11	-7,466.04	3,623.28	4,707.52	4,535.41	172.11	27.351		
15,200.00	7,730.00	8,178.30	7,908.60	133.48	41.00	94.01	-7,466.12	3,623.16	4,619.49	4,446.93	172.55	26.771		
15,300.00	7,730.00	8,174.46	7,904.75	133.88	40.99	93.91	-7,466.20	3,623.04	4,531.95	4,358.95	173.00	26.196		
15,400.00	7,730.00	8,170.73	7,901.03	134.31	40.98	93.81	-7,466.28	3,622.92	4,444.94	4,271.47	173.47	25.624		
15,500.00	7,730.00	8,167.11	7,897.42	134.76	40.97	93.72	-7,466.35	3,622.81	4,358.48	4,184.53	173.94	25.057		
15,600.00	7,730.00	8,163.61	7,893.91	135.23	40.96	93.63	-7,466.42	3,622.70	4,272.61	4,098.17	174.43	24.494		
15,700.00	7,730.00	8,160.21	7,890.51	135.73	40.95	93.54	-7,466.49	3,622.60	4,187.36	4,012.43	174.94	23.937		
15,800.00	7,730.00	8,156.91	7,887.22	136.26	40.94	93.45	-7,466.55	3,622.50	4,102.78	3,927.33	175.45	23.384		
15,900.00	7,730.00	8,153.70	7,884.01	136.81	40.94	93.37	-7,466.61	3,622.40	4,018.91	3,842.93	175.98	22.837		
16,000.00	7,730.00	8,150.58	7,880.90	137.39	40.93	93.29	-7,466.67	3,622.31	3,935.79	3,759.27	176.52	22.297		
16,100.00	7,730.00	8,147.56	7,877.87	138.00	40.92	93.21	-7,466.73	3,622.22	3,853.47	3,676.40	177.07	21.762		
16,200.00	7,730.00	8,144.61	7,874.93	138.63	40.91	93.14	-7,466.78	3,622.13	3,772.01	3,594.37	177.63	21.235		
16,300.00	7,730.00	8,141.75	7,872.07	139.30	40.90	93.06	-7,466.83	3,622.05	3,691.45	3,513.24	178.21	20.715		
16,400.00	7,730.00	8,138.96	7,869.28	139.99	40.90	92.99	-7,466.88	3,621.97	3,611.86	3,433.08	178.79	20.202		
16,500.00	7,730.00	8,136.25	7,866.57	140.70	40.89	92.92	-7,466.93	3,621.89	3,533.31	3,353.94	179.37	19.698		
16,600.00	7,730.00	8,133.61	7,863.93	141.45	40.88	92.85	-7,466.98	3,621.81	3,455.87	3,275.90	179.97	19.203		
16,700.00	7,730.00	8,131.03	7,861.36	142.22	40.87	92.78	-7,467.02	3,621.74	3,379.61	3,199.05	180.57	18.717		
16,800.00	7,730.00	8,128.53	7,858.85	143.03	40.87	92.72	-7,467.06	3,621.66	3,304.62	3,123.45	181.16	18.241		
16,900.00	7,730.00	8,126.08	7,856.41	143.86	40.86	92.66	-7,467.10	3,621.59	3,230.98	3,049.22	181.76	17.776		
17,000.00	7,730.00	8,123.70	7,854.03	144.71	40.85	92.59	-7,467.14	3,621.53	3,158.79	2,976.44	182.35	17.323		
17,100.00	7,730.00	8,121.37	7,851.70	145.60	40.85	92.53	-7,467.18	3,621.46	3,088.14	2,905.21	182.93	16.881		
17,200.00	7,730.00	8,119.10	7,849.43	146.51	40.84	92.47	-7,467.22	3,621.39	3,019.16	2,835.66	183.50	16.453		
17,300.00	7,730.00	8,116.89	7,847.22	147.44	40.84	92.42	-7,467.25	3,621.33	2,951.95	2,767.91	184.04	16.040		
17,400.00	7,730.00	8,114.73	7,845.06	148.40	40.83	92.36	-7,467.29	3,621.27	2,886.64	2,702.08	184.56	15.641		
17,500.00	7,730.00	8,112.62	7,842.95	149.39	40.82	92.31	-7,467.32	3,621.21	2,823.36	2,638.31	185.04	15.258		
17,600.00	7,730.00	8,110.55	7,840.89	150.40	40.82	92.25	-7,467.35	3,621.15	2,762.25	2,576.76	185.49	14.892		
17,700.00	7,730.00	8,108.54	7,838.87	151.44	40.81	92.20	-7,467.38	3,621.10	2,703.46	2,517.58	185.88	14.544		
17,800.00	7,730.00	8,106.57	7,836.91	152.50	40.81	92.15	-7,467.41	3,621.04	2,647.14	2,460.92	186.21	14.216		
17,900.00	7,730.00	8,104.64	7,834.98	153.58	40.80	92.10	-7,467.44	3,620.99	2,593.45	2,406.97	186.48	13.908		
18,000.00	7,730.00	8,102.76	7,833.10	154.68	40.80	92.05	-7,467.46	3,620.94	2,542.56	2,355.90	186.66	13.621		
18,100.00	7,730.00	8,100.92	7,831.26	155.80	40.79	92.00	-7,467.49	3,620.89	2,494.64	2,307.90	186.75	13.358		
18,200.00	7,730.00	8,099.12	7,829.46	156.95	40.79	91.96	-7,467.52	3,620.84	2,449.87	2,263.14	186.74	13.119		
18,300.00	7,730.00	8,097.35	7,827.70	158.11	40.78	91.91	-7,467.54	3,620.79	2,408.42	2,221.81	186.61	12.906		
18,400.00	7,730.00	8,095.63	7,825.97	159.30	40.78	91.87	-7,467.57	3,620.74	2,370.47	2,184.11	186.36	12.720		
18,500.00	7,730.00	8,093.94	7,824.28	160.50	40.77	91.82	-7,467.59	3,620.70	2,336.18	2,150.20	185.98	12.561		
18,600.00	7,730.00	8,092.28	7,822.63	161.72	40.77	91.78	-7,467.61	3,620.65	2,305.72	2,120.26	185.46	12.432		
18,700.00	7,730.00	8,090.66	7,821.01	162.96	40.77	91.74	-7,467.63	3,620.61	2,279.25	2,094.45	184.80	12.334		
18,800.00	7,730.00	8,089.08	7,819.42	164.21	40.76	91.70	-7,467.66	3,620.57	2,256.89	2,072.90	183.99	12.267		
18,900.00	7,730.00	8,087.52	7,817.87	165.48	40.76	91.66	-7,467.68	3,620.52	2,238.79	2,055.76	183.03	12.232		
19,000.00	7,730.00	8,086.00	7,816.34	166.76	40.75	91.62	-7,467.70	3,620.48	2,225.03	2,043.10	181.93	12.230 SF		
19,100.00	7,730.00	8,084.50	7,814.85	168.06	40.75	91.58	-7,467.72	3,620.44	2,215.70	2,035.01	180.69	12.262		
19,200.00	7,730.00	8,083.04	7,813.38	169.38	40.74	91.54	-7,467.73	3,620.40	2,210.87	2,031.53	179.33	12.328 ES		
19,257.09	7,730.00	8,082.21	7,812.56	170.13	40.74	91.52	-7,467.74	3,620.38	2,210.13	2,031.62	178.51	12.381 CC		
19,300.00	7,730.00	8,081.60	7,811.95	170.70	40.74	91.50	-7,467.75	3,620.37	2,210.55	2,032.68	177.86	12.429		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	8,080.19	7,810.54	172.04	40.74	91.47	-7,467.77	3,620.33	2,214.74	2,038.45	176.29	12.563	
19,500.00	7,730.00	8,078.81	7,809.16	173.40	40.73	91.43	-7,467.79	3,620.29	2,223.44	2,048.79	174.65	12.731	
19,600.00	7,730.00	8,077.45	7,807.80	174.76	40.73	91.39	-7,467.80	3,620.26	2,236.57	2,063.63	172.94	12.933	
19,700.00	7,730.00	8,076.12	7,806.47	176.14	40.73	91.36	-7,467.82	3,620.22	2,254.06	2,082.87	171.19	13.167	
19,800.00	7,730.00	8,074.81	7,805.16	177.52	40.72	91.33	-7,467.84	3,620.19	2,275.82	2,106.40	169.43	13.433	
19,900.00	7,730.00	8,073.53	7,803.88	178.92	40.72	91.29	-7,467.85	3,620.15	2,301.72	2,134.07	167.65	13.729	
20,000.00	7,730.00	8,072.27	7,802.62	180.33	40.72	91.26	-7,467.87	3,620.12	2,331.63	2,165.73	165.90	14.055	
20,100.00	7,730.00	8,071.03	7,801.39	181.75	40.71	91.23	-7,467.88	3,620.09	2,365.38	2,201.22	164.17	14.408	
20,184.95	7,730.00	8,070.00	7,800.35	182.96	40.71	91.20	-7,467.89	3,620.06	2,396.97	2,234.24	162.73	14.730	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.84	-5,369.19	1,658.25	5,619.43					
100.00	100.00	51.37	51.37	0.13	0.08	162.84	-5,369.43	1,658.13	5,619.79	5,619.57	0.22	N/A		
200.00	199.98	159.79	159.78	0.49	0.39	92.40	-5,370.89	1,657.12	5,620.90	5,620.02	0.88	6,400.176		
300.00	299.84	253.49	253.46	0.86	0.72	92.45	-5,371.80	1,655.90	5,621.67	5,620.09	1.58	3,565.130		
400.00	399.45	347.06	347.01	1.23	1.06	92.53	-5,372.96	1,654.68	5,622.85	5,620.56	2.29	2,454.558		
500.00	498.70	409.08	409.02	1.63	1.29	92.58	-5,373.97	1,653.60	5,624.51	5,621.60	2.91	1,931.157		
600.00	597.47	456.00	455.90	2.05	1.46	92.62	-5,375.28	1,652.26	5,627.15	5,623.65	3.51	1,605.059		
700.00	695.62	507.23	507.05	2.51	1.65	92.67	-5,377.31	1,650.29	5,630.87	5,626.72	4.15	1,357.178		
800.00	793.06	549.00	548.72	3.00	1.80	92.69	-5,379.48	1,648.33	5,635.76	5,630.97	4.79	1,175.677		
900.00	889.64	592.38	591.95	3.53	1.97	92.71	-5,382.24	1,646.02	5,641.86	5,636.38	5.49	1,027.958		
1,000.00	985.27	640.00	639.35	4.12	2.15	92.74	-5,385.86	1,643.23	5,649.24	5,643.00	6.24	904.666		
1,100.00	1,079.82	671.29	670.46	4.75	2.27	92.70	-5,388.58	1,641.25	5,657.88	5,650.89	6.99	809.348		
1,200.00	1,173.17	709.54	708.44	5.44	2.42	92.67	-5,392.27	1,638.66	5,667.82	5,660.01	7.82	725.171		
1,300.00	1,265.21	732.00	730.72	6.18	2.51	92.55	-5,394.63	1,637.05	5,679.13	5,670.50	8.63	657.742		
1,400.00	1,355.84	780.82	779.07	6.99	2.71	92.55	-5,400.26	1,633.30	5,691.71	5,682.09	9.62	591.769		
1,500.00	1,444.94	825.00	822.72	7.87	2.89	92.52	-5,405.98	1,629.58	5,705.73	5,695.09	10.64	536.106		
1,600.00	1,532.39	848.43	845.82	8.80	3.00	92.35	-5,409.23	1,627.47	5,721.09	5,709.45	11.65	491.210		
1,700.00	1,618.11	882.01	878.88	9.81	3.14	92.22	-5,414.17	1,624.24	5,737.85	5,725.10	12.76	449.848		
1,800.00	1,701.97	919.00	915.21	10.89	3.30	92.10	-5,419.96	1,620.40	5,756.00	5,742.06	13.94	412.919		
1,900.00	1,783.88	950.57	946.15	12.04	3.45	91.92	-5,425.15	1,616.90	5,775.52	5,760.35	15.17	380.753		
2,000.00	1,863.74	986.24	981.04	13.26	3.62	91.75	-5,431.26	1,612.69	5,796.37	5,779.90	16.48	351.773		
2,100.00	1,941.45	1,012.00	1,006.19	14.55	3.74	91.49	-5,435.82	1,609.48	5,818.59	5,800.79	17.80	326.846		
2,200.00	2,016.92	1,042.38	1,035.79	15.92	3.89	91.24	-5,441.40	1,605.50	5,842.21	5,823.00	19.22	304.039		
2,292.11	2,084.36	1,063.33	1,056.15	17.25	3.99	90.94	-5,445.42	1,602.61	5,865.26	5,844.73	20.53	285.671		
2,300.00	2,090.06	1,065.06	1,057.83	17.36	4.00	90.95	-5,445.75	1,602.36	5,867.29	5,846.64	20.65	284.189		
2,400.00	2,162.18	1,106.00	1,097.48	18.84	4.20	91.29	-5,453.99	1,596.36	5,893.85	5,871.66	22.19	265.622		
2,500.00	2,234.31	1,112.60	1,103.85	20.33	4.24	91.34	-5,455.36	1,595.35	5,921.62	5,898.05	23.56	251.337		
2,600.00	2,306.43	1,185.19	1,173.97	21.83	4.62	91.94	-5,470.30	1,583.98	5,950.54	5,925.28	25.26	235.556		
2,700.00	2,378.56	1,213.11	1,200.92	23.33	4.76	92.17	-5,476.04	1,579.49	5,980.49	5,953.77	26.73	223.761		
2,800.00	2,450.68	1,232.00	1,219.14	24.84	4.86	92.33	-5,480.05	1,576.49	6,011.81	5,983.67	28.13	213.683		
2,900.00	2,522.81	1,265.10	1,251.05	26.36	5.04	92.60	-5,487.23	1,571.44	6,044.39	6,014.79	29.60	204.185		
3,000.00	2,594.93	1,316.00	1,300.20	27.88	5.32	93.02	-5,498.36	1,564.28	6,078.09	6,046.93	31.15	195.108		
3,100.00	2,667.06	1,445.56	1,425.76	29.40	6.00	94.05	-5,525.63	1,547.58	6,112.16	6,079.05	33.10	184.633		
3,200.00	2,739.18	1,490.00	1,468.84	30.92	6.24	94.40	-5,534.77	1,541.71	6,146.99	6,112.40	34.60	177.683		
3,300.00	2,811.31	1,535.23	1,512.65	32.45	6.49	94.76	-5,544.15	1,535.48	6,182.84	6,146.76	36.08	171.367		
3,400.00	2,883.43	1,568.21	1,544.54	33.98	6.67	95.03	-5,551.13	1,530.77	6,219.80	6,182.32	37.48	165.941		
3,500.00	2,955.56	1,584.00	1,559.79	35.51	6.75	95.15	-5,554.51	1,528.46	6,257.90	6,219.13	38.77	161.396		
3,600.00	3,027.68	1,629.70	1,603.88	37.04	7.01	95.52	-5,564.47	1,521.73	6,297.02	6,256.80	40.22	156.582		
3,700.00	3,099.81	1,659.64	1,632.73	38.57	7.18	95.76	-5,571.13	1,517.32	6,337.24	6,295.69	41.55	152.511		
3,800.00	3,171.93	1,710.93	1,682.13	40.11	7.47	96.16	-5,582.73	1,509.79	6,378.50	6,335.50	42.99	148.358		
3,900.00	3,244.06	1,952.68	1,915.93	41.64	8.80	98.04	-5,634.00	1,475.94	6,419.90	6,374.41	45.49	141.134		
4,000.00	3,316.18	2,120.71	2,079.39	43.18	9.70	99.32	-5,665.36	1,452.93	6,460.23	6,412.69	47.54	135.896		
4,100.00	3,388.31	2,147.00	2,104.99	44.71	9.84	99.52	-5,670.09	1,449.31	6,501.31	6,452.51	48.80	133.218		
4,200.00	3,460.43	2,190.44	2,147.27	46.25	10.07	99.85	-5,678.05	1,443.21	6,543.31	6,493.17	50.14	130.491		
4,300.00	3,532.56	2,216.73	2,172.81	47.79	10.21	100.05	-5,683.01	1,439.44	6,586.39	6,535.02	51.37	128.206		
4,400.00	3,604.68	2,240.00	2,195.38	49.33	10.34	100.22	-5,687.49	1,436.06	6,630.47	6,577.90	52.57	126.132		
4,500.00	3,676.81	2,285.78	2,239.80	50.87	10.59	100.57	-5,696.49	1,429.57	6,675.46	6,621.59	53.87	123.916		
4,600.00	3,748.93	2,328.06	2,280.84	52.41	10.82	100.88	-5,704.94	1,423.98	6,721.29	6,666.15	55.14	121.896		
4,700.00	3,821.06	2,406.96	2,357.47	53.95	11.24	101.46	-5,720.74	1,413.75	6,767.79	6,711.19	56.60	119.571		
4,800.00	3,893.18	4,800.00	2,455.21	55.49	24.07	102.19	-5,740.11	1,400.44	6,814.48	6,746.66	67.82	100.482		
4,900.00	3,965.31	2,565.71	2,511.87	57.03	12.09	102.62	-5,751.16	1,392.85	6,861.72	6,802.24	59.48	115.357		
5,000.00	4,037.43	2,596.76	2,542.05	58.58	12.26	102.84	-5,757.16	1,388.73	6,909.84	6,849.21	60.63	113.976		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	2,637.16	2,581.29	60.12	12.48	103.13	-5,765.09	1,383.29	6,958.79	6,896.99	61.81	112.590		
5,200.00	4,181.68	3,006.02	2,941.04	61.66	14.40	105.72	-5,830.92	1,335.67	7,008.11	6,943.29	64.82	108.124		
5,300.00	4,253.81	3,084.87	3,018.38	63.20	14.79	106.26	-5,843.15	1,326.38	7,055.72	6,989.53	66.18	106.610		
5,400.00	4,325.93	3,084.00	3,017.53	64.75	14.79	106.26	-5,843.02	1,326.49	7,104.05	7,036.94	67.10	105.865		
5,500.00	4,398.06	3,123.49	3,056.25	66.29	14.99	106.52	-5,849.30	1,321.90	7,153.12	7,084.89	68.23	104.839		
5,600.00	4,470.18	3,142.94	3,075.28	67.84	15.08	106.65	-5,852.56	1,319.64	7,203.17	7,133.94	69.23	104.049		
5,700.00	4,542.31	3,178.00	3,109.56	69.38	15.26	106.89	-5,858.72	1,315.56	7,254.15	7,183.85	70.30	103.190		
5,800.00	4,614.43	3,178.00	3,109.56	70.92	15.26	106.89	-5,858.72	1,315.56	7,305.88	7,234.73	71.15	102.679		
5,900.00	4,686.56	3,216.09	3,146.74	72.47	15.46	107.14	-5,865.67	1,311.10	7,358.44	7,286.22	72.21	101.902		
6,000.00	4,758.68	3,248.10	3,177.96	74.01	15.62	107.36	-5,871.62	1,307.30	7,411.71	7,338.50	73.22	101.227		
6,100.00	4,830.81	3,272.00	3,201.26	75.56	15.75	107.51	-5,876.13	1,304.43	7,465.71	7,391.55	74.16	100.665		
6,200.00	4,902.93	3,314.84	3,242.98	77.10	15.98	107.80	-5,884.29	1,299.06	7,520.37	7,445.17	75.21	99.993		
6,300.00	4,975.06	3,348.38	3,275.59	78.65	16.16	108.02	-5,890.72	1,294.58	7,575.72	7,499.53	76.18	99.441		
6,400.00	5,047.18	3,381.00	3,307.27	80.19	16.33	108.24	-5,897.01	1,290.02	7,631.72	7,554.58	77.14	98.937		
6,500.00	5,119.31	3,413.17	3,338.49	81.74	16.51	108.45	-5,903.31	1,285.53	7,688.38	7,610.30	78.08	98.473		
6,600.00	5,191.43	3,459.00	3,382.94	83.28	16.76	108.75	-5,912.50	1,279.17	7,745.70	7,666.62	79.09	97.939		
6,700.00	5,263.56	3,459.00	3,382.94	84.83	16.76	108.75	-5,912.50	1,279.17	7,803.65	7,723.85	79.80	97.792		
6,800.00	5,335.68	3,459.00	3,382.94	86.37	16.76	108.75	-5,912.50	1,279.17	7,862.45	7,781.95	80.49	97.679		
6,900.00	5,407.81	5,589.95	5,482.30	87.92	25.32	120.56	-6,136.17	1,139.37	7,918.03	7,826.36	91.67	86.374		
7,000.00	5,479.93	5,672.37	5,564.72	89.47	25.52	120.96	-6,135.34	1,139.68	7,960.92	7,868.10	92.82	85.768		
7,100.00	5,552.06	5,768.26	5,660.60	91.01	25.75	121.41	-6,134.14	1,139.93	8,004.03	7,910.03	94.00	85.148		
7,200.00	5,624.18	5,858.02	5,750.34	92.56	25.97	121.83	-6,132.77	1,140.26	8,047.27	7,952.11	95.16	84.569		
7,300.00	5,696.31	5,939.49	5,831.80	94.10	26.17	122.21	-6,131.36	1,140.44	8,090.77	7,994.49	96.28	84.038		
7,400.00	5,768.43	6,014.37	5,906.67	95.65	26.35	122.56	-6,129.95	1,140.49	8,134.55	8,037.19	97.36	83.548		
7,500.00	5,840.56	6,078.76	5,971.05	97.20	26.52	122.85	-6,128.72	1,140.40	8,178.72	8,080.31	98.41	83.109		
7,600.00	5,912.68	6,156.44	6,048.71	98.74	26.71	123.21	-6,127.20	1,140.14	8,223.25	8,123.76	99.49	82.654		
7,700.00	5,984.81	6,242.76	6,135.01	100.29	26.93	123.60	-6,125.39	1,139.81	8,268.03	8,167.44	100.59	82.194		
7,800.00	6,056.93	6,317.99	6,210.23	101.84	27.13	123.95	-6,123.71	1,139.55	8,313.04	8,211.40	101.65	81.783		
7,900.00	6,129.06	6,395.92	6,288.13	103.38	27.33	124.30	-6,121.96	1,139.22	8,358.39	8,255.69	102.70	81.384		
8,000.00	6,201.18	6,495.39	6,387.57	104.93	27.59	124.74	-6,119.46	1,138.77	8,403.90	8,300.08	103.82	80.944		
8,100.00	6,273.31	6,585.98	6,478.13	106.48	27.82	125.14	-6,116.99	1,138.58	8,449.51	8,344.60	104.91	80.543		
8,200.00	6,345.43	6,659.22	6,551.34	108.02	28.01	125.46	-6,115.06	1,138.78	8,495.35	8,389.43	105.92	80.202		
8,300.00	6,417.56	6,715.70	6,607.81	109.57	28.16	125.70	-6,113.69	1,139.04	8,541.58	8,434.70	106.88	79.920		
8,400.00	6,489.68	6,781.82	6,673.91	111.12	28.33	125.99	-6,112.21	1,139.35	8,588.22	8,480.37	107.85	79.628		
8,500.00	6,561.81	6,849.44	6,741.51	112.66	28.51	126.27	-6,110.72	1,139.68	8,635.17	8,526.34	108.83	79.345		
8,600.00	6,633.93	6,902.59	6,794.64	114.21	28.65	126.50	-6,109.61	1,139.87	8,682.53	8,572.78	109.75	79.114		
8,700.00	6,706.06	6,992.58	6,884.62	115.76	28.89	126.88	-6,107.84	1,140.20	8,730.25	8,619.46	110.79	78.801		
8,800.00	6,778.18	7,078.58	6,970.60	117.30	29.12	127.23	-6,106.02	1,140.85	8,778.01	8,666.20	111.81	78.508		
8,900.00	6,850.31	7,158.89	7,050.88	118.85	29.33	127.56	-6,104.32	1,141.54	8,826.01	8,713.21	112.80	78.241		
9,000.00	6,922.43	7,236.66	7,128.63	120.40	29.54	127.88	-6,102.60	1,142.27	8,874.18	8,760.40	113.78	77.992		
9,100.00	6,994.56	7,299.78	7,191.73	121.95	29.71	128.13	-6,101.28	1,142.94	8,922.67	8,807.96	114.70	77.790		
9,200.00	7,066.68	7,408.93	7,300.86	123.49	30.00	128.56	-6,098.97	1,144.28	8,971.33	8,855.54	115.79	77.482		
9,300.00	7,138.81	7,562.24	7,454.09	125.04	30.41	129.16	-6,094.99	1,147.17	9,019.65	8,902.62	117.03	77.072		
9,392.50	7,205.52	7,662.74	7,554.51	126.47	30.68	129.54	-6,092.25	1,150.06	9,064.20	8,946.18	118.02	76.800		
9,400.00	7,210.94	7,670.72	7,562.47	126.59	30.70	128.64	-6,092.04	1,150.33	9,067.78	8,949.67	118.10	76.778		
9,450.00	7,247.42	7,717.05	7,608.76	127.35	30.83	122.58	-6,090.77	1,151.89	9,089.57	8,970.94	118.63	76.620		
9,500.00	7,284.35	7,761.29	7,652.97	128.10	30.94	116.52	-6,089.51	1,153.35	9,107.76	8,988.59	119.17	76.423		
9,550.00	7,321.43	7,776.00	7,667.66	128.83	30.98	110.45	-6,089.07	1,153.82	9,122.27	9,002.64	119.63	76.255		
9,600.00	7,358.38	7,801.63	7,693.27	129.52	31.05	104.67	-6,088.33	1,154.57	9,133.05	9,012.91	120.14	76.022		
9,650.00	7,394.93	7,816.66	7,708.29	130.16	31.09	99.20	-6,087.93	1,154.97	9,140.08	9,019.47	120.61	75.781		
9,700.00	7,430.79	8,156.00	8,047.11	130.76	32.00	95.60	-6,074.70	1,166.75	9,142.87	9,020.61	122.26	74.782		
9,750.00	7,465.70	8,156.00	8,047.11	131.30	32.00	91.10	-6,074.70	1,166.75	9,141.06	9,018.38	122.68	74.509		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,499.38	8,156.00	8,047.11	131.78	32.00	87.19	-6,074.70	1,166.75	9,135.55	9,012.45	123.10	74.215		
9,850.00	7,531.58	8,184.36	8,075.42	132.21	32.07	84.02	-6,073.35	1,167.99	9,126.24	9,002.65	123.59	73.844		
9,900.00	7,562.06	8,195.00	8,086.03	132.57	32.10	81.38	-6,072.86	1,168.41	9,113.32	8,989.33	124.00	73.497		
9,950.00	7,590.58	8,204.85	8,095.86	132.87	32.13	79.35	-6,072.42	1,168.77	9,096.86	8,972.48	124.37	73.142		
10,000.00	7,616.93	8,213.85	8,104.85	133.11	32.15	77.92	-6,072.03	1,169.09	9,076.95	8,952.23	124.72	72.780		
10,050.00	7,640.90	8,221.93	8,112.92	133.29	32.17	77.09	-6,071.68	1,169.35	9,053.74	8,928.71	125.03	72.414		
10,100.00	7,662.32	8,250.00	8,140.95	133.42	32.25	77.03	-6,070.53	1,170.15	9,027.45	8,902.07	125.38	72.002		
10,150.00	7,681.01	8,250.00	8,140.95	133.50	32.25	77.43	-6,070.53	1,170.15	8,998.10	8,872.50	125.59	71.645		
10,200.00	7,696.85	8,250.00	8,140.95	133.52	32.25	78.53	-6,070.53	1,170.15	8,965.99	8,840.22	125.78	71.285		
10,250.00	7,709.70	8,250.00	8,140.95	133.51	32.25	80.40	-6,070.53	1,170.15	8,931.36	8,805.43	125.93	70.923		
10,300.00	7,719.47	8,250.00	8,140.95	133.46	32.25	83.13	-6,070.53	1,170.15	8,894.42	8,768.37	126.06	70.560		
10,350.00	7,726.09	8,250.00	8,140.95	133.37	32.25	86.88	-6,070.53	1,170.15	8,855.45	8,729.29	126.15	70.195		
10,400.00	7,729.50	8,250.00	8,140.95	133.26	32.25	91.80	-6,070.53	1,170.15	8,814.70	8,688.47	126.23	69.830		
10,427.79	7,730.00	8,250.00	8,140.95	133.18	32.25	95.11	-6,070.53	1,170.15	8,791.39	8,665.13	126.27	69.626		
10,500.00	7,730.00	8,250.00	8,140.95	132.98	32.25	95.11	-6,070.53	1,170.15	8,730.37	8,604.02	126.35	69.098		
10,600.00	7,730.00	8,250.00	8,140.95	132.72	32.25	95.11	-6,070.53	1,170.15	8,646.14	8,519.67	126.47	68.367		
10,700.00	7,730.00	8,250.00	8,140.95	132.47	32.25	95.11	-6,070.53	1,170.15	8,562.25	8,435.65	126.59	67.637		
10,800.00	7,730.00	8,250.00	8,140.95	132.22	32.25	95.11	-6,070.53	1,170.15	8,478.70	8,351.98	126.72	66.908		
10,900.00	7,730.00	8,250.00	8,140.95	131.99	32.25	95.11	-6,070.53	1,170.15	8,395.52	8,268.67	126.86	66.181		
11,000.00	7,730.00	8,250.00	8,140.95	131.77	32.25	95.11	-6,070.53	1,170.15	8,312.71	8,185.71	127.00	65.455		
11,100.00	7,730.00	8,250.00	8,140.95	131.56	32.25	95.11	-6,070.53	1,170.15	8,230.28	8,103.13	127.15	64.731		
11,200.00	7,730.00	8,250.00	8,140.95	131.36	32.25	95.11	-6,070.53	1,170.15	8,148.24	8,020.94	127.30	64.008		
11,300.00	7,730.00	8,250.00	8,140.95	131.17	32.25	95.11	-6,070.53	1,170.15	8,066.61	7,939.15	127.46	63.287		
11,400.00	7,730.00	8,250.00	8,140.95	130.99	32.25	95.11	-6,070.53	1,170.15	7,985.40	7,857.77	127.63	62.567		
11,500.00	7,730.00	8,250.00	8,140.95	130.82	32.25	95.11	-6,070.53	1,170.15	7,904.62	7,776.81	127.81	61.849		
11,600.00	7,730.00	8,250.00	8,140.95	130.66	32.25	95.11	-6,070.53	1,170.15	7,824.28	7,696.29	127.99	61.133		
11,700.00	7,730.00	8,250.00	8,140.95	130.51	32.25	95.11	-6,070.53	1,170.15	7,744.40	7,616.22	128.18	60.419		
11,800.00	7,730.00	8,250.00	8,140.95	130.37	32.25	95.11	-6,070.53	1,170.15	7,664.99	7,536.61	128.38	59.707		
11,900.00	7,730.00	8,250.00	8,140.95	130.24	32.25	95.11	-6,070.53	1,170.15	7,586.07	7,457.49	128.58	58.997		
12,000.00	7,730.00	8,250.00	8,140.95	130.13	32.25	95.11	-6,070.53	1,170.15	7,507.65	7,378.85	128.80	58.290		
12,100.00	7,730.00	8,223.93	8,114.91	130.02	32.18	94.79	-6,071.60	1,169.42	7,429.63	7,300.72	128.91	57.635		
12,200.00	7,730.00	8,222.33	8,113.32	129.93	32.18	94.77	-6,071.66	1,169.37	7,352.25	7,223.11	129.13	56.936		
12,300.00	7,730.00	8,220.72	8,111.71	129.85	32.17	94.75	-6,071.73	1,169.31	7,275.41	7,146.05	129.37	56.239		
12,400.00	7,730.00	8,219.09	8,110.09	129.77	32.17	94.73	-6,071.80	1,169.26	7,199.15	7,069.54	129.61	55.545		
12,500.00	7,730.00	8,217.46	8,108.45	129.71	32.16	94.71	-6,071.87	1,169.21	7,123.47	6,993.61	129.86	54.854		
12,600.00	7,730.00	8,215.81	8,106.81	129.66	32.16	94.69	-6,071.94	1,169.15	7,048.40	6,918.28	130.12	54.167		
12,700.00	7,730.00	8,214.15	8,105.15	129.63	32.15	94.67	-6,072.01	1,169.10	6,973.95	6,843.56	130.40	53.483		
12,800.00	7,730.00	8,212.47	8,103.48	129.60	32.15	94.65	-6,072.09	1,169.04	6,900.15	6,769.47	130.68	52.802		
12,900.00	7,730.00	8,210.79	8,101.79	129.59	32.14	94.63	-6,072.16	1,168.98	6,827.02	6,696.04	130.97	52.125		
13,000.00	7,730.00	8,209.09	8,100.10	129.59	32.14	94.61	-6,072.23	1,168.92	6,754.57	6,623.29	131.28	51.452		
13,100.00	7,730.00	8,207.37	8,098.39	129.60	32.14	94.59	-6,072.31	1,168.86	6,682.83	6,551.23	131.59	50.784		
13,200.00	7,730.00	8,205.65	8,096.66	129.63	32.13	94.57	-6,072.39	1,168.80	6,611.82	6,479.90	131.92	50.119		
13,300.00	7,730.00	8,203.91	8,094.93	129.66	32.13	94.55	-6,072.46	1,168.74	6,541.57	6,409.31	132.26	49.459		
13,400.00	7,730.00	8,202.16	8,093.18	129.72	32.12	94.52	-6,072.54	1,168.68	6,472.11	6,339.49	132.61	48.805		
13,500.00	7,730.00	8,200.39	8,091.41	129.78	32.12	94.50	-6,072.62	1,168.61	6,403.45	6,270.47	132.98	48.155		
13,600.00	7,730.00	8,198.61	8,089.63	129.86	32.11	94.48	-6,072.70	1,168.55	6,335.62	6,202.27	133.35	47.510		
13,700.00	7,730.00	8,196.81	8,087.84	129.96	32.11	94.46	-6,072.78	1,168.48	6,268.65	6,134.91	133.74	46.871		
13,800.00	7,730.00	8,195.00	8,086.03	130.07	32.10	94.44	-6,072.86	1,168.41	6,202.57	6,068.43	134.14	46.238		
13,900.00	7,730.00	8,193.18	8,084.21	130.19	32.10	94.41	-6,072.94	1,168.34	6,137.41	6,002.85	134.56	45.612		
14,000.00	7,730.00	8,191.34	8,082.38	130.33	32.09	94.39	-6,073.03	1,168.27	6,073.19	5,938.21	134.99	44.991		
14,100.00	7,730.00	8,189.49	8,080.53	130.49	32.09	94.37	-6,073.11	1,168.20	6,009.95	5,874.52	135.43	44.378		
14,200.00	7,730.00	8,187.62	8,078.66	130.67	32.08	94.35	-6,073.20	1,168.12	5,947.72	5,811.84	135.88	43.772		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	8,185.73	8,076.78	130.86	32.08	94.32	-6,073.28	1,168.05	5,886.52	5,750.18	136.35	43.173		
14,400.00	7,730.00	8,183.83	8,074.89	131.07	32.07	94.30	-6,073.37	1,167.97	5,826.40	5,689.58	136.83	42.582		
14,500.00	7,730.00	8,181.92	8,072.97	131.30	32.07	94.28	-6,073.46	1,167.89	5,767.39	5,630.07	137.32	41.999		
14,600.00	7,730.00	8,179.99	8,071.05	131.55	32.06	94.25	-6,073.55	1,167.81	5,709.51	5,571.68	137.83	41.425		
14,700.00	7,730.00	8,156.00	8,047.11	131.82	32.00	93.96	-6,074.70	1,166.75	5,652.92	5,514.70	138.22	40.898		
14,800.00	7,730.00	8,156.00	8,047.11	132.11	32.00	93.96	-6,074.70	1,166.75	5,597.41	5,458.65	138.76	40.338		
14,900.00	7,730.00	8,156.00	8,047.11	132.42	32.00	93.96	-6,074.70	1,166.75	5,543.15	5,403.83	139.32	39.788		
15,000.00	7,730.00	8,156.00	8,047.11	132.75	32.00	93.96	-6,074.70	1,166.75	5,490.18	5,350.29	139.89	39.247		
15,100.00	7,730.00	8,156.00	8,047.11	133.10	32.00	93.96	-6,074.70	1,166.75	5,438.53	5,298.06	140.47	38.718		
15,200.00	7,730.00	8,156.00	8,047.11	133.48	32.00	93.96	-6,074.70	1,166.75	5,388.24	5,247.18	141.06	38.199		
15,300.00	7,730.00	8,156.00	8,047.11	133.88	32.00	93.96	-6,074.70	1,166.75	5,339.35	5,197.69	141.66	37.691		
15,400.00	7,730.00	8,156.00	8,047.11	134.31	32.00	93.96	-6,074.70	1,166.75	5,291.90	5,149.62	142.27	37.195		
15,500.00	7,730.00	8,156.00	8,047.11	134.76	32.00	93.96	-6,074.70	1,166.75	5,245.92	5,103.03	142.90	36.712		
15,600.00	7,730.00	8,156.00	8,047.11	135.23	32.00	93.96	-6,074.70	1,166.75	5,201.46	5,057.94	143.53	36.241		
15,700.00	7,730.00	8,156.00	8,047.11	135.73	32.00	93.96	-6,074.70	1,166.75	5,158.56	5,014.40	144.16	35.783		
15,800.00	7,730.00	8,156.00	8,047.11	136.26	32.00	93.96	-6,074.70	1,166.75	5,117.25	4,972.45	144.81	35.338		
15,900.00	7,730.00	8,151.38	8,042.50	136.81	31.99	93.90	-6,074.92	1,166.53	5,077.58	4,932.15	145.43	34.914		
16,000.00	7,730.00	8,147.57	8,038.70	137.39	31.98	93.86	-6,075.11	1,166.35	5,039.57	4,893.51	146.06	34.503		
16,100.00	7,730.00	8,143.72	8,034.86	138.00	31.97	93.81	-6,075.30	1,166.17	5,003.27	4,856.57	146.69	34.107		
16,200.00	7,730.00	8,139.84	8,030.99	138.63	31.96	93.76	-6,075.50	1,165.98	4,968.71	4,821.38	147.33	33.725		
16,300.00	7,730.00	8,135.91	8,027.07	139.30	31.95	93.71	-6,075.69	1,165.79	4,935.93	4,787.97	147.96	33.359		
16,400.00	7,730.00	8,131.95	8,023.12	139.99	31.94	93.67	-6,075.89	1,165.60	4,904.97	4,756.37	148.60	33.008		
16,500.00	7,730.00	8,127.94	8,019.12	140.70	31.92	93.62	-6,076.10	1,165.41	4,875.86	4,726.63	149.23	32.674		
16,600.00	7,730.00	8,123.89	8,015.08	141.45	31.91	93.57	-6,076.30	1,165.21	4,848.63	4,698.78	149.86	32.355		
16,700.00	7,730.00	8,119.80	8,011.00	142.22	31.90	93.52	-6,076.51	1,165.02	4,823.32	4,672.85	150.48	32.054		
16,800.00	7,730.00	8,115.67	8,006.88	143.03	31.89	93.47	-6,076.73	1,164.82	4,799.96	4,648.87	151.09	31.769		
16,900.00	7,730.00	8,111.50	8,002.71	143.86	31.88	93.42	-6,076.94	1,164.61	4,778.56	4,626.87	151.69	31.502		
17,000.00	7,730.00	8,107.27	7,998.50	144.71	31.87	93.36	-6,077.16	1,164.41	4,759.17	4,606.89	152.28	31.252		
17,100.00	7,730.00	8,103.01	7,994.25	145.60	31.86	93.31	-6,077.39	1,164.20	4,741.81	4,588.94	152.86	31.020		
17,200.00	7,730.00	8,098.70	7,989.95	146.51	31.85	93.26	-6,077.61	1,163.98	4,726.49	4,573.06	153.43	30.805		
17,300.00	7,730.00	8,094.34	7,985.61	147.44	31.84	93.21	-6,077.84	1,163.77	4,713.24	4,559.26	153.98	30.609		
17,400.00	7,730.00	8,089.94	7,981.21	148.40	31.83	93.15	-6,078.08	1,163.55	4,702.08	4,547.56	154.51	30.431		
17,500.00	7,730.00	8,085.49	7,976.77	149.39	31.81	93.10	-6,078.31	1,163.33	4,693.01	4,537.98	155.03	30.272		
17,600.00	7,730.00	8,080.99	7,972.28	150.40	31.80	93.04	-6,078.56	1,163.10	4,686.06	4,530.53	155.52	30.131		
17,700.00	7,730.00	8,076.44	7,967.75	151.44	31.79	92.99	-6,078.80	1,162.88	4,681.22	4,525.23	156.00	30.009		
17,800.00	7,730.00	8,071.84	7,963.16	152.50	31.78	92.93	-6,079.05	1,162.65	4,678.52	4,522.07	156.45	29.905		
17,876.91	7,730.00	8,068.26	7,959.60	153.32	31.77	92.89	-6,079.25	1,162.47	4,677.89	4,521.11	156.78	29.838 CC		
17,900.00	7,730.00	8,067.18	7,958.52	153.58	31.77	92.87	-6,079.31	1,162.41	4,677.94	4,521.07	156.87	29.820		
18,000.00	7,730.00	18,000.00	7,909.27	154.68	31.74	92.87	-6,081.60	1,160.33	4,679.30	4,494.47	184.83	25.316 ES, SF		
18,100.00	7,730.00	8,003.11	7,894.59	155.80	31.60	92.09	-6,082.49	1,159.51	4,683.17	4,525.89	157.28	29.776		
18,200.00	7,730.00	7,962.49	7,854.03	156.95	31.49	91.59	-6,084.07	1,158.12	4,688.90	4,531.53	157.38	29.794		
18,300.00	7,730.00	7,949.89	7,841.44	158.11	31.46	91.44	-6,084.49	1,157.75	4,696.75	4,539.10	157.64	29.793		
18,400.00	7,730.00	7,938.57	7,830.13	159.30	31.43	91.30	-6,084.86	1,157.44	4,706.69	4,548.80	157.90	29.809		
18,500.00	7,730.00	7,928.35	7,819.92	160.50	31.40	91.17	-6,085.17	1,157.18	4,718.73	4,560.60	158.13	29.841		
18,600.00	7,730.00	7,919.07	7,810.64	161.72	31.37	91.06	-6,085.44	1,156.96	4,732.85	4,574.51	158.34	29.891		
18,700.00	7,730.00	7,910.60	7,802.18	162.96	31.35	90.96	-6,085.67	1,156.77	4,749.02	4,590.49	158.53	29.957		
18,800.00	7,730.00	7,902.85	7,794.44	164.21	31.33	90.86	-6,085.88	1,156.61	4,767.23	4,608.53	158.70	30.040		
18,900.00	7,730.00	7,895.73	7,787.32	165.48	31.31	90.78	-6,086.06	1,156.47	4,787.46	4,628.61	158.84	30.139		
19,000.00	7,730.00	7,889.17	7,780.76	166.76	31.29	90.70	-6,086.22	1,156.35	4,809.68	4,650.71	158.97	30.255		
19,100.00	7,730.00	7,883.10	7,774.69	168.06	31.27	90.62	-6,086.36	1,156.24	4,833.86	4,674.79	159.07	30.388		
19,200.00	7,730.00	7,877.46	7,769.06	169.38	31.26	90.55	-6,086.49	1,156.15	4,859.98	4,700.83	159.15	30.537		
19,300.00	7,730.00	7,872.22	7,763.82	170.70	31.25	90.49	-6,086.60	1,156.07	4,888.00	4,728.79	159.21	30.702		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,872.00	7,763.60	172.04	31.24	90.48	-6,086.61	1,156.07	4,917.89	4,758.61	159.28	30.876	
19,500.00	7,730.00	7,872.00	7,763.60	173.40	31.24	90.48	-6,086.61	1,156.07	4,949.63	4,790.30	159.33	31.066	
19,600.00	7,730.00	7,872.00	7,763.60	174.76	31.24	90.48	-6,086.61	1,156.07	4,983.17	4,823.82	159.35	31.272	
19,700.00	7,730.00	7,872.00	7,763.60	176.14	31.24	90.48	-6,086.61	1,156.07	5,018.47	4,859.12	159.35	31.493	
19,800.00	7,730.00	7,872.00	7,763.60	177.52	31.24	90.48	-6,086.61	1,156.07	5,055.51	4,896.18	159.33	31.729	
19,900.00	7,730.00	7,872.00	7,763.60	178.92	31.24	90.48	-6,086.61	1,156.07	5,094.25	4,934.95	159.30	31.980	
20,000.00	7,730.00	7,872.00	7,763.60	180.33	31.24	90.48	-6,086.61	1,156.07	5,134.64	4,975.40	159.24	32.245	
20,100.00	7,730.00	7,872.00	7,763.60	181.75	31.24	90.48	-6,086.61	1,156.07	5,176.65	5,017.48	159.16	32.524	
20,184.95	7,730.00	7,872.00	7,763.60	182.96	31.24	90.48	-6,086.61	1,156.07	5,213.57	5,054.49	159.08	32.772	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.87	-5,380.11	1,658.25	5,629.87					
100.00	100.00	110.19	110.19	0.13	0.21	162.87	-5,379.91	1,658.18	5,629.67	5,629.33	0.34	N/A		
154.71	154.71	154.25	154.25	0.33	0.36	92.42	-5,379.81	1,658.25	5,629.60	5,628.91	0.69	8,164.621		
200.00	199.98	185.00	185.00	0.49	0.47	92.43	-5,379.77	1,658.37	5,629.66	5,628.70	0.96	5,872.755		
300.00	299.84	228.11	228.11	0.86	0.62	92.43	-5,379.89	1,658.87	5,630.53	5,629.06	1.47	3,820.281		
400.00	399.45	274.00	273.98	1.23	0.78	92.42	-5,380.41	1,660.00	5,632.63	5,630.62	2.01	2,798.596		
500.00	498.70	308.48	308.42	1.63	0.91	92.38	-5,381.03	1,661.29	5,635.92	5,633.39	2.53	2,223.972		
600.00	597.47	365.00	364.84	2.05	1.11	92.36	-5,382.48	1,664.37	5,640.49	5,637.33	3.16	1,785.787		
700.00	695.62	365.00	364.84	2.51	1.11	92.25	-5,382.48	1,664.37	5,646.27	5,642.65	3.61	1,562.536		
800.00	793.06	422.78	422.44	3.00	1.32	92.20	-5,384.64	1,668.47	5,653.14	5,648.83	4.31	1,310.234		
900.00	889.64	456.00	455.51	3.53	1.45	92.10	-5,386.26	1,671.14	5,661.40	5,656.43	4.97	1,139.949		
1,000.00	985.27	501.01	500.24	4.12	1.62	92.01	-5,388.75	1,675.40	5,670.85	5,665.14	5.71	992.668		
1,100.00	1,079.82	549.00	547.82	4.75	1.81	91.91	-5,391.65	1,681.00	5,681.47	5,674.95	6.52	871.573		
1,200.00	1,173.17	579.68	578.16	5.44	1.94	91.76	-5,393.68	1,685.04	5,693.26	5,685.94	7.32	778.126		
1,300.00	1,265.21	640.00	637.70	6.18	2.19	91.67	-5,398.34	1,693.56	5,706.42	5,698.13	8.29	688.476		
1,400.00	1,355.84	640.00	637.70	6.99	2.19	91.39	-5,398.34	1,693.56	5,720.55	5,711.48	9.07	630.427		
1,500.00	1,444.94	688.90	685.83	7.87	2.41	91.24	-5,402.72	1,701.03	5,735.96	5,725.83	10.13	566.492		
1,600.00	1,532.39	732.00	728.14	8.80	2.60	91.07	-5,407.01	1,708.00	5,752.58	5,741.37	11.21	513.012		
1,700.00	1,618.11	732.00	728.14	9.81	2.60	90.70	-5,407.01	1,708.00	5,770.55	5,758.38	12.18	473.865		
1,800.00	1,701.97	790.40	785.26	10.89	2.88	90.56	-5,413.48	1,718.26	5,789.42	5,775.95	13.47	429.777		
1,900.00	1,783.88	825.00	818.97	12.04	3.05	90.30	-5,417.70	1,724.87	5,809.66	5,794.94	14.72	394.707		
2,000.00	1,863.74	857.48	850.51	13.26	3.22	90.02	-5,421.88	1,731.37	5,831.07	5,815.04	16.03	363.757		
2,100.00	1,941.45	893.04	884.96	14.55	3.40	89.73	-5,426.69	1,738.76	5,853.58	5,836.16	17.42	336.027		
2,200.00	2,016.92	933.23	923.79	15.92	3.62	89.45	-5,432.39	1,747.44	5,877.18	5,858.28	18.90	310.945		
2,292.11	2,084.36	983.42	972.18	17.25	3.89	89.26	-5,439.71	1,758.57	5,899.71	5,879.31	20.40	289.253		
2,300.00	2,090.06	987.69	976.29	17.36	3.91	89.29	-5,440.34	1,759.53	5,901.67	5,881.14	20.53	287.519		
2,400.00	2,162.18	1,037.59	1,024.30	18.84	4.19	89.56	-5,447.80	1,770.87	5,926.99	5,904.84	22.16	267.480		
2,500.00	2,234.31	1,083.63	1,068.56	20.33	4.46	89.81	-5,454.94	1,781.36	5,953.26	5,929.48	23.78	250.368		
2,600.00	2,306.43	1,132.18	1,115.19	21.83	4.74	90.08	-5,462.75	1,792.42	5,980.45	5,955.03	25.42	235.308		
2,700.00	2,378.56	1,183.05	1,164.01	23.33	5.03	90.36	-5,471.19	1,803.94	6,008.51	5,981.44	27.06	222.009		
2,800.00	2,450.68	1,232.00	1,210.96	24.84	5.32	90.63	-5,479.61	1,814.93	6,037.46	6,008.76	28.70	210.371		
2,900.00	2,522.81	2,900.00	1,357.73	26.36	14.99	91.47	-5,505.20	1,847.46	6,066.28	6,027.87	38.40	157.958		
3,000.00	2,594.93	1,439.62	1,410.94	27.88	6.52	91.78	-5,514.33	1,858.59	6,095.44	6,062.83	32.61	186.901		
3,100.00	2,667.06	1,490.00	1,459.56	29.40	6.81	92.06	-5,523.13	1,868.45	6,125.63	6,091.39	34.24	178.888		
3,200.00	2,739.18	1,490.00	1,459.56	30.92	6.81	92.06	-5,523.13	1,868.45	6,156.87	6,121.31	35.56	173.156		
3,300.00	2,811.31	1,542.01	1,509.69	32.45	7.11	92.35	-5,532.81	1,878.37	6,189.03	6,151.85	37.17	166.486		
3,400.00	2,883.43	1,584.00	1,550.10	33.98	7.35	92.59	-5,541.10	1,886.20	6,222.34	6,183.62	38.72	160.694		
3,500.00	2,955.56	1,610.81	1,575.87	35.51	7.51	92.74	-5,546.58	1,891.13	6,256.62	6,216.46	40.16	155.787		
3,600.00	3,027.68	1,651.98	1,615.42	37.04	7.75	92.97	-5,555.19	1,898.69	6,291.84	6,250.16	41.68	150.953		
3,700.00	3,099.81	1,704.08	1,665.41	38.57	8.05	93.26	-5,566.36	1,908.19	6,327.92	6,284.66	43.26	146.275		
3,800.00	3,171.93	3,800.00	1,780.81	40.11	20.23	93.94	-5,591.99	1,929.05	6,364.37	6,309.80	54.57	116.626		
3,900.00	3,244.06	2,182.44	2,128.62	41.64	10.69	95.98	-5,658.88	1,982.87	6,398.38	6,349.67	48.71	131.357		
4,000.00	3,316.18	2,216.43	2,161.78	43.18	10.87	96.17	-5,664.71	1,987.46	6,432.35	6,382.19	50.16	128.231		
4,100.00	3,388.31	2,274.41	2,218.30	44.71	11.17	96.50	-5,675.00	1,995.38	6,467.26	6,415.52	51.75	124.979		
4,200.00	3,460.43	2,353.20	2,295.09	46.25	11.58	96.94	-5,688.83	2,006.32	6,502.53	6,449.08	53.45	121.655		
4,300.00	3,532.56	2,393.17	2,334.03	47.79	11.79	97.17	-5,695.99	2,011.77	6,538.56	6,483.65	54.91	119.083		
4,400.00	3,604.68	2,445.10	2,384.60	49.33	12.06	97.46	-5,705.59	2,018.66	6,575.45	6,519.02	56.43	116.533		
4,500.00	3,676.81	2,548.02	2,484.90	50.87	12.60	98.03	-5,724.33	2,032.08	6,612.59	6,554.34	58.25	113.517		
4,600.00	3,748.93	2,604.80	2,540.19	52.41	12.90	98.34	-5,734.70	2,039.79	6,650.25	6,590.46	59.79	111.235		
4,700.00	3,821.06	2,646.54	2,580.77	53.95	13.12	98.57	-5,742.46	2,045.75	6,688.63	6,627.41	61.22	109.259		
4,800.00	3,893.18	2,685.13	2,618.20	55.49	13.34	98.77	-5,749.85	2,051.56	6,727.84	6,665.22	62.62	107.441		
4,900.00	3,965.31	2,844.35	2,772.32	57.03	14.23	99.59	-5,779.73	2,078.08	6,767.04	6,702.18	64.86	104.334		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	2,897.00	2,823.34	58.58	14.52	99.86	-5,789.45	2,086.68	6,806.47	6,740.12	66.35	102.577		
5,100.00	4,109.56	2,957.20	2,881.69	60.12	14.86	100.17	-5,800.73	2,096.26	6,846.51	6,778.62	67.89	100.850		
5,200.00	4,181.68	3,032.85	2,955.01	61.66	15.28	100.56	-5,814.98	2,108.29	6,887.02	6,817.49	69.52	99.063		
5,300.00	4,253.81	3,105.76	3,025.71	63.20	15.69	100.93	-5,828.65	2,119.67	6,927.85	6,856.73	71.13	97.403		
5,400.00	4,325.93	3,160.81	3,079.14	64.75	15.99	101.21	-5,839.08	2,127.87	6,969.22	6,896.63	72.59	96.009		
5,500.00	4,398.06	3,213.33	3,130.13	66.29	16.28	101.47	-5,849.16	2,135.43	7,011.20	6,937.18	74.02	94.715		
5,600.00	4,470.18	3,272.00	3,187.00	67.84	16.60	101.77	-5,860.64	2,144.13	7,053.80	6,978.31	75.49	93.436		
5,700.00	4,542.31	3,313.51	3,227.20	69.38	16.83	101.98	-5,868.92	2,150.37	7,097.01	7,020.18	76.83	92.373		
5,800.00	4,614.43	3,365.00	3,277.02	70.92	17.12	102.23	-5,879.37	2,158.09	7,140.86	7,062.63	78.23	91.282		
5,900.00	4,686.56	3,501.26	3,408.91	72.47	17.89	102.89	-5,906.41	2,179.06	7,184.56	7,104.29	80.27	89.510		
6,000.00	4,758.68	3,553.00	3,458.93	74.01	18.18	103.14	-5,916.67	2,187.44	7,228.65	7,146.99	81.66	88.520		
6,100.00	4,830.81	3,584.96	3,489.78	75.56	18.37	103.29	-5,923.16	2,192.70	7,273.42	7,190.52	82.89	87.743		
6,200.00	4,902.93	3,614.25	3,518.01	77.10	18.54	103.43	-5,929.29	2,197.51	7,318.98	7,234.89	84.09	87.035		
6,300.00	4,975.06	3,647.00	3,549.53	78.65	18.73	103.58	-5,936.38	2,202.88	7,365.32	7,280.01	85.30	86.342		
6,400.00	5,047.18	3,750.71	3,649.06	80.19	19.36	104.05	-5,959.03	2,221.23	7,412.04	7,324.93	87.11	85.089		
6,500.00	5,119.31	3,821.78	3,717.22	81.74	19.79	104.37	-5,974.47	2,234.15	7,458.88	7,370.24	88.64	84.148		
6,600.00	5,191.43	5,489.65	5,359.40	83.28	26.68	112.35	-6,135.66	2,387.20	7,496.25	7,397.31	98.93	75.771		
6,700.00	5,263.56	5,569.96	5,439.68	84.83	26.85	112.77	-6,133.57	2,386.46	7,527.88	7,427.61	100.27	75.079		
6,800.00	5,335.68	5,633.48	5,503.18	86.37	26.99	113.10	-6,131.91	2,385.62	7,560.06	7,458.52	101.54	74.452		
6,900.00	5,407.81	5,693.43	5,563.10	87.92	27.11	113.42	-6,130.40	2,384.68	7,592.84	7,490.05	102.79	73.864		
7,000.00	5,479.93	5,787.13	5,656.76	89.47	27.31	113.90	-6,128.02	2,383.16	7,626.12	7,522.00	104.12	73.247		
7,100.00	5,552.06	5,856.41	5,726.01	91.01	27.47	114.26	-6,126.13	2,382.14	7,659.73	7,554.36	105.37	72.696		
7,200.00	5,624.18	5,935.21	5,804.77	92.56	27.64	114.66	-6,124.03	2,381.01	7,693.87	7,587.24	106.63	72.156		
7,300.00	5,696.31	6,032.16	5,901.67	94.10	27.85	115.16	-6,121.17	2,379.64	7,728.26	7,620.34	107.92	71.610		
7,400.00	5,768.43	6,122.55	5,992.01	95.65	28.06	115.62	-6,118.28	2,378.40	7,762.97	7,653.78	109.19	71.097		
7,500.00	5,840.56	6,222.69	6,092.07	97.20	28.28	116.12	-6,114.81	2,377.19	7,797.91	7,687.44	110.47	70.590		
7,600.00	5,912.68	6,303.19	6,172.52	98.74	28.47	116.52	-6,111.78	2,376.27	7,833.09	7,721.40	111.69	70.133		
7,700.00	5,984.81	6,363.26	6,232.54	100.29	28.61	116.82	-6,109.59	2,375.66	7,868.79	7,755.94	112.85	69.730		
7,800.00	6,056.93	6,440.69	6,309.92	101.84	28.79	117.20	-6,106.87	2,375.11	7,904.96	7,790.92	114.04	69.318		
7,900.00	6,129.06	6,515.65	6,384.83	103.38	28.97	117.56	-6,104.30	2,374.99	7,941.52	7,826.30	115.22	68.924		
8,000.00	6,201.18	6,578.60	6,447.75	104.93	29.13	117.86	-6,102.24	2,375.23	7,978.52	7,862.16	116.36	68.566		
8,100.00	6,273.31	6,630.07	6,499.20	106.48	29.26	118.11	-6,100.72	2,375.57	8,016.10	7,898.64	117.46	68.244		
8,200.00	6,345.43	6,695.82	6,564.92	108.02	29.43	118.42	-6,098.95	2,376.07	8,054.23	7,935.64	118.59	67.914		
8,300.00	6,417.56	6,773.49	6,642.57	109.57	29.63	118.78	-6,096.80	2,376.46	8,092.77	7,973.02	119.75	67.583		
8,400.00	6,489.68	6,857.61	6,726.64	111.12	29.84	119.18	-6,094.15	2,376.16	8,131.60	8,010.71	120.90	67.261		
8,500.00	6,561.81	6,939.33	6,808.31	112.66	30.04	119.56	-6,091.29	2,375.27	8,170.75	8,048.73	122.02	66.963		
8,600.00	6,633.93	6,992.37	6,861.31	114.21	30.17	119.82	-6,089.40	2,374.44	8,210.35	8,087.31	123.04	66.727		
8,700.00	6,706.06	7,056.46	6,925.34	115.76	30.33	120.12	-6,087.16	2,373.22	8,250.47	8,126.39	124.09	66.489		
8,800.00	6,778.18	7,127.19	6,996.02	117.30	30.50	120.45	-6,084.72	2,371.96	8,290.99	8,165.85	125.14	66.254		
8,900.00	6,850.31	7,183.82	7,052.61	118.85	30.64	120.72	-6,082.84	2,370.96	8,331.98	8,205.84	126.14	66.054		
9,000.00	6,922.43	7,262.56	7,131.29	120.40	30.84	121.08	-6,080.32	2,369.60	8,373.42	8,246.23	127.19	65.832		
9,100.00	6,994.56	7,337.92	7,206.61	121.95	31.03	121.43	-6,077.87	2,368.63	8,415.10	8,286.87	128.23	65.624		
9,200.00	7,066.68	7,394.26	7,262.92	123.49	31.17	121.68	-6,076.12	2,367.89	8,457.24	8,328.04	129.20	65.457		
9,300.00	7,138.81	7,450.43	7,319.06	125.04	31.32	121.94	-6,074.46	2,367.09	8,499.88	8,369.71	130.16	65.302		
9,392.50	7,205.52	7,502.17	7,370.77	126.47	31.45	122.17	-6,073.02	2,366.31	8,539.74	8,408.70	131.04	65.169		
9,400.00	7,210.94	7,506.32	7,374.92	126.59	31.46	121.32	-6,072.90	2,366.24	8,542.95	8,411.84	131.11	65.158		
9,450.00	7,247.42	7,534.19	7,402.77	127.35	31.53	115.59	-6,072.16	2,365.79	8,562.23	8,430.63	131.60	65.064		
9,500.00	7,284.35	7,562.24	7,430.81	128.10	31.61	109.80	-6,071.42	2,365.31	8,577.73	8,445.62	132.11	64.930		
9,550.00	7,321.43	7,589.00	7,457.56	128.83	31.68	104.05	-6,070.74	2,364.82	8,589.36	8,456.73	132.63	64.761		
9,600.00	7,358.38	7,619.50	7,488.05	129.52	31.76	98.51	-6,070.00	2,364.27	8,597.05	8,463.87	133.18	64.553		
9,650.00	7,394.93	7,648.37	7,516.91	130.16	31.83	93.28	-6,069.34	2,363.80	8,600.75	8,467.03	133.72	64.318		
9,700.00	7,430.79	9,700.00	7,652.12	130.76	37.77	88.97	-6,066.38	2,364.86	8,599.85	8,459.41	140.44	61.235		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,961.43	7,829.75	131.30	32.74	85.39	-6,062.03	2,370.05	8,594.97	8,459.22	135.75	63.312		
9,800.00	7,499.38	7,996.63	7,864.90	131.78	32.84	81.72	-6,060.96	2,371.44	8,585.66	8,449.34	136.32	62.981		
9,850.00	7,531.58	8,027.78	7,896.02	132.21	32.94	78.63	-6,059.97	2,372.55	8,572.48	8,435.63	136.85	62.642		
9,900.00	7,562.06	8,056.87	7,925.07	132.57	33.02	76.14	-6,059.00	2,373.49	8,555.52	8,418.18	137.34	62.293		
9,950.00	7,590.58	8,079.58	7,947.76	132.87	33.09	74.22	-6,058.23	2,374.15	8,534.92	8,397.14	137.78	61.944		
10,000.00	7,616.93	8,099.62	7,967.79	133.11	33.15	72.90	-6,057.55	2,374.69	8,510.85	8,372.67	138.18	61.591		
10,050.00	7,640.90	8,117.62	7,985.76	133.29	33.20	72.19	-6,056.93	2,375.14	8,483.47	8,344.93	138.54	61.235		
10,100.00	7,662.32	8,133.44	8,001.58	133.42	33.25	72.12	-6,056.38	2,375.50	8,452.98	8,314.12	138.86	60.876		
10,150.00	7,681.01	8,147.01	8,015.13	133.50	33.29	72.75	-6,055.91	2,375.80	8,419.60	8,280.47	139.13	60.516		
10,200.00	7,696.85	8,156.00	8,024.11	133.52	33.31	74.12	-6,055.59	2,375.98	8,383.55	8,244.20	139.35	60.160		
10,250.00	7,709.70	8,167.03	8,035.13	133.51	33.34	76.44	-6,055.21	2,376.19	8,345.10	8,205.54	139.55	59.799		
10,300.00	7,719.47	8,173.38	8,041.48	133.46	33.36	79.81	-6,054.99	2,376.31	8,304.51	8,164.80	139.71	59.442		
10,350.00	7,726.09	8,177.25	8,045.34	133.37	33.37	84.52	-6,054.85	2,376.38	8,262.08	8,122.25	139.83	59.088		
10,400.00	7,729.50	8,178.58	8,046.68	133.26	33.38	90.90	-6,054.81	2,376.41	8,218.10	8,078.18	139.92	58.736		
10,427.79	7,730.00	8,178.23	8,046.33	133.18	33.38	95.31	-6,054.82	2,376.40	8,193.10	8,053.14	139.95	58.542		
10,500.00	7,730.00	8,176.30	8,044.39	132.98	33.37	95.28	-6,054.88	2,376.37	8,127.75	7,987.72	140.04	58.039		
10,600.00	7,730.00	8,173.61	8,041.71	132.72	33.36	95.23	-6,054.98	2,376.32	8,037.46	7,897.30	140.16	57.345		
10,700.00	7,730.00	8,170.92	8,039.02	132.47	33.36	95.19	-6,055.07	2,376.26	7,947.39	7,807.10	140.28	56.652		
10,800.00	7,730.00	8,168.23	8,036.33	132.22	33.35	95.14	-6,055.16	2,376.21	7,857.56	7,717.15	140.41	55.960		
10,900.00	7,730.00	8,165.52	8,033.63	131.99	33.34	95.10	-6,055.26	2,376.16	7,767.98	7,627.43	140.55	55.270		
11,000.00	7,730.00	8,162.81	8,030.92	131.77	33.33	95.06	-6,055.35	2,376.11	7,678.65	7,537.97	140.68	54.582		
11,100.00	7,730.00	8,160.10	8,028.21	131.56	33.32	95.01	-6,055.45	2,376.06	7,589.59	7,448.77	140.82	53.895		
11,200.00	7,730.00	8,156.00	8,024.11	131.36	33.31	94.94	-6,055.59	2,375.98	7,500.81	7,359.85	140.96	53.212		
11,300.00	7,730.00	8,156.00	8,024.11	131.17	33.31	94.94	-6,055.59	2,375.98	7,412.31	7,271.18	141.12	52.524		
11,400.00	7,730.00	8,156.00	8,024.11	130.99	33.31	94.94	-6,055.59	2,375.98	7,324.10	7,182.82	141.29	51.839		
11,500.00	7,730.00	8,149.35	8,017.46	130.82	33.29	94.83	-6,055.82	2,375.84	7,236.20	7,094.77	141.43	51.165		
11,600.00	7,730.00	8,146.69	8,014.81	130.66	33.29	94.79	-6,055.92	2,375.79	7,148.61	7,007.02	141.59	50.488		
11,700.00	7,730.00	8,144.03	8,012.15	130.51	33.28	94.75	-6,056.01	2,375.73	7,061.36	6,919.60	141.76	49.813		
11,800.00	7,730.00	8,141.38	8,009.50	130.37	33.27	94.70	-6,056.10	2,375.68	6,974.44	6,832.51	141.93	49.140		
11,900.00	7,730.00	8,138.73	8,006.86	130.24	33.26	94.66	-6,056.19	2,375.62	6,887.88	6,745.77	142.11	48.470		
12,000.00	7,730.00	8,136.09	8,004.21	130.13	33.25	94.62	-6,056.29	2,375.56	6,801.69	6,659.40	142.29	47.802		
12,100.00	7,730.00	8,133.45	8,001.58	130.02	33.25	94.57	-6,056.38	2,375.50	6,715.87	6,573.40	142.48	47.136		
12,200.00	7,730.00	8,130.81	7,998.94	129.93	33.24	94.53	-6,056.47	2,375.45	6,630.46	6,487.79	142.67	46.474		
12,300.00	7,730.00	8,128.18	7,996.32	129.85	33.23	94.48	-6,056.56	2,375.39	6,545.45	6,402.58	142.87	45.814		
12,400.00	7,730.00	8,125.55	7,993.69	129.77	33.22	94.44	-6,056.65	2,375.33	6,460.88	6,317.80	143.08	45.157		
12,500.00	7,730.00	8,122.93	7,991.07	129.71	33.22	94.40	-6,056.74	2,375.27	6,376.74	6,233.46	143.29	44.503		
12,600.00	7,730.00	8,120.31	7,988.45	129.66	33.21	94.36	-6,056.83	2,375.20	6,293.08	6,149.57	143.50	43.853		
12,700.00	7,730.00	8,117.70	7,985.84	129.63	33.20	94.31	-6,056.92	2,375.14	6,209.89	6,066.16	143.73	43.206		
12,800.00	7,730.00	8,115.09	7,983.23	129.60	33.19	94.27	-6,057.01	2,375.08	6,127.20	5,983.25	143.96	42.563		
12,900.00	7,730.00	8,112.48	7,980.63	129.59	33.19	94.23	-6,057.10	2,375.02	6,045.04	5,900.85	144.19	41.923		
13,000.00	7,730.00	8,109.88	7,978.03	129.59	33.18	94.18	-6,057.19	2,374.95	5,963.42	5,818.98	144.43	41.288		
13,100.00	7,730.00	8,107.28	7,975.44	129.60	33.17	94.14	-6,057.28	2,374.89	5,882.36	5,737.68	144.68	40.657		
13,200.00	7,730.00	8,104.69	7,972.85	129.63	33.16	94.10	-6,057.37	2,374.82	5,801.90	5,656.96	144.94	40.030		
13,300.00	7,730.00	8,102.10	7,970.26	129.66	33.15	94.05	-6,057.46	2,374.76	5,722.04	5,576.84	145.20	39.407		
13,400.00	7,730.00	8,099.51	7,967.68	129.72	33.15	94.01	-6,057.55	2,374.69	5,642.83	5,497.36	145.47	38.790		
13,500.00	7,730.00	8,096.93	7,965.10	129.78	33.14	93.97	-6,057.64	2,374.62	5,564.29	5,418.54	145.75	38.177		
13,600.00	7,730.00	8,094.36	7,962.52	129.86	33.13	93.93	-6,057.73	2,374.55	5,486.45	5,340.42	146.03	37.570		
13,700.00	7,730.00	8,091.78	7,959.95	129.96	33.12	93.88	-6,057.81	2,374.49	5,409.33	5,263.01	146.32	36.969		
13,800.00	7,730.00	8,089.21	7,957.38	130.07	33.12	93.84	-6,057.90	2,374.42	5,332.97	5,186.35	146.62	36.373		
13,900.00	7,730.00	8,086.65	7,954.82	130.19	33.11	93.80	-6,057.99	2,374.35	5,257.40	5,110.48	146.92	35.783		
14,000.00	7,730.00	8,084.09	7,952.26	130.33	33.10	93.76	-6,058.08	2,374.28	5,182.66	5,035.42	147.24	35.200		
14,100.00	7,730.00	8,081.53	7,949.71	130.49	33.09	93.72	-6,058.16	2,374.21	5,108.78	4,961.22	147.55	34.623		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	8,078.98	7,947.16	130.67	33.09	93.67	-6,058.25	2,374.13	5,035.80	4,887.92	147.88	34.054		
14,300.00	7,730.00	8,076.43	7,944.61	130.86	33.08	93.63	-6,058.34	2,374.06	4,963.75	4,815.55	148.21	33.492		
14,400.00	7,730.00	8,073.88	7,942.07	131.07	33.07	93.59	-6,058.43	2,373.99	4,892.70	4,744.15	148.55	32.937		
14,500.00	7,730.00	8,071.34	7,939.53	131.30	33.07	93.55	-6,058.51	2,373.92	4,822.66	4,673.77	148.89	32.391		
14,600.00	7,730.00	8,068.81	7,937.00	131.55	33.06	93.51	-6,058.60	2,373.84	4,753.70	4,604.46	149.24	31.853		
14,700.00	7,730.00	8,066.27	7,934.47	131.82	33.05	93.46	-6,058.68	2,373.77	4,685.85	4,536.26	149.59	31.324		
14,800.00	7,730.00	8,061.00	7,929.20	132.11	33.03	93.38	-6,058.86	2,373.61	4,619.17	4,469.24	149.93	30.809		
14,900.00	7,730.00	8,061.00	7,929.20	132.42	33.03	93.38	-6,058.86	2,373.61	4,553.71	4,403.40	150.31	30.295		
15,000.00	7,730.00	8,061.00	7,929.20	132.75	33.03	93.38	-6,058.86	2,373.61	4,489.52	4,338.83	150.69	29.793		
15,100.00	7,730.00	8,055.91	7,924.11	133.10	33.02	93.29	-6,059.04	2,373.46	4,426.65	4,275.61	151.04	29.308		
15,200.00	7,730.00	8,053.27	7,921.48	133.48	33.01	93.25	-6,059.12	2,373.37	4,365.17	4,213.76	151.41	28.830		
15,300.00	7,730.00	8,050.65	7,918.86	133.88	33.00	93.21	-6,059.21	2,373.29	4,305.13	4,153.36	151.78	28.365		
15,400.00	7,730.00	8,048.05	7,916.26	134.31	33.00	93.16	-6,059.30	2,373.21	4,246.60	4,094.45	152.15	27.911		
15,500.00	7,730.00	8,045.47	7,913.68	134.76	32.99	93.12	-6,059.39	2,373.13	4,189.63	4,037.12	152.51	27.471		
15,600.00	7,730.00	8,042.90	7,911.11	135.23	32.98	93.08	-6,059.47	2,373.05	4,134.30	3,981.43	152.87	27.044		
15,700.00	7,730.00	8,040.34	7,908.56	135.73	32.97	93.04	-6,059.56	2,372.96	4,080.66	3,927.43	153.23	26.631		
15,800.00	7,730.00	8,037.81	7,906.03	136.26	32.97	92.99	-6,059.64	2,372.88	4,028.79	3,875.21	153.58	26.232		
15,900.00	7,730.00	8,035.29	7,903.51	136.81	32.96	92.95	-6,059.72	2,372.80	3,978.76	3,824.83	153.93	25.848		
16,000.00	7,730.00	8,032.78	7,901.01	137.39	32.95	92.91	-6,059.80	2,372.72	3,930.63	3,776.37	154.26	25.480		
16,100.00	7,730.00	8,030.29	7,898.53	138.00	32.94	92.87	-6,059.89	2,372.63	3,884.48	3,729.90	154.58	25.129		
16,200.00	7,730.00	8,027.82	7,896.06	138.63	32.94	92.83	-6,059.97	2,372.55	3,840.37	3,685.48	154.89	24.794		
16,300.00	7,730.00	8,025.37	7,893.60	139.30	32.93	92.79	-6,060.05	2,372.47	3,798.39	3,643.21	155.18	24.477		
16,400.00	7,730.00	8,022.92	7,891.16	139.99	32.92	92.75	-6,060.12	2,372.38	3,758.59	3,603.14	155.46	24.178		
16,500.00	7,730.00	8,020.50	7,888.74	140.70	32.91	92.71	-6,060.20	2,372.30	3,721.06	3,565.35	155.71	23.897		
16,600.00	7,730.00	8,018.09	7,886.33	141.45	32.91	92.67	-6,060.28	2,372.21	3,685.85	3,529.91	155.94	23.636		
16,700.00	7,730.00	8,015.69	7,883.94	142.22	32.90	92.63	-6,060.36	2,372.13	3,653.05	3,496.90	156.15	23.395		
16,800.00	7,730.00	8,013.31	7,881.56	143.03	32.89	92.59	-6,060.43	2,372.05	3,622.70	3,466.37	156.33	23.174		
16,900.00	7,730.00	8,010.94	7,879.20	143.86	32.89	92.55	-6,060.51	2,371.96	3,594.88	3,438.40	156.48	22.974		
17,000.00	7,730.00	8,008.59	7,876.85	144.71	32.88	92.51	-6,060.58	2,371.88	3,569.64	3,413.04	156.59	22.795		
17,100.00	7,730.00	8,006.25	7,874.51	145.60	32.87	92.47	-6,060.66	2,371.79	3,547.04	3,390.36	156.68	22.639		
17,200.00	7,730.00	8,003.93	7,872.19	146.51	32.86	92.43	-6,060.73	2,371.71	3,527.13	3,370.39	156.73	22.504		
17,300.00	7,730.00	8,001.62	7,869.89	147.44	32.86	92.40	-6,060.80	2,371.62	3,509.95	3,353.20	156.75	22.392		
17,400.00	7,730.00	7,999.33	7,867.59	148.40	32.85	92.36	-6,060.88	2,371.54	3,495.55	3,338.82	156.73	22.303		
17,500.00	7,730.00	7,997.05	7,865.32	149.39	32.84	92.32	-6,060.95	2,371.45	3,483.96	3,327.29	156.67	22.237		
17,600.00	7,730.00	7,994.78	7,863.05	150.40	32.84	92.28	-6,061.02	2,371.37	3,475.21	3,318.63	156.58	22.195		
17,700.00	7,730.00	7,992.53	7,860.80	151.44	32.83	92.25	-6,061.09	2,371.28	3,469.31	3,312.87	156.45	22.176 SF		
17,800.00	7,730.00	7,990.29	7,858.56	152.50	32.82	92.21	-6,061.16	2,371.20	3,466.29	3,310.02	156.28	22.181		
17,854.77	7,730.00	7,989.06	7,857.34	153.08	32.82	92.19	-6,061.19	2,371.15	3,465.86	3,309.69	156.17	22.193 CC, ES		
17,900.00	7,730.00	7,988.06	7,856.34	153.58	32.82	92.17	-6,061.23	2,371.11	3,466.16	3,310.09	156.07	22.209		
18,000.00	7,730.00	7,985.85	7,854.13	154.68	32.81	92.14	-6,061.29	2,371.03	3,468.90	3,313.07	155.83	22.261		
18,100.00	7,730.00	7,983.65	7,851.93	155.80	32.80	92.10	-6,061.36	2,370.94	3,474.52	3,318.97	155.55	22.337		
18,200.00	7,730.00	7,981.46	7,849.75	156.95	32.80	92.06	-6,061.43	2,370.86	3,483.00	3,327.76	155.24	22.437		
18,300.00	7,730.00	7,979.29	7,847.58	158.11	32.79	92.03	-6,061.49	2,370.77	3,494.32	3,339.43	154.90	22.559		
18,400.00	7,730.00	7,977.12	7,845.42	159.30	32.78	91.99	-6,061.56	2,370.69	3,508.46	3,353.93	154.53	22.705		
18,500.00	7,730.00	7,974.98	7,843.27	160.50	32.78	91.96	-6,061.63	2,370.60	3,525.37	3,371.24	154.13	22.873		
18,600.00	7,730.00	7,972.80	7,841.10	161.72	32.75	91.82	-6,061.67	2,370.50	3,545.03	3,391.38	153.65	23.072		
18,700.00	7,730.00	7,970.60	7,838.90	162.96	32.75	91.82	-6,061.67	2,370.50	3,567.37	3,414.14	153.23	23.281		
18,800.00	7,730.00	7,968.41	7,836.72	164.21	32.75	91.82	-6,061.67	2,370.50	3,592.36	3,439.57	152.79	23.512		
18,900.00	7,730.00	7,966.21	7,834.52	165.48	32.75	91.81	-6,061.68	2,370.46	3,619.94	3,467.61	152.33	23.764		
19,000.00	7,730.00	7,964.00	7,832.30	166.76	32.74	91.77	-6,061.69	2,370.40	3,650.05	3,498.21	151.84	24.039		
19,100.00	7,730.00	7,961.79	7,829.99	168.06	32.74	91.73	-6,061.70	2,370.35	3,682.63	3,531.29	151.33	24.335		
19,200.00	7,730.00	7,959.55	7,827.73	169.38	32.73	91.69	-6,061.70	2,369.95	3,717.61	3,566.79	150.82	24.649		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,956.65	7,824.97	170.70	32.72	91.65	-6,062.17	2,369.86	3,754.93	3,604.62	150.31	24.982	
19,400.00	7,730.00	7,954.27	7,822.60	172.04	32.72	91.61	-6,062.24	2,369.76	3,794.51	3,644.72	149.79	25.333	
19,500.00	7,730.00	7,951.92	7,820.25	173.40	32.71	91.57	-6,062.31	2,369.66	3,836.29	3,687.03	149.27	25.701	
19,600.00	7,730.00	7,949.59	7,817.92	174.76	32.70	91.54	-6,062.38	2,369.56	3,880.20	3,731.45	148.75	26.086	
19,700.00	7,730.00	7,947.28	7,815.62	176.14	32.69	91.50	-6,062.44	2,369.47	3,926.16	3,777.93	148.23	26.486	
19,800.00	7,730.00	7,945.00	7,813.34	177.52	32.69	91.46	-6,062.51	2,369.37	3,974.11	3,826.38	147.73	26.902	
19,900.00	7,730.00	7,942.74	7,811.08	178.92	32.68	91.42	-6,062.57	2,369.28	4,023.97	3,876.75	147.22	27.333	
20,000.00	7,730.00	7,940.50	7,808.84	180.33	32.67	91.39	-6,062.64	2,369.18	4,075.67	3,928.94	146.73	27.777	
20,100.00	7,730.00	7,938.29	7,806.63	181.75	32.67	91.35	-6,062.70	2,369.09	4,129.14	3,982.90	146.24	28.235	
20,184.95	7,730.00	7,936.42	7,804.77	182.96	32.66	91.32	-6,062.75	2,369.01	4,175.91	4,030.08	145.84	28.634	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	149.44	-5,441.90	3,212.61	6,319.46					
100.00	100.00	60.56	60.56	0.13	0.09	149.45	-5,442.05	3,212.52	6,319.53	6,319.31	0.22	N/A		
200.00	199.98	165.00	164.99	0.49	0.44	79.02	-5,442.22	3,211.46	6,319.14	6,318.22	0.93	6,818.294		
300.00	299.84	224.55	224.53	0.86	0.65	79.07	-5,443.62	3,210.64	6,318.46	6,316.96	1.50	4,206.999		
400.00	399.45	255.00	254.98	1.23	0.76	79.10	-5,443.76	3,210.43	6,318.14	6,316.15	1.99	3,179.329		
453.46	452.56	284.01	283.98	1.44	0.86	79.13	-5,444.45	3,210.37	6,318.07	6,315.77	2.30	2,746.946		
500.00	498.70	301.06	301.03	1.63	0.92	79.15	-5,444.93	3,210.41	6,318.11	6,315.56	2.55	2,481.394		
600.00	597.47	349.00	348.93	2.05	1.10	79.22	-5,446.61	3,210.78	6,318.48	6,315.34	3.14	2,014.305		
700.00	695.62	384.50	384.40	2.51	1.22	79.27	-5,448.10	3,211.28	6,319.10	6,315.38	3.71	1,701.475		
800.00	793.06	441.00	440.82	3.00	1.43	79.38	-5,450.74	3,212.33	6,319.89	6,315.49	4.40	1,435.917		
900.00	889.64	477.72	477.49	3.53	1.56	79.44	-5,452.70	3,213.17	6,320.90	6,315.84	5.06	1,249.070		
1,000.00	985.27	536.00	535.62	4.12	1.77	79.58	-5,456.40	3,214.68	6,322.29	6,316.45	5.84	1,082.032		
1,100.00	1,079.82	536.00	535.62	4.75	1.77	79.54	-5,456.40	3,214.68	6,324.00	6,317.54	6.47	978.132		
1,200.00	1,173.17	582.17	581.64	5.44	1.95	79.65	-5,459.95	3,216.11	6,326.13	6,318.82	7.31	865.448		
1,300.00	1,265.21	623.00	622.27	6.18	2.10	79.74	-5,463.65	3,217.58	6,328.88	6,320.69	8.19	772.723		
1,400.00	1,355.84	649.96	649.08	6.99	2.21	79.79	-5,466.32	3,218.64	6,332.06	6,322.98	9.08	697.237		
1,500.00	1,444.94	711.00	709.72	7.87	2.44	79.97	-5,472.77	3,221.19	6,335.66	6,325.50	10.16	623.466		
1,600.00	1,532.39	711.00	709.72	8.80	2.44	79.90	-5,472.77	3,221.19	6,339.64	6,328.56	11.08	572.254		
1,700.00	1,618.11	760.74	759.07	9.81	2.64	80.04	-5,478.44	3,223.74	6,344.04	6,331.79	12.25	517.889		
1,800.00	1,701.97	798.00	795.98	10.89	2.79	80.12	-5,482.95	3,226.17	6,349.10	6,335.65	13.44	472.351		
1,900.00	1,783.88	824.15	821.84	12.04	2.90	80.14	-5,486.24	3,228.06	6,354.69	6,340.03	14.66	433.441		
2,000.00	1,863.74	857.78	855.09	13.26	3.04	80.20	-5,490.68	3,230.61	6,360.83	6,344.85	15.98	398.068		
2,100.00	1,941.45	885.00	881.96	14.55	3.16	80.22	-5,494.42	3,232.77	6,367.53	6,350.19	17.34	367.175		
2,200.00	2,016.92	914.42	910.98	15.92	3.28	80.24	-5,498.64	3,235.25	6,374.86	6,356.07	18.79	339.340		
2,292.11	2,084.36	936.96	933.16	17.25	3.38	80.23	-5,502.00	3,237.31	6,382.21	6,362.05	20.16	316.608		
2,300.00	2,090.06	938.87	935.04	17.36	3.39	80.25	-5,502.29	3,237.49	6,382.87	6,362.59	20.28	314.773		
2,400.00	2,162.18	973.00	968.58	18.84	3.54	80.45	-5,507.63	3,240.87	6,391.93	6,370.08	21.84	292.620		
2,500.00	2,234.31	1,010.71	1,005.60	20.33	3.71	80.68	-5,513.70	3,244.76	6,402.13	6,378.69	23.43	273.209		
2,600.00	2,306.43	1,060.00	1,053.97	21.83	3.93	80.98	-5,521.71	3,249.81	6,413.22	6,388.14	25.08	255.730		
2,700.00	2,378.56	1,109.27	1,102.28	23.33	4.16	81.27	-5,529.90	3,254.89	6,425.28	6,398.56	26.73	240.403		
2,800.00	2,450.68	1,193.85	1,185.17	24.84	4.55	81.78	-5,544.23	3,263.77	6,438.30	6,409.76	28.54	225.601		
2,900.00	2,522.81	1,357.30	1,345.66	26.36	5.32	82.76	-5,570.26	3,280.48	6,451.07	6,420.35	30.71	210.036		
3,000.00	2,594.93	1,395.79	1,383.48	27.88	5.50	82.99	-5,576.34	3,284.22	6,464.44	6,432.11	32.33	199.973		
3,100.00	2,667.06	1,440.75	1,427.62	29.40	5.71	83.26	-5,583.73	3,288.53	6,478.87	6,444.91	33.97	190.744		
3,200.00	2,739.18	1,497.15	1,482.97	30.92	5.98	83.60	-5,593.18	3,293.90	6,494.22	6,458.57	35.66	182.127		
3,300.00	2,811.31	1,538.34	1,523.36	32.45	6.18	83.85	-5,600.22	3,297.82	6,510.51	6,473.23	37.27	174.666		
3,400.00	2,883.43	1,575.82	1,560.07	33.98	6.36	84.08	-5,606.83	3,301.44	6,527.86	6,488.99	38.87	167.954		
3,500.00	2,955.56	1,616.78	1,600.16	35.51	6.56	84.32	-5,614.27	3,305.43	6,546.27	6,505.80	40.47	161.751		
3,600.00	3,027.68	1,661.25	1,643.64	37.04	6.78	84.59	-5,622.56	3,309.69	6,565.67	6,523.58	42.09	156.003		
3,700.00	3,099.81	1,718.57	1,699.65	38.57	7.07	84.93	-5,633.48	3,315.13	6,586.00	6,542.24	43.76	150.494		
3,800.00	3,171.93	1,830.17	1,808.69	40.11	7.62	85.60	-5,654.55	3,326.12	6,607.00	6,561.29	45.72	144.521		
3,900.00	3,244.06	2,149.05	2,121.57	41.64	9.17	87.46	-5,707.08	3,357.87	6,626.80	6,578.08	48.72	136.009		
4,000.00	3,316.18	2,189.23	2,161.11	43.18	9.35	87.70	-5,713.09	3,361.76	6,646.15	6,595.83	50.32	132.087		
4,100.00	3,388.31	2,231.54	2,202.72	44.71	9.56	87.94	-5,719.68	3,365.67	6,666.50	6,614.58	51.91	128.419		
4,200.00	3,460.43	2,275.67	2,246.08	46.25	9.77	88.20	-5,726.73	3,369.80	6,687.80	6,634.29	53.51	124.987		
4,300.00	3,532.56	2,322.61	2,292.17	47.79	9.99	88.47	-5,734.41	3,374.30	6,710.03	6,654.92	55.11	121.754		
4,400.00	3,604.68	4,400.00	2,398.46	49.33	20.02	89.09	-5,752.07	3,385.31	6,732.97	6,668.19	64.78	103.940		
4,500.00	3,676.81	2,517.42	2,483.46	50.87	10.93	89.58	-5,765.56	3,394.06	6,755.90	6,697.06	58.84	114.818		
4,600.00	3,748.93	2,555.00	2,520.36	52.41	11.11	89.80	-5,771.60	3,397.77	6,779.76	6,719.38	60.37	112.296		
4,700.00	3,821.06	2,555.00	2,520.36	53.95	11.11	89.80	-5,771.60	3,397.77	6,804.79	6,743.10	61.69	110.311		
4,800.00	3,893.18	2,599.28	2,563.76	55.49	11.33	90.05	-5,779.16	3,402.12	6,830.73	6,767.50	63.23	108.023		
4,900.00	3,965.31	2,643.00	2,606.51	57.03	11.55	90.30	-5,787.26	3,406.46	6,858.01	6,793.24	64.77	105.888		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	5,000.00	2,654.31	58.58	23.48	90.57	-5,796.33	3,411.31	6,886.01	6,810.46	75.55	91.145		
5,100.00	4,109.56	2,856.13	2,815.10	60.12	12.62	91.49	-5,825.24	3,428.10	6,913.70	6,845.16	68.54	100.865		
5,200.00	4,181.68	2,905.00	2,862.94	61.66	12.86	91.76	-5,833.67	3,433.45	6,942.01	6,871.92	70.09	99.046		
5,300.00	4,253.81	2,956.59	2,913.41	63.20	13.12	92.05	-5,842.73	3,439.17	6,971.10	6,899.46	71.64	97.307		
5,400.00	4,325.93	3,014.86	2,970.38	64.75	13.42	92.37	-5,853.20	3,445.53	7,000.99	6,927.77	73.22	95.614		
5,500.00	4,398.06	3,122.31	3,075.60	66.29	13.95	92.96	-5,872.56	3,455.45	7,031.35	6,956.27	75.09	93.643		
5,600.00	4,470.18	3,215.69	3,167.18	67.84	14.41	93.48	-5,888.89	3,463.62	7,061.79	6,984.93	76.86	91.882		
5,700.00	4,542.31	3,295.44	3,245.36	69.38	14.80	93.92	-5,902.77	3,471.00	7,092.76	7,014.21	78.54	90.306		
5,800.00	4,614.43	3,370.12	3,318.59	70.92	15.17	94.33	-5,915.62	3,477.97	7,124.11	7,043.92	80.19	88.845		
5,900.00	4,686.56	3,428.00	3,375.40	72.47	15.45	94.65	-5,925.76	3,482.54	7,156.13	7,074.42	81.72	87.574		
6,000.00	4,758.68	3,561.19	3,506.09	74.01	16.10	95.36	-5,948.36	3,494.66	7,188.27	7,104.57	83.70	85.877		
6,100.00	4,830.81	3,631.28	3,574.85	75.56	16.45	95.74	-5,960.01	3,501.67	7,220.76	7,135.46	85.30	84.649		
6,200.00	4,902.93	3,828.01	3,768.25	77.10	17.39	96.78	-5,991.30	3,519.49	7,253.24	7,165.58	87.66	82.744		
6,300.00	4,975.06	3,906.68	3,845.79	78.65	17.75	97.20	-6,003.17	3,525.32	7,285.51	7,196.23	89.28	81.600		
6,400.00	5,047.18	3,978.34	3,916.39	80.19	18.09	97.58	-6,013.85	3,531.41	7,318.17	7,227.31	90.86	80.542		
6,500.00	5,119.31	4,028.51	3,965.76	81.74	18.32	97.84	-6,021.43	3,536.13	7,351.49	7,259.18	92.30	79.645		
6,600.00	5,191.43	4,116.63	4,052.43	83.28	18.74	98.29	-6,034.84	3,544.73	7,385.36	7,291.38	93.97	78.590		
6,700.00	5,263.56	4,152.67	4,087.88	84.83	18.91	98.47	-6,040.34	3,548.13	7,419.73	7,324.43	95.31	77.852		
6,800.00	5,335.68	4,180.89	4,115.64	86.37	19.05	98.62	-6,044.82	3,550.55	7,455.01	7,358.44	96.57	77.195		
6,900.00	5,407.81	5,149.31	5,076.76	87.92	22.94	103.68	-6,143.87	3,596.38	7,487.10	7,384.36	102.74	72.871		
7,000.00	5,479.93	5,338.51	5,265.82	89.47	23.55	104.67	-6,150.46	3,598.96	7,514.57	7,409.87	104.69	71.776		
7,100.00	5,552.06	5,447.75	5,375.04	91.01	23.88	105.25	-6,152.94	3,598.62	7,541.60	7,435.31	106.29	70.954		
7,200.00	5,624.18	5,552.71	5,479.97	92.56	24.19	105.81	-6,154.83	3,597.51	7,568.90	7,461.05	107.85	70.183		
7,300.00	5,696.31	5,669.95	5,597.18	94.10	24.51	106.44	-6,156.25	3,595.11	7,596.37	7,486.95	109.41	69.429		
7,400.00	5,768.43	5,941.31	5,868.42	95.65	25.21	107.88	-6,154.43	3,587.73	7,622.69	7,511.29	111.39	68.431		
7,500.00	5,840.56	6,021.00	5,948.07	97.20	25.40	108.30	-6,152.98	3,585.81	7,649.17	7,536.37	112.79	67.816		
7,600.00	5,912.68	6,105.32	6,032.36	98.74	25.62	108.75	-6,151.34	3,583.94	7,676.11	7,561.91	114.20	67.217		
7,700.00	5,984.81	6,192.17	6,119.18	100.29	25.84	109.20	-6,149.51	3,582.29	7,703.45	7,587.86	115.60	66.640		
7,800.00	6,056.93	6,281.01	6,207.98	101.84	26.06	109.66	-6,147.47	3,580.82	7,731.19	7,614.19	116.99	66.083		
7,900.00	6,129.06	6,370.78	6,297.71	103.38	26.29	110.12	-6,145.20	3,579.37	7,759.28	7,640.91	118.38	65.547		
8,000.00	6,201.18	6,439.57	6,366.47	104.93	26.47	110.47	-6,143.37	3,578.33	7,787.81	7,668.11	119.69	65.065		
8,100.00	6,273.31	6,500.41	6,427.28	106.48	26.63	110.78	-6,141.86	3,577.61	7,816.94	7,695.96	120.97	64.617		
8,200.00	6,345.43	6,561.56	6,488.41	108.02	26.79	111.08	-6,140.45	3,577.09	7,846.67	7,724.43	122.24	64.189		
8,300.00	6,417.56	6,643.02	6,569.86	109.57	27.01	111.49	-6,138.65	3,576.78	7,876.93	7,753.36	123.57	63.746		
8,400.00	6,489.68	6,729.13	6,655.94	111.12	27.25	111.91	-6,136.69	3,577.01	7,907.55	7,782.65	124.90	63.312		
8,500.00	6,561.81	6,803.63	6,730.42	112.66	27.45	112.27	-6,134.96	3,577.56	7,938.56	7,812.37	126.18	62.912		
8,600.00	6,633.93	6,875.27	6,802.04	114.21	27.65	112.62	-6,133.32	3,578.17	7,970.04	7,842.59	127.45	62.534		
8,700.00	6,706.06	6,946.85	6,873.59	115.76	27.85	112.96	-6,131.71	3,578.85	8,002.00	7,873.29	128.71	62.172		
8,800.00	6,778.18	7,018.20	6,944.93	117.30	28.06	113.30	-6,130.13	3,579.58	8,034.42	7,904.47	129.95	61.826		
8,900.00	6,850.31	7,089.65	7,016.35	118.85	28.26	113.64	-6,128.57	3,580.37	8,067.31	7,936.12	131.19	61.495		
9,000.00	6,922.43	7,160.44	7,087.13	120.40	28.47	113.98	-6,127.06	3,581.22	8,100.64	7,968.24	132.41	61.180		
9,100.00	6,994.56	7,231.26	7,157.93	121.95	28.67	114.31	-6,125.59	3,582.12	8,134.44	8,000.82	133.62	60.879		
9,200.00	7,066.68	7,300.27	7,226.91	123.49	28.87	114.63	-6,124.18	3,583.01	8,168.68	8,033.88	134.81	60.595		
9,300.00	7,138.81	7,366.59	7,293.21	125.04	29.06	114.94	-6,122.82	3,583.58	8,203.40	8,067.43	135.98	60.330		
9,392.50	7,205.52	7,427.41	7,354.02	126.47	29.24	115.23	-6,121.55	3,583.82	8,235.95	8,098.91	137.04	60.098		
9,400.00	7,210.94	7,432.33	7,358.94	126.59	29.25	114.44	-6,121.45	3,583.82	8,238.56	8,101.43	137.13	60.080		
9,450.00	7,247.42	7,465.20	7,391.81	127.35	29.35	109.06	-6,120.76	3,583.83	8,253.71	8,116.00	137.71	59.934		
9,500.00	7,284.35	7,498.28	7,424.88	128.10	29.44	103.56	-6,120.08	3,583.82	8,264.86	8,126.54	138.32	59.753		
9,550.00	7,321.43	7,531.39	7,457.98	128.83	29.54	98.06	-6,119.42	3,583.79	8,271.93	8,133.00	138.93	59.539		
9,600.00	7,358.38	7,564.28	7,490.86	129.52	29.63	92.70	-6,118.77	3,583.74	8,274.89	8,135.34	139.55	59.295		
9,650.00	7,394.93	7,596.70	7,523.27	130.16	29.72	87.61	-6,118.14	3,583.67	8,273.73	8,133.56	140.17	59.026		
9,700.00	7,430.79	7,629.36	7,555.92	130.76	29.82	82.92	-6,117.51	3,583.60	8,268.45	8,127.67	140.78	58.734		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,663.28	7,589.84	131.30	29.92	78.70	-6,116.88	3,583.54	8,259.08	8,117.71	141.38	58.419		
9,800.00	7,499.38	7,696.01	7,622.57	131.78	30.01	75.02	-6,116.28	3,583.52	8,245.71	8,103.76	141.95	58.090		
9,850.00	7,531.58	7,727.30	7,653.85	132.21	30.10	71.88	-6,115.71	3,583.54	8,228.42	8,085.93	142.49	57.748		
9,900.00	7,562.06	7,756.90	7,683.45	132.57	30.19	69.31	-6,115.19	3,583.59	8,207.34	8,064.35	143.00	57.396		
9,950.00	7,590.58	7,784.57	7,711.11	132.87	30.27	67.31	-6,114.71	3,583.66	8,182.63	8,039.17	143.46	57.037		
10,000.00	7,616.93	7,810.29	7,736.83	133.11	30.35	65.88	-6,114.27	3,583.74	8,154.46	8,010.57	143.89	56.672		
10,050.00	7,640.90	7,833.69	7,760.22	133.29	30.41	65.05	-6,113.87	3,583.82	8,123.03	7,978.76	144.27	56.305		
10,100.00	7,662.32	7,854.47	7,781.01	133.42	30.48	64.84	-6,113.51	3,583.89	8,088.57	7,943.97	144.60	55.936		
10,150.00	7,681.01	7,872.49	7,799.02	133.50	30.53	65.34	-6,113.20	3,583.95	8,051.32	7,906.43	144.90	55.567		
10,200.00	7,696.85	7,887.60	7,814.13	133.52	30.57	66.67	-6,112.94	3,584.01	8,011.55	7,866.41	145.14	55.199		
10,250.00	7,709.70	7,899.69	7,826.22	133.51	30.61	69.03	-6,112.74	3,584.05	7,969.54	7,824.20	145.34	54.833		
10,300.00	7,719.47	7,908.67	7,835.19	133.46	30.64	72.76	-6,112.58	3,584.08	7,925.60	7,780.09	145.50	54.470		
10,350.00	7,726.09	7,914.47	7,840.99	133.37	30.65	78.44	-6,112.48	3,584.10	7,880.03	7,734.40	145.63	54.111		
10,400.00	7,729.50	7,917.04	7,843.56	133.26	30.66	86.99	-6,112.44	3,584.11	7,833.17	7,687.45	145.72	53.756		
10,427.79	7,730.00	7,917.06	7,843.59	133.18	30.66	93.45	-6,112.44	3,584.11	7,806.69	7,660.93	145.75	53.561		
10,500.00	7,730.00	7,915.82	7,842.35	132.98	30.66	93.42	-6,112.46	3,584.10	7,737.58	7,591.75	145.83	53.057		
10,600.00	7,730.00	7,914.11	7,840.64	132.72	30.65	93.37	-6,112.49	3,584.10	7,641.98	7,496.03	145.95	52.360		
10,700.00	7,730.00	7,912.40	7,838.92	132.47	30.65	93.33	-6,112.52	3,584.09	7,546.48	7,400.41	146.07	51.664		
10,800.00	7,730.00	7,910.68	7,837.21	132.22	30.64	93.29	-6,112.55	3,584.08	7,451.11	7,304.92	146.19	50.968		
10,900.00	7,730.00	7,908.97	7,835.50	131.99	30.64	93.24	-6,112.58	3,584.08	7,355.86	7,209.54	146.32	50.273		
11,000.00	7,730.00	7,907.26	7,833.78	131.77	30.63	93.20	-6,112.61	3,584.07	7,260.73	7,114.28	146.45	49.579		
11,100.00	7,730.00	7,905.54	7,832.07	131.56	30.63	93.16	-6,112.64	3,584.07	7,165.74	7,019.16	146.58	48.886		
11,200.00	7,730.00	7,903.83	7,830.36	131.36	30.62	93.11	-6,112.67	3,584.06	7,070.88	6,924.16	146.72	48.194		
11,300.00	7,730.00	7,902.12	7,828.64	131.17	30.62	93.07	-6,112.70	3,584.06	6,976.17	6,829.31	146.86	47.503		
11,400.00	7,730.00	7,900.40	7,826.93	130.99	30.61	93.03	-6,112.72	3,584.05	6,881.60	6,734.60	147.00	46.813		
11,500.00	7,730.00	7,898.69	7,825.22	130.82	30.61	92.98	-6,112.75	3,584.04	6,787.20	6,640.05	147.15	46.124		
11,600.00	7,730.00	7,896.98	7,823.50	130.66	30.60	92.94	-6,112.78	3,584.04	6,692.95	6,545.65	147.30	45.437		
11,700.00	7,730.00	7,895.26	7,821.79	130.51	30.60	92.89	-6,112.81	3,584.03	6,598.87	6,451.41	147.46	44.750		
11,800.00	7,730.00	7,893.55	7,820.08	130.37	30.59	92.85	-6,112.84	3,584.03	6,504.97	6,357.35	147.62	44.065		
11,900.00	7,730.00	7,891.84	7,818.36	130.24	30.59	92.81	-6,112.87	3,584.02	6,411.26	6,263.47	147.79	43.381		
12,000.00	7,730.00	7,890.12	7,816.65	130.13	30.58	92.76	-6,112.90	3,584.01	6,317.73	6,169.77	147.96	42.699		
12,100.00	7,730.00	7,888.41	7,814.94	130.02	30.58	92.72	-6,112.93	3,584.01	6,224.41	6,076.27	148.14	42.018		
12,200.00	7,730.00	7,886.69	7,813.22	129.93	30.57	92.68	-6,112.96	3,584.00	6,131.29	5,982.98	148.32	41.339		
12,300.00	7,730.00	7,884.98	7,811.51	129.85	30.57	92.63	-6,112.99	3,584.00	6,038.40	5,889.90	148.51	40.661		
12,400.00	7,730.00	7,883.27	7,809.80	129.77	30.56	92.59	-6,113.02	3,583.99	5,945.74	5,797.04	148.70	39.985		
12,500.00	7,730.00	7,881.55	7,808.08	129.71	30.56	92.55	-6,113.05	3,583.99	5,853.31	5,704.42	148.90	39.312		
12,600.00	7,730.00	7,879.84	7,806.37	129.66	30.55	92.50	-6,113.08	3,583.98	5,761.14	5,612.04	149.10	38.640		
12,700.00	7,730.00	7,878.12	7,804.65	129.63	30.55	92.46	-6,113.11	3,583.97	5,669.24	5,519.93	149.31	37.970		
12,800.00	7,730.00	7,876.41	7,802.94	129.60	30.54	92.42	-6,113.14	3,583.97	5,577.61	5,428.09	149.53	37.302		
12,900.00	7,730.00	7,874.70	7,801.23	129.59	30.54	92.37	-6,113.16	3,583.96	5,486.27	5,336.53	149.75	36.637		
13,000.00	7,730.00	7,872.98	7,799.51	129.59	30.53	92.33	-6,113.19	3,583.96	5,395.25	5,245.27	149.98	35.974		
13,100.00	7,730.00	7,871.27	7,797.80	129.60	30.53	92.29	-6,113.22	3,583.95	5,304.54	5,154.33	150.21	35.314		
13,200.00	7,730.00	7,869.55	7,796.09	129.63	30.52	92.24	-6,113.25	3,583.94	5,214.17	5,063.72	150.46	34.656		
13,300.00	7,730.00	7,867.84	7,794.37	129.66	30.52	92.20	-6,113.28	3,583.94	5,124.16	4,973.46	150.71	34.001		
13,400.00	7,730.00	7,866.13	7,792.66	129.72	30.51	92.15	-6,113.31	3,583.93	5,034.53	4,883.57	150.96	33.350		
13,500.00	7,730.00	7,864.41	7,790.94	129.78	30.51	92.11	-6,113.34	3,583.93	4,945.29	4,794.07	151.23	32.701		
13,600.00	7,730.00	7,862.70	7,789.23	129.86	30.50	92.07	-6,113.37	3,583.92	4,856.48	4,704.98	151.50	32.056		
13,700.00	7,730.00	7,860.98	7,787.52	129.96	30.50	92.02	-6,113.40	3,583.92	4,768.10	4,616.32	151.78	31.415		
13,800.00	7,730.00	7,859.27	7,785.80	130.07	30.49	91.98	-6,113.43	3,583.91	4,680.19	4,528.13	152.07	30.777		
13,900.00	7,730.00	7,857.55	7,784.09	130.19	30.49	91.94	-6,113.46	3,583.90	4,592.78	4,440.42	152.36	30.143		
14,000.00	7,730.00	7,855.84	7,782.37	130.33	30.48	91.89	-6,113.49	3,583.90	4,505.89	4,353.22	152.67	29.514		
14,100.00	7,730.00	7,854.13	7,780.66	130.49	30.48	91.85	-6,113.52	3,583.89	4,419.55	4,266.57	152.98	28.890		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,852.41	7,778.94	130.67	30.47	91.81	-6,113.55	3,583.89	4,333.80	4,180.50	153.30	28.270		
14,300.00	7,730.00	7,850.70	7,777.23	130.86	30.47	91.76	-6,113.58	3,583.88	4,248.67	4,095.05	153.63	27.655		
14,400.00	7,730.00	7,848.98	7,775.52	131.07	30.46	91.72	-6,113.61	3,583.87	4,164.21	4,010.24	153.97	27.046		
14,500.00	7,730.00	7,847.27	7,773.80	131.30	30.45	91.67	-6,113.63	3,583.87	4,080.44	3,926.13	154.31	26.443		
14,600.00	7,730.00	7,845.55	7,772.09	131.55	30.45	91.63	-6,113.66	3,583.86	3,997.42	3,842.76	154.66	25.846		
14,700.00	7,730.00	7,843.84	7,770.37	131.82	30.44	91.59	-6,113.69	3,583.86	3,915.19	3,760.17	155.02	25.256		
14,800.00	7,730.00	7,842.12	7,768.66	132.11	30.44	91.54	-6,113.72	3,583.85	3,833.81	3,678.42	155.39	24.672		
14,900.00	7,730.00	7,840.41	7,766.94	132.42	30.43	91.50	-6,113.75	3,583.85	3,753.33	3,597.57	155.76	24.097		
15,000.00	7,730.00	7,838.69	7,765.23	132.75	30.43	91.46	-6,113.78	3,583.84	3,673.80	3,517.66	156.14	23.529		
15,100.00	7,730.00	7,836.98	7,763.51	133.10	30.42	91.41	-6,113.81	3,583.83	3,595.30	3,438.77	156.52	22.970		
15,200.00	7,730.00	7,835.26	7,761.80	133.48	30.42	91.37	-6,113.84	3,583.83	3,517.88	3,360.97	156.91	22.420		
15,300.00	7,730.00	7,833.55	7,760.09	133.88	30.41	91.33	-6,113.87	3,583.82	3,441.63	3,284.33	157.30	21.880		
15,400.00	7,730.00	7,831.83	7,758.37	134.31	30.41	91.28	-6,113.90	3,583.82	3,366.63	3,208.94	157.69	21.350		
15,500.00	7,730.00	7,830.12	7,756.66	134.76	30.40	91.24	-6,113.93	3,583.81	3,292.95	3,134.87	158.08	20.831		
15,600.00	7,730.00	7,828.40	7,754.94	135.23	30.40	91.19	-6,113.96	3,583.81	3,220.68	3,062.22	158.46	20.325		
15,700.00	7,730.00	7,826.69	7,753.23	135.73	30.39	91.15	-6,113.99	3,583.80	3,149.94	2,991.10	158.84	19.831		
15,800.00	7,730.00	7,824.97	7,751.51	136.26	30.39	91.11	-6,114.02	3,583.79	3,080.81	2,921.61	159.21	19.351		
15,900.00	7,730.00	7,823.26	7,749.80	136.81	30.38	91.06	-6,114.05	3,583.79	3,013.42	2,853.86	159.56	18.886		
16,000.00	7,730.00	7,821.54	7,748.08	137.39	30.38	91.02	-6,114.07	3,583.78	2,947.88	2,787.98	159.90	18.436		
16,100.00	7,730.00	7,819.83	7,746.37	138.00	30.37	90.98	-6,114.10	3,583.78	2,884.32	2,724.10	160.21	18.003		
16,200.00	7,730.00	7,818.11	7,744.65	138.63	30.37	90.93	-6,114.13	3,583.77	2,822.87	2,662.36	160.50	17.587		
16,300.00	7,730.00	7,816.40	7,742.94	139.30	30.36	90.89	-6,114.16	3,583.76	2,763.67	2,602.90	160.76	17.191		
16,400.00	7,730.00	7,816.07	7,742.61	139.99	30.36	90.88	-6,114.17	3,583.77	2,706.86	2,545.87	160.99	16.813		
16,500.00	7,730.00	7,814.27	7,740.81	140.70	30.36	90.84	-6,114.20	3,583.77	2,652.61	2,491.45	161.17	16.459		
16,600.00	7,730.00	7,812.46	7,739.00	141.45	30.35	90.79	-6,114.23	3,583.76	2,601.08	2,439.79	161.29	16.127		
16,700.00	7,730.00	7,810.66	7,737.20	142.22	30.35	90.74	-6,114.26	3,583.75	2,552.42	2,391.08	161.34	15.820		
16,800.00	7,730.00	7,808.84	7,735.38	143.03	30.34	90.70	-6,114.29	3,583.74	2,506.81	2,345.48	161.34	15.538		
16,900.00	7,730.00	7,807.02	7,733.57	143.86	30.34	90.65	-6,114.32	3,583.74	2,464.42	2,303.17	161.25	15.283		
17,000.00	7,730.00	7,805.20	7,731.74	144.71	30.33	90.60	-6,114.36	3,583.73	2,425.41	2,264.32	161.08	15.057		
17,100.00	7,730.00	7,803.38	7,729.92	145.60	30.32	90.56	-6,114.39	3,583.72	2,389.94	2,229.12	160.83	14.860		
17,200.00	7,730.00	7,801.55	7,728.09	146.51	30.32	90.51	-6,114.42	3,583.72	2,358.19	2,197.71	160.48	14.695		
17,300.00	7,730.00	7,799.71	7,726.25	147.44	30.31	90.46	-6,114.45	3,583.71	2,330.29	2,170.27	160.02	14.562		
17,400.00	7,730.00	7,797.87	7,724.42	148.40	30.31	90.42	-6,114.48	3,583.70	2,306.40	2,146.93	159.47	14.463		
17,500.00	7,730.00	7,796.03	7,722.57	149.39	30.30	90.37	-6,114.51	3,583.70	2,286.63	2,127.82	158.81	14.399		
17,600.00	7,730.00	7,794.18	7,720.73	150.40	30.30	90.32	-6,114.54	3,583.69	2,271.10	2,113.05	158.04	14.370 SF		
17,700.00	7,730.00	7,792.33	7,718.88	151.44	30.29	90.28	-6,114.58	3,583.68	2,259.88	2,102.70	157.18	14.378		
17,800.00	7,730.00	7,790.48	7,717.02	152.50	30.29	90.23	-6,114.61	3,583.68	2,253.06	2,096.83	156.22	14.422		
17,900.00	7,730.00	7,788.62	7,715.16	153.58	30.28	90.18	-6,114.64	3,583.67	2,250.65	2,095.47	155.18	14.504 ES		
17,904.12	7,730.00	7,788.54	7,715.08	153.62	30.28	90.18	-6,114.64	3,583.67	2,250.65	2,095.52	155.13	14.508 CC		
18,000.00	7,730.00	7,786.75	7,713.30	154.68	30.28	90.13	-6,114.67	3,583.67	2,252.69	2,098.63	154.06	14.622		
18,100.00	7,730.00	7,784.88	7,711.43	155.80	30.27	90.09	-6,114.70	3,583.66	2,259.16	2,106.28	152.88	14.778		
18,200.00	7,730.00	7,783.01	7,709.55	156.95	30.27	90.04	-6,114.74	3,583.65	2,270.01	2,118.37	151.64	14.970		
18,300.00	7,730.00	7,781.13	7,707.68	158.11	30.26	89.99	-6,114.77	3,583.65	2,285.19	2,134.82	150.37	15.197		
18,400.00	7,730.00	7,779.25	7,705.80	159.30	30.25	89.94	-6,114.80	3,583.64	2,304.61	2,155.54	149.08	15.459		
18,500.00	7,730.00	7,777.36	7,703.91	160.50	30.25	89.90	-6,114.83	3,583.64	2,328.17	2,180.39	147.78	15.754		
18,600.00	7,730.00	7,775.47	7,702.02	161.72	30.24	89.85	-6,114.87	3,583.63	2,355.74	2,209.26	146.49	16.082		
18,700.00	7,730.00	7,773.58	7,700.12	162.96	30.24	89.80	-6,114.90	3,583.63	2,387.18	2,241.97	145.21	16.439		
18,800.00	7,730.00	7,771.68	7,698.22	164.21	30.23	89.75	-6,114.93	3,583.62	2,422.35	2,278.38	143.97	16.825		
18,900.00	7,730.00	7,769.77	7,696.32	165.48	30.23	89.70	-6,114.96	3,583.62	2,461.07	2,318.30	142.77	17.238		
19,000.00	7,730.00	7,767.87	7,694.41	166.76	30.22	89.65	-6,115.00	3,583.61	2,503.20	2,361.58	141.62	17.675		
19,100.00	7,730.00	7,765.95	7,692.50	168.06	30.22	89.61	-6,115.03	3,583.61	2,548.55	2,408.02	140.52	18.136		
19,200.00	7,730.00	7,764.04	7,690.58	169.38	30.21	89.56	-6,115.06	3,583.60	2,596.96	2,457.47	139.49	18.618		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,762.11	7,688.66	170.70	30.20	89.51	-6,115.10	3,583.60	2,648.26	2,509.75	138.51	19.119	
19,400.00	7,730.00	7,760.19	7,686.73	172.04	30.20	89.46	-6,115.13	3,583.59	2,702.29	2,564.68	137.61	19.638	
19,500.00	7,730.00	7,758.25	7,684.80	173.40	30.19	89.41	-6,115.17	3,583.59	2,758.88	2,622.12	136.76	20.173	
19,600.00	7,730.00	7,756.32	7,682.87	174.76	30.19	89.36	-6,115.20	3,583.59	2,817.89	2,681.90	135.98	20.722	
19,700.00	7,730.00	7,754.38	7,680.93	176.14	30.18	89.31	-6,115.23	3,583.58	2,879.16	2,743.89	135.27	21.285	
19,800.00	7,730.00	7,752.43	7,678.98	177.52	30.18	89.26	-6,115.27	3,583.58	2,942.55	2,807.94	134.62	21.859	
19,900.00	7,730.00	7,750.48	7,677.03	178.92	30.17	89.21	-6,115.30	3,583.57	3,007.93	2,873.91	134.02	22.444	
20,000.00	7,730.00	7,748.53	7,675.08	180.33	30.16	89.16	-6,115.34	3,583.57	3,075.18	2,941.69	133.48	23.038	
20,100.00	7,730.00	7,746.57	7,673.12	181.75	30.16	89.11	-6,115.37	3,583.57	3,144.16	3,011.16	133.00	23.641	
20,184.95	7,730.00	7,744.90	7,671.45	182.96	30.15	89.07	-6,115.40	3,583.56	3,204.05	3,071.43	132.62	24.159	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.17	-5,369.91	1,726.87	5,640.77					
100.00	100.00	67.26	67.26	0.13	0.11	162.17	-5,370.05	1,726.82	5,640.89	5,640.65	0.24	N/A		
200.00	199.98	175.27	175.27	0.49	0.42	91.74	-5,370.50	1,726.68	5,641.32	5,640.40	0.91	6,166.085		
300.00	299.84	315.85	315.85	0.86	0.91	91.81	-5,370.27	1,726.57	5,641.29	5,639.52	1.76	3,197.625		
400.00	399.45	421.80	421.80	1.23	1.28	91.91	-5,369.61	1,726.57	5,640.98	5,638.47	2.51	2,249.502		
500.00	498.70	575.76	575.75	1.63	1.82	92.10	-5,367.95	1,727.17	5,640.61	5,637.16	3.45	1,636.386		
600.00	597.47	669.16	669.12	2.05	2.15	92.26	-5,366.04	1,727.89	5,639.48	5,635.28	4.20	1,342.174		
700.00	695.62	753.32	753.27	2.51	2.45	92.42	-5,364.62	1,728.59	5,638.89	5,633.93	4.96	1,137.639		
800.00	793.06	842.69	842.62	3.00	2.77	92.62	-5,363.26	1,729.36	5,638.67	5,632.90	5.77	977.582		
805.33	798.22	847.37	847.31	3.03	2.79	92.63	-5,363.19	1,729.40	5,638.67	5,632.85	5.81	969.983		
900.00	889.64	920.04	919.96	3.53	3.04	92.81	-5,362.17	1,730.21	5,638.89	5,632.31	6.58	857.132		
1,000.00	985.27	977.37	977.28	4.12	3.25	92.95	-5,361.67	1,731.00	5,639.96	5,632.59	7.36	765.837		
1,100.00	1,079.82	1,048.15	1,048.05	4.75	3.50	93.13	-5,361.44	1,732.20	5,641.94	5,633.69	8.25	684.038		
1,200.00	1,173.17	1,137.70	1,137.58	5.44	3.82	93.39	-5,361.31	1,733.99	5,644.55	5,635.30	9.25	610.055		
1,300.00	1,265.21	1,246.50	1,246.37	6.18	4.20	93.75	-5,361.16	1,735.51	5,647.46	5,637.07	10.38	543.845		
1,400.00	1,355.84	1,339.81	1,339.68	6.99	4.53	94.08	-5,361.01	1,736.05	5,650.64	5,639.12	11.52	490.543		
1,500.00	1,444.94	1,422.12	1,421.99	7.87	4.82	94.38	-5,361.10	1,736.17	5,654.54	5,641.87	12.67	446.209		
1,600.00	1,532.39	1,525.44	1,525.31	8.80	5.17	94.79	-5,361.15	1,736.09	5,659.00	5,645.05	13.96	405.423		
1,700.00	1,618.11	1,626.80	1,626.67	9.81	5.52	95.22	-5,360.86	1,735.97	5,663.89	5,648.58	15.31	369.963		
1,800.00	1,701.97	1,707.13	1,707.00	10.89	5.80	95.55	-5,360.59	1,735.81	5,669.55	5,652.89	16.66	340.361		
1,900.00	1,783.88	1,779.97	1,779.83	12.04	6.05	95.84	-5,360.49	1,735.43	5,676.18	5,658.13	18.04	314.586		
2,000.00	1,863.74	2,000.00	1,883.47	13.26	6.81	96.33	-5,360.21	1,734.22	5,683.53	5,663.53	20.01	284.095		
2,100.00	1,941.45	1,973.01	1,972.86	14.55	6.72	96.74	-5,359.69	1,732.86	5,691.67	5,670.49	21.18	268.666		
2,200.00	2,016.92	2,041.24	2,041.08	15.92	6.96	97.01	-5,359.42	1,731.73	5,701.08	5,678.32	22.76	250.502		
2,292.11	2,084.36	2,106.19	2,106.02	17.25	7.18	97.27	-5,359.22	1,730.46	5,710.86	5,686.59	24.27	235.277		
2,300.00	2,090.06	2,112.05	2,111.87	17.36	7.20	97.31	-5,359.20	1,730.33	5,711.75	5,687.34	24.41	234.032		
2,400.00	2,162.18	2,186.24	2,186.05	18.84	7.46	97.83	-5,358.98	1,728.80	5,723.42	5,697.32	26.10	219.323		
2,500.00	2,234.31	2,258.36	2,258.15	20.33	7.71	98.34	-5,358.72	1,727.32	5,735.90	5,708.12	27.78	206.464		
2,600.00	2,306.43	2,332.26	2,332.03	21.83	7.97	98.86	-5,358.44	1,725.77	5,749.21	5,719.74	29.47	195.062		
2,700.00	2,378.56	2,410.77	2,410.52	23.33	8.25	99.41	-5,358.09	1,724.00	5,763.29	5,732.11	31.18	184.837		
2,800.00	2,450.68	2,500.02	2,499.73	24.84	8.56	100.04	-5,357.55	1,721.40	5,778.03	5,745.11	32.92	175.510		
2,900.00	2,522.81	2,554.04	2,553.73	26.36	8.75	100.42	-5,357.21	1,719.74	5,793.59	5,759.06	34.53	167.777		
3,000.00	2,594.93	2,600.00	2,599.68	27.88	8.91	100.75	-5,357.02	1,718.62	5,810.18	5,774.08	36.11	160.923		
3,100.00	2,667.06	2,651.26	2,650.92	29.40	9.09	101.10	-5,356.98	1,717.58	5,827.85	5,790.16	37.69	154.630		
3,200.00	2,739.18	2,700.00	2,699.66	30.92	9.26	101.44	-5,357.19	1,716.67	5,846.64	5,807.39	39.25	148.944		
3,300.00	2,811.31	2,796.86	2,796.50	32.45	9.60	102.11	-5,357.56	1,715.11	5,866.23	5,825.25	40.99	143.127		
3,400.00	2,883.43	3,019.43	3,019.03	33.98	10.39	103.62	-5,354.30	1,712.66	5,884.91	5,841.74	43.17	136.328		
3,500.00	2,955.56	3,081.27	3,080.85	35.51	10.61	104.03	-5,352.81	1,712.05	5,904.03	5,859.28	44.76	131.913		
3,600.00	3,027.68	3,133.70	3,133.25	37.04	10.80	104.39	-5,351.66	1,711.35	5,924.08	5,877.78	46.30	127.947		
3,700.00	3,099.81	3,181.85	3,181.40	38.57	10.97	104.71	-5,350.79	1,710.57	5,945.15	5,897.33	47.82	124.330		
3,800.00	3,171.93	3,225.44	3,224.97	40.11	11.13	105.00	-5,350.19	1,709.73	5,967.26	5,917.95	49.30	121.031		
3,900.00	3,244.06	3,265.85	3,265.37	41.64	11.27	105.28	-5,349.83	1,708.68	5,990.47	5,939.71	50.76	118.009		
4,000.00	3,316.18	3,315.94	3,315.43	43.18	11.45	105.62	-5,349.65	1,707.02	6,014.78	5,962.53	52.24	115.130		
4,100.00	3,388.31	3,414.10	3,413.52	44.71	11.80	106.29	-5,349.04	1,703.36	6,039.68	5,985.79	53.89	112.077		
4,200.00	3,460.43	3,470.92	3,470.29	46.25	12.00	106.67	-5,348.65	1,701.19	6,065.29	6,009.92	55.37	109.548		
4,300.00	3,532.56	3,544.28	3,543.61	47.79	12.26	107.17	-5,348.26	1,698.46	6,091.74	6,034.85	56.89	107.074		
4,400.00	3,604.68	3,632.51	3,631.78	49.33	12.57	107.76	-5,347.58	1,695.60	6,118.73	6,060.27	58.46	104.662		
4,500.00	3,676.81	3,716.78	3,716.02	50.87	12.88	108.31	-5,346.78	1,693.55	6,146.25	6,086.24	60.00	102.431		
4,600.00	3,748.93	3,783.31	3,782.54	52.41	13.11	108.75	-5,346.13	1,692.15	6,174.42	6,112.95	61.47	100.454		
4,700.00	3,821.06	3,861.46	3,860.68	53.95	13.39	109.25	-5,345.40	1,691.13	6,203.24	6,140.28	62.96	98.534		
4,800.00	3,893.18	3,946.16	3,945.37	55.49	13.69	109.78	-5,344.64	1,691.61	6,232.58	6,168.12	64.46	96.691		
4,900.00	3,965.31	4,023.12	4,022.33	57.03	13.95	110.26	-5,343.80	1,692.00	6,262.40	6,196.48	65.92	95.002		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,084.52	4,083.73	58.58	14.17	110.64	-5,343.15	1,691.97	6,292.90	6,225.59	67.31	93.497		
5,100.00	4,109.56	4,163.75	4,162.94	60.12	14.45	111.13	-5,342.31	1,691.54	6,324.06	6,255.31	68.75	91.989		
5,200.00	4,181.68	4,260.66	4,259.84	61.66	14.80	111.74	-5,340.95	1,690.55	6,355.65	6,285.40	70.24	90.480		
5,300.00	4,253.81	4,427.02	4,426.11	63.20	15.39	112.78	-5,336.71	1,687.24	6,387.10	6,315.12	71.98	88.735		
5,400.00	4,325.93	4,498.60	4,497.65	64.75	15.65	113.22	-5,334.48	1,686.53	6,418.67	6,345.33	73.35	87.508		
5,500.00	4,398.06	4,599.30	4,598.30	66.29	16.01	113.82	-5,331.26	1,686.25	6,450.68	6,375.87	74.81	86.223		
5,600.00	4,470.18	4,755.18	4,754.04	67.84	16.56	114.75	-5,324.71	1,686.02	6,482.41	6,405.94	76.46	84.778		
5,700.00	4,542.31	4,826.19	4,824.96	69.38	16.81	115.18	-5,321.22	1,685.39	6,514.41	6,436.62	77.79	83.745		
5,800.00	4,614.43	4,877.70	4,876.41	70.92	17.00	115.49	-5,318.79	1,684.79	6,547.16	6,468.13	79.03	82.845		
5,900.00	4,686.56	4,926.97	4,925.63	72.47	17.17	115.78	-5,316.61	1,684.13	6,580.70	6,500.46	80.25	82.006		
6,000.00	4,758.68	4,974.51	4,973.12	74.01	17.34	116.06	-5,314.67	1,683.43	6,615.07	6,533.63	81.44	81.225		
6,100.00	4,830.81	5,000.00	4,998.59	75.56	17.43	116.21	-5,313.70	1,683.03	6,650.30	6,567.76	82.54	80.574		
6,200.00	4,902.93	5,039.34	5,037.90	77.10	17.58	116.44	-5,312.43	1,682.35	6,686.46	6,602.79	83.67	79.918		
6,300.00	4,975.06	5,066.02	5,064.57	78.65	17.67	116.60	-5,311.78	1,681.83	6,723.66	6,638.92	84.73	79.353		
6,400.00	5,047.18	5,100.00	5,098.54	80.19	17.79	116.80	-5,311.20	1,681.12	6,761.86	6,676.05	85.81	78.805		
6,500.00	5,119.31	5,145.40	5,143.92	81.74	17.95	117.07	-5,310.65	1,680.16	6,800.92	6,714.01	86.91	78.253		
6,600.00	5,191.43	5,210.36	5,208.88	83.28	18.19	117.44	-5,309.98	1,678.97	6,840.59	6,752.51	88.08	77.663		
6,700.00	5,263.56	5,284.97	5,283.48	84.83	18.45	117.86	-5,309.48	1,678.53	6,880.75	6,791.47	89.28	77.071		
6,800.00	5,335.68	5,380.61	5,379.12	86.37	18.78	118.39	-5,309.07	1,679.30	6,921.25	6,830.70	90.55	76.432		
6,900.00	5,407.81	5,451.51	5,450.01	87.92	19.02	118.78	-5,308.62	1,679.89	6,962.03	6,870.31	91.72	75.907		
7,000.00	5,479.93	5,520.32	5,518.82	89.47	19.27	119.15	-5,308.06	1,679.83	7,003.33	6,910.47	92.86	75.419		
7,100.00	5,552.06	5,608.04	5,606.52	91.01	19.58	119.64	-5,307.01	1,679.06	7,044.99	6,950.92	94.07	74.894		
7,200.00	5,624.18	5,649.09	5,647.57	92.56	19.73	119.86	-5,306.48	1,678.38	7,087.18	6,992.12	95.06	74.554		
7,300.00	5,696.31	5,700.00	5,698.46	94.10	19.91	120.14	-5,305.91	1,677.20	7,130.08	7,034.00	96.08	74.208		
7,400.00	5,768.43	5,798.17	5,796.60	95.65	20.26	120.68	-5,304.70	1,674.77	7,173.42	7,076.13	97.29	73.733		
7,500.00	5,840.56	5,852.35	5,850.75	97.20	20.45	120.98	-5,303.99	1,673.54	7,217.06	7,118.76	98.30	73.419		
7,600.00	5,912.68	5,913.10	5,911.49	98.74	20.67	121.31	-5,303.34	1,672.15	7,261.30	7,161.97	99.33	73.106		
7,700.00	5,984.81	6,094.96	6,093.31	100.29	21.32	122.27	-5,300.97	1,670.16	7,305.58	7,204.72	100.86	72.430		
7,800.00	6,056.93	6,221.81	6,220.13	101.84	21.77	122.92	-5,297.97	1,670.21	7,349.06	7,246.90	102.16	71.939		
7,900.00	6,129.06	6,263.48	6,261.79	103.38	21.92	123.13	-5,296.97	1,670.18	7,393.02	7,289.94	103.08	71.721		
8,000.00	6,201.18	6,325.91	6,324.20	104.93	22.14	123.45	-5,295.69	1,669.94	7,437.65	7,333.57	104.08	71.461		
8,100.00	6,273.31	6,451.49	6,449.74	106.48	22.59	124.08	-5,292.38	1,669.54	7,482.20	7,376.86	105.33	71.034		
8,200.00	6,345.43	6,517.40	6,515.63	108.02	22.82	124.40	-5,290.81	1,670.15	7,527.00	7,420.67	106.33	70.790		
8,300.00	6,417.56	6,562.83	6,561.05	109.57	22.98	124.62	-5,289.97	1,670.81	7,572.35	7,465.12	107.23	70.619		
8,400.00	6,489.68	6,700.00	6,698.17	111.12	23.45	125.27	-5,287.76	1,673.64	7,618.14	7,509.62	108.52	70.201		
8,500.00	6,561.81	6,736.51	6,734.66	112.66	23.58	125.44	-5,287.00	1,674.42	7,663.82	7,554.45	109.36	70.076		
8,600.00	6,633.93	6,766.87	6,765.01	114.21	23.69	125.58	-5,286.48	1,674.85	7,710.23	7,600.06	110.17	69.986		
8,700.00	6,706.06	6,800.00	6,798.14	115.76	23.80	125.74	-5,286.01	1,675.07	7,757.38	7,646.41	110.97	69.905		
8,800.00	6,778.18	6,856.48	6,854.62	117.30	24.00	126.00	-5,285.37	1,675.32	7,805.11	7,693.25	111.86	69.773		
8,900.00	6,850.31	6,954.82	6,952.95	118.85	24.35	126.46	-5,284.43	1,676.12	7,853.20	7,740.26	112.94	69.533		
9,000.00	6,922.43	7,059.25	7,057.36	120.40	24.71	126.94	-5,283.05	1,677.52	7,901.12	7,787.08	114.04	69.285		
9,100.00	6,994.56	7,130.98	7,129.07	121.95	24.96	127.26	-5,282.15	1,678.79	7,949.27	7,834.28	114.98	69.135		
9,200.00	7,066.68	7,193.60	7,191.68	123.49	25.18	127.54	-5,281.33	1,679.66	7,997.77	7,881.90	115.87	69.021		
9,300.00	7,138.81	7,242.07	7,240.14	125.04	25.35	127.76	-5,280.72	1,680.18	8,046.72	7,930.03	116.69	68.957		
9,392.50	7,205.52	7,285.29	7,283.36	126.47	25.50	127.95	-5,280.31	1,680.59	8,092.45	7,975.02	117.43	68.912		
9,400.00	7,210.94	7,300.00	7,298.07	126.59	25.55	127.08	-5,280.20	1,680.73	8,096.15	7,978.61	117.54	68.878		
9,450.00	7,247.42	7,318.91	7,316.98	127.35	25.62	120.95	-5,280.07	1,680.89	8,118.76	8,000.82	117.94	68.840		
9,500.00	7,284.35	7,355.32	7,353.38	128.10	25.75	114.89	-5,279.80	1,681.18	8,137.81	8,019.37	118.43	68.712		
9,550.00	7,321.43	7,391.79	7,389.85	128.83	25.87	108.94	-5,279.52	1,681.45	8,153.16	8,034.21	118.95	68.543		
9,600.00	7,358.38	7,428.15	7,426.21	129.52	26.00	103.22	-5,279.24	1,681.70	8,164.72	8,045.24	119.48	68.338		
9,650.00	7,394.93	7,464.16	7,462.21	130.16	26.13	97.84	-5,278.98	1,681.98	8,172.42	8,052.41	120.01	68.100		
9,700.00	7,430.79	7,499.54	7,497.59	130.76	26.25	92.92	-5,278.75	1,682.29	8,176.22	8,055.68	120.53	67.833		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,535.46	7,533.51	131.30	26.38	88.54	-5,278.53	1,682.63	8,176.10	8,055.04	121.06	67.539		
9,800.00	7,499.38	7,570.17	7,568.22	131.78	26.50	84.73	-5,278.33	1,682.99	8,172.07	8,050.51	121.56	67.226		
9,850.00	7,531.58	7,603.36	7,601.41	132.21	26.61	81.51	-5,278.14	1,683.35	8,164.18	8,042.14	122.04	66.896		
9,900.00	7,562.06	7,619.46	7,617.51	132.57	26.67	78.80	-5,278.07	1,683.53	8,152.53	8,030.11	122.42	66.596		
9,950.00	7,590.58	7,635.96	7,634.00	132.87	26.72	76.69	-5,278.02	1,683.70	8,137.23	8,014.46	122.77	66.279		
10,000.00	7,616.93	7,651.24	7,649.28	133.11	26.78	75.15	-5,278.00	1,683.86	8,118.37	7,995.28	123.09	65.954		
10,050.00	7,640.90	7,665.19	7,663.24	133.29	26.82	74.20	-5,278.00	1,684.01	8,096.11	7,972.73	123.38	65.622		
10,100.00	7,662.32	7,677.72	7,675.76	133.42	26.87	73.83	-5,278.02	1,684.13	8,070.58	7,946.96	123.62	65.284		
10,150.00	7,681.01	7,700.00	7,698.04	133.50	26.94	74.17	-5,278.09	1,684.36	8,041.99	7,918.10	123.89	64.914		
10,200.00	7,696.85	7,700.00	7,698.04	133.52	26.94	74.99	-5,278.09	1,684.36	8,010.48	7,886.46	124.01	64.593		
10,250.00	7,709.70	7,752.69	7,750.73	133.51	27.12	77.04	-5,278.20	1,684.96	7,976.28	7,851.91	124.37	64.132		
10,300.00	7,719.47	7,804.62	7,802.65	133.46	27.30	80.01	-5,278.08	1,685.72	7,939.60	7,814.90	124.70	63.668		
10,350.00	7,726.09	10,350.00	7,765.12	133.37	36.01	83.01	-5,278.10	1,685.22	7,900.68	7,767.27	133.41	59.220		
10,400.00	7,729.50	10,400.00	7,768.57	133.26	36.18	87.61	-5,278.10	1,685.26	7,859.97	7,726.35	133.63	58.821		
10,427.79	7,730.00	10,427.79	7,769.08	133.18	36.28	90.73	-5,278.10	1,685.27	7,836.63	7,702.90	133.74	58.598		
10,500.00	7,730.00	10,500.00	7,769.08	132.98	36.52	90.73	-5,278.10	1,685.27	7,775.49	7,641.47	134.02	58.020		
10,600.00	7,730.00	10,600.00	7,769.09	132.72	36.87	90.73	-5,278.10	1,685.27	7,691.13	7,556.72	134.40	57.224		
10,700.00	7,730.00	10,700.00	7,769.09	132.47	37.21	90.73	-5,278.10	1,685.27	7,607.14	7,472.35	134.79	56.435		
10,800.00	7,730.00	10,800.00	7,769.09	132.22	37.55	90.73	-5,278.10	1,685.27	7,523.55	7,388.36	135.19	55.652		
10,900.00	7,730.00	10,900.00	7,769.10	131.99	37.89	90.73	-5,278.10	1,685.27	7,440.36	7,304.78	135.59	54.875		
11,000.00	7,730.00	11,000.00	7,769.10	131.77	38.23	90.73	-5,278.10	1,685.27	7,357.60	7,221.61	135.99	54.105		
11,100.00	7,730.00	11,100.00	7,769.11	131.56	38.58	90.73	-5,278.10	1,685.27	7,275.26	7,138.87	136.39	53.341		
11,200.00	7,730.00	11,200.00	7,769.11	131.36	38.92	90.73	-5,278.10	1,685.27	7,193.37	7,056.57	136.80	52.583		
11,300.00	7,730.00	11,300.00	7,769.11	131.17	39.26	90.73	-5,278.10	1,685.27	7,111.95	6,974.74	137.21	51.831		
11,400.00	7,730.00	11,400.00	7,769.12	130.99	39.60	90.73	-5,278.10	1,685.27	7,031.00	6,893.37	137.63	51.086		
11,500.00	7,730.00	11,500.00	7,769.12	130.82	39.95	90.73	-5,278.10	1,685.27	6,950.56	6,812.50	138.05	50.347		
11,600.00	7,730.00	11,600.00	7,769.13	130.66	40.29	90.73	-5,278.10	1,685.27	6,870.62	6,732.14	138.48	49.615		
11,700.00	7,730.00	7,819.21	7,817.24	130.51	27.35	91.40	-5,278.01	1,685.96	6,791.27	6,665.53	125.74	54.011		
11,800.00	7,730.00	7,817.40	7,815.43	130.37	27.35	91.37	-5,278.02	1,685.93	6,712.42	6,586.59	125.82	53.347		
11,900.00	7,730.00	7,815.69	7,813.72	130.24	27.34	91.35	-5,278.03	1,685.90	6,634.14	6,508.22	125.92	52.687		
12,000.00	7,730.00	7,814.06	7,812.09	130.13	27.33	91.33	-5,278.04	1,685.87	6,556.45	6,430.43	126.01	52.030		
12,100.00	7,730.00	7,812.51	7,810.54	130.02	27.33	91.30	-5,278.04	1,685.84	6,479.37	6,353.25	126.12	51.376		
12,200.00	7,730.00	7,811.03	7,809.06	129.93	27.32	91.28	-5,278.05	1,685.82	6,402.92	6,276.70	126.22	50.726		
12,300.00	7,730.00	7,809.62	7,807.66	129.85	27.32	91.26	-5,278.06	1,685.80	6,327.13	6,200.79	126.34	50.080		
12,400.00	7,730.00	7,808.28	7,806.31	129.77	27.31	91.25	-5,278.06	1,685.77	6,252.03	6,125.57	126.46	49.439		
12,500.00	7,730.00	7,807.00	7,805.03	129.71	27.31	91.23	-5,278.07	1,685.75	6,177.62	6,051.04	126.59	48.801		
12,600.00	7,730.00	7,805.77	7,803.80	129.66	27.31	91.21	-5,278.08	1,685.73	6,103.95	5,977.23	126.72	48.168		
12,700.00	7,730.00	7,804.59	7,802.63	129.63	27.30	91.20	-5,278.08	1,685.71	6,031.04	5,904.18	126.86	47.539		
12,800.00	7,730.00	7,803.47	7,801.50	129.60	27.30	91.18	-5,278.09	1,685.70	5,958.91	5,831.90	127.01	46.916		
12,900.00	7,730.00	7,802.39	7,800.42	129.59	27.29	91.16	-5,278.09	1,685.68	5,887.60	5,760.43	127.17	46.297		
13,000.00	7,730.00	7,801.35	7,799.38	129.59	27.29	91.15	-5,278.09	1,685.66	5,817.13	5,689.80	127.33	45.684		
13,100.00	7,730.00	7,800.35	7,798.38	129.60	27.29	91.14	-5,278.10	1,685.65	5,747.54	5,620.04	127.50	45.077		
13,200.00	7,730.00	7,799.39	7,797.43	129.63	27.28	91.12	-5,278.10	1,685.63	5,678.86	5,551.18	127.68	44.476		
13,300.00	7,730.00	7,798.47	7,796.50	129.66	27.28	91.11	-5,278.11	1,685.62	5,611.12	5,483.25	127.87	43.881		
13,400.00	7,730.00	7,797.58	7,795.62	129.72	27.28	91.10	-5,278.11	1,685.60	5,544.35	5,416.28	128.07	43.292		
13,500.00	7,730.00	7,796.73	7,794.76	129.78	27.27	91.09	-5,278.11	1,685.59	5,478.60	5,350.33	128.27	42.710		
13,600.00	7,730.00	7,795.90	7,793.93	129.86	27.27	91.08	-5,278.12	1,685.58	5,413.89	5,285.41	128.49	42.135		
13,700.00	7,730.00	7,795.10	7,793.14	129.96	27.27	91.06	-5,278.12	1,685.56	5,350.28	5,221.56	128.71	41.568		
13,800.00	7,730.00	7,794.33	7,792.37	130.07	27.27	91.05	-5,278.12	1,685.55	5,287.78	5,158.84	128.94	41.009		
13,900.00	7,730.00	7,793.59	7,791.63	130.19	27.26	91.04	-5,278.12	1,685.54	5,226.46	5,097.27	129.18	40.458		
14,000.00	7,730.00	7,792.87	7,790.91	130.33	27.26	91.03	-5,278.13	1,685.53	5,166.34	5,036.90	129.43	39.915		
14,100.00	7,730.00	7,792.18	7,790.21	130.49	27.26	91.02	-5,278.13	1,685.52	5,107.47	4,977.77	129.69	39.381		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,791.51	7,789.54	130.67	27.26	91.01	-5,278.13	1,685.51	5,049.89	4,919.93	129.96	38.857		
14,300.00	7,730.00	7,790.86	7,788.89	130.86	27.25	91.01	-5,278.13	1,685.50	4,993.66	4,863.42	130.24	38.342		
14,400.00	7,730.00	7,790.22	7,788.26	131.07	27.25	91.00	-5,278.14	1,685.49	4,938.81	4,808.28	130.53	37.837		
14,500.00	7,730.00	7,789.61	7,787.65	131.30	27.25	90.99	-5,278.14	1,685.48	4,885.39	4,754.56	130.82	37.343		
14,600.00	7,730.00	7,789.02	7,787.06	131.55	27.25	90.98	-5,278.14	1,685.47	4,833.44	4,702.32	131.13	36.860		
14,700.00	7,730.00	7,788.45	7,786.48	131.82	27.25	90.97	-5,278.14	1,685.46	4,783.03	4,651.59	131.44	36.389		
14,800.00	7,730.00	7,787.89	7,785.92	132.11	27.24	90.96	-5,278.14	1,685.45	4,734.19	4,602.43	131.76	35.929		
14,900.00	7,730.00	7,787.35	7,785.38	132.42	27.24	90.96	-5,278.14	1,685.44	4,686.98	4,554.88	132.09	35.482		
15,000.00	7,730.00	7,786.82	7,784.85	132.75	27.24	90.95	-5,278.15	1,685.44	4,641.44	4,509.01	132.43	35.048		
15,100.00	7,730.00	7,786.31	7,784.34	133.10	27.24	90.94	-5,278.15	1,685.43	4,597.62	4,464.85	132.78	34.627		
15,200.00	7,730.00	7,785.81	7,783.85	133.48	27.24	90.94	-5,278.15	1,685.42	4,555.58	4,422.46	133.13	34.220		
15,300.00	7,730.00	7,785.33	7,783.36	133.88	27.24	90.93	-5,278.15	1,685.41	4,515.37	4,381.88	133.48	33.827		
15,400.00	7,730.00	7,784.86	7,782.89	134.31	27.23	90.92	-5,278.15	1,685.41	4,477.02	4,343.18	133.84	33.449		
15,500.00	7,730.00	7,784.40	7,782.43	134.76	27.23	90.92	-5,278.15	1,685.40	4,440.60	4,306.39	134.21	33.087		
15,600.00	7,730.00	7,783.95	7,781.99	135.23	27.23	90.91	-5,278.15	1,685.39	4,406.14	4,271.56	134.58	32.740		
15,700.00	7,730.00	7,783.52	7,781.55	135.73	27.23	90.90	-5,278.16	1,685.39	4,373.70	4,238.75	134.95	32.410		
15,800.00	7,730.00	7,783.09	7,781.13	136.26	27.23	90.90	-5,278.16	1,685.38	4,343.32	4,208.00	135.32	32.096		
15,900.00	7,730.00	7,782.68	7,780.72	136.81	27.23	90.89	-5,278.16	1,685.37	4,315.05	4,179.36	135.69	31.800		
16,000.00	7,730.00	7,782.28	7,780.31	137.39	27.23	90.89	-5,278.16	1,685.37	4,288.92	4,152.86	136.06	31.521		
16,100.00	7,730.00	7,781.89	7,779.92	138.00	27.22	90.88	-5,278.16	1,685.36	4,264.98	4,128.54	136.43	31.260		
16,200.00	7,730.00	7,781.50	7,779.54	138.63	27.22	90.88	-5,278.16	1,685.36	4,243.26	4,106.46	136.80	31.018		
16,300.00	7,730.00	7,781.13	7,779.17	139.30	27.22	90.87	-5,278.16	1,685.35	4,223.79	4,086.63	137.16	30.794		
16,400.00	7,730.00	7,780.76	7,778.80	139.99	27.22	90.87	-5,278.16	1,685.35	4,206.61	4,069.10	137.52	30.590		
16,500.00	7,730.00	7,780.41	7,778.44	140.70	27.22	90.86	-5,278.16	1,685.34	4,191.75	4,053.89	137.86	30.405		
16,600.00	7,730.00	7,780.06	7,778.10	141.45	27.22	90.86	-5,278.16	1,685.34	4,179.23	4,041.03	138.20	30.240		
16,700.00	7,730.00	7,779.72	7,777.76	142.22	27.22	90.85	-5,278.16	1,685.33	4,169.07	4,030.54	138.53	30.094		
16,800.00	7,730.00	7,779.39	7,777.42	143.03	27.22	90.85	-5,278.17	1,685.33	4,161.29	4,022.44	138.85	29.969		
16,900.00	7,730.00	7,779.06	7,777.10	143.86	27.21	90.84	-5,278.17	1,685.32	4,155.90	4,016.74	139.16	29.864		
17,000.00	7,730.00	7,778.75	7,776.78	144.71	27.21	90.84	-5,278.17	1,685.32	4,152.92	4,013.46	139.46	29.779		
17,074.07	7,730.00	7,778.51	7,776.55	145.36	27.21	90.84	-5,278.17	1,685.31	4,152.26	4,012.59	139.67	29.730 CC, ES		
17,100.00	7,730.00	7,778.44	7,776.47	145.60	27.21	90.83	-5,278.17	1,685.31	4,152.34	4,012.60	139.74	29.715		
17,200.00	7,730.00	7,778.13	7,776.17	146.51	27.21	90.83	-5,278.17	1,685.31	4,154.17	4,014.16	140.01	29.671		
17,300.00	7,730.00	7,777.83	7,775.87	147.44	27.21	90.83	-5,278.17	1,685.30	4,158.40	4,018.14	140.26	29.648		
17,400.00	7,730.00	7,777.54	7,775.58	148.40	27.21	90.82	-5,278.17	1,685.30	4,165.03	4,024.54	140.49	29.646 SF		
17,500.00	7,730.00	7,777.26	7,775.30	149.39	27.21	90.82	-5,278.17	1,685.30	4,174.04	4,033.33	140.71	29.664		
17,600.00	7,730.00	7,776.98	7,775.02	150.40	27.21	90.81	-5,278.17	1,685.29	4,185.43	4,044.52	140.91	29.702		
17,700.00	7,730.00	7,776.71	7,774.74	151.44	27.21	90.81	-5,278.17	1,685.29	4,199.17	4,058.07	141.10	29.760		
17,800.00	7,730.00	7,776.44	7,774.48	152.50	27.21	90.81	-5,278.17	1,685.28	4,215.23	4,073.97	141.27	29.839		
17,900.00	7,730.00	7,776.18	7,774.21	153.58	27.20	90.80	-5,278.17	1,685.28	4,233.60	4,092.18	141.42	29.937		
18,000.00	7,730.00	7,775.92	7,773.96	154.68	27.20	90.80	-5,278.17	1,685.28	4,254.24	4,112.69	141.55	30.054		
18,100.00	7,730.00	7,775.67	7,773.70	155.80	27.20	90.80	-5,278.17	1,685.27	4,277.12	4,135.45	141.67	30.191		
18,200.00	7,730.00	7,775.42	7,773.46	156.95	27.20	90.79	-5,278.17	1,685.27	4,302.20	4,160.43	141.77	30.347		
18,300.00	7,730.00	7,775.18	7,773.22	158.11	27.20	90.79	-5,278.17	1,685.27	4,329.45	4,187.60	141.85	30.521		
18,400.00	7,730.00	7,774.94	7,772.98	159.30	27.20	90.79	-5,278.18	1,685.26	4,358.82	4,216.90	141.92	30.714		
18,500.00	7,730.00	7,774.71	7,772.75	160.50	27.20	90.78	-5,278.18	1,685.26	4,390.27	4,248.30	141.97	30.924		
18,600.00	7,730.00	7,774.48	7,772.52	161.72	27.20	90.78	-5,278.18	1,685.25	4,423.76	4,281.76	142.01	31.152		
18,700.00	7,730.00	7,774.26	7,772.29	162.96	27.20	90.78	-5,278.18	1,685.25	4,459.24	4,317.22	142.03	31.397		
18,800.00	7,730.00	7,774.04	7,772.07	164.21	27.20	90.77	-5,278.18	1,685.25	4,496.67	4,354.64	142.04	31.659		
18,900.00	7,730.00	7,773.82	7,771.86	165.48	27.20	90.77	-5,278.18	1,685.25	4,535.99	4,393.96	142.03	31.937		
19,000.00	7,730.00	7,773.61	7,771.64	166.76	27.20	90.77	-5,278.18	1,685.24	4,577.16	4,435.15	142.01	32.230		
19,100.00	7,730.00	7,773.40	7,771.44	168.06	27.19	90.76	-5,278.18	1,685.24	4,620.13	4,478.14	141.99	32.540		
19,200.00	7,730.00	7,773.19	7,771.23	169.38	27.19	90.76	-5,278.18	1,685.24	4,664.85	4,522.90	141.95	32.864		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,772.99	7,771.03	170.70	27.19	90.76	-5,278.18	1,685.23	4,711.26	4,569.36	141.90	33.202	
19,400.00	7,730.00	7,772.80	7,770.83	172.04	27.19	90.76	-5,278.18	1,685.23	4,759.32	4,617.48	141.84	33.555	
19,500.00	7,730.00	7,772.60	7,770.64	173.40	27.19	90.75	-5,278.18	1,685.23	4,808.99	4,667.21	141.77	33.921	
19,600.00	7,730.00	7,772.41	7,770.45	174.76	27.19	90.75	-5,278.18	1,685.23	4,860.20	4,718.50	141.70	34.300	
19,700.00	7,730.00	7,772.22	7,770.26	176.14	27.19	90.75	-5,278.18	1,685.22	4,912.91	4,771.30	141.61	34.692	
19,800.00	7,730.00	7,772.04	7,770.08	177.52	27.19	90.75	-5,278.18	1,685.22	4,967.08	4,825.55	141.53	35.097	
19,900.00	7,730.00	7,771.86	7,769.90	178.92	27.19	90.74	-5,278.18	1,685.22	5,022.66	4,881.22	141.43	35.513	
20,000.00	7,730.00	7,771.68	7,769.72	180.33	27.19	90.74	-5,278.18	1,685.22	5,079.59	4,938.26	141.33	35.941	
20,100.00	7,730.00	7,771.51	7,769.54	181.75	27.19	90.74	-5,278.18	1,685.21	5,137.84	4,996.61	141.23	36.379	
20,184.95	7,730.00	7,771.36	7,769.40	182.96	27.19	90.74	-5,278.18	1,685.21	5,188.33	5,047.19	141.14	36.761	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.91	-5,617.05	5,634.09	7,955.81					
100.00	100.00	73.00	73.00	0.13	0.56	134.91	-5,617.05	5,634.09	7,955.77	7,955.07	0.70	N/A		
200.00	199.98	172.98	172.98	0.49	2.04	64.48	-5,617.05	5,634.09	7,955.01	7,952.48	2.53	3,141.884		
300.00	299.84	272.84	272.84	0.86	3.78	64.56	-5,617.05	5,634.09	7,952.76	7,948.12	4.64	1,714.907		
400.00	399.45	372.45	372.45	1.23	5.52	64.68	-5,617.05	5,634.09	7,949.01	7,942.26	6.75	1,177.548		
500.00	498.70	471.70	471.70	1.63	7.26	64.86	-5,617.05	5,634.09	7,943.78	7,934.91	8.87	895.225		
600.00	597.47	570.47	570.47	2.05	8.98	65.08	-5,617.05	5,634.09	7,937.10	7,926.09	11.01	720.920		
700.00	695.62	668.62	668.62	2.51	10.69	65.35	-5,617.05	5,634.09	7,928.98	7,915.81	13.16	602.409		
800.00	793.06	766.06	766.06	3.00	12.39	65.67	-5,617.05	5,634.09	7,919.45	7,904.11	15.33	516.470		
900.00	889.64	862.64	862.64	3.53	14.08	66.04	-5,617.05	5,634.09	7,908.55	7,891.02	17.53	451.207		
1,000.00	985.27	958.27	958.27	4.12	15.75	66.45	-5,617.05	5,634.09	7,896.33	7,876.58	19.75	399.898		
1,100.00	1,079.82	1,052.82	1,052.82	4.75	17.40	66.91	-5,617.05	5,634.09	7,882.82	7,860.83	21.99	358.455		
1,200.00	1,173.17	1,146.17	1,146.17	5.44	19.03	67.41	-5,617.05	5,634.09	7,868.08	7,843.81	24.27	324.252		
1,300.00	1,265.21	1,238.21	1,238.21	6.18	20.63	67.95	-5,617.05	5,634.09	7,852.16	7,825.59	26.57	295.523		
1,400.00	1,355.84	1,328.84	1,328.84	6.99	22.22	68.54	-5,617.05	5,634.09	7,835.13	7,806.22	28.91	271.037		
1,500.00	1,444.94	1,417.94	1,417.94	7.87	23.77	69.16	-5,617.05	5,634.09	7,817.05	7,785.77	31.28	249.910		
1,600.00	1,532.39	1,505.39	1,505.39	8.80	25.30	69.82	-5,617.05	5,634.09	7,797.98	7,764.30	33.69	231.490		
1,700.00	1,618.11	1,608.89	1,591.11	9.81	27.10	70.52	-5,617.05	5,634.09	7,778.01	7,741.57	36.44	213.453		
1,800.00	1,701.97	1,674.97	1,674.97	10.89	28.26	71.24	-5,617.05	5,634.09	7,757.20	7,718.59	38.61	200.924		
1,900.00	1,783.88	1,756.88	1,756.88	12.04	29.69	72.00	-5,617.05	5,634.09	7,735.64	7,694.52	41.12	188.106		
2,000.00	1,863.74	1,836.74	1,836.74	13.26	31.08	72.78	-5,617.05	5,634.09	7,713.42	7,669.74	43.68	176.599		
2,100.00	1,941.45	1,914.45	1,914.45	14.55	32.44	73.59	-5,617.05	5,634.09	7,690.61	7,644.34	46.27	166.218		
2,200.00	2,016.92	1,989.92	1,989.92	15.92	33.75	74.41	-5,617.05	5,634.09	7,667.31	7,618.42	48.90	156.809		
2,292.11	2,084.36	2,057.36	2,057.36	17.25	34.93	75.19	-5,617.05	5,634.09	7,645.50	7,594.15	51.35	148.896		
2,300.00	2,090.06	2,063.06	2,063.06	17.36	35.03	75.22	-5,617.05	5,634.09	7,643.62	7,592.06	51.56	148.249		
2,400.00	2,162.18	2,135.18	2,135.18	18.84	36.29	75.59	-5,617.05	5,634.09	7,620.10	7,565.85	54.25	140.465		
2,500.00	2,234.31	2,207.31	2,207.31	20.33	37.55	75.97	-5,617.05	5,634.09	7,597.14	7,540.18	56.96	133.383		
2,600.00	2,306.43	2,279.43	2,279.43	21.83	38.81	76.34	-5,617.05	5,634.09	7,574.74	7,515.06	59.68	126.920		
2,700.00	2,378.56	2,351.56	2,351.56	23.33	40.07	76.72	-5,617.05	5,634.09	7,552.91	7,490.49	62.42	121.004		
2,800.00	2,450.68	2,423.68	2,423.68	24.84	41.32	77.10	-5,617.05	5,634.09	7,531.66	7,466.49	65.17	115.571		
2,900.00	2,522.81	2,504.19	2,495.81	26.36	42.73	77.48	-5,617.05	5,634.09	7,510.98	7,442.90	68.08	110.331		
3,000.00	2,594.93	2,567.93	2,567.93	27.88	43.84	77.86	-5,617.05	5,634.09	7,490.89	7,420.18	70.70	105.950		
3,100.00	2,667.06	2,640.06	2,640.06	29.40	45.10	78.24	-5,617.05	5,634.09	7,471.38	7,397.90	73.48	101.675		
3,200.00	2,739.18	2,712.18	2,712.18	30.92	46.36	78.62	-5,617.05	5,634.09	7,452.47	7,376.20	76.27	97.709		
3,300.00	2,811.31	2,784.31	2,784.31	32.45	47.62	79.01	-5,617.05	5,634.09	7,434.16	7,355.09	79.07	94.021		
3,400.00	2,883.43	2,856.43	2,856.43	33.98	48.88	79.39	-5,617.05	5,634.09	7,416.44	7,334.57	81.87	90.584		
3,500.00	2,955.56	2,928.56	2,928.56	35.51	50.14	79.78	-5,617.05	5,634.09	7,399.34	7,314.65	84.68	87.376		
3,600.00	3,027.68	3,000.68	3,000.68	37.04	51.39	80.16	-5,617.05	5,634.09	7,382.84	7,295.34	87.50	84.375		
3,700.00	3,099.81	3,072.81	3,072.81	38.57	52.65	80.55	-5,617.05	5,634.09	7,366.96	7,276.64	90.32	81.563		
3,800.00	3,171.93	3,144.93	3,144.93	40.11	53.91	80.94	-5,617.05	5,634.09	7,351.70	7,258.55	93.15	78.924		
3,900.00	3,244.06	3,217.06	3,217.06	41.64	55.17	81.33	-5,617.05	5,634.09	7,337.05	7,241.07	95.98	76.443		
4,000.00	3,316.18	3,289.18	3,289.18	43.18	56.43	81.72	-5,617.05	5,634.09	7,323.04	7,224.22	98.82	74.108		
4,100.00	3,388.31	3,361.31	3,361.31	44.71	57.69	82.11	-5,617.05	5,634.09	7,309.65	7,208.00	101.65	71.907		
4,200.00	3,460.43	3,433.43	3,433.43	46.25	58.95	82.50	-5,617.05	5,634.09	7,296.90	7,192.40	104.49	69.830		
4,300.00	3,532.56	3,505.56	3,505.56	47.79	60.21	82.89	-5,617.05	5,634.09	7,284.78	7,177.44	107.34	67.867		
4,400.00	3,604.68	3,577.68	3,577.68	49.33	61.46	83.29	-5,617.05	5,634.09	7,273.31	7,163.12	110.18	66.010		
4,500.00	3,676.81	3,649.81	3,649.81	50.87	62.72	83.68	-5,617.05	5,634.09	7,262.47	7,149.44	113.03	64.252		
4,600.00	3,748.93	3,721.93	3,721.93	52.41	63.98	84.07	-5,617.05	5,634.09	7,252.28	7,136.40	115.88	62.585		
4,700.00	3,821.06	3,805.94	3,794.06	53.95	65.45	84.47	-5,617.05	5,634.09	7,242.74	7,123.81	118.94	60.896		
4,800.00	3,893.18	3,866.18	3,866.18	55.49	66.50	84.87	-5,617.05	5,634.09	7,233.85	7,112.27	121.58	59.500		
4,900.00	3,965.31	3,938.31	3,938.31	57.03	67.76	85.26	-5,617.05	5,634.09	7,225.61	7,101.19	124.43	58.072		
5,000.00	4,037.43	4,010.43	4,010.43	58.58	69.02	85.66	-5,617.05	5,634.09	7,218.03	7,090.76	127.27	56.713		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,082.56	4,082.56	60.12	70.28	86.05	-5,617.05	5,634.09	7,211.11	7,080.99	130.12	55.419		
5,200.00	4,181.68	4,154.68	4,154.68	61.66	71.54	86.45	-5,617.05	5,634.09	7,204.84	7,071.88	132.96	54.186		
5,300.00	4,253.81	4,226.81	4,226.81	63.20	72.79	86.85	-5,617.05	5,634.09	7,199.24	7,063.43	135.81	53.011		
5,400.00	4,325.93	4,301.07	4,298.93	64.75	74.09	87.25	-5,617.05	5,634.09	7,194.30	7,055.61	138.69	51.875		
5,500.00	4,398.06	4,371.06	4,371.06	66.29	75.31	87.64	-5,617.05	5,634.09	7,190.02	7,048.54	141.48	50.818		
5,600.00	4,470.18	4,443.18	4,443.18	67.84	76.57	88.04	-5,617.05	5,634.09	7,186.41	7,042.09	144.32	49.795		
5,700.00	4,542.31	4,515.31	4,515.31	69.38	77.83	88.44	-5,617.05	5,634.09	7,183.46	7,036.31	147.15	48.818		
5,800.00	4,614.43	4,587.43	4,587.43	70.92	79.09	88.84	-5,617.05	5,634.09	7,181.18	7,031.21	149.97	47.883		
5,900.00	4,686.56	4,659.56	4,659.56	72.47	80.35	89.24	-5,617.05	5,634.09	7,179.57	7,026.78	152.79	46.988		
6,000.00	4,758.68	4,731.68	4,731.68	74.01	81.61	89.64	-5,617.05	5,634.09	7,178.63	7,023.02	155.61	46.132		
6,091.19	4,824.45	4,802.55	4,797.45	75.42	82.84	90.00	-5,617.05	5,634.09	7,178.35	7,020.09	158.26	45.357		
6,100.00	4,830.81	4,803.81	4,803.81	75.56	82.86	90.04	-5,617.05	5,634.09	7,178.35	7,019.93	158.42	45.312		
6,200.00	4,902.93	4,875.93	4,875.93	77.10	84.12	90.43	-5,617.05	5,634.09	7,178.74	7,017.52	161.22	44.526		
6,300.00	4,975.06	4,948.06	4,948.06	78.65	85.38	90.83	-5,617.05	5,634.09	7,179.81	7,015.78	164.02	43.773		
6,400.00	5,047.18	5,020.18	5,020.18	80.19	86.64	91.23	-5,617.05	5,634.09	7,181.54	7,014.72	166.81	43.051		
6,500.00	5,119.31	5,107.69	5,092.31	81.74	88.17	91.63	-5,617.05	5,634.09	7,183.93	7,014.07	169.87	42.292		
6,600.00	5,191.43	5,164.43	5,164.43	83.28	89.16	92.03	-5,617.05	5,634.09	7,187.00	7,014.62	172.37	41.694		
6,700.00	5,263.56	5,236.56	5,236.56	84.83	90.42	92.43	-5,617.05	5,634.09	7,190.73	7,015.58	175.14	41.057		
6,800.00	5,335.68	5,308.68	5,308.68	86.37	91.68	92.82	-5,617.05	5,634.09	7,195.12	7,017.22	177.90	40.444		
6,900.00	5,407.81	5,380.81	5,380.81	87.92	92.94	93.22	-5,617.05	5,634.09	7,200.18	7,019.52	180.65	39.856		
7,000.00	5,479.93	5,452.93	5,452.93	89.47	94.19	93.62	-5,617.05	5,634.09	7,205.90	7,022.50	183.40	39.292		
7,100.00	5,552.06	5,525.06	5,525.06	91.01	95.45	94.02	-5,617.05	5,634.09	7,212.28	7,026.15	186.13	38.749		
7,200.00	5,624.18	5,602.82	5,597.18	92.56	96.81	94.41	-5,617.05	5,634.09	7,219.32	7,030.37	188.95	38.207		
7,300.00	5,696.31	5,669.31	5,669.31	94.10	97.97	94.81	-5,617.05	5,634.09	7,227.02	7,035.45	191.57	37.726		
7,400.00	5,768.43	5,741.43	5,741.43	95.65	99.23	95.20	-5,617.05	5,634.09	7,235.37	7,041.10	194.27	37.244		
7,500.00	5,840.56	5,813.56	5,813.56	97.20	100.49	95.60	-5,617.05	5,634.09	7,244.38	7,047.41	196.96	36.781		
7,600.00	5,912.68	5,885.68	5,885.68	98.74	101.75	95.99	-5,617.05	5,634.09	7,254.03	7,054.39	199.64	36.335		
7,700.00	5,984.81	5,957.81	5,957.81	100.29	103.01	96.39	-5,617.05	5,634.09	7,264.33	7,062.02	202.31	35.906		
7,800.00	6,056.93	6,029.93	6,029.93	101.84	104.26	96.78	-5,617.05	5,634.09	7,275.28	7,070.31	204.97	35.494		
7,900.00	6,129.06	6,102.06	6,102.06	103.38	105.52	97.18	-5,617.05	5,634.09	7,286.87	7,079.25	207.62	35.097		
8,000.00	6,201.18	6,174.18	6,174.18	104.93	106.78	97.57	-5,617.05	5,634.09	7,299.10	7,088.84	210.26	34.715		
8,100.00	6,273.31	6,246.31	6,246.31	106.48	108.04	97.96	-5,617.05	5,634.09	7,311.97	7,099.09	212.88	34.348		
8,200.00	6,345.43	6,318.43	6,318.43	108.02	109.30	98.35	-5,617.05	5,634.09	7,325.46	7,109.97	215.49	33.994		
8,300.00	6,417.56	6,409.44	6,390.56	109.57	110.89	98.74	-5,617.05	5,634.09	7,339.59	7,121.17	218.42	33.603		
8,400.00	6,489.68	6,462.68	6,462.68	111.12	111.82	99.13	-5,617.05	5,634.09	7,354.34	7,133.66	220.68	33.326		
8,500.00	6,561.81	6,534.81	6,534.81	112.66	113.08	99.52	-5,617.05	5,634.09	7,369.71	7,146.46	223.25	33.011		
8,600.00	6,633.93	6,606.93	6,606.93	114.21	114.34	99.90	-5,617.05	5,634.09	7,385.70	7,159.89	225.81	32.708		
8,700.00	6,706.06	6,679.06	6,679.06	115.76	115.59	100.29	-5,617.05	5,634.09	7,402.31	7,173.95	228.36	32.415		
8,800.00	6,778.18	6,751.18	6,751.18	117.30	116.85	100.68	-5,617.05	5,634.09	7,419.52	7,188.63	230.89	32.134		
8,900.00	6,850.31	6,823.31	6,823.31	118.85	118.11	101.06	-5,617.05	5,634.09	7,437.34	7,203.93	233.41	31.864		
9,000.00	6,922.43	6,904.57	6,895.43	120.40	119.53	101.44	-5,617.05	5,634.09	7,455.76	7,219.68	236.08	31.582		
9,100.00	6,994.56	6,967.56	6,967.56	121.95	120.63	101.83	-5,617.05	5,634.09	7,474.78	7,236.36	238.41	31.352		
9,200.00	7,066.68	7,039.68	7,039.68	123.49	121.89	102.21	-5,617.05	5,634.09	7,494.38	7,253.49	240.89	31.111		
9,300.00	7,138.81	7,111.81	7,111.81	125.04	123.15	102.59	-5,617.05	5,634.09	7,514.58	7,271.22	243.36	30.879		
9,392.50	7,205.52	7,178.52	7,178.52	126.47	124.31	102.94	-5,617.05	5,634.09	7,533.78	7,288.15	245.63	30.672		
9,400.00	7,210.94	7,183.94	7,183.94	126.59	124.41	102.21	-5,617.05	5,634.09	7,535.31	7,289.50	245.81	30.655		
9,450.00	7,247.42	7,220.42	7,220.42	127.35	125.04	97.19	-5,617.05	5,634.09	7,543.13	7,296.08	247.05	30.533		
9,500.00	7,284.35	7,257.35	7,257.35	128.10	125.69	91.94	-5,617.05	5,634.09	7,546.76	7,298.46	248.30	30.394		
9,550.00	7,321.43	7,305.57	7,294.43	128.83	126.53	86.60	-5,617.05	5,634.09	7,546.19	7,296.44	249.75	30.216		
9,600.00	7,358.38	7,331.38	7,331.38	129.52	126.98	81.32	-5,617.05	5,634.09	7,541.41	7,290.62	250.79	30.070		
9,650.00	7,394.93	7,367.93	7,367.93	130.16	127.62	76.24	-5,617.05	5,634.09	7,532.46	7,280.45	252.01	29.890		
9,700.00	7,430.79	7,403.79	7,403.79	130.76	128.24	71.46	-5,617.05	5,634.09	7,519.39	7,266.20	253.19	29.699		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,438.70	7,438.70	131.30	128.85	67.07	-5,617.05	5,634.09	7,502.30	7,247.98	254.32	29.499		
9,800.00	7,499.38	7,472.38	7,472.38	131.78	129.44	63.12	-5,617.05	5,634.09	7,481.31	7,225.91	255.40	29.292		
9,850.00	7,531.58	7,504.58	7,504.58	132.21	130.00	59.62	-5,617.05	5,634.09	7,456.56	7,200.14	256.42	29.080		
9,900.00	7,562.06	7,535.06	7,535.06	132.57	130.53	56.57	-5,617.05	5,634.09	7,428.23	7,170.86	257.36	28.863		
9,950.00	7,590.58	7,563.58	7,563.58	132.87	131.03	53.96	-5,617.05	5,634.09	7,396.51	7,138.28	258.23	28.643		
10,000.00	7,616.93	7,589.93	7,589.93	133.11	131.49	51.76	-5,617.05	5,634.09	7,361.62	7,102.61	259.02	28.422		
10,050.00	7,640.90	7,613.90	7,613.90	133.29	131.91	49.97	-5,617.05	5,634.09	7,323.82	7,064.10	259.71	28.199		
10,100.00	7,662.32	7,635.32	7,635.32	133.42	132.28	48.56	-5,617.05	5,634.09	7,283.37	7,023.04	260.33	27.978		
10,150.00	7,681.01	7,654.01	7,654.01	133.50	132.61	47.55	-5,617.05	5,634.09	7,240.56	6,979.71	260.85	27.758		
10,200.00	7,696.85	7,669.85	7,669.85	133.52	132.89	46.96	-5,617.05	5,634.09	7,195.70	6,934.42	261.28	27.540		
10,250.00	7,709.70	7,682.70	7,682.70	133.51	133.11	46.90	-5,617.05	5,634.09	7,149.12	6,887.49	261.63	27.326		
10,300.00	7,719.47	7,707.53	7,692.47	133.46	133.54	47.64	-5,617.05	5,634.09	7,101.15	6,839.00	262.15	27.088		
10,350.00	7,726.09	7,700.91	7,699.09	133.37	133.43	50.09	-5,617.05	5,634.09	7,052.15	6,790.06	262.09	26.907		
10,400.00	7,729.50	7,702.50	7,702.50	133.26	133.46	59.63	-5,617.05	5,634.09	7,002.49	6,740.34	262.15	26.712		
10,427.79	7,730.00	7,703.00	7,703.00	133.18	133.47	90.00	-5,617.05	5,634.09	6,974.73	6,712.56	262.17	26.604		
10,500.00	7,730.00	7,703.00	7,703.00	132.98	133.47	90.00	-5,617.05	5,634.09	6,902.55	6,640.38	262.18	26.328		
10,600.00	7,730.00	7,703.00	7,703.00	132.72	133.47	90.00	-5,617.05	5,634.09	6,802.60	6,540.40	262.20	25.945		
10,700.00	7,730.00	7,703.00	7,703.00	132.47	133.47	90.00	-5,617.05	5,634.09	6,702.64	6,440.43	262.21	25.562		
10,800.00	7,730.00	7,703.00	7,703.00	132.22	133.47	90.00	-5,617.05	5,634.09	6,602.69	6,340.45	262.23	25.179		
10,900.00	7,730.00	7,703.00	7,703.00	131.99	133.47	90.00	-5,617.05	5,634.09	6,502.74	6,240.48	262.25	24.796		
11,000.00	7,730.00	7,703.00	7,703.00	131.77	133.47	90.00	-5,617.05	5,634.09	6,402.78	6,140.51	262.28	24.412		
11,100.00	7,730.00	7,703.00	7,703.00	131.56	133.47	90.00	-5,617.05	5,634.09	6,302.83	6,040.54	262.30	24.029		
11,200.00	7,730.00	7,703.00	7,703.00	131.36	133.47	90.00	-5,617.05	5,634.09	6,202.89	5,940.57	262.32	23.646		
11,300.00	7,730.00	7,703.00	7,703.00	131.17	133.47	90.00	-5,617.05	5,634.09	6,102.94	5,840.60	262.34	23.263		
11,400.00	7,730.00	7,703.00	7,703.00	130.99	133.47	90.00	-5,617.05	5,634.09	6,003.00	5,740.63	262.37	22.880		
11,500.00	7,730.00	7,703.00	7,703.00	130.82	133.47	90.00	-5,617.05	5,634.09	5,903.05	5,640.66	262.40	22.497		
11,600.00	7,730.00	7,703.00	7,703.00	130.66	133.47	90.00	-5,617.05	5,634.09	5,803.11	5,540.69	262.42	22.114		
11,700.00	7,730.00	7,703.00	7,703.00	130.51	133.47	90.00	-5,617.05	5,634.09	5,703.18	5,440.72	262.45	21.730		
11,800.00	7,730.00	7,703.00	7,703.00	130.37	133.47	90.00	-5,617.05	5,634.09	5,603.24	5,340.76	262.48	21.347		
11,900.00	7,730.00	7,703.00	7,703.00	130.24	133.47	90.00	-5,617.05	5,634.09	5,503.31	5,240.79	262.51	20.964		
12,000.00	7,730.00	7,703.00	7,703.00	130.13	133.47	90.00	-5,617.05	5,634.09	5,403.37	5,140.83	262.54	20.581		
12,100.00	7,730.00	7,703.00	7,703.00	130.02	133.47	90.00	-5,617.05	5,634.09	5,303.44	5,040.87	262.58	20.198		
12,200.00	7,730.00	7,703.00	7,703.00	129.93	133.47	90.00	-5,617.05	5,634.09	5,203.52	4,940.90	262.61	19.814		
12,300.00	7,730.00	7,703.00	7,703.00	129.85	133.47	90.00	-5,617.05	5,634.09	5,103.60	4,840.95	262.65	19.431		
12,400.00	7,730.00	7,703.00	7,703.00	129.77	133.47	90.00	-5,617.05	5,634.09	5,003.68	4,740.99	262.69	19.048		
12,500.00	7,730.00	7,703.00	7,703.00	129.71	133.47	90.00	-5,617.05	5,634.09	4,903.76	4,641.03	262.73	18.665		
12,600.00	7,730.00	7,703.00	7,703.00	129.66	133.47	90.00	-5,617.05	5,634.09	4,803.85	4,541.07	262.77	18.282		
12,700.00	7,730.00	7,703.00	7,703.00	129.63	133.47	90.00	-5,617.05	5,634.09	4,703.94	4,441.12	262.81	17.898		
12,800.00	7,730.00	7,703.00	7,703.00	129.60	133.47	90.00	-5,617.05	5,634.09	4,604.03	4,341.17	262.86	17.515		
12,900.00	7,730.00	7,703.00	7,703.00	129.59	133.47	90.00	-5,617.05	5,634.09	4,504.13	4,241.22	262.91	17.132		
13,000.00	7,730.00	7,703.00	7,703.00	129.59	133.47	90.00	-5,617.05	5,634.09	4,404.23	4,141.27	262.96	16.749		
13,100.00	7,730.00	7,703.00	7,703.00	129.60	133.47	90.00	-5,617.05	5,634.09	4,304.34	4,041.33	263.01	16.366		
13,200.00	7,730.00	7,703.00	7,703.00	129.63	133.47	90.00	-5,617.05	5,634.09	4,204.45	3,941.39	263.06	15.983		
13,300.00	7,730.00	7,703.00	7,703.00	129.66	133.47	90.00	-5,617.05	5,634.09	4,104.57	3,841.45	263.12	15.600		
13,400.00	7,730.00	7,703.00	7,703.00	129.72	133.47	90.00	-5,617.05	5,634.09	4,004.69	3,741.51	263.18	15.217		
13,500.00	7,730.00	7,703.00	7,703.00	129.78	133.47	90.00	-5,617.05	5,634.09	3,904.82	3,641.58	263.24	14.833		
13,600.00	7,730.00	7,703.00	7,703.00	129.86	133.47	90.00	-5,617.05	5,634.09	3,804.96	3,541.65	263.31	14.450		
13,700.00	7,730.00	7,703.00	7,703.00	129.96	133.47	90.00	-5,617.05	5,634.09	3,705.11	3,441.73	263.38	14.068		
13,800.00	7,730.00	7,703.00	7,703.00	130.07	133.47	90.00	-5,617.05	5,634.09	3,605.26	3,341.80	263.45	13.685		
13,900.00	7,730.00	7,703.00	7,703.00	130.19	133.47	90.00	-5,617.05	5,634.09	3,505.42	3,241.89	263.53	13.302		
14,000.00	7,730.00	7,703.00	7,703.00	130.33	133.47	90.00	-5,617.05	5,634.09	3,405.59	3,141.98	263.61	12.919		
14,100.00	7,730.00	7,703.00	7,703.00	130.49	133.47	90.00	-5,617.05	5,634.09	3,305.77	3,042.07	263.70	12.536		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,703.00	7,703.00	130.67	133.47	90.00	-5,617.05	5,634.09	3,205.96	2,942.17	263.79	12.153		
14,300.00	7,730.00	7,703.00	7,703.00	130.86	133.47	90.00	-5,617.05	5,634.09	3,106.17	2,842.28	263.89	11.771		
14,400.00	7,730.00	7,703.00	7,703.00	131.07	133.47	90.00	-5,617.05	5,634.09	3,006.39	2,742.39	263.99	11.388		
14,500.00	7,730.00	7,703.00	7,703.00	131.30	133.47	90.00	-5,617.05	5,634.09	2,906.62	2,642.52	264.10	11.006		
14,600.00	7,730.00	7,703.00	7,703.00	131.55	133.47	90.00	-5,617.05	5,634.09	2,806.87	2,542.65	264.22	10.623		
14,700.00	7,730.00	7,703.00	7,703.00	131.82	133.47	90.00	-5,617.05	5,634.09	2,707.14	2,442.79	264.35	10.241		
14,800.00	7,730.00	7,703.00	7,703.00	132.11	133.47	90.00	-5,617.05	5,634.09	2,607.43	2,342.95	264.48	9.859		
14,900.00	7,730.00	7,703.00	7,703.00	132.42	133.47	90.00	-5,617.05	5,634.09	2,507.74	2,243.12	264.63	9.477		
15,000.00	7,730.00	7,703.00	7,703.00	132.75	133.47	90.00	-5,617.05	5,634.09	2,408.08	2,143.30	264.78	9.095		
15,100.00	7,730.00	7,703.00	7,703.00	133.10	133.47	90.00	-5,617.05	5,634.09	2,308.45	2,043.50	264.95	8.713		
15,200.00	7,730.00	7,703.00	7,703.00	133.48	133.47	90.00	-5,617.05	5,634.09	2,208.85	1,943.71	265.13	8.331		
15,300.00	7,730.00	7,703.00	7,703.00	133.88	133.47	90.00	-5,617.05	5,634.09	2,109.29	1,843.96	265.33	7.950		
15,400.00	7,730.00	7,703.00	7,703.00	134.31	133.47	90.00	-5,617.05	5,634.09	2,009.77	1,744.22	265.55	7.568		
15,500.00	7,730.00	7,703.00	7,703.00	134.76	133.47	90.00	-5,617.05	5,634.09	1,910.30	1,644.52	265.78	7.187		
15,600.00	7,730.00	7,703.00	7,703.00	135.23	133.47	90.00	-5,617.05	5,634.09	1,810.89	1,544.85	266.04	6.807		
15,700.00	7,730.00	7,703.00	7,703.00	135.73	133.47	90.00	-5,617.05	5,634.09	1,711.55	1,445.22	266.33	6.426		
15,800.00	7,730.00	7,703.00	7,703.00	136.26	133.47	90.00	-5,617.05	5,634.09	1,612.29	1,345.64	266.65	6.046		
15,900.00	7,730.00	7,703.00	7,703.00	136.81	133.47	90.00	-5,617.05	5,634.09	1,513.13	1,246.12	267.01	5.667		
16,000.00	7,730.00	7,703.00	7,703.00	137.39	133.47	90.00	-5,617.05	5,634.09	1,414.09	1,146.68	267.41	5.288		
16,100.00	7,730.00	7,703.00	7,703.00	138.00	133.47	90.00	-5,617.05	5,634.09	1,315.19	1,047.33	267.86	4.910		
16,200.00	7,730.00	7,703.00	7,703.00	138.63	133.47	90.00	-5,617.05	5,634.09	1,216.47	948.09	268.38	4.533		
16,300.00	7,730.00	7,703.00	7,703.00	139.30	133.47	90.00	-5,617.05	5,634.09	1,117.98	849.01	268.98	4.156		
16,400.00	7,730.00	7,703.00	7,703.00	139.99	133.47	90.00	-5,617.05	5,634.09	1,019.79	750.12	269.67	3.782		
16,500.00	7,730.00	7,703.00	7,703.00	140.70	133.47	90.00	-5,617.05	5,634.09	921.98	651.50	270.48	3.409		
16,600.00	7,730.00	7,703.00	7,703.00	141.45	133.47	90.00	-5,617.05	5,634.09	824.70	553.26	271.44	3.038		
16,700.00	7,730.00	7,703.00	7,703.00	142.22	133.47	90.00	-5,617.05	5,634.09	728.16	455.57	272.58	2.671		
16,800.00	7,730.00	7,703.00	7,703.00	143.03	133.47	90.00	-5,617.05	5,634.09	632.68	358.74	273.95	2.309		
16,900.00	7,730.00	7,703.00	7,703.00	143.86	133.47	90.00	-5,617.05	5,634.09	538.86	263.29	275.57	1.955		
17,000.00	7,730.00	7,703.00	7,703.00	144.71	133.47	90.00	-5,617.05	5,634.09	447.72	170.33	277.39	1.614		
17,100.00	7,730.00	7,703.00	7,703.00	145.60	133.47	90.00	-5,617.05	5,634.09	361.29	82.26	279.03	1.295 Level 3		
17,200.00	7,730.00	7,703.00	7,703.00	146.51	133.47	90.00	-5,617.05	5,634.09	283.92	5.02	278.90	1.018 Level 2		
17,300.00	7,730.00	7,703.00	7,703.00	147.44	133.47	90.00	-5,617.05	5,634.09	225.15	-46.61	271.76	0.828 Level 1		
17,399.60	7,730.00	7,703.00	7,703.00	148.40	133.47	90.00	-5,617.05	5,634.09	201.92	-48.80	250.72	0.805 Level 1, CC, ES, SF		
17,400.00	7,730.00	7,703.00	7,703.00	148.40	133.47	90.00	-5,617.05	5,634.09	201.92	-48.70	250.62	0.806 Level 1		
17,500.00	7,730.00	7,703.00	7,703.00	149.39	133.47	90.00	-5,617.05	5,634.09	225.50	-4.67	230.17	0.980 Level 1		
17,600.00	7,730.00	7,703.00	7,703.00	150.40	133.47	90.00	-5,617.05	5,634.09	284.48	56.86	227.62	1.250 Level 2		
17,700.00	7,730.00	7,703.00	7,703.00	151.44	133.47	90.00	-5,617.05	5,634.09	361.95	129.42	232.53	1.557		
17,800.00	7,730.00	7,703.00	7,703.00	152.50	133.47	90.00	-5,617.05	5,634.09	448.43	210.84	237.59	1.887		
17,900.00	7,730.00	7,703.00	7,703.00	153.58	133.47	90.00	-5,617.05	5,634.09	539.60	298.05	241.55	2.234		
18,000.00	7,730.00	7,703.00	7,703.00	154.68	133.47	90.00	-5,617.05	5,634.09	633.44	388.92	244.53	2.590		
18,100.00	7,730.00	7,703.00	7,703.00	155.80	133.47	90.00	-5,617.05	5,634.09	728.92	482.13	246.80	2.954		
18,200.00	7,730.00	7,703.00	7,703.00	156.95	133.47	90.00	-5,617.05	5,634.09	825.48	576.92	248.56	3.321		
18,300.00	7,730.00	7,703.00	7,703.00	158.11	133.47	90.00	-5,617.05	5,634.09	922.76	672.80	249.96	3.692		
18,400.00	7,730.00	7,703.00	7,703.00	159.30	133.47	90.00	-5,617.05	5,634.09	1,020.57	769.47	251.10	4.064		
18,500.00	7,730.00	7,703.00	7,703.00	160.50	133.47	90.00	-5,617.05	5,634.09	1,118.77	866.73	252.04	4.439		
18,600.00	7,730.00	7,703.00	7,703.00	161.72	133.47	90.00	-5,617.05	5,634.09	1,217.26	964.43	252.83	4.814		
18,700.00	7,730.00	7,703.00	7,703.00	162.96	133.47	90.00	-5,617.05	5,634.09	1,315.98	1,062.48	253.51	5.191		
18,800.00	7,730.00	7,703.00	7,703.00	164.21	133.47	90.00	-5,617.05	5,634.09	1,414.88	1,160.80	254.09	5.569		
18,900.00	7,730.00	7,703.00	7,703.00	165.48	133.47	90.00	-5,617.05	5,634.09	1,513.93	1,259.34	254.59	5.947		
19,000.00	7,730.00	7,703.00	7,703.00	166.76	133.47	90.00	-5,617.05	5,634.09	1,613.09	1,358.06	255.03	6.325		
19,100.00	7,730.00	7,703.00	7,703.00	168.06	133.47	90.00	-5,617.05	5,634.09	1,712.35	1,456.92	255.42	6.704		
19,200.00	7,730.00	7,703.00	7,703.00	169.38	133.47	90.00	-5,617.05	5,634.09	1,811.69	1,555.91	255.78	7.083		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,703.00	7,703.00	170.70	133.47	90.00	-5,617.05	5,634.09	1,911.10	1,655.01	256.09	7.463	
19,400.00	7,730.00	7,703.00	7,703.00	172.04	133.47	90.00	-5,617.05	5,634.09	2,010.57	1,754.19	256.38	7.842	
19,500.00	7,730.00	7,703.00	7,703.00	173.40	133.47	90.00	-5,617.05	5,634.09	2,110.08	1,853.45	256.64	8.222	
19,600.00	7,730.00	7,703.00	7,703.00	174.76	133.47	90.00	-5,617.05	5,634.09	2,209.65	1,952.77	256.87	8.602	
19,700.00	7,730.00	7,703.00	7,703.00	176.14	133.47	90.00	-5,617.05	5,634.09	2,309.25	2,052.15	257.09	8.982	
19,800.00	7,730.00	7,703.00	7,703.00	177.52	133.47	90.00	-5,617.05	5,634.09	2,408.88	2,151.59	257.29	9.362	
19,900.00	7,730.00	7,703.00	7,703.00	178.92	133.47	90.00	-5,617.05	5,634.09	2,508.54	2,251.06	257.48	9.743	
20,000.00	7,730.00	7,703.00	7,703.00	180.33	133.47	90.00	-5,617.05	5,634.09	2,608.23	2,350.58	257.65	10.123	
20,100.00	7,730.00	7,703.00	7,703.00	181.75	133.47	90.00	-5,617.05	5,634.09	2,707.94	2,450.12	257.82	10.503	
20,184.95	7,730.00	7,703.00	7,703.00	182.96	133.47	90.00	-5,617.05	5,634.09	2,792.66	2,534.72	257.94	10.827	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.78	-4,823.07	4,860.67	6,847.64					
100.00	100.00	54.00	54.00	0.13	0.41	134.78	-4,823.07	4,860.67	6,847.49	6,846.94	0.55	N/A		
200.00	199.98	153.98	153.98	0.49	1.71	64.35	-4,823.07	4,860.67	6,846.73	6,844.53	2.20	3,111.705		
300.00	299.84	253.84	253.84	0.86	3.45	64.43	-4,823.07	4,860.67	6,844.47	6,840.16	4.31	1,589.584		
400.00	399.45	353.45	353.45	1.23	5.19	64.56	-4,823.07	4,860.67	6,840.70	6,834.28	6.42	1,065.721		
500.00	498.70	452.70	452.70	1.63	6.92	64.75	-4,823.07	4,860.67	6,835.45	6,826.91	8.54	800.232		
600.00	597.47	551.47	551.47	2.05	8.65	64.99	-4,823.07	4,860.67	6,828.74	6,818.06	10.68	639.518		
700.00	695.62	649.62	649.62	2.51	10.36	65.28	-4,823.07	4,860.67	6,820.60	6,807.77	12.83	531.599		
800.00	793.06	747.06	747.06	3.00	12.06	65.63	-4,823.07	4,860.67	6,811.05	6,796.05	15.00	454.009		
900.00	889.64	843.64	843.64	3.53	13.75	66.02	-4,823.07	4,860.67	6,800.14	6,782.94	17.20	395.453		
1,000.00	985.27	939.27	939.27	4.12	15.42	66.46	-4,823.07	4,860.67	6,787.91	6,768.50	19.41	349.634		
1,100.00	1,079.82	1,033.82	1,033.82	4.75	17.07	66.95	-4,823.07	4,860.67	6,774.42	6,752.76	21.66	312.761		
1,200.00	1,173.17	1,127.17	1,127.17	5.44	18.70	67.49	-4,823.07	4,860.67	6,759.72	6,735.78	23.93	282.420		
1,300.00	1,265.21	1,219.21	1,219.21	6.18	20.30	68.07	-4,823.07	4,860.67	6,743.87	6,717.63	26.24	256.995		
1,400.00	1,355.84	1,309.84	1,309.84	6.99	21.88	68.70	-4,823.07	4,860.67	6,726.94	6,698.36	28.58	235.369		
1,500.00	1,444.94	1,401.06	1,398.94	7.87	23.48	69.37	-4,823.07	4,860.67	6,709.00	6,678.01	30.99	216.480		
1,600.00	1,532.39	1,486.39	1,486.39	8.80	24.97	70.08	-4,823.07	4,860.67	6,690.14	6,656.77	33.36	200.522		
1,700.00	1,618.11	1,572.11	1,572.11	9.81	26.46	70.82	-4,823.07	4,860.67	6,670.42	6,634.61	35.81	186.273		
1,800.00	1,701.97	1,655.97	1,655.97	10.89	27.92	71.59	-4,823.07	4,860.67	6,649.94	6,611.65	38.29	173.655		
1,900.00	1,783.88	1,737.88	1,737.88	12.04	29.35	72.40	-4,823.07	4,860.67	6,628.79	6,587.98	40.82	162.406		
2,000.00	1,863.74	1,817.74	1,817.74	13.26	30.75	73.23	-4,823.07	4,860.67	6,607.06	6,563.69	43.38	152.318		
2,100.00	1,941.45	1,904.55	1,895.45	14.55	32.26	74.09	-4,823.07	4,860.67	6,584.85	6,538.72	46.13	142.731		
2,200.00	2,016.92	1,970.92	1,970.92	15.92	33.42	74.96	-4,823.07	4,860.67	6,562.26	6,513.65	48.61	134.989		
2,292.11	2,084.36	2,038.36	2,038.36	17.25	34.60	75.78	-4,823.07	4,860.67	6,541.20	6,490.13	51.08	128.070		
2,300.00	2,090.06	2,044.06	2,044.06	17.36	34.70	75.81	-4,823.07	4,860.67	6,539.39	6,488.10	51.29	127.504		
2,400.00	2,162.18	2,116.18	2,116.18	18.84	35.96	76.25	-4,823.07	4,860.67	6,516.81	6,462.82	53.99	120.704		
2,500.00	2,234.31	2,188.31	2,188.31	20.33	37.22	76.69	-4,823.07	4,860.67	6,494.89	6,438.18	56.71	114.526		
2,600.00	2,306.43	2,260.43	2,260.43	21.83	38.47	77.13	-4,823.07	4,860.67	6,473.63	6,414.18	59.45	108.895		
2,700.00	2,378.56	2,332.56	2,332.56	23.33	39.73	77.57	-4,823.07	4,860.67	6,453.05	6,390.85	62.20	103.746		
2,800.00	2,450.68	2,404.68	2,404.68	24.84	40.99	78.01	-4,823.07	4,860.67	6,433.15	6,368.18	64.97	99.024		
2,900.00	2,522.81	2,476.81	2,476.81	26.36	42.25	78.46	-4,823.07	4,860.67	6,413.94	6,346.19	67.74	94.682		
3,000.00	2,594.93	2,548.93	2,548.93	27.88	43.51	78.90	-4,823.07	4,860.67	6,395.41	6,324.88	70.53	90.679		
3,100.00	2,667.06	2,621.06	2,621.06	29.40	44.77	79.35	-4,823.07	4,860.67	6,377.59	6,304.27	73.32	86.978		
3,200.00	2,739.18	2,706.82	2,693.18	30.92	46.27	79.80	-4,823.07	4,860.67	6,360.47	6,284.10	76.37	83.289		
3,300.00	2,811.31	2,765.31	2,765.31	32.45	47.29	80.25	-4,823.07	4,860.67	6,344.06	6,265.12	78.94	80.366		
3,400.00	2,883.43	2,837.43	2,837.43	33.98	48.55	80.70	-4,823.07	4,860.67	6,328.37	6,246.61	81.76	77.404		
3,500.00	2,955.56	2,909.56	2,909.56	35.51	49.80	81.15	-4,823.07	4,860.67	6,313.39	6,228.81	84.58	74.643		
3,600.00	3,027.68	2,981.68	2,981.68	37.04	51.06	81.61	-4,823.07	4,860.67	6,299.15	6,211.74	87.41	72.064		
3,700.00	3,099.81	3,053.81	3,053.81	38.57	52.32	82.06	-4,823.07	4,860.67	6,285.63	6,195.39	90.24	69.651		
3,800.00	3,171.93	3,125.93	3,125.93	40.11	53.58	82.52	-4,823.07	4,860.67	6,272.85	6,179.77	93.08	67.391		
3,900.00	3,244.06	3,201.94	3,198.06	41.64	54.91	82.97	-4,823.07	4,860.67	6,260.81	6,164.82	95.99	65.224		
4,000.00	3,316.18	3,270.18	3,270.18	43.18	56.10	83.43	-4,823.07	4,860.67	6,249.52	6,150.76	98.76	63.277		
4,100.00	3,388.31	3,342.31	3,342.31	44.71	57.36	83.89	-4,823.07	4,860.67	6,238.97	6,137.36	101.61	61.402		
4,200.00	3,460.43	3,414.43	3,414.43	46.25	58.62	84.35	-4,823.07	4,860.67	6,229.18	6,124.73	104.46	59.635		
4,300.00	3,532.56	3,486.56	3,486.56	47.79	59.87	84.81	-4,823.07	4,860.67	6,220.14	6,112.84	107.30	57.969		
4,400.00	3,604.68	3,558.68	3,558.68	49.33	61.13	85.27	-4,823.07	4,860.67	6,211.87	6,101.72	110.15	56.396		
4,500.00	3,676.81	3,630.81	3,630.81	50.87	62.39	85.73	-4,823.07	4,860.67	6,204.35	6,091.36	112.99	54.909		
4,600.00	3,748.93	3,702.93	3,702.93	52.41	63.65	86.19	-4,823.07	4,860.67	6,197.60	6,081.76	115.84	53.503		
4,700.00	3,821.06	3,775.06	3,775.06	53.95	64.91	86.65	-4,823.07	4,860.67	6,191.62	6,072.94	118.68	52.171		
4,800.00	3,893.18	3,847.18	3,847.18	55.49	66.17	87.12	-4,823.07	4,860.67	6,186.40	6,064.88	121.52	50.909		
4,900.00	3,965.31	3,919.31	3,919.31	57.03	67.43	87.58	-4,823.07	4,860.67	6,181.96	6,057.61	124.35	49.712		
5,000.00	4,037.43	4,008.57	3,991.43	58.58	68.99	88.04	-4,823.07	4,860.67	6,178.29	6,050.81	127.49	48.462		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,063.56	4,063.56	60.12	69.95	88.50	-4,823.07	4,860.67	6,175.40	6,045.38	130.02	47.497		
5,200.00	4,181.68	4,135.68	4,135.68	61.66	71.20	88.97	-4,823.07	4,860.67	6,173.28	6,040.44	132.84	46.472		
5,300.00	4,253.81	4,207.81	4,207.81	63.20	72.46	89.43	-4,823.07	4,860.67	6,171.94	6,036.29	135.66	45.497		
5,400.00	4,325.93	4,279.93	4,279.93	64.75	73.72	89.90	-4,823.07	4,860.67	6,171.38	6,032.91	138.47	44.569		
5,422.48	4,342.14	4,303.86	4,296.14	65.09	74.14	90.00	-4,823.07	4,860.67	6,171.36	6,032.13	139.23	44.324		
5,500.00	4,398.06	4,352.06	4,352.06	66.29	74.98	90.36	-4,823.07	4,860.67	6,171.59	6,030.32	141.27	43.686		
5,600.00	4,470.18	4,424.18	4,424.18	67.84	76.24	90.82	-4,823.07	4,860.67	6,172.58	6,028.51	144.07	42.845		
5,700.00	4,542.31	4,503.69	4,496.31	69.38	77.63	91.29	-4,823.07	4,860.67	6,174.35	6,027.36	146.99	42.006		
5,800.00	4,614.43	4,568.43	4,568.43	70.92	78.76	91.75	-4,823.07	4,860.67	6,176.90	6,027.26	149.64	41.278		
5,900.00	4,686.56	4,640.56	4,640.56	72.47	80.02	92.21	-4,823.07	4,860.67	6,180.22	6,027.80	152.41	40.549		
6,000.00	4,758.68	4,712.68	4,712.68	74.01	81.27	92.68	-4,823.07	4,860.67	6,184.31	6,029.13	155.17	39.854		
6,100.00	4,830.81	4,784.81	4,784.81	75.56	82.53	93.14	-4,823.07	4,860.67	6,189.18	6,031.25	157.93	39.190		
6,200.00	4,902.93	4,856.93	4,856.93	77.10	83.79	93.60	-4,823.07	4,860.67	6,194.81	6,034.14	160.67	38.556		
6,300.00	4,975.06	4,929.06	4,929.06	78.65	85.05	94.06	-4,823.07	4,860.67	6,201.22	6,037.82	163.40	37.951		
6,400.00	5,047.18	5,001.18	5,001.18	80.19	86.31	94.52	-4,823.07	4,860.67	6,208.39	6,042.27	166.12	37.372		
6,500.00	5,119.31	5,073.31	5,073.31	81.74	87.57	94.99	-4,823.07	4,860.67	6,216.33	6,047.50	168.83	36.819		
6,600.00	5,191.43	5,145.43	5,145.43	83.28	88.83	95.45	-4,823.07	4,860.67	6,225.02	6,053.49	171.53	36.291		
6,700.00	5,263.56	5,217.56	5,217.56	84.83	90.09	95.90	-4,823.07	4,860.67	6,234.48	6,060.26	174.21	35.786		
6,800.00	5,335.68	5,289.68	5,289.68	86.37	91.34	96.36	-4,823.07	4,860.67	6,244.69	6,067.80	176.89	35.304		
6,900.00	5,407.81	5,361.81	5,361.81	87.92	92.60	96.82	-4,823.07	4,860.67	6,255.64	6,076.10	179.54	34.842		
7,000.00	5,479.93	5,433.93	5,433.93	89.47	93.86	97.28	-4,823.07	4,860.67	6,267.35	6,085.16	182.19	34.400		
7,100.00	5,552.06	5,506.06	5,506.06	91.01	95.12	97.73	-4,823.07	4,860.67	6,279.80	6,094.98	184.82	33.978		
7,200.00	5,624.18	5,578.18	5,578.18	92.56	96.38	98.19	-4,823.07	4,860.67	6,292.98	6,105.54	187.44	33.574		
7,300.00	5,696.31	5,650.31	5,650.31	94.10	97.64	98.64	-4,823.07	4,860.67	6,306.90	6,116.86	190.04	33.187		
7,400.00	5,768.43	5,722.43	5,722.43	95.65	98.90	99.10	-4,823.07	4,860.67	6,321.55	6,128.92	192.63	32.817		
7,500.00	5,840.56	5,805.44	5,794.56	97.20	100.35	99.55	-4,823.07	4,860.67	6,336.92	6,141.53	195.39	32.432		
7,600.00	5,912.68	5,866.68	5,866.68	98.74	101.42	100.00	-4,823.07	4,860.67	6,353.01	6,155.25	197.76	32.125		
7,700.00	5,984.81	5,938.81	5,938.81	100.29	102.67	100.45	-4,823.07	4,860.67	6,369.81	6,169.50	200.30	31.801		
7,800.00	6,056.93	6,010.93	6,010.93	101.84	103.93	100.89	-4,823.07	4,860.67	6,387.31	6,184.48	202.83	31.491		
7,900.00	6,129.06	6,083.06	6,083.06	103.38	105.19	101.34	-4,823.07	4,860.67	6,405.52	6,200.18	205.34	31.195		
8,000.00	6,201.18	6,155.18	6,155.18	104.93	106.45	101.79	-4,823.07	4,860.67	6,424.43	6,216.59	207.84	30.911		
8,100.00	6,273.31	6,227.31	6,227.31	106.48	107.71	102.23	-4,823.07	4,860.67	6,444.02	6,233.70	210.32	30.640		
8,200.00	6,345.43	6,300.57	6,299.43	108.02	108.99	102.67	-4,823.07	4,860.67	6,464.30	6,251.50	212.80	30.377		
8,300.00	6,417.56	6,371.56	6,371.56	109.57	110.23	103.11	-4,823.07	4,860.67	6,485.25	6,270.02	215.23	30.132		
8,400.00	6,489.68	6,443.68	6,443.68	111.12	111.49	103.55	-4,823.07	4,860.67	6,506.87	6,289.21	217.66	29.895		
8,500.00	6,561.81	6,515.81	6,515.81	112.66	112.74	103.99	-4,823.07	4,860.67	6,529.16	6,309.08	220.07	29.668		
8,600.00	6,633.93	6,587.93	6,587.93	114.21	114.00	104.43	-4,823.07	4,860.67	6,552.10	6,329.63	222.47	29.451		
8,700.00	6,706.06	6,660.06	6,660.06	115.76	115.26	104.86	-4,823.07	4,860.67	6,575.69	6,350.84	224.86	29.244		
8,800.00	6,778.18	6,732.18	6,732.18	117.30	116.52	105.29	-4,823.07	4,860.67	6,599.93	6,372.70	227.22	29.046		
8,900.00	6,850.31	6,804.31	6,804.31	118.85	117.78	105.72	-4,823.07	4,860.67	6,624.80	6,395.22	229.57	28.857		
9,000.00	6,922.43	6,876.43	6,876.43	120.40	119.04	106.15	-4,823.07	4,860.67	6,650.30	6,418.39	231.91	28.677		
9,100.00	6,994.56	6,948.56	6,948.56	121.95	120.30	106.58	-4,823.07	4,860.67	6,676.42	6,442.19	234.23	28.504		
9,200.00	7,066.68	7,020.68	7,020.68	123.49	121.56	107.00	-4,823.07	4,860.67	6,703.15	6,466.62	236.53	28.340		
9,300.00	7,138.81	7,107.19	7,092.81	125.04	123.07	107.43	-4,823.07	4,860.67	6,730.49	6,491.43	239.06	28.153		
9,392.50	7,205.52	7,159.52	7,159.52	126.47	123.98	107.82	-4,823.07	4,860.67	6,756.31	6,515.40	240.91	28.044		
9,400.00	7,210.94	7,164.94	7,164.94	126.59	124.07	107.08	-4,823.07	4,860.67	6,758.38	6,517.30	241.08	28.033		
9,450.00	7,247.42	7,201.42	7,201.42	127.35	124.71	101.98	-4,823.07	4,860.67	6,769.84	6,527.61	242.23	27.948		
9,500.00	7,284.35	7,238.35	7,238.35	128.10	125.36	96.70	-4,823.07	4,860.67	6,777.17	6,533.77	243.40	27.844		
9,550.00	7,321.43	7,275.43	7,275.43	128.83	126.00	91.37	-4,823.07	4,860.67	6,780.34	6,535.77	244.57	27.723		
9,600.00	7,358.38	7,312.38	7,312.38	129.52	126.65	86.12	-4,823.07	4,860.67	6,779.33	6,533.59	245.74	27.587		
9,650.00	7,394.93	7,348.93	7,348.93	130.16	127.29	81.11	-4,823.07	4,860.67	6,774.14	6,527.25	246.89	27.438		
9,700.00	7,430.79	7,384.79	7,384.79	130.76	127.91	76.44	-4,823.07	4,860.67	6,764.82	6,516.80	248.01	27.276		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,419.70	7,419.70	131.30	128.52	72.19	-4,823.07	4,860.67	6,751.42	6,502.33	249.10	27.104		
9,800.00	7,499.38	7,453.38	7,453.38	131.78	129.11	68.43	-4,823.07	4,860.67	6,734.06	6,483.93	250.13	26.922		
9,850.00	7,531.58	7,485.58	7,485.58	132.21	129.67	65.18	-4,823.07	4,860.67	6,712.84	6,461.74	251.11	26.733		
9,900.00	7,562.06	7,516.06	7,516.06	132.57	130.20	62.44	-4,823.07	4,860.67	6,687.92	6,435.91	252.02	26.538		
9,950.00	7,590.58	7,544.58	7,544.58	132.87	130.70	60.21	-4,823.07	4,860.67	6,659.48	6,406.62	252.86	26.337		
10,000.00	7,616.93	7,570.93	7,570.93	133.11	131.16	58.49	-4,823.07	4,860.67	6,627.70	6,374.08	253.62	26.132		
10,050.00	7,640.90	7,605.10	7,594.90	133.29	131.76	57.29	-4,823.07	4,860.67	6,592.82	6,338.34	254.48	25.907		
10,100.00	7,662.32	7,616.32	7,616.32	133.42	131.95	56.65	-4,823.07	4,860.67	6,555.08	6,300.17	254.90	25.716		
10,150.00	7,681.01	7,635.01	7,635.01	133.50	132.28	56.63	-4,823.07	4,860.67	6,514.74	6,259.32	255.42	25.506		
10,200.00	7,696.85	7,650.85	7,650.85	133.52	132.56	57.36	-4,823.07	4,860.67	6,472.09	6,216.24	255.85	25.296		
10,250.00	7,709.70	7,663.70	7,663.70	133.51	132.78	59.09	-4,823.07	4,860.67	6,427.44	6,171.24	256.20	25.088		
10,300.00	7,719.47	7,673.47	7,673.47	133.46	132.95	62.33	-4,823.07	4,860.67	6,381.10	6,124.64	256.47	24.881		
10,350.00	7,726.09	7,680.09	7,680.09	133.37	133.07	68.19	-4,823.07	4,860.67	6,333.41	6,076.76	256.65	24.677		
10,400.00	7,729.50	7,683.50	7,683.50	133.26	133.12	79.33	-4,823.07	4,860.67	6,284.72	6,027.96	256.76	24.477		
10,427.79	7,730.00	7,684.00	7,684.00	133.18	133.13	90.00	-4,823.07	4,860.67	6,257.34	6,000.56	256.79	24.368		
10,500.00	7,730.00	7,684.00	7,684.00	132.98	133.13	90.00	-4,823.07	4,860.67	6,186.04	5,929.20	256.83	24.086		
10,600.00	7,730.00	7,684.00	7,684.00	132.72	133.13	90.00	-4,823.07	4,860.67	6,087.31	5,830.42	256.89	23.696		
10,700.00	7,730.00	7,684.00	7,684.00	132.47	133.13	90.00	-4,823.07	4,860.67	5,988.64	5,731.68	256.96	23.306		
10,800.00	7,730.00	7,684.00	7,684.00	132.22	133.13	90.00	-4,823.07	4,860.67	5,890.00	5,632.98	257.02	22.916		
10,900.00	7,730.00	7,684.00	7,684.00	131.99	133.13	90.00	-4,823.07	4,860.67	5,791.41	5,534.32	257.09	22.527		
11,000.00	7,730.00	7,684.00	7,684.00	131.77	133.13	90.00	-4,823.07	4,860.67	5,692.87	5,435.71	257.16	22.137		
11,100.00	7,730.00	7,684.00	7,684.00	131.56	133.13	90.00	-4,823.07	4,860.67	5,594.39	5,337.15	257.23	21.748		
11,200.00	7,730.00	7,684.00	7,684.00	131.36	133.13	90.00	-4,823.07	4,860.67	5,495.95	5,238.64	257.31	21.359		
11,300.00	7,730.00	7,684.00	7,684.00	131.17	133.13	90.00	-4,823.07	4,860.67	5,397.58	5,140.19	257.39	20.971		
11,400.00	7,730.00	7,684.00	7,684.00	130.99	133.13	90.00	-4,823.07	4,860.67	5,299.27	5,041.80	257.47	20.582		
11,500.00	7,730.00	7,684.00	7,684.00	130.82	133.13	90.00	-4,823.07	4,860.67	5,201.02	4,943.47	257.55	20.194		
11,600.00	7,730.00	7,684.00	7,684.00	130.66	133.13	90.00	-4,823.07	4,860.67	5,102.84	4,845.20	257.63	19.806		
11,700.00	7,730.00	7,684.00	7,684.00	130.51	133.13	90.00	-4,823.07	4,860.67	5,004.73	4,747.00	257.72	19.419		
11,800.00	7,730.00	7,684.00	7,684.00	130.37	133.13	90.00	-4,823.07	4,860.67	4,906.69	4,648.88	257.81	19.032		
11,900.00	7,730.00	7,684.00	7,684.00	130.24	133.13	90.00	-4,823.07	4,860.67	4,808.74	4,550.83	257.91	18.645		
12,000.00	7,730.00	7,684.00	7,684.00	130.13	133.13	90.00	-4,823.07	4,860.67	4,710.87	4,452.87	258.01	18.259		
12,100.00	7,730.00	7,684.00	7,684.00	130.02	133.13	90.00	-4,823.07	4,860.67	4,613.10	4,354.99	258.11	17.873		
12,200.00	7,730.00	7,684.00	7,684.00	129.93	133.13	90.00	-4,823.07	4,860.67	4,515.42	4,257.21	258.21	17.487		
12,300.00	7,730.00	7,684.00	7,684.00	129.85	133.13	90.00	-4,823.07	4,860.67	4,417.85	4,159.53	258.32	17.102		
12,400.00	7,730.00	7,684.00	7,684.00	129.77	133.13	90.00	-4,823.07	4,860.67	4,320.39	4,061.96	258.43	16.718		
12,500.00	7,730.00	7,684.00	7,684.00	129.71	133.13	90.00	-4,823.07	4,860.67	4,223.04	3,964.50	258.54	16.334		
12,600.00	7,730.00	7,684.00	7,684.00	129.66	133.13	90.00	-4,823.07	4,860.67	4,125.83	3,867.17	258.66	15.951		
12,700.00	7,730.00	7,684.00	7,684.00	129.63	133.13	90.00	-4,823.07	4,860.67	4,028.75	3,769.96	258.79	15.568		
12,800.00	7,730.00	7,684.00	7,684.00	129.60	133.13	90.00	-4,823.07	4,860.67	3,931.81	3,672.90	258.91	15.186		
12,900.00	7,730.00	7,684.00	7,684.00	129.59	133.13	90.00	-4,823.07	4,860.67	3,835.04	3,575.99	259.04	14.805		
13,000.00	7,730.00	7,684.00	7,684.00	129.59	133.13	90.00	-4,823.07	4,860.67	3,738.43	3,479.25	259.18	14.424		
13,100.00	7,730.00	7,684.00	7,684.00	129.60	133.13	90.00	-4,823.07	4,860.67	3,642.01	3,382.69	259.32	14.044		
13,200.00	7,730.00	7,684.00	7,684.00	129.63	133.13	90.00	-4,823.07	4,860.67	3,545.78	3,286.32	259.46	13.666		
13,300.00	7,730.00	7,684.00	7,684.00	129.66	133.13	90.00	-4,823.07	4,860.67	3,449.77	3,190.16	259.61	13.288		
13,400.00	7,730.00	7,684.00	7,684.00	129.72	133.13	90.00	-4,823.07	4,860.67	3,353.99	3,094.23	259.77	12.912		
13,500.00	7,730.00	7,684.00	7,684.00	129.78	133.13	90.00	-4,823.07	4,860.67	3,258.47	2,998.55	259.92	12.536		
13,600.00	7,730.00	7,684.00	7,684.00	129.86	133.13	90.00	-4,823.07	4,860.67	3,163.22	2,903.14	260.09	12.162		
13,700.00	7,730.00	7,684.00	7,684.00	129.96	133.13	90.00	-4,823.07	4,860.67	3,068.28	2,808.03	260.25	11.790		
13,800.00	7,730.00	7,684.00	7,684.00	130.07	133.13	90.00	-4,823.07	4,860.67	2,973.67	2,713.24	260.43	11.418		
13,900.00	7,730.00	7,684.00	7,684.00	130.19	133.13	90.00	-4,823.07	4,860.67	2,879.42	2,618.82	260.60	11.049		
14,000.00	7,730.00	7,684.00	7,684.00	130.33	133.13	90.00	-4,823.07	4,860.67	2,785.57	2,524.79	260.78	10.682		
14,100.00	7,730.00	7,684.00	7,684.00	130.49	133.13	90.00	-4,823.07	4,860.67	2,692.17	2,431.21	260.96	10.316		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-INC-ONLY													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,684.00	7,684.00	130.67	133.13	90.00	-4,823.07	4,860.67	2,599.25	2,338.11	261.14	9.953		
14,300.00	7,730.00	7,684.00	7,684.00	130.86	133.13	90.00	-4,823.07	4,860.67	2,506.88	2,245.56	261.32	9.593		
14,400.00	7,730.00	7,684.00	7,684.00	131.07	133.13	90.00	-4,823.07	4,860.67	2,415.12	2,153.62	261.50	9.236		
14,500.00	7,730.00	7,684.00	7,684.00	131.30	133.13	90.00	-4,823.07	4,860.67	2,324.04	2,062.36	261.68	8.881		
14,600.00	7,730.00	7,684.00	7,684.00	131.55	133.13	90.00	-4,823.07	4,860.67	2,233.72	1,971.88	261.85	8.531		
14,700.00	7,730.00	7,684.00	7,684.00	131.82	133.13	90.00	-4,823.07	4,860.67	2,144.26	1,882.26	262.00	8.184		
14,800.00	7,730.00	7,684.00	7,684.00	132.11	133.13	90.00	-4,823.07	4,860.67	2,055.78	1,793.63	262.15	7.842		
14,900.00	7,730.00	7,684.00	7,684.00	132.42	133.13	90.00	-4,823.07	4,860.67	1,968.39	1,706.13	262.26	7.505		
15,000.00	7,730.00	7,684.00	7,684.00	132.75	133.13	90.00	-4,823.07	4,860.67	1,882.27	1,619.92	262.35	7.175		
15,100.00	7,730.00	7,684.00	7,684.00	133.10	133.13	90.00	-4,823.07	4,860.67	1,797.58	1,535.19	262.39	6.851		
15,200.00	7,730.00	7,684.00	7,684.00	133.48	133.13	90.00	-4,823.07	4,860.67	1,714.54	1,452.16	262.38	6.535		
15,300.00	7,730.00	7,684.00	7,684.00	133.88	133.13	90.00	-4,823.07	4,860.67	1,633.40	1,371.11	262.29	6.228		
15,400.00	7,730.00	7,684.00	7,684.00	134.31	133.13	90.00	-4,823.07	4,860.67	1,554.46	1,292.36	262.10	5.931		
15,500.00	7,730.00	7,684.00	7,684.00	134.76	133.13	90.00	-4,823.07	4,860.67	1,478.07	1,216.30	261.78	5.646		
15,600.00	7,730.00	7,684.00	7,684.00	135.23	133.13	90.00	-4,823.07	4,860.67	1,404.65	1,143.36	261.29	5.376		
15,700.00	7,730.00	7,684.00	7,684.00	135.73	133.13	90.00	-4,823.07	4,860.67	1,334.69	1,074.10	260.59	5.122		
15,800.00	7,730.00	7,684.00	7,684.00	136.26	133.13	90.00	-4,823.07	4,860.67	1,268.76	1,009.13	259.64	4.887		
15,900.00	7,730.00	7,684.00	7,684.00	136.81	133.13	90.00	-4,823.07	4,860.67	1,207.52	949.16	258.36	4.674		
16,000.00	7,730.00	7,684.00	7,684.00	137.39	133.13	90.00	-4,823.07	4,860.67	1,151.72	895.02	256.70	4.487		
16,100.00	7,730.00	7,684.00	7,684.00	138.00	133.13	90.00	-4,823.07	4,860.67	1,102.19	847.58	254.61	4.329		
16,200.00	7,730.00	7,684.00	7,684.00	138.63	133.13	90.00	-4,823.07	4,860.67	1,059.80	807.75	252.05	4.205		
16,300.00	7,730.00	7,684.00	7,684.00	139.30	133.13	90.00	-4,823.07	4,860.67	1,025.44	776.40	249.03	4.118		
16,400.00	7,730.00	7,684.00	7,684.00	139.99	133.13	90.00	-4,823.07	4,860.67	999.94	754.32	245.62	4.071		
16,500.00	7,730.00	7,684.00	7,684.00	140.70	133.13	90.00	-4,823.07	4,860.67	983.99	742.04	241.95	4.067 SF		
16,600.00	7,730.00	7,684.00	7,684.00	141.45	133.13	90.00	-4,823.07	4,860.67	978.05	739.84	238.21	4.106 ES		
16,608.23	7,730.00	7,684.00	7,684.00	141.51	133.13	90.00	-4,823.07	4,860.67	978.02	740.11	237.90	4.111 CC		
16,700.00	7,730.00	7,684.00	7,684.00	142.22	133.13	90.00	-4,823.07	4,860.67	982.31	747.66	234.65	4.186		
16,800.00	7,730.00	7,684.00	7,684.00	143.03	133.13	90.00	-4,823.07	4,860.67	996.64	765.14	231.50	4.305		
16,900.00	7,730.00	7,684.00	7,684.00	143.86	133.13	90.00	-4,823.07	4,860.67	1,020.61	791.65	228.96	4.458		
17,000.00	7,730.00	7,684.00	7,684.00	144.71	133.13	90.00	-4,823.07	4,860.67	1,053.56	826.45	227.11	4.639		
17,100.00	7,730.00	7,684.00	7,684.00	145.60	133.13	90.00	-4,823.07	4,860.67	1,094.69	868.72	225.97	4.844		
17,200.00	7,730.00	7,684.00	7,684.00	146.51	133.13	90.00	-4,823.07	4,860.67	1,143.11	917.64	225.47	5.070		
17,300.00	7,730.00	7,684.00	7,684.00	147.44	133.13	90.00	-4,823.07	4,860.67	1,197.94	972.46	225.48	5.313		
17,400.00	7,730.00	7,684.00	7,684.00	148.40	133.13	90.00	-4,823.07	4,860.67	1,258.33	1,032.45	225.89	5.571		
17,500.00	7,730.00	7,684.00	7,684.00	149.39	133.13	90.00	-4,823.07	4,860.67	1,323.54	1,096.97	226.57	5.842		
17,600.00	7,730.00	7,684.00	7,684.00	150.40	133.13	90.00	-4,823.07	4,860.67	1,392.88	1,165.45	227.43	6.124		
17,700.00	7,730.00	7,684.00	7,684.00	151.44	133.13	90.00	-4,823.07	4,860.67	1,465.76	1,237.37	228.39	6.418		
17,800.00	7,730.00	7,684.00	7,684.00	152.50	133.13	90.00	-4,823.07	4,860.67	1,541.69	1,312.29	229.40	6.720		
17,900.00	7,730.00	7,684.00	7,684.00	153.58	133.13	90.00	-4,823.07	4,860.67	1,620.24	1,389.81	230.42	7.032		
18,000.00	7,730.00	7,684.00	7,684.00	154.68	133.13	90.00	-4,823.07	4,860.67	1,701.04	1,469.61	231.43	7.350		
18,100.00	7,730.00	7,684.00	7,684.00	155.80	133.13	90.00	-4,823.07	4,860.67	1,783.78	1,551.38	232.40	7.676		
18,200.00	7,730.00	7,684.00	7,684.00	156.95	133.13	90.00	-4,823.07	4,860.67	1,868.22	1,634.89	233.33	8.007		
18,300.00	7,730.00	7,684.00	7,684.00	158.11	133.13	90.00	-4,823.07	4,860.67	1,954.12	1,719.91	234.21	8.344		
18,400.00	7,730.00	7,684.00	7,684.00	159.30	133.13	90.00	-4,823.07	4,860.67	2,041.31	1,806.27	235.04	8.685		
18,500.00	7,730.00	7,684.00	7,684.00	160.50	133.13	90.00	-4,823.07	4,860.67	2,129.62	1,893.80	235.82	9.031		
18,600.00	7,730.00	7,684.00	7,684.00	161.72	133.13	90.00	-4,823.07	4,860.67	2,218.93	1,982.37	236.55	9.380		
18,700.00	7,730.00	7,684.00	7,684.00	162.96	133.13	90.00	-4,823.07	4,860.67	2,309.11	2,071.87	237.24	9.733		
18,800.00	7,730.00	7,684.00	7,684.00	164.21	133.13	90.00	-4,823.07	4,860.67	2,400.07	2,162.18	237.89	10.089		
18,900.00	7,730.00	7,684.00	7,684.00	165.48	133.13	90.00	-4,823.07	4,860.67	2,491.73	2,253.23	238.49	10.448		
19,000.00	7,730.00	7,684.00	7,684.00	166.76	133.13	90.00	-4,823.07	4,860.67	2,584.00	2,344.94	239.06	10.809		
19,100.00	7,730.00	7,684.00	7,684.00	168.06	133.13	90.00	-4,823.07	4,860.67	2,676.83	2,437.23	239.60	11.172		
19,200.00	7,730.00	7,684.00	7,684.00	169.38	133.13	90.00	-4,823.07	4,860.67	2,770.16	2,530.06	240.10	11.538		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,684.00	7,684.00	170.70	133.13	90.00	-4,823.07	4,860.67	2,863.93	2,623.36	240.57	11.905	
19,400.00	7,730.00	7,684.00	7,684.00	172.04	133.13	90.00	-4,823.07	4,860.67	2,958.12	2,717.11	241.01	12.274	
19,500.00	7,730.00	7,684.00	7,684.00	173.40	133.13	90.00	-4,823.07	4,860.67	3,052.67	2,811.24	241.43	12.644	
19,600.00	7,730.00	7,684.00	7,684.00	174.76	133.13	90.00	-4,823.07	4,860.67	3,147.57	2,905.74	241.83	13.016	
19,700.00	7,730.00	7,684.00	7,684.00	176.14	133.13	90.00	-4,823.07	4,860.67	3,242.77	3,000.56	242.20	13.389	
19,800.00	7,730.00	7,684.00	7,684.00	177.52	133.13	90.00	-4,823.07	4,860.67	3,338.25	3,095.69	242.55	13.763	
19,900.00	7,730.00	7,684.00	7,684.00	178.92	133.13	90.00	-4,823.07	4,860.67	3,433.98	3,191.09	242.89	14.138	
20,000.00	7,730.00	7,684.00	7,684.00	180.33	133.13	90.00	-4,823.07	4,860.67	3,529.96	3,286.75	243.21	14.514	
20,100.00	7,730.00	7,684.00	7,684.00	181.75	133.13	90.00	-4,823.07	4,860.67	3,626.15	3,382.64	243.51	14.891	
20,184.95	7,730.00	7,684.00	7,684.00	182.96	133.13	90.00	-4,823.07	4,860.67	3,708.02	3,464.27	243.76	15.212	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	143.36	-4,087.49	3,040.21	5,094.20					
100.00	100.00	79.00	79.00	0.13	0.61	143.36	-4,087.49	3,040.21	5,094.16	5,093.41	0.75	6,810.392		
200.00	199.98	178.98	178.98	0.49	2.16	72.93	-4,087.49	3,040.21	5,093.65	5,091.00	2.65	1,925.604		
300.00	299.84	278.84	278.84	0.86	3.90	73.02	-4,087.49	3,040.21	5,092.11	5,087.36	4.75	1,071.889		
400.00	399.45	378.45	378.45	1.23	5.64	73.16	-4,087.49	3,040.21	5,089.57	5,082.71	6.86	741.393		
500.00	498.70	477.70	477.70	1.63	7.37	73.36	-4,087.49	3,040.21	5,086.04	5,077.04	8.99	565.679		
600.00	597.47	576.47	576.47	2.05	9.09	73.61	-4,087.49	3,040.21	5,081.54	5,070.40	11.13	456.450		
700.00	695.62	674.62	674.62	2.51	10.81	73.92	-4,087.49	3,040.21	5,076.11	5,062.82	13.29	381.846		
800.00	793.06	772.06	772.06	3.00	12.51	74.28	-4,087.49	3,040.21	5,069.80	5,054.32	15.48	327.569		
900.00	889.64	868.64	868.64	3.53	14.19	74.69	-4,087.49	3,040.21	5,062.65	5,044.96	17.69	286.249		
1,000.00	985.27	964.27	964.27	4.12	15.86	75.15	-4,087.49	3,040.21	5,054.72	5,034.80	19.92	253.703		
1,100.00	1,079.82	1,058.82	1,058.82	4.75	17.51	75.66	-4,087.49	3,040.21	5,046.08	5,023.89	22.19	227.377		
1,200.00	1,173.17	1,152.17	1,152.17	5.44	19.14	76.21	-4,087.49	3,040.21	5,036.79	5,012.30	24.49	205.629		
1,300.00	1,265.21	1,244.21	1,244.21	6.18	20.75	76.80	-4,087.49	3,040.21	5,026.93	5,000.10	26.83	187.349		
1,400.00	1,355.84	1,334.84	1,334.84	6.99	22.33	77.43	-4,087.49	3,040.21	5,016.59	4,987.39	29.21	171.765		
1,500.00	1,444.94	1,423.94	1,423.94	7.87	23.88	78.10	-4,087.49	3,040.21	5,005.86	4,974.24	31.62	158.320		
1,600.00	1,532.39	1,511.39	1,511.39	8.80	25.41	78.80	-4,087.49	3,040.21	4,994.83	4,960.76	34.07	146.602		
1,700.00	1,618.11	1,602.89	1,597.11	9.81	27.01	79.52	-4,087.49	3,040.21	4,983.60	4,946.94	36.66	135.927		
1,800.00	1,701.97	1,680.97	1,680.97	10.89	28.37	80.26	-4,087.49	3,040.21	4,972.28	4,933.18	39.10	127.183		
1,900.00	1,783.88	1,762.88	1,762.88	12.04	29.80	81.03	-4,087.49	3,040.21	4,960.97	4,919.30	41.67	119.057		
2,000.00	1,863.74	1,842.74	1,842.74	13.26	31.19	81.80	-4,087.49	3,040.21	4,949.80	4,905.51	44.28	111.778		
2,100.00	1,941.45	1,920.45	1,920.45	14.55	32.55	82.59	-4,087.49	3,040.21	4,938.87	4,891.93	46.94	105.227		
2,200.00	2,016.92	2,004.08	1,995.92	15.92	34.01	83.37	-4,087.49	3,040.21	4,928.30	4,878.54	49.77	99.024		
2,292.11	2,084.36	2,063.36	2,063.36	17.25	35.04	84.09	-4,087.49	3,040.21	4,919.00	4,866.86	52.14	94.347		
2,300.00	2,090.06	2,069.06	2,069.06	17.36	35.14	84.14	-4,087.49	3,040.21	4,918.23	4,865.87	52.35	93.943		
2,400.00	2,162.18	2,141.18	2,141.18	18.84	36.40	84.72	-4,087.49	3,040.21	4,908.94	4,853.84	55.11	89.083		
2,500.00	2,234.31	2,213.31	2,213.31	20.33	37.66	85.30	-4,087.49	3,040.21	4,900.62	4,842.75	57.87	84.683		
2,600.00	2,306.43	2,285.43	2,285.43	21.83	38.92	85.89	-4,087.49	3,040.21	4,893.26	4,832.61	60.65	80.687		
2,700.00	2,378.56	2,357.56	2,357.56	23.33	40.18	86.47	-4,087.49	3,040.21	4,886.87	4,823.44	63.43	77.047		
2,800.00	2,450.68	2,429.68	2,429.68	24.84	41.44	87.06	-4,087.49	3,040.21	4,881.46	4,815.24	66.22	73.721		
2,900.00	2,522.81	2,501.81	2,501.81	26.36	42.70	87.64	-4,087.49	3,040.21	4,877.02	4,808.01	69.01	70.674		
3,000.00	2,594.93	2,573.93	2,573.93	27.88	43.95	88.23	-4,087.49	3,040.21	4,873.57	4,801.76	71.80	67.877		
3,100.00	2,667.06	2,646.06	2,646.06	29.40	45.21	88.82	-4,087.49	3,040.21	4,871.09	4,796.50	74.59	65.301		
3,200.00	2,739.18	2,718.18	2,718.18	30.92	46.47	89.41	-4,087.49	3,040.21	4,869.60	4,792.22	77.39	62.925		
3,300.00	2,811.31	2,809.69	2,790.31	32.45	48.07	89.99	-4,087.49	3,040.21	4,869.10	4,788.58	80.52	60.473		
3,301.07	2,812.08	2,808.92	2,791.08	32.46	48.06	90.00	-4,087.49	3,040.21	4,869.10	4,788.58	80.52	60.471		
3,400.00	2,883.43	2,862.43	2,862.43	33.98	48.99	90.58	-4,087.49	3,040.21	4,869.58	4,786.62	82.97	58.693		
3,500.00	2,955.56	2,934.56	2,934.56	35.51	50.25	91.17	-4,087.49	3,040.21	4,871.05	4,785.30	85.75	56.805		
3,600.00	3,027.68	3,006.68	3,006.68	37.04	51.51	91.76	-4,087.49	3,040.21	4,873.50	4,784.97	88.53	55.051		
3,700.00	3,099.81	3,078.81	3,078.81	38.57	52.77	92.34	-4,087.49	3,040.21	4,876.94	4,785.64	91.30	53.417		
3,800.00	3,171.93	3,150.93	3,150.93	40.11	54.03	92.93	-4,087.49	3,040.21	4,881.35	4,787.29	94.06	51.895		
3,900.00	3,244.06	3,223.06	3,223.06	41.64	55.28	93.52	-4,087.49	3,040.21	4,886.74	4,789.92	96.82	50.473		
4,000.00	3,316.18	3,304.82	3,295.18	43.18	56.71	94.10	-4,087.49	3,040.21	4,893.11	4,793.38	99.73	49.062		
4,100.00	3,388.31	3,367.31	3,367.31	44.71	57.80	94.69	-4,087.49	3,040.21	4,900.45	4,798.15	102.30	47.903		
4,200.00	3,460.43	3,439.43	3,439.43	46.25	59.06	95.27	-4,087.49	3,040.21	4,908.75	4,803.73	105.03	46.739		
4,300.00	3,532.56	3,511.56	3,511.56	47.79	60.32	95.85	-4,087.49	3,040.21	4,918.02	4,810.28	107.74	45.648		
4,400.00	3,604.68	3,583.68	3,583.68	49.33	61.58	96.43	-4,087.49	3,040.21	4,928.24	4,817.80	110.44	44.624		
4,500.00	3,676.81	3,655.81	3,655.81	50.87	62.84	97.01	-4,087.49	3,040.21	4,939.42	4,826.29	113.13	43.662		
4,600.00	3,748.93	3,727.93	3,727.93	52.41	64.10	97.59	-4,087.49	3,040.21	4,951.53	4,835.73	115.80	42.759		
4,700.00	3,821.06	3,800.06	3,800.06	53.95	65.35	98.17	-4,087.49	3,040.21	4,964.59	4,846.12	118.46	41.909		
4,800.00	3,893.18	3,872.18	3,872.18	55.49	66.61	98.74	-4,087.49	3,040.21	4,978.57	4,857.46	121.11	41.109		
4,900.00	3,965.31	3,944.31	3,944.31	57.03	67.87	99.32	-4,087.49	3,040.21	4,993.47	4,869.74	123.74	40.356		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,016.43	4,016.43	58.58	69.13	99.89	-4,087.49	3,040.21	5,009.29	4,882.94	126.35	39.647		
5,100.00	4,109.56	4,088.56	4,088.56	60.12	70.39	100.46	-4,087.49	3,040.21	5,026.02	4,897.07	128.95	38.978		
5,200.00	4,181.68	4,160.68	4,160.68	61.66	71.65	101.03	-4,087.49	3,040.21	5,043.64	4,912.11	131.53	38.347		
5,300.00	4,253.81	4,232.81	4,232.81	63.20	72.91	101.59	-4,087.49	3,040.21	5,062.14	4,928.05	134.09	37.752		
5,400.00	4,325.93	4,304.93	4,304.93	64.75	74.17	102.15	-4,087.49	3,040.21	5,081.53	4,944.89	136.63	37.191		
5,500.00	4,398.06	4,377.06	4,377.06	66.29	75.43	102.71	-4,087.49	3,040.21	5,101.78	4,962.61	139.16	36.661		
5,600.00	4,470.18	4,449.18	4,449.18	67.84	76.68	103.27	-4,087.49	3,040.21	5,122.88	4,981.21	141.67	36.160		
5,700.00	4,542.31	4,521.31	4,521.31	69.38	77.94	103.83	-4,087.49	3,040.21	5,144.83	5,000.67	144.16	35.687		
5,800.00	4,614.43	4,606.57	4,593.43	70.92	79.43	104.38	-4,087.49	3,040.21	5,167.62	5,020.76	146.87	35.186		
5,900.00	4,686.56	4,665.56	4,665.56	72.47	80.46	104.93	-4,087.49	3,040.21	5,191.23	5,042.14	149.09	34.819		
6,000.00	4,758.68	4,737.68	4,737.68	74.01	81.72	105.48	-4,087.49	3,040.21	5,215.66	5,064.13	151.53	34.420		
6,100.00	4,830.81	4,809.81	4,809.81	75.56	82.98	106.02	-4,087.49	3,040.21	5,240.89	5,086.94	153.95	34.044		
6,200.00	4,902.93	4,881.93	4,881.93	77.10	84.24	106.56	-4,087.49	3,040.21	5,266.90	5,110.56	156.35	33.688		
6,300.00	4,975.06	4,954.06	4,954.06	78.65	85.50	107.10	-4,087.49	3,040.21	5,293.70	5,134.97	158.73	33.351		
6,400.00	5,047.18	5,026.18	5,026.18	80.19	86.75	107.64	-4,087.49	3,040.21	5,321.26	5,160.18	161.09	33.034		
6,500.00	5,119.31	5,101.69	5,098.31	81.74	88.07	108.17	-4,087.49	3,040.21	5,349.58	5,186.09	163.49	32.721		
6,600.00	5,191.43	5,170.43	5,170.43	83.28	89.27	108.70	-4,087.49	3,040.21	5,378.64	5,212.89	165.75	32.450		
6,700.00	5,263.56	5,242.56	5,242.56	84.83	90.53	109.23	-4,087.49	3,040.21	5,408.43	5,240.37	168.06	32.182		
6,800.00	5,335.68	5,314.68	5,314.68	86.37	91.79	109.75	-4,087.49	3,040.21	5,438.94	5,268.60	170.35	31.929		
6,900.00	5,407.81	5,386.81	5,386.81	87.92	93.05	110.27	-4,087.49	3,040.21	5,470.16	5,297.54	172.61	31.690		
7,000.00	5,479.93	5,458.93	5,458.93	89.47	94.31	110.78	-4,087.49	3,040.21	5,502.07	5,327.21	174.87	31.465		
7,100.00	5,552.06	5,531.06	5,531.06	91.01	95.57	111.30	-4,087.49	3,040.21	5,534.67	5,357.57	177.10	31.252		
7,200.00	5,624.18	5,603.18	5,603.18	92.56	96.83	111.80	-4,087.49	3,040.21	5,567.93	5,388.62	179.31	31.051		
7,300.00	5,696.31	5,675.31	5,675.31	94.10	98.08	112.31	-4,087.49	3,040.21	5,601.86	5,420.35	181.51	30.862		
7,400.00	5,768.43	5,747.43	5,747.43	95.65	99.34	112.81	-4,087.49	3,040.21	5,636.43	5,452.74	183.69	30.684		
7,500.00	5,840.56	5,819.56	5,819.56	97.20	100.60	113.31	-4,087.49	3,040.21	5,671.64	5,485.78	185.86	30.516		
7,600.00	5,912.68	5,908.32	5,891.68	98.74	102.15	113.80	-4,087.49	3,040.21	5,707.47	5,519.18	188.29	30.312		
7,700.00	5,984.81	5,963.81	5,963.81	100.29	103.12	114.29	-4,087.49	3,040.21	5,743.91	5,553.78	190.13	30.210		
7,800.00	6,056.93	6,035.93	6,035.93	101.84	104.38	114.78	-4,087.49	3,040.21	5,780.96	5,588.71	192.25	30.071		
7,900.00	6,129.06	6,108.06	6,108.06	103.38	105.64	115.26	-4,087.49	3,040.21	5,818.59	5,624.24	194.34	29.940		
8,000.00	6,201.18	6,180.18	6,180.18	104.93	106.90	115.74	-4,087.49	3,040.21	5,856.80	5,660.37	196.43	29.817		
8,100.00	6,273.31	6,252.31	6,252.31	106.48	108.15	116.22	-4,087.49	3,040.21	5,895.57	5,697.08	198.49	29.702		
8,200.00	6,345.43	6,324.43	6,324.43	108.02	109.41	116.69	-4,087.49	3,040.21	5,934.90	5,734.36	200.54	29.594		
8,300.00	6,417.56	6,403.44	6,396.56	109.57	110.79	117.15	-4,087.49	3,040.21	5,974.78	5,772.08	202.70	29.476		
8,400.00	6,489.68	6,468.68	6,468.68	111.12	111.93	117.62	-4,087.49	3,040.21	6,015.19	5,810.58	204.60	29.399		
8,500.00	6,561.81	6,540.81	6,540.81	112.66	113.19	118.08	-4,087.49	3,040.21	6,056.12	5,849.50	206.61	29.311		
8,600.00	6,633.93	6,612.93	6,612.93	114.21	114.45	118.53	-4,087.49	3,040.21	6,097.56	5,888.95	208.61	29.230		
8,700.00	6,706.06	6,685.06	6,685.06	115.76	115.71	118.98	-4,087.49	3,040.21	6,139.51	5,928.92	210.59	29.154		
8,800.00	6,778.18	6,757.18	6,757.18	117.30	116.97	119.43	-4,087.49	3,040.21	6,181.94	5,969.39	212.56	29.084		
8,900.00	6,850.31	6,829.31	6,829.31	118.85	118.23	119.88	-4,087.49	3,040.21	6,224.86	6,010.35	214.51	29.019		
9,000.00	6,922.43	6,901.43	6,901.43	120.40	119.48	120.32	-4,087.49	3,040.21	6,268.25	6,051.80	216.45	28.959		
9,100.00	6,994.56	6,973.56	6,973.56	121.95	120.74	120.75	-4,087.49	3,040.21	6,312.10	6,093.72	218.38	28.904		
9,200.00	7,066.68	7,045.68	7,045.68	123.49	122.00	121.18	-4,087.49	3,040.21	6,356.40	6,136.10	220.30	28.853		
9,300.00	7,138.81	7,117.81	7,117.81	125.04	123.26	121.61	-4,087.49	3,040.21	6,401.15	6,178.94	222.21	28.807		
9,392.50	7,205.52	7,184.52	7,184.52	126.47	124.42	122.01	-4,087.49	3,040.21	6,442.93	6,218.96	223.96	28.768		
9,400.00	7,210.94	7,189.94	7,189.94	126.59	124.52	121.16	-4,087.49	3,040.21	6,446.29	6,222.19	224.10	28.765		
9,450.00	7,247.42	7,226.42	7,226.42	127.35	125.16	115.49	-4,087.49	3,040.21	6,466.59	6,241.52	225.07	28.732		
9,500.00	7,284.35	7,263.35	7,263.35	128.10	125.80	109.75	-4,087.49	3,040.21	6,483.15	6,257.09	226.06	28.679		
9,550.00	7,321.43	7,300.43	7,300.43	128.83	126.45	104.07	-4,087.49	3,040.21	6,495.85	6,268.78	227.06	28.608		
9,600.00	7,358.38	7,337.38	7,337.38	129.52	127.09	98.57	-4,087.49	3,040.21	6,504.62	6,276.54	228.07	28.520		
9,650.00	7,394.93	7,373.93	7,373.93	130.16	127.73	93.39	-4,087.49	3,040.21	6,509.41	6,280.34	229.07	28.416		
9,700.00	7,430.79	7,409.79	7,409.79	130.76	128.36	88.63	-4,087.49	3,040.21	6,510.22	6,280.17	230.05	28.299		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,444.70	7,444.70	131.30	128.97	84.37	-4,087.49	3,040.21	6,507.04	6,276.04	231.00	28.169		
9,800.00	7,499.38	7,478.38	7,478.38	131.78	129.55	80.67	-4,087.49	3,040.21	6,499.92	6,268.00	231.91	28.027		
9,850.00	7,531.58	7,510.58	7,510.58	132.21	130.12	77.54	-4,087.49	3,040.21	6,488.90	6,256.13	232.78	27.876		
9,900.00	7,562.06	7,541.06	7,541.06	132.57	130.65	74.99	-4,087.49	3,040.21	6,474.10	6,240.51	233.58	27.717		
9,950.00	7,590.58	7,569.58	7,569.58	132.87	131.15	73.03	-4,087.49	3,040.21	6,455.60	6,221.28	234.32	27.550		
10,000.00	7,616.93	7,604.07	7,595.93	133.11	131.75	71.64	-4,087.49	3,040.21	6,433.57	6,198.43	235.14	27.361		
10,050.00	7,640.90	7,619.90	7,619.90	133.29	132.02	70.83	-4,087.49	3,040.21	6,408.14	6,172.55	235.59	27.200		
10,100.00	7,662.32	7,641.32	7,641.32	133.42	132.40	70.62	-4,087.49	3,040.21	6,379.51	6,143.40	236.11	27.019		
10,150.00	7,681.01	7,660.01	7,660.01	133.50	132.72	71.05	-4,087.49	3,040.21	6,347.87	6,111.32	236.55	26.835		
10,200.00	7,696.85	7,675.85	7,675.85	133.52	133.00	72.17	-4,087.49	3,040.21	6,313.46	6,076.55	236.91	26.649		
10,250.00	7,709.70	7,688.70	7,688.70	133.51	133.22	74.08	-4,087.49	3,040.21	6,276.51	6,039.32	237.19	26.462		
10,300.00	7,719.47	7,701.53	7,698.47	133.46	133.45	76.92	-4,087.49	3,040.21	6,237.27	5,999.83	237.44	26.269		
10,350.00	7,726.09	7,705.09	7,705.09	133.37	133.51	80.90	-4,087.49	3,040.21	6,196.03	5,958.52	237.51	26.087		
10,400.00	7,729.50	7,708.50	7,708.50	133.26	133.57	86.28	-4,087.49	3,040.21	6,153.06	5,915.50	237.56	25.901		
10,427.79	7,730.00	7,709.00	7,709.00	133.18	133.58	90.00	-4,087.49	3,040.21	6,128.54	5,890.99	237.56	25.798		
10,500.00	7,730.00	7,709.00	7,709.00	132.98	133.58	90.00	-4,087.49	3,040.21	6,064.41	5,826.89	237.52	25.532		
10,600.00	7,730.00	7,709.00	7,709.00	132.72	133.58	90.00	-4,087.49	3,040.21	5,975.89	5,738.43	237.46	25.166		
10,700.00	7,730.00	7,709.00	7,709.00	132.47	133.58	90.00	-4,087.49	3,040.21	5,887.74	5,650.34	237.41	24.800		
10,800.00	7,730.00	7,709.00	7,709.00	132.22	133.58	90.00	-4,087.49	3,040.21	5,799.98	5,562.63	237.35	24.437		
10,900.00	7,730.00	7,709.00	7,709.00	131.99	133.58	90.00	-4,087.49	3,040.21	5,712.62	5,475.33	237.28	24.075		
11,000.00	7,730.00	7,709.00	7,709.00	131.77	133.58	90.00	-4,087.49	3,040.21	5,625.68	5,388.46	237.22	23.715		
11,100.00	7,730.00	7,709.00	7,709.00	131.56	133.58	90.00	-4,087.49	3,040.21	5,539.18	5,302.03	237.15	23.357		
11,200.00	7,730.00	7,709.00	7,709.00	131.36	133.58	90.00	-4,087.49	3,040.21	5,453.14	5,216.06	237.08	23.002		
11,300.00	7,730.00	7,709.00	7,709.00	131.17	133.58	90.00	-4,087.49	3,040.21	5,367.58	5,130.58	237.00	22.648		
11,400.00	7,730.00	7,709.00	7,709.00	130.99	133.58	90.00	-4,087.49	3,040.21	5,282.53	5,045.61	236.92	22.297		
11,500.00	7,730.00	7,709.00	7,709.00	130.82	133.58	90.00	-4,087.49	3,040.21	5,198.02	4,961.18	236.84	21.948		
11,600.00	7,730.00	7,709.00	7,709.00	130.66	133.58	90.00	-4,087.49	3,040.21	5,114.06	4,877.31	236.75	21.601		
11,700.00	7,730.00	7,709.00	7,709.00	130.51	133.58	90.00	-4,087.49	3,040.21	5,030.69	4,794.04	236.66	21.257		
11,800.00	7,730.00	7,709.00	7,709.00	130.37	133.58	90.00	-4,087.49	3,040.21	4,947.94	4,711.38	236.56	20.916		
11,900.00	7,730.00	7,709.00	7,709.00	130.24	133.58	90.00	-4,087.49	3,040.21	4,865.84	4,629.38	236.46	20.578		
12,000.00	7,730.00	7,709.00	7,709.00	130.13	133.58	90.00	-4,087.49	3,040.21	4,784.41	4,548.06	236.35	20.243		
12,100.00	7,730.00	7,709.00	7,709.00	130.02	133.58	90.00	-4,087.49	3,040.21	4,703.70	4,467.47	236.24	19.911		
12,200.00	7,730.00	7,709.00	7,709.00	129.93	133.58	90.00	-4,087.49	3,040.21	4,623.75	4,387.63	236.12	19.583		
12,300.00	7,730.00	7,709.00	7,709.00	129.85	133.58	90.00	-4,087.49	3,040.21	4,544.59	4,308.60	235.99	19.258		
12,400.00	7,730.00	7,709.00	7,709.00	129.77	133.58	90.00	-4,087.49	3,040.21	4,466.27	4,230.41	235.86	18.936		
12,500.00	7,730.00	7,709.00	7,709.00	129.71	133.58	90.00	-4,087.49	3,040.21	4,388.82	4,153.11	235.72	18.619		
12,600.00	7,730.00	7,709.00	7,709.00	129.66	133.58	90.00	-4,087.49	3,040.21	4,312.31	4,076.74	235.57	18.306		
12,700.00	7,730.00	7,709.00	7,709.00	129.63	133.58	90.00	-4,087.49	3,040.21	4,236.77	4,001.36	235.41	17.997		
12,800.00	7,730.00	7,709.00	7,709.00	129.60	133.58	90.00	-4,087.49	3,040.21	4,162.27	3,927.02	235.25	17.693		
12,900.00	7,730.00	7,709.00	7,709.00	129.59	133.58	90.00	-4,087.49	3,040.21	4,088.85	3,853.77	235.08	17.394		
13,000.00	7,730.00	7,709.00	7,709.00	129.59	133.58	90.00	-4,087.49	3,040.21	4,016.58	3,781.69	234.90	17.099		
13,100.00	7,730.00	7,709.00	7,709.00	129.60	133.58	90.00	-4,087.49	3,040.21	3,945.53	3,710.82	234.71	16.811		
13,200.00	7,730.00	7,709.00	7,709.00	129.63	133.58	90.00	-4,087.49	3,040.21	3,875.75	3,641.24	234.51	16.527		
13,300.00	7,730.00	7,709.00	7,709.00	129.66	133.58	90.00	-4,087.49	3,040.21	3,807.32	3,573.02	234.29	16.250		
13,400.00	7,730.00	7,709.00	7,709.00	129.72	133.58	90.00	-4,087.49	3,040.21	3,740.31	3,506.23	234.07	15.979		
13,500.00	7,730.00	7,709.00	7,709.00	129.78	133.58	90.00	-4,087.49	3,040.21	3,674.80	3,440.95	233.84	15.715		
13,600.00	7,730.00	7,709.00	7,709.00	129.86	133.58	90.00	-4,087.49	3,040.21	3,610.87	3,377.27	233.60	15.457		
13,700.00	7,730.00	7,709.00	7,709.00	129.96	133.58	90.00	-4,087.49	3,040.21	3,548.60	3,315.26	233.35	15.207		
13,800.00	7,730.00	7,709.00	7,709.00	130.07	133.58	90.00	-4,087.49	3,040.21	3,488.10	3,255.01	233.09	14.965		
13,900.00	7,730.00	7,709.00	7,709.00	130.19	133.58	90.00	-4,087.49	3,040.21	3,429.44	3,196.63	232.81	14.730		
14,000.00	7,730.00	7,709.00	7,709.00	130.33	133.58	90.00	-4,087.49	3,040.21	3,372.73	3,140.20	232.53	14.504		
14,100.00	7,730.00	7,709.00	7,709.00	130.49	133.58	90.00	-4,087.49	3,040.21	3,318.06	3,085.82	232.24	14.287		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,709.00	7,709.00	130.67	133.58	90.00	-4,087.49	3,040.21	3,265.54	3,033.61	231.94	14.079		
14,300.00	7,730.00	7,709.00	7,709.00	130.86	133.58	90.00	-4,087.49	3,040.21	3,215.28	2,983.65	231.63	13.881		
14,400.00	7,730.00	7,709.00	7,709.00	131.07	133.58	90.00	-4,087.49	3,040.21	3,167.37	2,936.06	231.31	13.693		
14,500.00	7,730.00	7,709.00	7,709.00	131.30	133.58	90.00	-4,087.49	3,040.21	3,121.94	2,890.95	230.99	13.515		
14,600.00	7,730.00	7,709.00	7,709.00	131.55	133.58	90.00	-4,087.49	3,040.21	3,079.08	2,848.41	230.66	13.349		
14,700.00	7,730.00	7,709.00	7,709.00	131.82	133.58	90.00	-4,087.49	3,040.21	3,038.91	2,808.57	230.34	13.193		
14,800.00	7,730.00	7,709.00	7,709.00	132.11	133.58	90.00	-4,087.49	3,040.21	3,001.53	2,771.52	230.01	13.050		
14,900.00	7,730.00	7,709.00	7,709.00	132.42	133.58	90.00	-4,087.49	3,040.21	2,967.06	2,737.37	229.68	12.918		
15,000.00	7,730.00	7,709.00	7,709.00	132.75	133.58	90.00	-4,087.49	3,040.21	2,935.59	2,706.22	229.36	12.799		
15,100.00	7,730.00	7,709.00	7,709.00	133.10	133.58	90.00	-4,087.49	3,040.21	2,907.21	2,678.16	229.05	12.692		
15,200.00	7,730.00	7,709.00	7,709.00	133.48	133.58	90.00	-4,087.49	3,040.21	2,882.04	2,653.29	228.75	12.599		
15,300.00	7,730.00	7,709.00	7,709.00	133.88	133.58	90.00	-4,087.49	3,040.21	2,860.13	2,631.67	228.46	12.519		
15,400.00	7,730.00	7,709.00	7,709.00	134.31	133.58	90.00	-4,087.49	3,040.21	2,841.58	2,613.39	228.19	12.453		
15,500.00	7,730.00	7,709.00	7,709.00	134.76	133.58	90.00	-4,087.49	3,040.21	2,826.45	2,598.51	227.94	12.400		
15,600.00	7,730.00	7,709.00	7,709.00	135.23	133.58	90.00	-4,087.49	3,040.21	2,814.80	2,587.08	227.71	12.361		
15,700.00	7,730.00	7,709.00	7,709.00	135.73	133.58	90.00	-4,087.49	3,040.21	2,806.65	2,579.14	227.51	12.336		
15,800.00	7,730.00	7,709.00	7,709.00	136.26	133.58	90.00	-4,087.49	3,040.21	2,802.06	2,574.73	227.33	12.326 SF		
15,878.82	7,730.00	7,709.00	7,709.00	136.69	133.58	90.00	-4,087.49	3,040.21	2,800.95	2,573.74	227.22	12.327 CC, ES		
15,900.00	7,730.00	7,709.00	7,709.00	136.81	133.58	90.00	-4,087.49	3,040.21	2,801.03	2,573.84	227.19	12.329		
16,000.00	7,730.00	7,709.00	7,709.00	137.39	133.58	90.00	-4,087.49	3,040.21	2,803.57	2,576.50	227.07	12.347		
16,100.00	7,730.00	7,709.00	7,709.00	138.00	133.58	90.00	-4,087.49	3,040.21	2,809.67	2,582.68	226.99	12.378		
16,200.00	7,730.00	7,709.00	7,709.00	138.63	133.58	90.00	-4,087.49	3,040.21	2,819.31	2,592.37	226.94	12.423		
16,300.00	7,730.00	7,709.00	7,709.00	139.30	133.58	90.00	-4,087.49	3,040.21	2,832.44	2,605.53	226.92	12.482		
16,400.00	7,730.00	7,709.00	7,709.00	139.99	133.58	90.00	-4,087.49	3,040.21	2,849.03	2,622.10	226.93	12.555		
16,500.00	7,730.00	7,709.00	7,709.00	140.70	133.58	90.00	-4,087.49	3,040.21	2,869.01	2,642.04	226.97	12.641		
16,600.00	7,730.00	7,709.00	7,709.00	141.45	133.58	90.00	-4,087.49	3,040.21	2,892.31	2,665.27	227.04	12.739		
16,700.00	7,730.00	7,709.00	7,709.00	142.22	133.58	90.00	-4,087.49	3,040.21	2,918.85	2,691.71	227.14	12.851		
16,800.00	7,730.00	7,709.00	7,709.00	143.03	133.58	90.00	-4,087.49	3,040.21	2,948.54	2,721.29	227.26	12.974		
16,900.00	7,730.00	7,709.00	7,709.00	143.86	133.58	90.00	-4,087.49	3,040.21	2,981.30	2,753.90	227.40	13.110		
17,000.00	7,730.00	7,709.00	7,709.00	144.71	133.58	90.00	-4,087.49	3,040.21	3,017.01	2,789.45	227.57	13.258		
17,100.00	7,730.00	7,709.00	7,709.00	145.60	133.58	90.00	-4,087.49	3,040.21	3,055.59	2,827.84	227.75	13.416		
17,200.00	7,730.00	7,709.00	7,709.00	146.51	133.58	90.00	-4,087.49	3,040.21	3,096.91	2,868.96	227.95	13.586		
17,300.00	7,730.00	7,709.00	7,709.00	147.44	133.58	90.00	-4,087.49	3,040.21	3,140.87	2,912.72	228.16	13.766		
17,400.00	7,730.00	7,709.00	7,709.00	148.40	133.58	90.00	-4,087.49	3,040.21	3,187.37	2,958.99	228.38	13.956		
17,500.00	7,730.00	7,709.00	7,709.00	149.39	133.58	90.00	-4,087.49	3,040.21	3,236.29	3,007.68	228.61	14.156		
17,600.00	7,730.00	7,709.00	7,709.00	150.40	133.58	90.00	-4,087.49	3,040.21	3,287.52	3,058.67	228.85	14.366		
17,700.00	7,730.00	7,709.00	7,709.00	151.44	133.58	90.00	-4,087.49	3,040.21	3,340.96	3,111.88	229.09	14.584		
17,800.00	7,730.00	7,709.00	7,709.00	152.50	133.58	90.00	-4,087.49	3,040.21	3,396.51	3,167.18	229.33	14.811		
17,900.00	7,730.00	7,709.00	7,709.00	153.58	133.58	90.00	-4,087.49	3,040.21	3,454.06	3,224.48	229.58	15.045		
18,000.00	7,730.00	7,709.00	7,709.00	154.68	133.58	90.00	-4,087.49	3,040.21	3,513.51	3,283.69	229.82	15.288		
18,100.00	7,730.00	7,709.00	7,709.00	155.80	133.58	90.00	-4,087.49	3,040.21	3,574.77	3,344.70	230.07	15.538		
18,200.00	7,730.00	7,709.00	7,709.00	156.95	133.58	90.00	-4,087.49	3,040.21	3,637.75	3,407.44	230.31	15.795		
18,300.00	7,730.00	7,709.00	7,709.00	158.11	133.58	90.00	-4,087.49	3,040.21	3,702.36	3,471.81	230.55	16.059		
18,400.00	7,730.00	7,709.00	7,709.00	159.30	133.58	90.00	-4,087.49	3,040.21	3,768.51	3,537.72	230.79	16.329		
18,500.00	7,730.00	7,709.00	7,709.00	160.50	133.58	90.00	-4,087.49	3,040.21	3,836.13	3,605.11	231.02	16.605		
18,600.00	7,730.00	7,709.00	7,709.00	161.72	133.58	90.00	-4,087.49	3,040.21	3,905.14	3,673.89	231.25	16.887		
18,700.00	7,730.00	7,709.00	7,709.00	162.96	133.58	90.00	-4,087.49	3,040.21	3,975.47	3,744.00	231.47	17.175		
18,800.00	7,730.00	7,709.00	7,709.00	164.21	133.58	90.00	-4,087.49	3,040.21	4,047.05	3,815.36	231.69	17.467		
18,900.00	7,730.00	7,709.00	7,709.00	165.48	133.58	90.00	-4,087.49	3,040.21	4,119.81	3,887.91	231.91	17.765		
19,000.00	7,730.00	7,709.00	7,709.00	166.76	133.58	90.00	-4,087.49	3,040.21	4,193.70	3,961.58	232.11	18.067		
19,100.00	7,730.00	7,709.00	7,709.00	168.06	133.58	90.00	-4,087.49	3,040.21	4,268.64	4,036.33	232.32	18.374		
19,200.00	7,730.00	7,709.00	7,709.00	169.38	133.58	90.00	-4,087.49	3,040.21	4,344.60	4,112.09	232.51	18.685		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,709.00	7,709.00	170.70	133.58	90.00	-4,087.49	3,040.21	4,421.52	4,188.81	232.71	19.000	
19,400.00	7,730.00	7,709.00	7,709.00	172.04	133.58	90.00	-4,087.49	3,040.21	4,499.34	4,266.44	232.89	19.319	
19,500.00	7,730.00	7,709.00	7,709.00	173.40	133.58	90.00	-4,087.49	3,040.21	4,578.02	4,344.94	233.08	19.642	
19,600.00	7,730.00	7,709.00	7,709.00	174.76	133.58	90.00	-4,087.49	3,040.21	4,657.52	4,424.27	233.25	19.968	
19,700.00	7,730.00	7,709.00	7,709.00	176.14	133.58	90.00	-4,087.49	3,040.21	4,737.80	4,504.38	233.42	20.297	
19,800.00	7,730.00	7,709.00	7,709.00	177.52	133.58	90.00	-4,087.49	3,040.21	4,818.81	4,585.22	233.59	20.629	
19,900.00	7,730.00	7,709.00	7,709.00	178.92	133.58	90.00	-4,087.49	3,040.21	4,900.53	4,666.78	233.75	20.965	
20,000.00	7,730.00	7,709.00	7,709.00	180.33	133.58	90.00	-4,087.49	3,040.21	4,982.92	4,749.01	233.91	21.303	
20,100.00	7,730.00	7,709.00	7,709.00	181.75	133.58	90.00	-4,087.49	3,040.21	5,065.93	4,831.87	234.06	21.644	
20,184.95	7,730.00	7,709.00	7,709.00	182.96	133.58	90.00	-4,087.49	3,040.21	5,136.94	4,902.75	234.19	21.935	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.98	-7,865.87	5,309.41	9,490.12					
100.00	100.00	76.00	76.00	0.13	0.58	145.98	-7,865.87	5,309.41	9,490.09	9,489.37	0.72	N/A		
200.00	199.98	175.98	175.98	0.49	2.09	75.55	-7,865.87	5,309.41	9,489.65	9,487.07	2.58	3,672.316		
300.00	299.84	275.84	275.84	0.86	3.84	75.60	-7,865.87	5,309.41	9,488.35	9,483.66	4.69	2,023.326		
400.00	399.45	375.45	375.45	1.23	5.58	75.69	-7,865.87	5,309.41	9,486.18	9,479.37	6.80	1,394.190		
500.00	498.70	474.70	474.70	1.63	7.31	75.82	-7,865.87	5,309.41	9,483.16	9,474.23	8.93	1,061.827		
600.00	597.47	573.47	573.47	2.05	9.03	75.99	-7,865.87	5,309.41	9,479.31	9,468.23	11.07	856.004		
700.00	695.62	671.62	671.62	2.51	10.74	76.19	-7,865.87	5,309.41	9,474.64	9,461.40	13.24	715.799		
800.00	793.06	769.06	769.06	3.00	12.45	76.43	-7,865.87	5,309.41	9,469.18	9,453.76	15.42	614.007		
900.00	889.64	865.64	865.64	3.53	14.13	76.69	-7,865.87	5,309.41	9,462.96	9,445.33	17.63	536.650		
1,000.00	985.27	961.27	961.27	4.12	15.80	76.99	-7,865.87	5,309.41	9,456.02	9,436.15	19.87	475.811		
1,100.00	1,079.82	1,055.82	1,055.82	4.75	17.45	77.33	-7,865.87	5,309.41	9,448.39	9,426.25	22.14	426.669		
1,200.00	1,173.17	1,149.17	1,149.17	5.44	19.08	77.69	-7,865.87	5,309.41	9,440.12	9,415.67	24.45	386.123		
1,300.00	1,265.21	1,241.21	1,241.21	6.18	20.69	78.08	-7,865.87	5,309.41	9,431.24	9,404.45	26.79	352.081		
1,400.00	1,355.84	1,331.84	1,331.84	6.99	22.27	78.49	-7,865.87	5,309.41	9,421.81	9,392.65	29.16	323.089		
1,500.00	1,444.94	1,420.94	1,420.94	7.87	23.82	78.93	-7,865.87	5,309.41	9,411.89	9,380.31	31.57	298.096		
1,600.00	1,532.39	1,508.39	1,508.39	8.80	25.35	79.39	-7,865.87	5,309.41	9,401.52	9,367.49	34.02	276.329		
1,700.00	1,618.11	1,605.89	1,594.11	9.81	27.05	79.87	-7,865.87	5,309.41	9,390.76	9,354.04	36.72	255.763		
1,800.00	1,701.97	1,677.97	1,677.97	10.89	28.31	80.36	-7,865.87	5,309.41	9,379.68	9,340.65	39.04	240.274		
1,900.00	1,783.88	1,759.88	1,759.88	12.04	29.74	80.87	-7,865.87	5,309.41	9,368.34	9,326.74	41.60	225.188		
2,000.00	1,863.74	1,839.74	1,839.74	13.26	31.13	81.40	-7,865.87	5,309.41	9,356.81	9,312.60	44.21	211.666		
2,100.00	1,941.45	1,917.45	1,917.45	14.55	32.49	81.93	-7,865.87	5,309.41	9,345.15	9,298.30	46.85	199.487		
2,200.00	2,016.92	2,007.08	1,992.92	15.92	34.05	82.46	-7,865.87	5,309.41	9,333.43	9,283.66	49.77	187.532		
2,292.11	2,084.36	2,060.36	2,060.36	17.25	34.98	82.96	-7,865.87	5,309.41	9,322.64	9,270.62	52.02	179.217		
2,300.00	2,090.06	2,066.06	2,066.06	17.36	35.08	82.98	-7,865.87	5,309.41	9,321.72	9,269.48	52.23	178.462		
2,400.00	2,162.18	2,138.18	2,138.18	18.84	36.34	83.29	-7,865.87	5,309.41	9,310.32	9,255.35	54.97	169.376		
2,500.00	2,234.31	2,210.31	2,210.31	20.33	37.60	83.60	-7,865.87	5,309.41	9,299.42	9,241.70	57.72	161.123		
2,600.00	2,306.43	2,282.43	2,282.43	21.83	38.86	83.91	-7,865.87	5,309.41	9,289.03	9,228.55	60.48	153.601		
2,700.00	2,378.56	2,354.56	2,354.56	23.33	40.12	84.22	-7,865.87	5,309.41	9,279.14	9,215.90	63.24	146.722		
2,800.00	2,450.68	2,426.68	2,426.68	24.84	41.38	84.52	-7,865.87	5,309.41	9,269.76	9,203.74	66.02	140.412		
2,900.00	2,522.81	2,501.19	2,498.81	26.36	42.68	84.83	-7,865.87	5,309.41	9,260.89	9,192.04	68.84	134.525		
3,000.00	2,594.93	2,570.93	2,570.93	27.88	43.89	85.14	-7,865.87	5,309.41	9,252.52	9,180.94	71.59	129.249		
3,100.00	2,667.06	2,643.06	2,643.06	29.40	45.15	85.45	-7,865.87	5,309.41	9,244.67	9,170.30	74.38	124.292		
3,200.00	2,739.18	2,715.18	2,715.18	30.92	46.41	85.76	-7,865.87	5,309.41	9,237.34	9,160.16	77.17	119.694		
3,300.00	2,811.31	2,787.31	2,787.31	32.45	47.67	86.07	-7,865.87	5,309.41	9,230.51	9,150.54	79.97	115.420		
3,400.00	2,883.43	2,859.43	2,859.43	33.98	48.93	86.38	-7,865.87	5,309.41	9,224.20	9,141.43	82.77	111.438		
3,500.00	2,955.56	2,931.56	2,931.56	35.51	50.19	86.69	-7,865.87	5,309.41	9,218.41	9,132.83	85.58	107.719		
3,600.00	3,027.68	3,003.68	3,003.68	37.04	51.45	87.00	-7,865.87	5,309.41	9,213.14	9,124.75	88.38	104.241		
3,700.00	3,099.81	3,075.81	3,075.81	38.57	52.71	87.31	-7,865.87	5,309.41	9,208.38	9,117.19	91.19	100.980		
3,800.00	3,171.93	3,147.93	3,147.93	40.11	53.96	87.62	-7,865.87	5,309.41	9,204.14	9,110.14	94.00	97.919		
3,900.00	3,244.06	3,220.06	3,220.06	41.64	55.22	87.93	-7,865.87	5,309.41	9,200.42	9,103.62	96.81	95.040		
4,000.00	3,316.18	3,307.82	3,292.18	43.18	56.75	88.25	-7,865.87	5,309.41	9,197.22	9,097.34	99.89	92.077		
4,100.00	3,388.31	3,364.31	3,364.31	44.71	57.74	88.56	-7,865.87	5,309.41	9,194.54	9,092.12	102.42	89.772		
4,200.00	3,460.43	3,436.43	3,436.43	46.25	59.00	88.87	-7,865.87	5,309.41	9,192.39	9,087.16	105.23	87.357		
4,300.00	3,532.56	3,508.56	3,508.56	47.79	60.26	89.18	-7,865.87	5,309.41	9,190.75	9,082.72	108.03	85.072		
4,400.00	3,604.68	3,580.68	3,580.68	49.33	61.52	89.49	-7,865.87	5,309.41	9,189.64	9,078.80	110.84	82.909		
4,500.00	3,676.81	3,652.81	3,652.81	50.87	62.78	89.80	-7,865.87	5,309.41	9,189.05	9,075.40	113.64	80.859		
4,563.26	3,722.43	3,701.57	3,698.43	51.84	63.63	90.00	-7,865.87	5,309.41	9,188.94	9,073.47	115.47	79.578		
4,600.00	3,748.93	3,724.93	3,724.93	52.41	64.03	90.11	-7,865.87	5,309.41	9,188.98	9,072.53	116.45	78.912		
4,700.00	3,821.06	3,802.94	3,797.06	53.95	65.40	90.43	-7,865.87	5,309.41	9,189.43	9,070.08	119.35	76.997		
4,800.00	3,893.18	3,869.18	3,869.18	55.49	66.55	90.74	-7,865.87	5,309.41	9,190.41	9,068.36	122.04	75.305		
4,900.00	3,965.31	3,941.31	3,941.31	57.03	67.81	91.05	-7,865.87	5,309.41	9,191.90	9,067.07	124.84	73.631		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,013.43	4,013.43	58.58	69.07	91.36	-7,865.87	5,309.41	9,193.92	9,066.29	127.63	72.036		
5,100.00	4,109.56	4,085.56	4,085.56	60.12	70.33	91.67	-7,865.87	5,309.41	9,196.46	9,066.04	130.42	70.515		
5,200.00	4,181.68	4,157.68	4,157.68	61.66	71.59	91.98	-7,865.87	5,309.41	9,199.52	9,066.32	133.20	69.064		
5,300.00	4,253.81	4,229.81	4,229.81	63.20	72.85	92.29	-7,865.87	5,309.41	9,203.10	9,067.12	135.98	67.677		
5,400.00	4,325.93	4,301.93	4,301.93	64.75	74.11	92.60	-7,865.87	5,309.41	9,207.20	9,068.44	138.76	66.352		
5,500.00	4,398.06	4,374.06	4,374.06	66.29	75.36	92.92	-7,865.87	5,309.41	9,211.82	9,070.29	141.54	65.085		
5,600.00	4,470.18	4,446.18	4,446.18	67.84	76.62	93.23	-7,865.87	5,309.41	9,216.96	9,072.66	144.31	63.871		
5,700.00	4,542.31	4,518.31	4,518.31	69.38	77.88	93.54	-7,865.87	5,309.41	9,222.62	9,075.55	147.07	62.709		
5,800.00	4,614.43	4,609.57	4,590.43	70.92	79.47	93.85	-7,865.87	5,309.41	9,228.79	9,078.63	150.16	61.458		
5,900.00	4,686.56	4,662.56	4,662.56	72.47	80.40	94.16	-7,865.87	5,309.41	9,235.48	9,082.89	152.58	60.527		
6,000.00	4,758.68	4,734.68	4,734.68	74.01	81.66	94.47	-7,865.87	5,309.41	9,242.68	9,087.34	155.33	59.503		
6,100.00	4,830.81	4,806.81	4,806.81	75.56	82.92	94.78	-7,865.87	5,309.41	9,250.39	9,092.32	158.08	58.519		
6,200.00	4,902.93	4,878.93	4,878.93	77.10	84.18	95.09	-7,865.87	5,309.41	9,258.62	9,097.80	160.81	57.574		
6,300.00	4,975.06	4,951.06	4,951.06	78.65	85.43	95.39	-7,865.87	5,309.41	9,267.36	9,103.81	163.55	56.665		
6,400.00	5,047.18	5,023.18	5,023.18	80.19	86.69	95.70	-7,865.87	5,309.41	9,276.60	9,110.33	166.27	55.792		
6,500.00	5,119.31	5,104.69	5,095.31	81.74	88.12	96.01	-7,865.87	5,309.41	9,286.35	9,117.20	169.15	54.899		
6,600.00	5,191.43	5,167.43	5,167.43	83.28	89.21	96.32	-7,865.87	5,309.41	9,296.61	9,124.91	171.70	54.143		
6,700.00	5,263.56	5,239.56	5,239.56	84.83	90.47	96.63	-7,865.87	5,309.41	9,307.38	9,132.97	174.41	53.365		
6,800.00	5,335.68	5,311.68	5,311.68	86.37	91.73	96.93	-7,865.87	5,309.41	9,318.64	9,141.53	177.11	52.615		
6,900.00	5,407.81	5,383.81	5,383.81	87.92	92.99	97.24	-7,865.87	5,309.41	9,330.41	9,150.61	179.80	51.893		
7,000.00	5,479.93	5,455.93	5,455.93	89.47	94.25	97.55	-7,865.87	5,309.41	9,342.67	9,160.19	182.49	51.197		
7,100.00	5,552.06	5,528.06	5,528.06	91.01	95.51	97.85	-7,865.87	5,309.41	9,355.44	9,170.27	185.16	50.525		
7,200.00	5,624.18	5,600.18	5,600.18	92.56	96.76	98.16	-7,865.87	5,309.41	9,368.69	9,180.86	187.83	49.878		
7,300.00	5,696.31	5,672.31	5,672.31	94.10	98.02	98.46	-7,865.87	5,309.41	9,382.44	9,191.95	190.49	49.253		
7,400.00	5,768.43	5,744.43	5,744.43	95.65	99.28	98.77	-7,865.87	5,309.41	9,396.68	9,203.53	193.15	48.650		
7,500.00	5,840.56	5,816.56	5,816.56	97.20	100.54	99.07	-7,865.87	5,309.41	9,411.41	9,215.62	195.80	48.068		
7,600.00	5,912.68	5,888.68	5,888.68	98.74	101.80	99.38	-7,865.87	5,309.41	9,426.63	9,228.19	198.43	47.505		
7,700.00	5,984.81	5,960.81	5,960.81	100.29	103.06	99.68	-7,865.87	5,309.41	9,442.32	9,241.26	201.06	46.962		
7,800.00	6,056.93	6,032.93	6,032.93	101.84	104.32	99.98	-7,865.87	5,309.41	9,458.50	9,254.82	203.68	46.437		
7,900.00	6,129.06	6,105.06	6,105.06	103.38	105.58	100.28	-7,865.87	5,309.41	9,475.16	9,268.86	206.30	45.930		
8,000.00	6,201.18	6,177.18	6,177.18	104.93	106.83	100.58	-7,865.87	5,309.41	9,492.29	9,283.39	208.90	45.439		
8,100.00	6,273.31	6,249.31	6,249.31	106.48	108.09	100.88	-7,865.87	5,309.41	9,509.90	9,298.41	211.50	44.965		
8,200.00	6,345.43	6,321.43	6,321.43	108.02	109.35	101.18	-7,865.87	5,309.41	9,527.98	9,313.90	214.08	44.506		
8,300.00	6,417.56	6,406.44	6,393.56	109.57	110.84	101.48	-7,865.87	5,309.41	9,546.53	9,329.64	216.89	44.016		
8,400.00	6,489.68	6,465.68	6,465.68	111.12	111.87	101.78	-7,865.87	5,309.41	9,565.54	9,346.31	219.23	43.632		
8,500.00	6,561.81	6,537.81	6,537.81	112.66	113.13	102.08	-7,865.87	5,309.41	9,585.02	9,363.23	221.79	43.217		
8,600.00	6,633.93	6,609.93	6,609.93	114.21	114.39	102.38	-7,865.87	5,309.41	9,604.95	9,380.61	224.34	42.814		
8,700.00	6,706.06	6,682.06	6,682.06	115.76	115.65	102.68	-7,865.87	5,309.41	9,625.35	9,398.47	226.88	42.425		
8,800.00	6,778.18	6,754.18	6,754.18	117.30	116.91	102.97	-7,865.87	5,309.41	9,646.19	9,416.78	229.41	42.047		
8,900.00	6,850.31	6,826.31	6,826.31	118.85	118.16	103.27	-7,865.87	5,309.41	9,667.49	9,435.56	231.93	41.682		
9,000.00	6,922.43	6,901.57	6,898.43	120.40	119.48	103.56	-7,865.87	5,309.41	9,689.24	9,454.74	234.50	41.318		
9,100.00	6,994.56	6,970.56	6,970.56	121.95	120.68	103.86	-7,865.87	5,309.41	9,711.43	9,474.48	236.95	40.985		
9,200.00	7,066.68	7,042.68	7,042.68	123.49	121.94	104.15	-7,865.87	5,309.41	9,734.07	9,494.62	239.44	40.653		
9,300.00	7,138.81	7,114.81	7,114.81	125.04	123.20	104.44	-7,865.87	5,309.41	9,757.14	9,515.21	241.93	40.331		
9,392.50	7,205.52	7,181.52	7,181.52	126.47	124.36	104.71	-7,865.87	5,309.41	9,778.87	9,534.65	244.22	40.042		
9,400.00	7,210.94	7,186.94	7,186.94	126.59	124.46	103.97	-7,865.87	5,309.41	9,780.60	9,536.20	244.40	40.018		
9,450.00	7,247.42	7,223.42	7,223.42	127.35	125.10	98.88	-7,865.87	5,309.41	9,789.74	9,544.09	245.66	39.852		
9,500.00	7,284.35	7,260.35	7,260.35	128.10	125.74	93.58	-7,865.87	5,309.41	9,794.68	9,547.76	246.92	39.667		
9,550.00	7,321.43	7,302.57	7,297.43	128.83	126.48	88.20	-7,865.87	5,309.41	9,795.38	9,547.09	248.29	39.452		
9,600.00	7,358.38	7,334.38	7,334.38	129.52	127.03	82.88	-7,865.87	5,309.41	9,791.84	9,542.37	249.46	39.252		
9,650.00	7,394.93	7,370.93	7,370.93	130.16	127.67	77.78	-7,865.87	5,309.41	9,784.07	9,533.36	250.71	39.026		
9,700.00	7,430.79	7,406.79	7,406.79	130.76	128.30	72.99	-7,865.87	5,309.41	9,772.14	9,520.23	251.92	38.791		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,441.70	7,441.70	131.30	128.90	68.61	-7,865.87	5,309.41	9,756.14	9,503.05	253.09	38.549		
9,800.00	7,499.38	7,475.38	7,475.38	131.78	129.49	64.67	-7,865.87	5,309.41	9,736.17	9,481.97	254.20	38.301		
9,850.00	7,531.58	7,507.58	7,507.58	132.21	130.05	61.20	-7,865.87	5,309.41	9,712.37	9,457.13	255.25	38.051		
9,900.00	7,562.06	7,538.06	7,538.06	132.57	130.59	58.20	-7,865.87	5,309.41	9,684.93	9,428.70	256.23	37.798		
9,950.00	7,590.58	7,566.58	7,566.58	132.87	131.08	55.65	-7,865.87	5,309.41	9,654.02	9,396.90	257.13	37.546		
10,000.00	7,616.93	7,607.07	7,592.93	133.11	131.79	53.55	-7,865.87	5,309.41	9,619.88	9,361.69	258.19	37.259		
10,050.00	7,640.90	7,616.90	7,616.90	133.29	131.96	51.89	-7,865.87	5,309.41	9,582.75	9,324.08	258.68	37.045		
10,100.00	7,662.32	7,638.32	7,638.32	133.42	132.34	50.66	-7,865.87	5,309.41	9,542.90	9,283.58	259.32	36.800		
10,150.00	7,681.01	7,657.01	7,657.01	133.50	132.66	49.90	-7,865.87	5,309.41	9,500.62	9,240.75	259.87	36.559		
10,200.00	7,696.85	7,672.85	7,672.85	133.52	132.94	49.67	-7,865.87	5,309.41	9,456.20	9,195.88	260.33	36.324		
10,250.00	7,709.70	7,685.70	7,685.70	133.51	133.16	50.15	-7,865.87	5,309.41	9,409.99	9,149.30	260.70	36.096		
10,300.00	7,719.47	7,704.53	7,695.47	133.46	133.49	51.77	-7,865.87	5,309.41	9,362.32	9,101.19	261.13	35.853		
10,350.00	7,726.09	7,702.09	7,702.09	133.37	133.45	55.81	-7,865.87	5,309.41	9,313.54	9,052.38	261.17	35.662		
10,400.00	7,729.50	7,705.50	7,705.50	133.26	133.51	67.94	-7,865.87	5,309.41	9,264.02	9,002.75	261.27	35.457		
10,427.79	7,730.00	7,706.00	7,706.00	133.18	133.52	90.00	-7,865.87	5,309.41	9,236.30	8,975.01	261.29	35.348		
10,500.00	7,730.00	7,706.00	7,706.00	132.98	133.52	90.00	-7,865.87	5,309.41	9,164.21	8,902.89	261.32	35.068		
10,600.00	7,730.00	7,706.00	7,706.00	132.72	133.52	90.00	-7,865.87	5,309.41	9,064.37	8,803.01	261.37	34.681		
10,700.00	7,730.00	7,706.00	7,706.00	132.47	133.52	90.00	-7,865.87	5,309.41	8,964.54	8,703.13	261.41	34.293		
10,800.00	7,730.00	7,706.00	7,706.00	132.22	133.52	90.00	-7,865.87	5,309.41	8,864.71	8,603.26	261.45	33.906		
10,900.00	7,730.00	7,706.00	7,706.00	131.99	133.52	90.00	-7,865.87	5,309.41	8,764.88	8,503.39	261.50	33.518		
11,000.00	7,730.00	7,706.00	7,706.00	131.77	133.52	90.00	-7,865.87	5,309.41	8,665.06	8,403.52	261.54	33.131		
11,100.00	7,730.00	7,706.00	7,706.00	131.56	133.52	90.00	-7,865.87	5,309.41	8,565.24	8,303.65	261.59	32.743		
11,200.00	7,730.00	7,706.00	7,706.00	131.36	133.52	90.00	-7,865.87	5,309.41	8,465.43	8,203.79	261.64	32.355		
11,300.00	7,730.00	7,706.00	7,706.00	131.17	133.52	90.00	-7,865.87	5,309.41	8,365.62	8,103.93	261.69	31.968		
11,400.00	7,730.00	7,706.00	7,706.00	130.99	133.52	90.00	-7,865.87	5,309.41	8,265.81	8,004.07	261.74	31.580		
11,500.00	7,730.00	7,706.00	7,706.00	130.82	133.52	90.00	-7,865.87	5,309.41	8,166.01	7,904.22	261.79	31.192		
11,600.00	7,730.00	7,706.00	7,706.00	130.66	133.52	90.00	-7,865.87	5,309.41	8,066.22	7,804.37	261.85	30.805		
11,700.00	7,730.00	7,706.00	7,706.00	130.51	133.52	90.00	-7,865.87	5,309.41	7,966.43	7,704.52	261.91	30.417		
11,800.00	7,730.00	7,706.00	7,706.00	130.37	133.52	90.00	-7,865.87	5,309.41	7,866.64	7,604.68	261.96	30.030		
11,900.00	7,730.00	7,706.00	7,706.00	130.24	133.52	90.00	-7,865.87	5,309.41	7,766.86	7,504.84	262.02	29.642		
12,000.00	7,730.00	7,706.00	7,706.00	130.13	133.52	90.00	-7,865.87	5,309.41	7,667.09	7,405.01	262.08	29.254		
12,100.00	7,730.00	7,706.00	7,706.00	130.02	133.52	90.00	-7,865.87	5,309.41	7,567.32	7,305.18	262.15	28.867		
12,200.00	7,730.00	7,706.00	7,706.00	129.93	133.52	90.00	-7,865.87	5,309.41	7,467.56	7,205.35	262.21	28.479		
12,300.00	7,730.00	7,706.00	7,706.00	129.85	133.52	90.00	-7,865.87	5,309.41	7,367.81	7,105.53	262.28	28.091		
12,400.00	7,730.00	7,706.00	7,706.00	129.77	133.52	90.00	-7,865.87	5,309.41	7,268.06	7,005.71	262.35	27.704		
12,500.00	7,730.00	7,706.00	7,706.00	129.71	133.52	90.00	-7,865.87	5,309.41	7,168.32	6,905.90	262.42	27.316		
12,600.00	7,730.00	7,706.00	7,706.00	129.66	133.52	90.00	-7,865.87	5,309.41	7,068.58	6,806.09	262.49	26.929		
12,700.00	7,730.00	7,706.00	7,706.00	129.63	133.52	90.00	-7,865.87	5,309.41	6,968.86	6,706.29	262.57	26.541		
12,800.00	7,730.00	7,706.00	7,706.00	129.60	133.52	90.00	-7,865.87	5,309.41	6,869.14	6,606.49	262.65	26.153		
12,900.00	7,730.00	7,706.00	7,706.00	129.59	133.52	90.00	-7,865.87	5,309.41	6,769.43	6,506.70	262.73	25.766		
13,000.00	7,730.00	7,706.00	7,706.00	129.59	133.52	90.00	-7,865.87	5,309.41	6,669.73	6,406.92	262.81	25.378		
13,100.00	7,730.00	7,706.00	7,706.00	129.60	133.52	90.00	-7,865.87	5,309.41	6,570.04	6,307.14	262.90	24.991		
13,200.00	7,730.00	7,706.00	7,706.00	129.63	133.52	90.00	-7,865.87	5,309.41	6,470.35	6,207.37	262.99	24.603		
13,300.00	7,730.00	7,706.00	7,706.00	129.66	133.52	90.00	-7,865.87	5,309.41	6,370.68	6,107.60	263.08	24.216		
13,400.00	7,730.00	7,706.00	7,706.00	129.72	133.52	90.00	-7,865.87	5,309.41	6,271.02	6,007.85	263.17	23.829		
13,500.00	7,730.00	7,706.00	7,706.00	129.78	133.52	90.00	-7,865.87	5,309.41	6,171.37	5,908.10	263.27	23.441		
13,600.00	7,730.00	7,706.00	7,706.00	129.86	133.52	90.00	-7,865.87	5,309.41	6,071.73	5,808.36	263.37	23.054		
13,700.00	7,730.00	7,706.00	7,706.00	129.96	133.52	90.00	-7,865.87	5,309.41	5,972.10	5,708.62	263.47	22.667		
13,800.00	7,730.00	7,706.00	7,706.00	130.07	133.52	90.00	-7,865.87	5,309.41	5,872.48	5,608.90	263.58	22.280		
13,900.00	7,730.00	7,706.00	7,706.00	130.19	133.52	90.00	-7,865.87	5,309.41	5,772.88	5,509.19	263.69	21.892		
14,000.00	7,730.00	7,706.00	7,706.00	130.33	133.52	90.00	-7,865.87	5,309.41	5,673.29	5,409.48	263.81	21.505		
14,100.00	7,730.00	7,706.00	7,706.00	130.49	133.52	90.00	-7,865.87	5,309.41	5,573.72	5,309.79	263.93	21.118		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,706.00	7,706.00	130.67	133.52	90.00	-7,865.87	5,309.41	5,474.16	5,210.11	264.05	20.731		
14,300.00	7,730.00	7,706.00	7,706.00	130.86	133.52	90.00	-7,865.87	5,309.41	5,374.62	5,110.44	264.18	20.344		
14,400.00	7,730.00	7,706.00	7,706.00	131.07	133.52	90.00	-7,865.87	5,309.41	5,275.10	5,010.78	264.32	19.958		
14,500.00	7,730.00	7,706.00	7,706.00	131.30	133.52	90.00	-7,865.87	5,309.41	5,175.59	4,911.14	264.45	19.571		
14,600.00	7,730.00	7,706.00	7,706.00	131.55	133.52	90.00	-7,865.87	5,309.41	5,076.11	4,811.51	264.60	19.184		
14,700.00	7,730.00	7,706.00	7,706.00	131.82	133.52	90.00	-7,865.87	5,309.41	4,976.64	4,711.89	264.75	18.798		
14,800.00	7,730.00	7,706.00	7,706.00	132.11	133.52	90.00	-7,865.87	5,309.41	4,877.20	4,612.29	264.90	18.411		
14,900.00	7,730.00	7,706.00	7,706.00	132.42	133.52	90.00	-7,865.87	5,309.41	4,777.78	4,512.71	265.07	18.025		
15,000.00	7,730.00	7,706.00	7,706.00	132.75	133.52	90.00	-7,865.87	5,309.41	4,678.38	4,413.15	265.23	17.639		
15,100.00	7,730.00	7,706.00	7,706.00	133.10	133.52	90.00	-7,865.87	5,309.41	4,579.01	4,313.60	265.41	17.253		
15,200.00	7,730.00	7,706.00	7,706.00	133.48	133.52	90.00	-7,865.87	5,309.41	4,479.67	4,214.07	265.60	16.867		
15,300.00	7,730.00	7,706.00	7,706.00	133.88	133.52	90.00	-7,865.87	5,309.41	4,380.36	4,114.57	265.79	16.481		
15,400.00	7,730.00	7,706.00	7,706.00	134.31	133.52	90.00	-7,865.87	5,309.41	4,281.08	4,015.09	265.99	16.095		
15,500.00	7,730.00	7,706.00	7,706.00	134.76	133.52	90.00	-7,865.87	5,309.41	4,181.83	3,915.64	266.20	15.709		
15,600.00	7,730.00	7,706.00	7,706.00	135.23	133.52	90.00	-7,865.87	5,309.41	4,082.63	3,816.21	266.42	15.324		
15,700.00	7,730.00	7,706.00	7,706.00	135.73	133.52	90.00	-7,865.87	5,309.41	3,983.46	3,716.81	266.65	14.939		
15,800.00	7,730.00	7,706.00	7,706.00	136.26	133.52	90.00	-7,865.87	5,309.41	3,884.33	3,617.44	266.89	14.554		
15,900.00	7,730.00	7,706.00	7,706.00	136.81	133.52	90.00	-7,865.87	5,309.41	3,785.25	3,518.11	267.15	14.169		
16,000.00	7,730.00	7,706.00	7,706.00	137.39	133.52	90.00	-7,865.87	5,309.41	3,686.22	3,418.81	267.41	13.785		
16,100.00	7,730.00	7,706.00	7,706.00	138.00	133.52	90.00	-7,865.87	5,309.41	3,587.25	3,319.55	267.70	13.400		
16,200.00	7,730.00	7,706.00	7,706.00	138.63	133.52	90.00	-7,865.87	5,309.41	3,488.33	3,220.34	267.99	13.016		
16,300.00	7,730.00	7,706.00	7,706.00	139.30	133.52	90.00	-7,865.87	5,309.41	3,389.47	3,121.17	268.31	12.633		
16,400.00	7,730.00	7,706.00	7,706.00	139.99	133.52	90.00	-7,865.87	5,309.41	3,290.69	3,022.05	268.64	12.249		
16,500.00	7,730.00	7,706.00	7,706.00	140.70	133.52	90.00	-7,865.87	5,309.41	3,191.98	2,922.99	268.99	11.866		
16,600.00	7,730.00	7,706.00	7,706.00	141.45	133.52	90.00	-7,865.87	5,309.41	3,093.35	2,823.99	269.37	11.484		
16,700.00	7,730.00	7,706.00	7,706.00	142.22	133.52	90.00	-7,865.87	5,309.41	2,994.82	2,725.05	269.76	11.102		
16,800.00	7,730.00	7,706.00	7,706.00	143.03	133.52	90.00	-7,865.87	5,309.41	2,896.38	2,626.20	270.19	10.720		
16,900.00	7,730.00	7,706.00	7,706.00	143.86	133.52	90.00	-7,865.87	5,309.41	2,798.06	2,527.42	270.64	10.339		
17,000.00	7,730.00	7,706.00	7,706.00	144.71	133.52	90.00	-7,865.87	5,309.41	2,699.86	2,428.74	271.12	9.958		
17,100.00	7,730.00	7,706.00	7,706.00	145.60	133.52	90.00	-7,865.87	5,309.41	2,601.79	2,330.16	271.64	9.578		
17,200.00	7,730.00	7,706.00	7,706.00	146.51	133.52	90.00	-7,865.87	5,309.41	2,503.88	2,231.69	272.19	9.199		
17,300.00	7,730.00	7,706.00	7,706.00	147.44	133.52	90.00	-7,865.87	5,309.41	2,406.14	2,133.36	272.79	8.821		
17,400.00	7,730.00	7,706.00	7,706.00	148.40	133.52	90.00	-7,865.87	5,309.41	2,308.60	2,035.17	273.43	8.443		
17,500.00	7,730.00	7,706.00	7,706.00	149.39	133.52	90.00	-7,865.87	5,309.41	2,211.27	1,937.14	274.13	8.067		
17,600.00	7,730.00	7,706.00	7,706.00	150.40	133.52	90.00	-7,865.87	5,309.41	2,114.19	1,839.31	274.88	7.691		
17,700.00	7,730.00	7,706.00	7,706.00	151.44	133.52	90.00	-7,865.87	5,309.41	2,017.40	1,741.70	275.71	7.317		
17,800.00	7,730.00	7,706.00	7,706.00	152.50	133.52	90.00	-7,865.87	5,309.41	1,920.94	1,644.34	276.60	6.945		
17,900.00	7,730.00	7,706.00	7,706.00	153.58	133.52	90.00	-7,865.87	5,309.41	1,824.86	1,547.28	277.59	6.574		
18,000.00	7,730.00	7,706.00	7,706.00	154.68	133.52	90.00	-7,865.87	5,309.41	1,729.22	1,450.56	278.66	6.205		
18,100.00	7,730.00	7,706.00	7,706.00	155.80	133.52	90.00	-7,865.87	5,309.41	1,634.11	1,354.26	279.85	5.839		
18,200.00	7,730.00	7,706.00	7,706.00	156.95	133.52	90.00	-7,865.87	5,309.41	1,539.61	1,258.46	281.16	5.476		
18,300.00	7,730.00	7,706.00	7,706.00	158.11	133.52	90.00	-7,865.87	5,309.41	1,445.86	1,163.25	282.61	5.116		
18,400.00	7,730.00	7,706.00	7,706.00	159.30	133.52	90.00	-7,865.87	5,309.41	1,353.00	1,068.79	284.22	4.760		
18,500.00	7,730.00	7,706.00	7,706.00	160.50	133.52	90.00	-7,865.87	5,309.41	1,261.23	975.23	286.00	4.410		
18,600.00	7,730.00	7,706.00	7,706.00	161.72	133.52	90.00	-7,865.87	5,309.41	1,170.82	882.83	287.98	4.066		
18,700.00	7,730.00	7,706.00	7,706.00	162.96	133.52	90.00	-7,865.87	5,309.41	1,082.09	791.91	290.17	3.729		
18,800.00	7,730.00	7,706.00	7,706.00	164.21	133.52	90.00	-7,865.87	5,309.41	995.49	702.92	292.57	3.403		
18,900.00	7,730.00	7,706.00	7,706.00	165.48	133.52	90.00	-7,865.87	5,309.41	911.65	616.49	295.16	3.089		
19,000.00	7,730.00	7,706.00	7,706.00	166.76	133.52	90.00	-7,865.87	5,309.41	831.39	533.53	297.86	2.791		
19,100.00	7,730.00	7,706.00	7,706.00	168.06	133.52	90.00	-7,865.87	5,309.41	755.85	455.34	300.50	2.515		
19,200.00	7,730.00	7,706.00	7,706.00	169.38	133.52	90.00	-7,865.87	5,309.41	686.59	383.84	302.75	2.268		
19,300.00	7,730.00	7,706.00	7,706.00	170.70	133.52	90.00	-7,865.87	5,309.41	625.70	321.69	304.02	2.058		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,706.00	7,706.00	172.04	133.52	90.00	-7,865.87	5,309.41	575.85	272.45	303.40	1.898	
19,500.00	7,730.00	7,706.00	7,706.00	173.40	133.52	90.00	-7,865.87	5,309.41	540.09	240.26	299.83	1.801	
19,600.00	7,730.00	7,706.00	7,706.00	174.76	133.52	90.00	-7,865.87	5,309.41	521.34	228.76	292.58	1.782 ES, SF	
19,649.51	7,730.00	7,706.00	7,706.00	175.44	133.52	90.00	-7,865.87	5,309.41	518.99	231.30	287.69	1.804 CC	
19,700.00	7,730.00	7,706.00	7,706.00	176.14	133.52	90.00	-7,865.87	5,309.41	521.44	239.43	282.01	1.849	
19,800.00	7,730.00	7,706.00	7,706.00	177.52	133.52	90.00	-7,865.87	5,309.41	540.37	270.56	269.81	2.003	
19,900.00	7,730.00	7,706.00	7,706.00	178.92	133.52	90.00	-7,865.87	5,309.41	576.28	318.07	258.21	2.232	
20,000.00	7,730.00	7,706.00	7,706.00	180.33	133.52	90.00	-7,865.87	5,309.41	626.25	377.44	248.82	2.517	
20,100.00	7,730.00	7,706.00	7,706.00	181.75	133.52	90.00	-7,865.87	5,309.41	687.24	445.07	242.16	2.838	
20,184.95	7,730.00	7,706.00	7,706.00	182.96	133.52	90.00	-7,865.87	5,309.41	745.69	507.21	238.48	3.127	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	149.39	-5,430.97	3,212.61	6,310.05					
100.00	100.00	79.00	79.00	0.13	0.60	149.39	-5,430.97	3,212.61	6,310.01	6,309.28	0.73	8,594.289		
200.00	199.98	178.98	178.98	0.49	2.14	78.96	-5,430.97	3,212.61	6,309.68	6,307.05	2.63	2,401.204		
300.00	299.84	278.84	278.84	0.86	3.88	79.03	-5,430.97	3,212.61	6,308.68	6,303.95	4.73	1,332.884		
400.00	399.45	378.45	378.45	1.23	5.62	79.14	-5,430.97	3,212.61	6,307.02	6,300.17	6.85	920.988		
500.00	498.70	477.70	477.70	1.63	7.35	79.29	-5,430.97	3,212.61	6,304.73	6,295.75	8.98	702.403		
600.00	597.47	576.47	576.47	2.05	9.08	79.49	-5,430.97	3,212.61	6,301.81	6,290.69	11.12	566.687		
700.00	695.62	674.62	674.62	2.51	10.79	79.72	-5,430.97	3,212.61	6,298.31	6,285.02	13.29	474.079		
800.00	793.06	772.06	772.06	3.00	12.49	80.00	-5,430.97	3,212.61	6,294.24	6,278.77	15.47	406.760		
900.00	889.64	868.64	868.64	3.53	14.17	80.32	-5,430.97	3,212.61	6,289.67	6,271.98	17.69	355.553		
1,000.00	985.27	964.27	964.27	4.12	15.84	80.67	-5,430.97	3,212.61	6,284.62	6,264.69	19.94	315.252		
1,100.00	1,079.82	1,058.82	1,058.82	4.75	17.49	81.05	-5,430.97	3,212.61	6,279.16	6,256.95	22.21	282.684		
1,200.00	1,173.17	1,152.17	1,152.17	5.44	19.12	81.47	-5,430.97	3,212.61	6,273.34	6,248.82	24.52	255.802		
1,300.00	1,265.21	1,244.21	1,244.21	6.18	20.73	81.92	-5,430.97	3,212.61	6,267.22	6,240.35	26.87	233.228		
1,400.00	1,355.84	1,334.84	1,334.84	6.99	22.31	82.39	-5,430.97	3,212.61	6,260.87	6,231.61	29.26	214.002		
1,500.00	1,444.94	1,423.94	1,423.94	7.87	23.87	82.89	-5,430.97	3,212.61	6,254.35	6,222.68	31.68	197.430		
1,600.00	1,532.39	1,511.39	1,511.39	8.80	25.39	83.41	-5,430.97	3,212.61	6,247.76	6,213.61	34.14	183.001		
1,700.00	1,618.11	1,602.89	1,597.11	9.81	26.99	83.94	-5,430.97	3,212.61	6,241.15	6,204.41	36.74	169.862		
1,800.00	1,701.97	1,680.97	1,680.97	10.89	28.35	84.49	-5,430.97	3,212.61	6,234.62	6,195.44	39.18	159.120		
1,900.00	1,783.88	1,762.88	1,762.88	12.04	29.78	85.05	-5,430.97	3,212.61	6,228.25	6,186.49	41.76	149.139		
2,000.00	1,863.74	1,842.74	1,842.74	13.26	31.18	85.61	-5,430.97	3,212.61	6,222.13	6,177.75	44.38	140.204		
2,100.00	1,941.45	1,920.45	1,920.45	14.55	32.53	86.18	-5,430.97	3,212.61	6,216.35	6,169.31	47.03	132.167		
2,200.00	2,016.92	2,004.08	1,995.92	15.92	33.99	86.74	-5,430.97	3,212.61	6,210.99	6,161.12	49.87	124.550		
2,292.11	2,084.36	2,063.36	2,063.36	17.25	35.03	87.25	-5,430.97	3,212.61	6,206.51	6,154.28	52.23	118.823		
2,300.00	2,090.06	2,069.06	2,069.06	17.36	35.13	87.29	-5,430.97	3,212.61	6,206.15	6,153.70	52.45	118.328		
2,400.00	2,162.18	2,141.18	2,141.18	18.84	36.38	87.75	-5,430.97	3,212.61	6,202.00	6,146.81	55.19	112.365		
2,500.00	2,234.31	2,213.31	2,213.31	20.33	37.64	88.21	-5,430.97	3,212.61	6,198.62	6,140.67	57.95	106.962		
2,600.00	2,306.43	2,285.43	2,285.43	21.83	38.90	88.68	-5,430.97	3,212.61	6,196.01	6,135.30	60.72	102.049		
2,700.00	2,378.56	2,357.56	2,357.56	23.33	40.16	89.14	-5,430.97	3,212.61	6,194.18	6,130.70	63.49	97.568		
2,800.00	2,450.68	2,429.68	2,429.68	24.84	41.42	89.60	-5,430.97	3,212.61	6,193.12	6,126.86	66.26	93.467		
2,886.70	2,513.22	2,507.78	2,492.22	26.16	42.78	90.00	-5,430.97	3,212.61	6,192.83	6,123.89	68.94	89.831		
2,900.00	2,522.81	2,501.81	2,501.81	26.36	42.68	90.06	-5,430.97	3,212.61	6,192.84	6,123.80	69.04	89.704		
3,000.00	2,594.93	2,573.93	2,573.93	27.88	43.94	90.52	-5,430.97	3,212.61	6,193.33	6,121.51	71.81	86.242		
3,100.00	2,667.06	2,646.06	2,646.06	29.40	45.20	90.99	-5,430.97	3,212.61	6,194.59	6,120.00	74.59	83.047		
3,200.00	2,739.18	2,718.18	2,718.18	30.92	46.46	91.45	-5,430.97	3,212.61	6,196.63	6,119.26	77.37	80.093		
3,300.00	2,811.31	2,809.69	2,790.31	32.45	48.05	91.91	-5,430.97	3,212.61	6,199.44	6,118.96	80.48	77.030		
3,400.00	2,883.43	2,862.43	2,862.43	33.98	48.97	92.37	-5,430.97	3,212.61	6,203.03	6,120.11	82.91	74.812		
3,500.00	2,955.56	2,934.56	2,934.56	35.51	50.23	92.83	-5,430.97	3,212.61	6,207.38	6,121.70	85.68	72.446		
3,600.00	3,027.68	3,006.68	3,006.68	37.04	51.49	93.29	-5,430.97	3,212.61	6,212.51	6,124.06	88.45	70.239		
3,700.00	3,099.81	3,078.81	3,078.81	38.57	52.75	93.75	-5,430.97	3,212.61	6,218.40	6,127.19	91.21	68.179		
3,800.00	3,171.93	3,150.93	3,150.93	40.11	54.01	94.21	-5,430.97	3,212.61	6,225.06	6,131.10	93.96	66.251		
3,900.00	3,244.06	3,223.06	3,223.06	41.64	55.27	94.67	-5,430.97	3,212.61	6,232.48	6,135.77	96.71	64.445		
4,000.00	3,316.18	3,304.82	3,295.18	43.18	56.69	95.13	-5,430.97	3,212.61	6,240.66	6,141.04	99.62	62.645		
4,100.00	3,388.31	3,367.31	3,367.31	44.71	57.78	95.59	-5,430.97	3,212.61	6,249.60	6,147.41	102.19	61.160		
4,200.00	3,460.43	3,439.43	3,439.43	46.25	59.04	96.05	-5,430.97	3,212.61	6,259.29	6,154.38	104.91	59.663		
4,300.00	3,532.56	3,511.56	3,511.56	47.79	60.30	96.50	-5,430.97	3,212.61	6,269.73	6,162.10	107.63	58.253		
4,400.00	3,604.68	3,583.68	3,583.68	49.33	61.56	96.96	-5,430.97	3,212.61	6,280.92	6,170.58	110.34	56.924		
4,500.00	3,676.81	3,655.81	3,655.81	50.87	62.82	97.42	-5,430.97	3,212.61	6,292.85	6,179.81	113.04	55.669		
4,600.00	3,748.93	3,727.93	3,727.93	52.41	64.08	97.87	-5,430.97	3,212.61	6,305.52	6,189.79	115.73	54.485		
4,700.00	3,821.06	3,800.06	3,800.06	53.95	65.34	98.32	-5,430.97	3,212.61	6,318.92	6,200.51	118.41	53.364		
4,800.00	3,893.18	3,872.18	3,872.18	55.49	66.60	98.77	-5,430.97	3,212.61	6,333.05	6,211.97	121.08	52.304		
4,900.00	3,965.31	3,944.31	3,944.31	57.03	67.86	99.23	-5,430.97	3,212.61	6,347.91	6,224.17	123.74	51.300		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,016.43	4,016.43	58.58	69.11	99.68	-5,430.97	3,212.61	6,363.49	6,237.10	126.39	50.348		
5,100.00	4,109.56	4,088.56	4,088.56	60.12	70.37	100.12	-5,430.97	3,212.61	6,379.78	6,250.75	129.03	49.445		
5,200.00	4,181.68	4,160.68	4,160.68	61.66	71.63	100.57	-5,430.97	3,212.61	6,396.77	6,265.12	131.65	48.588		
5,300.00	4,253.81	4,232.81	4,232.81	63.20	72.89	101.02	-5,430.97	3,212.61	6,414.48	6,280.21	134.27	47.774		
5,400.00	4,325.93	4,304.93	4,304.93	64.75	74.15	101.46	-5,430.97	3,212.61	6,432.88	6,296.01	136.87	47.001		
5,500.00	4,398.06	4,377.06	4,377.06	66.29	75.41	101.90	-5,430.97	3,212.61	6,451.97	6,312.51	139.46	46.265		
5,600.00	4,470.18	4,449.18	4,449.18	67.84	76.67	102.35	-5,430.97	3,212.61	6,471.74	6,329.71	142.03	45.565		
5,700.00	4,542.31	4,521.31	4,521.31	69.38	77.93	102.79	-5,430.97	3,212.61	6,492.19	6,347.60	144.60	44.899		
5,800.00	4,614.43	4,606.57	4,593.43	70.92	79.41	103.23	-5,430.97	3,212.61	6,513.32	6,365.95	147.37	44.196		
5,900.00	4,686.56	4,665.56	4,665.56	72.47	80.44	103.66	-5,430.97	3,212.61	6,535.11	6,385.43	149.68	43.660		
6,000.00	4,758.68	4,737.68	4,737.68	74.01	81.70	104.10	-5,430.97	3,212.61	6,557.57	6,405.36	152.21	43.084		
6,100.00	4,830.81	4,809.81	4,809.81	75.56	82.96	104.53	-5,430.97	3,212.61	6,580.67	6,425.95	154.72	42.534		
6,200.00	4,902.93	4,881.93	4,881.93	77.10	84.22	104.96	-5,430.97	3,212.61	6,604.42	6,447.21	157.21	42.010		
6,300.00	4,975.06	4,954.06	4,954.06	78.65	85.48	105.40	-5,430.97	3,212.61	6,628.81	6,469.11	159.69	41.509		
6,400.00	5,047.18	5,026.18	5,026.18	80.19	86.74	105.82	-5,430.97	3,212.61	6,653.83	6,491.67	162.16	41.032		
6,500.00	5,119.31	5,101.69	5,098.31	81.74	88.06	106.25	-5,430.97	3,212.61	6,679.47	6,514.80	164.68	40.561		
6,600.00	5,191.43	5,170.43	5,170.43	83.28	89.25	106.68	-5,430.97	3,212.61	6,705.74	6,538.68	167.06	40.140		
6,700.00	5,263.56	5,242.56	5,242.56	84.83	90.51	107.10	-5,430.97	3,212.61	6,732.61	6,563.12	169.48	39.724		
6,800.00	5,335.68	5,314.68	5,314.68	86.37	91.77	107.52	-5,430.97	3,212.61	6,760.08	6,588.19	171.90	39.326		
6,900.00	5,407.81	5,386.81	5,386.81	87.92	93.03	107.94	-5,430.97	3,212.61	6,788.16	6,613.86	174.30	38.946		
7,000.00	5,479.93	5,458.93	5,458.93	89.47	94.29	108.36	-5,430.97	3,212.61	6,816.82	6,640.13	176.68	38.583		
7,100.00	5,552.06	5,531.06	5,531.06	91.01	95.55	108.77	-5,430.97	3,212.61	6,846.06	6,667.00	179.05	38.235		
7,200.00	5,624.18	5,603.18	5,603.18	92.56	96.81	109.19	-5,430.97	3,212.61	6,875.87	6,694.46	181.41	37.903		
7,300.00	5,696.31	5,675.31	5,675.31	94.10	98.07	109.60	-5,430.97	3,212.61	6,906.25	6,722.50	183.75	37.585		
7,400.00	5,768.43	5,747.43	5,747.43	95.65	99.33	110.01	-5,430.97	3,212.61	6,937.19	6,751.11	186.08	37.281		
7,500.00	5,840.56	5,819.56	5,819.56	97.20	100.58	110.41	-5,430.97	3,212.61	6,968.68	6,780.28	188.39	36.990		
7,600.00	5,912.68	5,908.32	5,891.68	98.74	102.13	110.82	-5,430.97	3,212.61	7,000.71	6,809.73	190.99	36.656		
7,700.00	5,984.81	5,963.81	5,963.81	100.29	103.10	111.22	-5,430.97	3,212.61	7,033.28	6,840.30	192.98	36.445		
7,800.00	6,056.93	6,035.93	6,035.93	101.84	104.36	111.62	-5,430.97	3,212.61	7,066.38	6,871.12	195.26	36.190		
7,900.00	6,129.06	6,108.06	6,108.06	103.38	105.62	112.02	-5,430.97	3,212.61	7,100.00	6,902.48	197.52	35.946		
8,000.00	6,201.18	6,180.18	6,180.18	104.93	106.88	112.42	-5,430.97	3,212.61	7,134.13	6,934.37	199.76	35.713		
8,100.00	6,273.31	6,252.31	6,252.31	106.48	108.14	112.81	-5,430.97	3,212.61	7,168.78	6,966.78	202.00	35.489		
8,200.00	6,345.43	6,324.43	6,324.43	108.02	109.40	113.20	-5,430.97	3,212.61	7,203.92	6,999.70	204.22	35.276		
8,300.00	6,417.56	6,403.44	6,396.56	109.57	110.78	113.59	-5,430.97	3,212.61	7,239.55	7,033.00	206.55	35.051		
8,400.00	6,489.68	6,468.68	6,468.68	111.12	111.91	113.98	-5,430.97	3,212.61	7,275.67	7,067.05	208.62	34.875		
8,500.00	6,561.81	6,540.81	6,540.81	112.66	113.17	114.36	-5,430.97	3,212.61	7,312.26	7,101.46	210.80	34.688		
8,600.00	6,633.93	6,612.93	6,612.93	114.21	114.43	114.75	-5,430.97	3,212.61	7,349.33	7,136.36	212.97	34.509		
8,700.00	6,706.06	6,685.06	6,685.06	115.76	115.69	115.13	-5,430.97	3,212.61	7,386.86	7,171.73	215.13	34.337		
8,800.00	6,778.18	6,757.18	6,757.18	117.30	116.95	115.50	-5,430.97	3,212.61	7,424.84	7,207.57	217.27	34.173		
8,900.00	6,850.31	6,829.31	6,829.31	118.85	118.21	115.88	-5,430.97	3,212.61	7,463.28	7,243.88	219.40	34.016		
9,000.00	6,922.43	6,901.43	6,901.43	120.40	119.47	116.25	-5,430.97	3,212.61	7,502.16	7,280.63	221.52	33.866		
9,100.00	6,994.56	6,973.56	6,973.56	121.95	120.73	116.62	-5,430.97	3,212.61	7,541.47	7,317.84	223.63	33.722		
9,200.00	7,066.68	7,045.68	7,045.68	123.49	121.98	116.99	-5,430.97	3,212.61	7,581.22	7,355.48	225.73	33.585		
9,300.00	7,138.81	7,117.81	7,117.81	125.04	123.24	117.36	-5,430.97	3,212.61	7,621.38	7,393.56	227.82	33.454		
9,392.50	7,205.52	7,184.52	7,184.52	126.47	124.41	117.69	-5,430.97	3,212.61	7,658.90	7,429.17	229.73	33.338		
9,400.00	7,210.94	7,189.94	7,189.94	126.59	124.50	116.88	-5,430.97	3,212.61	7,661.92	7,432.03	229.89	33.329		
9,450.00	7,247.42	7,226.42	7,226.42	127.35	125.14	111.40	-5,430.97	3,212.61	7,679.81	7,448.86	230.95	33.254		
9,500.00	7,284.35	7,263.35	7,263.35	128.10	125.78	105.82	-5,430.97	3,212.61	7,693.79	7,461.76	232.03	33.159		
9,550.00	7,321.43	7,300.43	7,300.43	128.83	126.43	100.25	-5,430.97	3,212.61	7,703.76	7,470.63	233.13	33.045		
9,600.00	7,358.38	7,337.38	7,337.38	129.52	127.08	94.84	-5,430.97	3,212.61	7,709.68	7,475.44	234.23	32.914		
9,650.00	7,394.93	7,373.93	7,373.93	130.16	127.71	89.72	-5,430.97	3,212.61	7,711.50	7,476.17	235.33	32.769		
9,700.00	7,430.79	7,409.79	7,409.79	130.76	128.34	85.01	-5,430.97	3,212.61	7,709.22	7,472.82	236.41	32.610		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	7,444.70	7,444.70	131.30	128.95	80.77	-5,430.97	3,212.61	7,702.87	7,465.42	237.45	32.439		
9,800.00	7,499.38	7,478.38	7,478.38	131.78	129.54	77.07	-5,430.97	3,212.61	7,692.51	7,454.05	238.46	32.259		
9,850.00	7,531.58	7,510.58	7,510.58	132.21	130.10	73.93	-5,430.97	3,212.61	7,678.20	7,438.79	239.42	32.071		
9,900.00	7,562.06	7,541.06	7,541.06	132.57	130.63	71.36	-5,430.97	3,212.61	7,660.07	7,419.75	240.31	31.875		
9,950.00	7,590.58	7,569.58	7,569.58	132.87	131.13	69.35	-5,430.97	3,212.61	7,638.23	7,397.09	241.15	31.675		
10,000.00	7,616.93	7,604.07	7,595.93	133.11	131.73	67.92	-5,430.97	3,212.61	7,612.86	7,370.81	242.05	31.452		
10,050.00	7,640.90	7,619.90	7,619.90	133.29	132.01	67.08	-5,430.97	3,212.61	7,584.13	7,341.54	242.59	31.263		
10,100.00	7,662.32	7,641.32	7,641.32	133.42	132.38	66.84	-5,430.97	3,212.61	7,552.25	7,309.05	243.20	31.054		
10,150.00	7,681.01	7,660.01	7,660.01	133.50	132.71	67.26	-5,430.97	3,212.61	7,517.44	7,273.72	243.72	30.845		
10,200.00	7,696.85	7,675.85	7,675.85	133.52	132.98	68.44	-5,430.97	3,212.61	7,479.96	7,235.80	244.16	30.636		
10,250.00	7,709.70	7,688.70	7,688.70	133.51	133.21	70.52	-5,430.97	3,212.61	7,440.06	7,195.55	244.52	30.428		
10,300.00	7,719.47	7,701.53	7,698.47	133.46	133.43	73.73	-5,430.97	3,212.61	7,398.03	7,153.19	244.84	30.215		
10,350.00	7,726.09	7,705.09	7,705.09	133.37	133.49	78.42	-5,430.97	3,212.61	7,354.18	7,109.19	244.98	30.019		
10,400.00	7,729.50	7,708.50	7,708.50	133.26	133.55	85.13	-5,430.97	3,212.61	7,308.80	7,063.70	245.10	29.820		
10,427.79	7,730.00	7,709.00	7,709.00	133.18	133.56	90.00	-5,430.97	3,212.61	7,283.04	7,037.90	245.13	29.711		
10,500.00	7,730.00	7,709.00	7,709.00	132.98	133.56	90.00	-5,430.97	3,212.61	7,215.73	6,970.54	245.19	29.429		
10,600.00	7,730.00	7,709.00	7,709.00	132.72	133.56	90.00	-5,430.97	3,212.61	7,122.67	6,877.40	245.26	29.041		
10,700.00	7,730.00	7,709.00	7,709.00	132.47	133.56	90.00	-5,430.97	3,212.61	7,029.80	6,784.45	245.34	28.653		
10,800.00	7,730.00	7,709.00	7,709.00	132.22	133.56	90.00	-5,430.97	3,212.61	6,937.12	6,691.70	245.42	28.266		
10,900.00	7,730.00	7,709.00	7,709.00	131.99	133.56	90.00	-5,430.97	3,212.61	6,844.66	6,599.15	245.51	27.880		
11,000.00	7,730.00	7,709.00	7,709.00	131.77	133.56	90.00	-5,430.97	3,212.61	6,752.41	6,506.81	245.59	27.494		
11,100.00	7,730.00	7,709.00	7,709.00	131.56	133.56	90.00	-5,430.97	3,212.61	6,660.38	6,414.70	245.68	27.110		
11,200.00	7,730.00	7,709.00	7,709.00	131.36	133.56	90.00	-5,430.97	3,212.61	6,568.59	6,322.81	245.77	26.726		
11,300.00	7,730.00	7,709.00	7,709.00	131.17	133.56	90.00	-5,430.97	3,212.61	6,477.04	6,231.17	245.86	26.344		
11,400.00	7,730.00	7,709.00	7,709.00	130.99	133.56	90.00	-5,430.97	3,212.61	6,385.74	6,139.78	245.96	25.963		
11,500.00	7,730.00	7,709.00	7,709.00	130.82	133.56	90.00	-5,430.97	3,212.61	6,294.70	6,048.65	246.06	25.582		
11,600.00	7,730.00	7,709.00	7,709.00	130.66	133.56	90.00	-5,430.97	3,212.61	6,203.95	5,957.79	246.16	25.203		
11,700.00	7,730.00	7,709.00	7,709.00	130.51	133.56	90.00	-5,430.97	3,212.61	6,113.48	5,867.22	246.26	24.825		
11,800.00	7,730.00	7,709.00	7,709.00	130.37	133.56	90.00	-5,430.97	3,212.61	6,023.31	5,776.95	246.37	24.449		
11,900.00	7,730.00	7,709.00	7,709.00	130.24	133.56	90.00	-5,430.97	3,212.61	5,933.46	5,686.98	246.47	24.073		
12,000.00	7,730.00	7,709.00	7,709.00	130.13	133.56	90.00	-5,430.97	3,212.61	5,843.94	5,597.35	246.59	23.699		
12,100.00	7,730.00	7,709.00	7,709.00	130.02	133.56	90.00	-5,430.97	3,212.61	5,754.76	5,508.06	246.70	23.327		
12,200.00	7,730.00	7,709.00	7,709.00	129.93	133.56	90.00	-5,430.97	3,212.61	5,665.94	5,419.13	246.82	22.956		
12,300.00	7,730.00	7,709.00	7,709.00	129.85	133.56	90.00	-5,430.97	3,212.61	5,577.51	5,330.57	246.94	22.587		
12,400.00	7,730.00	7,709.00	7,709.00	129.77	133.56	90.00	-5,430.97	3,212.61	5,489.47	5,242.41	247.06	22.219		
12,500.00	7,730.00	7,709.00	7,709.00	129.71	133.56	90.00	-5,430.97	3,212.61	5,401.84	5,154.66	247.19	21.853		
12,600.00	7,730.00	7,709.00	7,709.00	129.66	133.56	90.00	-5,430.97	3,212.61	5,314.66	5,067.34	247.31	21.489		
12,700.00	7,730.00	7,709.00	7,709.00	129.63	133.56	90.00	-5,430.97	3,212.61	5,227.93	4,980.48	247.45	21.128		
12,800.00	7,730.00	7,709.00	7,709.00	129.60	133.56	90.00	-5,430.97	3,212.61	5,141.68	4,894.10	247.58	20.768		
12,900.00	7,730.00	7,709.00	7,709.00	129.59	133.56	90.00	-5,430.97	3,212.61	5,055.94	4,808.22	247.72	20.410		
13,000.00	7,730.00	7,709.00	7,709.00	129.59	133.56	90.00	-5,430.97	3,212.61	4,970.73	4,722.87	247.86	20.055		
13,100.00	7,730.00	7,709.00	7,709.00	129.60	133.56	90.00	-5,430.97	3,212.61	4,886.09	4,638.09	248.00	19.702		
13,200.00	7,730.00	7,709.00	7,709.00	129.63	133.56	90.00	-5,430.97	3,212.61	4,802.03	4,553.88	248.15	19.351		
13,300.00	7,730.00	7,709.00	7,709.00	129.66	133.56	90.00	-5,430.97	3,212.61	4,718.60	4,470.30	248.30	19.004		
13,400.00	7,730.00	7,709.00	7,709.00	129.72	133.56	90.00	-5,430.97	3,212.61	4,635.82	4,387.37	248.45	18.659		
13,500.00	7,730.00	7,709.00	7,709.00	129.78	133.56	90.00	-5,430.97	3,212.61	4,553.73	4,305.13	248.60	18.317		
13,600.00	7,730.00	7,709.00	7,709.00	129.86	133.56	90.00	-5,430.97	3,212.61	4,472.38	4,223.62	248.76	17.979		
13,700.00	7,730.00	7,709.00	7,709.00	129.96	133.56	90.00	-5,430.97	3,212.61	4,391.79	4,142.87	248.92	17.643		
13,800.00	7,730.00	7,709.00	7,709.00	130.07	133.56	90.00	-5,430.97	3,212.61	4,312.01	4,062.93	249.08	17.312		
13,900.00	7,730.00	7,709.00	7,709.00	130.19	133.56	90.00	-5,430.97	3,212.61	4,233.10	3,983.86	249.24	16.984		
14,000.00	7,730.00	7,709.00	7,709.00	130.33	133.56	90.00	-5,430.97	3,212.61	4,155.09	3,905.69	249.41	16.660		
14,100.00	7,730.00	7,709.00	7,709.00	130.49	133.56	90.00	-5,430.97	3,212.61	4,078.04	3,828.48	249.57	16.340		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,709.00	7,709.00	130.67	133.56	90.00	-5,430.97	3,212.61	4,002.01	3,752.28	249.73	16.025		
14,300.00	7,730.00	7,709.00	7,709.00	130.86	133.56	90.00	-5,430.97	3,212.61	3,927.06	3,677.16	249.90	15.715		
14,400.00	7,730.00	7,709.00	7,709.00	131.07	133.56	90.00	-5,430.97	3,212.61	3,853.24	3,603.18	250.06	15.409		
14,500.00	7,730.00	7,709.00	7,709.00	131.30	133.56	90.00	-5,430.97	3,212.61	3,780.62	3,530.40	250.22	15.109		
14,600.00	7,730.00	7,709.00	7,709.00	131.55	133.56	90.00	-5,430.97	3,212.61	3,709.28	3,458.90	250.38	14.815		
14,700.00	7,730.00	7,709.00	7,709.00	131.82	133.56	90.00	-5,430.97	3,212.61	3,639.29	3,388.76	250.53	14.526		
14,800.00	7,730.00	7,709.00	7,709.00	132.11	133.56	90.00	-5,430.97	3,212.61	3,570.72	3,320.04	250.68	14.244		
14,900.00	7,730.00	7,709.00	7,709.00	132.42	133.56	90.00	-5,430.97	3,212.61	3,503.67	3,252.85	250.82	13.969		
15,000.00	7,730.00	7,709.00	7,709.00	132.75	133.56	90.00	-5,430.97	3,212.61	3,438.22	3,187.27	250.96	13.700		
15,100.00	7,730.00	7,709.00	7,709.00	133.10	133.56	90.00	-5,430.97	3,212.61	3,374.47	3,123.39	251.08	13.440		
15,200.00	7,730.00	7,709.00	7,709.00	133.48	133.56	90.00	-5,430.97	3,212.61	3,312.51	3,061.31	251.20	13.187		
15,300.00	7,730.00	7,709.00	7,709.00	133.88	133.56	90.00	-5,430.97	3,212.61	3,252.44	3,001.14	251.30	12.942		
15,400.00	7,730.00	7,709.00	7,709.00	134.31	133.56	90.00	-5,430.97	3,212.61	3,194.37	2,942.99	251.39	12.707		
15,500.00	7,730.00	7,709.00	7,709.00	134.76	133.56	90.00	-5,430.97	3,212.61	3,138.42	2,886.96	251.46	12.481		
15,600.00	7,730.00	7,709.00	7,709.00	135.23	133.56	90.00	-5,430.97	3,212.61	3,084.69	2,833.19	251.51	12.265		
15,700.00	7,730.00	7,709.00	7,709.00	135.73	133.56	90.00	-5,430.97	3,212.61	3,033.31	2,781.78	251.54	12.059		
15,800.00	7,730.00	7,709.00	7,709.00	136.26	133.56	90.00	-5,430.97	3,212.61	2,984.40	2,732.86	251.54	11.864		
15,900.00	7,730.00	7,709.00	7,709.00	136.81	133.56	90.00	-5,430.97	3,212.61	2,938.08	2,686.56	251.52	11.681		
16,000.00	7,730.00	7,709.00	7,709.00	137.39	133.56	90.00	-5,430.97	3,212.61	2,894.47	2,643.00	251.47	11.510		
16,100.00	7,730.00	7,709.00	7,709.00	138.00	133.56	90.00	-5,430.97	3,212.61	2,853.71	2,602.32	251.39	11.352		
16,200.00	7,730.00	7,709.00	7,709.00	138.63	133.56	90.00	-5,430.97	3,212.61	2,815.90	2,564.62	251.28	11.206		
16,300.00	7,730.00	7,709.00	7,709.00	139.30	133.56	90.00	-5,430.97	3,212.61	2,781.18	2,530.05	251.12	11.075		
16,400.00	7,730.00	7,709.00	7,709.00	139.99	133.56	90.00	-5,430.97	3,212.61	2,749.66	2,498.72	250.94	10.958		
16,500.00	7,730.00	7,709.00	7,709.00	140.70	133.56	90.00	-5,430.97	3,212.61	2,721.45	2,470.73	250.71	10.855		
16,600.00	7,730.00	7,709.00	7,709.00	141.45	133.56	90.00	-5,430.97	3,212.61	2,696.65	2,446.20	250.45	10.767		
16,700.00	7,730.00	7,709.00	7,709.00	142.22	133.56	90.00	-5,430.97	3,212.61	2,675.37	2,425.22	250.15	10.695		
16,800.00	7,730.00	7,709.00	7,709.00	143.03	133.56	90.00	-5,430.97	3,212.61	2,657.68	2,407.87	249.80	10.639		
16,900.00	7,730.00	7,709.00	7,709.00	143.86	133.56	90.00	-5,430.97	3,212.61	2,643.65	2,394.23	249.43	10.599		
17,000.00	7,730.00	7,709.00	7,709.00	144.71	133.56	90.00	-5,430.97	3,212.61	2,633.36	2,384.35	249.01	10.575		
17,100.00	7,730.00	7,709.00	7,709.00	145.60	133.56	90.00	-5,430.97	3,212.61	2,626.83	2,378.26	248.56	10.568 SF		
17,200.00	7,730.00	7,709.00	7,709.00	146.51	133.56	90.00	-5,430.97	3,212.61	2,624.10	2,376.01	248.09	10.577 ES		
17,221.70	7,730.00	7,709.00	7,709.00	146.71	133.56	90.00	-5,430.97	3,212.61	2,624.01	2,376.03	247.98	10.582 CC		
17,300.00	7,730.00	7,709.00	7,709.00	147.44	133.56	90.00	-5,430.97	3,212.61	2,625.18	2,377.59	247.58	10.603		
17,400.00	7,730.00	7,709.00	7,709.00	148.40	133.56	90.00	-5,430.97	3,212.61	2,630.06	2,383.00	247.06	10.645		
17,500.00	7,730.00	7,709.00	7,709.00	149.39	133.56	90.00	-5,430.97	3,212.61	2,638.72	2,392.21	246.52	10.704		
17,600.00	7,730.00	7,709.00	7,709.00	150.40	133.56	90.00	-5,430.97	3,212.61	2,651.14	2,405.17	245.96	10.779		
17,700.00	7,730.00	7,709.00	7,709.00	151.44	133.56	90.00	-5,430.97	3,212.61	2,667.24	2,421.84	245.40	10.869		
17,800.00	7,730.00	7,709.00	7,709.00	152.50	133.56	90.00	-5,430.97	3,212.61	2,686.98	2,442.14	244.84	10.975		
17,900.00	7,730.00	7,709.00	7,709.00	153.58	133.56	90.00	-5,430.97	3,212.61	2,710.26	2,465.98	244.28	11.095		
18,000.00	7,730.00	7,709.00	7,709.00	154.68	133.56	90.00	-5,430.97	3,212.61	2,737.00	2,493.28	243.72	11.230		
18,100.00	7,730.00	7,709.00	7,709.00	155.80	133.56	90.00	-5,430.97	3,212.61	2,767.10	2,523.92	243.17	11.379		
18,200.00	7,730.00	7,709.00	7,709.00	156.95	133.56	90.00	-5,430.97	3,212.61	2,800.44	2,557.80	242.64	11.541		
18,300.00	7,730.00	7,709.00	7,709.00	158.11	133.56	90.00	-5,430.97	3,212.61	2,836.92	2,594.79	242.13	11.717		
18,400.00	7,730.00	7,709.00	7,709.00	159.30	133.56	90.00	-5,430.97	3,212.61	2,876.42	2,634.78	241.64	11.904		
18,500.00	7,730.00	7,709.00	7,709.00	160.50	133.56	90.00	-5,430.97	3,212.61	2,918.81	2,677.64	241.17	12.103		
18,600.00	7,730.00	7,709.00	7,709.00	161.72	133.56	90.00	-5,430.97	3,212.61	2,963.97	2,723.25	240.72	12.313		
18,700.00	7,730.00	7,709.00	7,709.00	162.96	133.56	90.00	-5,430.97	3,212.61	3,011.77	2,771.48	240.30	12.534		
18,800.00	7,730.00	7,709.00	7,709.00	164.21	133.56	90.00	-5,430.97	3,212.61	3,062.10	2,822.20	239.90	12.764		
18,900.00	7,730.00	7,709.00	7,709.00	165.48	133.56	90.00	-5,430.97	3,212.61	3,114.82	2,875.29	239.53	13.004		
19,000.00	7,730.00	7,709.00	7,709.00	166.76	133.56	90.00	-5,430.97	3,212.61	3,169.82	2,930.63	239.18	13.253		
19,100.00	7,730.00	7,709.00	7,709.00	168.06	133.56	90.00	-5,430.97	3,212.61	3,226.98	2,988.12	238.86	13.510		
19,200.00	7,730.00	7,709.00	7,709.00	169.38	133.56	90.00	-5,430.97	3,212.61	3,286.19	3,047.62	238.57	13.775		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,709.00	7,709.00	170.70	133.56	90.00	-5,430.97	3,212.61	3,347.35	3,109.05	238.30	14.047	
19,400.00	7,730.00	7,709.00	7,709.00	172.04	133.56	90.00	-5,430.97	3,212.61	3,410.34	3,172.28	238.05	14.326	
19,500.00	7,730.00	7,709.00	7,709.00	173.40	133.56	90.00	-5,430.97	3,212.61	3,475.06	3,237.23	237.83	14.612	
19,600.00	7,730.00	7,709.00	7,709.00	174.76	133.56	90.00	-5,430.97	3,212.61	3,541.43	3,303.80	237.63	14.903	
19,700.00	7,730.00	7,709.00	7,709.00	176.14	133.56	90.00	-5,430.97	3,212.61	3,609.34	3,371.90	237.44	15.201	
19,800.00	7,730.00	7,709.00	7,709.00	177.52	133.56	90.00	-5,430.97	3,212.61	3,678.73	3,441.45	237.28	15.504	
19,900.00	7,730.00	7,709.00	7,709.00	178.92	133.56	90.00	-5,430.97	3,212.61	3,749.49	3,512.36	237.13	15.812	
20,000.00	7,730.00	7,709.00	7,709.00	180.33	133.56	90.00	-5,430.97	3,212.61	3,821.56	3,584.56	237.00	16.125	
20,100.00	7,730.00	7,709.00	7,709.00	181.75	133.56	90.00	-5,430.97	3,212.61	3,894.87	3,657.98	236.88	16.442	
20,184.95	7,730.00	7,709.00	7,709.00	182.96	133.56	90.00	-5,430.97	3,212.61	3,958.06	3,721.27	236.80	16.715	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.61	-5,558.76	5,634.07	7,914.80					
100.00	100.00	62.00	62.00	0.13	0.51	134.61	-5,558.76	5,634.07	7,914.71	7,914.06	0.65	N/A		
200.00	199.98	161.98	161.98	0.49	1.91	64.19	-5,558.76	5,634.07	7,913.95	7,911.55	2.40	3,296.061		
300.00	299.84	261.84	261.84	0.86	3.65	64.26	-5,558.76	5,634.07	7,911.67	7,907.16	4.51	1,755.596		
400.00	399.45	361.45	361.45	1.23	5.39	64.39	-5,558.76	5,634.07	7,907.88	7,901.26	6.62	1,194.626		
500.00	498.70	460.70	460.70	1.63	7.12	64.56	-5,558.76	5,634.07	7,902.60	7,893.85	8.74	903.933		
600.00	597.47	559.47	559.47	2.05	8.85	64.78	-5,558.76	5,634.07	7,895.84	7,884.96	10.88	725.827		
700.00	695.62	657.62	657.62	2.51	10.56	65.06	-5,558.76	5,634.07	7,887.62	7,874.59	13.03	605.320		
800.00	793.06	755.06	755.06	3.00	12.26	65.38	-5,558.76	5,634.07	7,877.99	7,862.79	15.20	518.229		
900.00	889.64	851.64	851.64	3.53	13.95	65.75	-5,558.76	5,634.07	7,866.97	7,849.58	17.39	452.257		
1,000.00	985.27	947.27	947.27	4.12	15.62	66.16	-5,558.76	5,634.07	7,854.61	7,835.00	19.61	400.490		
1,100.00	1,079.82	1,041.82	1,041.82	4.75	17.27	66.62	-5,558.76	5,634.07	7,840.95	7,819.09	21.86	358.741		
1,200.00	1,173.17	1,135.17	1,135.17	5.44	18.90	67.13	-5,558.76	5,634.07	7,826.04	7,801.91	24.13	324.327		
1,300.00	1,265.21	1,227.21	1,227.21	6.18	20.50	67.68	-5,558.76	5,634.07	7,809.94	7,783.51	26.43	295.450		
1,400.00	1,355.84	1,317.84	1,317.84	6.99	22.08	68.26	-5,558.76	5,634.07	7,792.71	7,763.94	28.77	270.859		
1,500.00	1,444.94	1,406.94	1,406.94	7.87	23.64	68.89	-5,558.76	5,634.07	7,774.42	7,743.28	31.14	249.657		
1,600.00	1,532.39	1,505.61	1,494.39	8.80	25.36	69.56	-5,558.76	5,634.07	7,755.12	7,721.38	33.74	229.842		
1,700.00	1,618.11	1,580.11	1,580.11	9.81	26.66	70.26	-5,558.76	5,634.07	7,734.91	7,698.92	35.99	214.941		
1,800.00	1,701.97	1,663.97	1,663.97	10.89	28.13	70.99	-5,558.76	5,634.07	7,713.85	7,675.39	38.46	200.549		
1,900.00	1,783.88	1,745.88	1,745.88	12.04	29.56	71.76	-5,558.76	5,634.07	7,692.02	7,651.05	40.98	187.710		
2,000.00	1,863.74	1,825.74	1,825.74	13.26	30.95	72.55	-5,558.76	5,634.07	7,669.52	7,625.99	43.53	176.189		
2,100.00	1,941.45	1,903.45	1,903.45	14.55	32.31	73.36	-5,558.76	5,634.07	7,646.42	7,600.30	46.12	165.798		
2,200.00	2,016.92	1,978.92	1,978.92	15.92	33.62	74.19	-5,558.76	5,634.07	7,622.82	7,574.08	48.74	156.383		
2,292.11	2,084.36	2,046.36	2,046.36	17.25	34.80	74.97	-5,558.76	5,634.07	7,600.72	7,549.52	51.19	148.466		
2,300.00	2,090.06	2,052.06	2,052.06	17.36	34.90	75.00	-5,558.76	5,634.07	7,598.81	7,547.41	51.41	147.819		
2,400.00	2,162.18	2,124.18	2,124.18	18.84	36.16	75.38	-5,558.76	5,634.07	7,574.98	7,520.88	54.09	140.033		
2,500.00	2,234.31	2,203.69	2,196.31	20.33	37.55	75.76	-5,558.76	5,634.07	7,551.70	7,494.77	56.93	132.650		
2,600.00	2,306.43	2,268.43	2,268.43	21.83	38.68	76.14	-5,558.76	5,634.07	7,528.99	7,469.46	59.52	126.488		
2,700.00	2,378.56	2,340.56	2,340.56	23.33	39.93	76.51	-5,558.76	5,634.07	7,506.85	7,444.59	62.26	120.573		
2,800.00	2,450.68	2,412.68	2,412.68	24.84	41.19	76.90	-5,558.76	5,634.07	7,485.28	7,420.27	65.01	115.142		
2,900.00	2,522.81	2,484.81	2,484.81	26.36	42.45	77.28	-5,558.76	5,634.07	7,464.29	7,396.52	67.77	110.143		
3,000.00	2,594.93	2,556.93	2,556.93	27.88	43.71	77.66	-5,558.76	5,634.07	7,443.89	7,373.35	70.54	105.527		
3,100.00	2,667.06	2,629.06	2,629.06	29.40	44.97	78.04	-5,558.76	5,634.07	7,424.08	7,350.76	73.32	101.256		
3,200.00	2,739.18	2,701.18	2,701.18	30.92	46.23	78.43	-5,558.76	5,634.07	7,404.87	7,328.76	76.11	97.293		
3,300.00	2,811.31	2,773.31	2,773.31	32.45	47.49	78.82	-5,558.76	5,634.07	7,386.25	7,307.35	78.91	93.609		
3,400.00	2,883.43	2,845.43	2,845.43	33.98	48.75	79.20	-5,558.76	5,634.07	7,368.24	7,286.53	81.71	90.176		
3,500.00	2,955.56	2,917.56	2,917.56	35.51	50.00	79.59	-5,558.76	5,634.07	7,350.84	7,266.32	84.52	86.972		
3,600.00	3,027.68	2,989.68	2,989.68	37.04	51.26	79.98	-5,558.76	5,634.07	7,334.05	7,246.71	87.34	83.974		
3,700.00	3,099.81	3,061.81	3,061.81	38.57	52.52	80.37	-5,558.76	5,634.07	7,317.88	7,227.72	90.16	81.167		
3,800.00	3,171.93	3,133.93	3,133.93	40.11	53.78	80.76	-5,558.76	5,634.07	7,302.33	7,209.34	92.99	78.532		
3,900.00	3,244.06	3,206.06	3,206.06	41.64	55.04	81.15	-5,558.76	5,634.07	7,287.40	7,191.58	95.82	76.055		
4,000.00	3,316.18	3,278.18	3,278.18	43.18	56.30	81.55	-5,558.76	5,634.07	7,273.11	7,174.45	98.65	73.724		
4,100.00	3,388.31	3,350.31	3,350.31	44.71	57.56	81.94	-5,558.76	5,634.07	7,259.44	7,157.95	101.49	71.527		
4,200.00	3,460.43	3,422.43	3,422.43	46.25	58.82	82.33	-5,558.76	5,634.07	7,246.41	7,142.08	104.33	69.454		
4,300.00	3,532.56	3,505.44	3,494.56	47.79	60.27	82.73	-5,558.76	5,634.07	7,234.03	7,126.66	107.37	67.376		
4,400.00	3,604.68	3,566.68	3,566.68	49.33	61.33	83.12	-5,558.76	5,634.07	7,222.28	7,112.26	110.02	65.642		
4,500.00	3,676.81	3,638.81	3,638.81	50.87	62.59	83.52	-5,558.76	5,634.07	7,211.18	7,098.31	112.87	63.887		
4,600.00	3,748.93	3,710.93	3,710.93	52.41	63.85	83.92	-5,558.76	5,634.07	7,200.73	7,085.01	115.72	62.224		
4,700.00	3,821.06	3,783.06	3,783.06	53.95	65.11	84.32	-5,558.76	5,634.07	7,190.94	7,072.36	118.57	60.646		
4,800.00	3,893.18	3,855.18	3,855.18	55.49	66.37	84.71	-5,558.76	5,634.07	7,181.79	7,060.37	121.42	59.147		
4,900.00	3,965.31	3,927.31	3,927.31	57.03	67.63	85.11	-5,558.76	5,634.07	7,173.31	7,049.04	124.27	57.722		
5,000.00	4,037.43	4,000.57	3,999.43	58.58	68.91	85.51	-5,558.76	5,634.07	7,165.48	7,038.34	127.14	56.358		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,071.56	4,071.56	60.12	70.15	85.91	-5,558.76	5,634.07	7,158.32	7,028.35	129.97	55.077		
5,200.00	4,181.68	4,143.68	4,143.68	61.66	71.40	86.31	-5,558.76	5,634.07	7,151.82	7,019.00	132.82	53.847		
5,300.00	4,253.81	4,215.81	4,215.81	63.20	72.66	86.71	-5,558.76	5,634.07	7,145.99	7,010.32	135.66	52.675		
5,400.00	4,325.93	4,287.93	4,287.93	64.75	73.92	87.11	-5,558.76	5,634.07	7,140.82	7,002.32	138.50	51.557		
5,500.00	4,398.06	4,360.06	4,360.06	66.29	75.18	87.51	-5,558.76	5,634.07	7,136.32	6,994.98	141.34	50.490		
5,600.00	4,470.18	4,432.18	4,432.18	67.84	76.44	87.91	-5,558.76	5,634.07	7,132.49	6,988.31	144.18	49.470		
5,700.00	4,542.31	4,504.31	4,504.31	69.38	77.70	88.32	-5,558.76	5,634.07	7,129.33	6,982.32	147.01	48.496		
5,800.00	4,614.43	4,576.43	4,576.43	70.92	78.96	88.72	-5,558.76	5,634.07	7,126.85	6,977.01	149.84	47.564		
5,900.00	4,686.56	4,648.56	4,648.56	72.47	80.22	89.12	-5,558.76	5,634.07	7,125.03	6,972.37	152.66	46.673		
6,000.00	4,758.68	4,720.68	4,720.68	74.01	81.48	89.52	-5,558.76	5,634.07	7,123.89	6,968.42	155.48	45.820		
6,100.00	4,830.81	4,807.19	4,792.81	75.56	82.99	89.92	-5,558.76	5,634.07	7,123.43	6,964.89	158.54	44.931		
6,119.33	4,844.75	4,806.75	4,806.75	75.86	82.98	90.00	-5,558.76	5,634.07	7,123.41	6,964.58	158.83	44.849		
6,200.00	4,902.93	4,864.93	4,864.93	77.10	83.99	90.32	-5,558.76	5,634.07	7,123.63	6,962.54	161.09	44.220		
6,300.00	4,975.06	4,937.06	4,937.06	78.65	85.25	90.73	-5,558.76	5,634.07	7,124.51	6,960.62	163.89	43.470		
6,400.00	5,047.18	5,009.18	5,009.18	80.19	86.51	91.13	-5,558.76	5,634.07	7,126.07	6,959.38	166.69	42.751		
6,500.00	5,119.31	5,081.31	5,081.31	81.74	87.77	91.53	-5,558.76	5,634.07	7,128.29	6,958.82	169.47	42.062		
6,600.00	5,191.43	5,153.43	5,153.43	83.28	89.03	91.93	-5,558.76	5,634.07	7,131.19	6,958.94	172.25	41.400		
6,700.00	5,263.56	5,225.56	5,225.56	84.83	90.29	92.33	-5,558.76	5,634.07	7,134.76	6,959.74	175.02	40.765		
6,800.00	5,335.68	5,302.32	5,297.68	86.37	91.63	92.73	-5,558.76	5,634.07	7,139.00	6,961.14	177.86	40.138		
6,900.00	5,407.81	5,369.81	5,369.81	87.92	92.80	93.13	-5,558.76	5,634.07	7,143.91	6,963.37	180.53	39.571		
7,000.00	5,479.93	5,425.00	5,425.00	89.47	93.77	93.44	-5,558.76	5,634.07	7,149.51	6,966.53	182.98	39.073		
7,100.00	5,552.06	5,425.00	5,425.00	91.01	93.77	93.44	-5,558.76	5,634.07	7,156.28	6,971.85	184.43	38.802		
7,200.00	5,624.18	5,425.00	5,425.00	92.56	93.77	93.44	-5,558.76	5,634.07	7,164.45	6,978.60	185.85	38.549		
7,300.00	5,696.31	5,425.00	5,425.00	94.10	93.77	93.44	-5,558.76	5,634.07	7,174.00	6,986.76	187.25	38.313		
7,400.00	5,768.43	5,425.00	5,425.00	95.65	93.77	93.44	-5,558.76	5,634.07	7,184.93	6,996.32	188.61	38.095		
7,500.00	5,840.56	5,425.00	5,425.00	97.20	93.77	93.44	-5,558.76	5,634.07	7,197.23	7,007.30	189.94	37.893		
7,600.00	5,912.68	5,425.00	5,425.00	98.74	93.77	93.44	-5,558.76	5,634.07	7,210.90	7,019.67	191.24	37.707		
7,700.00	5,984.81	5,425.00	5,425.00	100.29	93.77	93.44	-5,558.76	5,634.07	7,225.93	7,033.43	192.50	37.537		
7,800.00	6,056.93	5,425.00	5,425.00	101.84	93.77	93.44	-5,558.76	5,634.07	7,242.31	7,048.57	193.74	37.382		
7,900.00	6,129.06	5,425.00	5,425.00	103.38	93.77	93.44	-5,558.76	5,634.07	7,260.03	7,065.09	194.94	37.243		
8,000.00	6,201.18	5,425.00	5,425.00	104.93	93.77	93.44	-5,558.76	5,634.07	7,279.08	7,082.97	196.11	37.118		
8,100.00	6,273.31	5,425.00	5,425.00	106.48	93.77	93.44	-5,558.76	5,634.07	7,299.45	7,102.20	197.25	37.007		
8,200.00	6,345.43	5,425.00	5,425.00	108.02	93.77	93.44	-5,558.76	5,634.07	7,321.12	7,122.77	198.35	36.910		
8,300.00	6,417.56	5,425.00	5,425.00	109.57	93.77	93.44	-5,558.76	5,634.07	7,344.10	7,144.68	199.42	36.827		
8,400.00	6,489.68	5,425.00	5,425.00	111.12	93.77	93.44	-5,558.76	5,634.07	7,368.36	7,167.90	200.46	36.758		
8,500.00	6,561.81	5,425.00	5,425.00	112.66	93.77	93.44	-5,558.76	5,634.07	7,393.90	7,192.43	201.46	36.701		
8,600.00	6,633.93	5,425.00	5,425.00	114.21	93.77	93.44	-5,558.76	5,634.07	7,420.69	7,218.25	202.44	36.657		
8,700.00	6,706.06	5,425.00	5,425.00	115.76	93.77	93.44	-5,558.76	5,634.07	7,448.73	7,245.35	203.38	36.625		
8,800.00	6,778.18	5,425.00	5,425.00	117.30	93.77	93.44	-5,558.76	5,634.07	7,478.01	7,273.72	204.29	36.606		
8,900.00	6,850.31	5,425.00	5,425.00	118.85	93.77	93.44	-5,558.76	5,634.07	7,508.50	7,303.33	205.16	36.598		
9,000.00	6,922.43	5,425.00	5,425.00	120.40	93.77	93.44	-5,558.76	5,634.07	7,540.19	7,334.18	206.01	36.602		
9,100.00	6,994.56	5,425.00	5,425.00	121.95	93.77	93.44	-5,558.76	5,634.07	7,573.07	7,366.25	206.82	36.617		
9,200.00	7,066.68	5,425.00	5,425.00	123.49	93.77	93.44	-5,558.76	5,634.07	7,607.13	7,399.52	207.60	36.643		
9,300.00	7,138.81	5,425.00	5,425.00	125.04	93.77	93.44	-5,558.76	5,634.07	7,642.34	7,433.98	208.36	36.679		
9,392.50	7,205.52	5,425.00	5,425.00	126.47	93.77	93.44	-5,558.76	5,634.07	7,675.92	7,466.90	209.02	36.723		
9,400.00	7,210.94	5,425.00	5,425.00	126.59	93.77	92.74	-5,558.76	5,634.07	7,678.64	7,469.57	209.08	36.726		
9,450.00	7,247.42	5,425.00	5,425.00	127.35	93.77	87.82	-5,558.76	5,634.07	7,694.63	7,485.20	209.43	36.741		
9,500.00	7,284.35	5,425.00	5,425.00	128.10	93.77	82.61	-5,558.76	5,634.07	7,706.80	7,497.02	209.78	36.738		
9,550.00	7,321.43	5,425.00	5,425.00	128.83	93.77	77.23	-5,558.76	5,634.07	7,715.08	7,504.98	210.11	36.720		
9,600.00	7,358.38	5,425.00	5,425.00	129.52	93.77	71.85	-5,558.76	5,634.07	7,719.43	7,509.01	210.42	36.685		
9,650.00	7,394.93	5,425.00	5,425.00	130.16	93.77	66.59	-5,558.76	5,634.07	7,719.82	7,509.10	210.71	36.637		
9,700.00	7,430.79	5,425.00	5,425.00	130.76	93.77	61.57	-5,558.76	5,634.07	7,716.23	7,505.26	210.97	36.575		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,750.00	7,465.70	5,425.00	5,425.00	131.30	93.77	56.87	-5,558.76	5,634.07	7,708.70	7,497.51	211.19	36.501		
9,800.00	7,499.38	5,425.00	5,425.00	131.78	93.77	52.51	-5,558.76	5,634.07	7,697.28	7,485.90	211.38	36.414		
9,850.00	7,531.58	5,425.00	5,425.00	132.21	93.77	48.52	-5,558.76	5,634.07	7,682.02	7,470.49	211.53	36.317		
9,900.00	7,562.06	5,425.00	5,425.00	132.57	93.77	44.87	-5,558.76	5,634.07	7,663.03	7,451.40	211.64	36.208		
9,950.00	7,590.58	5,425.00	5,425.00	132.87	93.77	41.52	-5,558.76	5,634.07	7,640.42	7,428.72	211.71	36.090		
10,000.00	7,616.93	5,425.00	5,425.00	133.11	93.77	38.43	-5,558.76	5,634.07	7,614.34	7,402.60	211.74	35.962		
10,050.00	7,640.90	5,425.00	5,425.00	133.29	93.77	35.52	-5,558.76	5,634.07	7,584.94	7,373.21	211.73	35.824		
10,100.00	7,662.32	5,425.00	5,425.00	133.42	93.77	32.74	-5,558.76	5,634.07	7,552.41	7,340.73	211.69	35.677		
10,150.00	7,681.01	5,425.00	5,425.00	133.50	93.77	29.98	-5,558.76	5,634.07	7,516.97	7,305.35	211.62	35.521		
10,200.00	7,696.85	5,425.00	5,425.00	133.52	93.77	27.12	-5,558.76	5,634.07	7,478.84	7,267.32	211.52	35.357		
10,250.00	7,709.70	5,425.00	5,425.00	133.51	93.77	24.01	-5,558.76	5,634.07	7,438.27	7,226.86	211.41	35.185		
10,300.00	7,719.47	5,425.00	5,425.00	133.46	93.77	20.37	-5,558.76	5,634.07	7,395.53	7,184.26	211.28	35.004		
10,350.00	7,726.09	5,425.00	5,425.00	133.37	93.77	15.82	-5,558.76	5,634.07	7,350.92	7,139.79	211.14	34.816		
10,400.00	7,729.50	5,425.00	5,425.00	133.26	93.77	9.65	-5,558.76	5,634.07	7,304.75	7,093.75	211.00	34.620		
10,427.79	7,730.00	5,425.00	5,425.00	133.18	93.77	5.10	-5,558.76	5,634.07	7,278.52	7,067.60	210.92	34.509		
10,500.00	7,730.00	5,425.00	5,425.00	132.98	93.77	5.10	-5,558.76	5,634.07	7,209.97	6,999.26	210.71	34.217		
10,600.00	7,730.00	5,425.00	5,425.00	132.72	93.77	5.10	-5,558.76	5,634.07	7,115.15	6,904.73	210.42	33.814		
10,700.00	7,730.00	5,425.00	5,425.00	132.47	93.77	5.10	-5,558.76	5,634.07	7,020.48	6,810.36	210.12	33.412		
10,800.00	7,730.00	5,425.00	5,425.00	132.22	93.77	5.10	-5,558.76	5,634.07	6,925.96	6,716.15	209.80	33.011		
10,900.00	7,730.00	5,425.00	5,425.00	131.99	93.77	5.10	-5,558.76	5,634.07	6,831.59	6,622.11	209.48	32.612		
11,000.00	7,730.00	5,425.00	5,425.00	131.77	93.77	5.10	-5,558.76	5,634.07	6,737.38	6,528.24	209.14	32.214		
11,100.00	7,730.00	5,425.00	5,425.00	131.56	93.77	5.10	-5,558.76	5,634.07	6,643.35	6,434.56	208.79	31.818		
11,200.00	7,730.00	5,425.00	5,425.00	131.36	93.77	5.10	-5,558.76	5,634.07	6,549.49	6,341.06	208.43	31.423		
11,300.00	7,730.00	5,425.00	5,425.00	131.17	93.77	5.10	-5,558.76	5,634.07	6,455.82	6,247.76	208.05	31.030		
11,400.00	7,730.00	5,425.00	5,425.00	130.99	93.77	5.10	-5,558.76	5,634.07	6,362.33	6,154.67	207.66	30.638		
11,500.00	7,730.00	5,425.00	5,425.00	130.82	93.77	5.10	-5,558.76	5,634.07	6,269.05	6,061.80	207.26	30.248		
11,600.00	7,730.00	5,425.00	5,425.00	130.66	93.77	5.10	-5,558.76	5,634.07	6,175.98	5,969.15	206.83	29.860		
11,700.00	7,730.00	5,425.00	5,425.00	130.51	93.77	5.10	-5,558.76	5,634.07	6,083.13	5,876.74	206.39	29.474		
11,800.00	7,730.00	5,425.00	5,425.00	130.37	93.77	5.10	-5,558.76	5,634.07	5,990.51	5,784.58	205.93	29.090		
11,900.00	7,730.00	5,425.00	5,425.00	130.24	93.77	5.10	-5,558.76	5,634.07	5,898.13	5,692.68	205.45	28.708		
12,000.00	7,730.00	5,425.00	5,425.00	130.13	93.77	5.10	-5,558.76	5,634.07	5,806.01	5,601.05	204.96	28.328		
12,100.00	7,730.00	5,425.00	5,425.00	130.02	93.77	5.10	-5,558.76	5,634.07	5,714.15	5,509.71	204.44	27.951		
12,200.00	7,730.00	5,425.00	5,425.00	129.93	93.77	5.10	-5,558.76	5,634.07	5,622.56	5,418.67	203.89	27.576		
12,300.00	7,730.00	5,425.00	5,425.00	129.85	93.77	5.10	-5,558.76	5,634.07	5,531.27	5,327.94	203.33	27.204		
12,400.00	7,730.00	5,425.00	5,425.00	129.77	93.77	5.10	-5,558.76	5,634.07	5,440.28	5,237.55	202.73	26.835		
12,500.00	7,730.00	5,425.00	5,425.00	129.71	93.77	5.10	-5,558.76	5,634.07	5,349.62	5,147.51	202.11	26.468		
12,600.00	7,730.00	5,425.00	5,425.00	129.66	93.77	5.10	-5,558.76	5,634.07	5,259.29	5,057.83	201.46	26.105		
12,700.00	7,730.00	5,425.00	5,425.00	129.63	93.77	5.10	-5,558.76	5,634.07	5,169.32	4,968.54	200.79	25.745		
12,800.00	7,730.00	5,425.00	5,425.00	129.60	93.77	5.10	-5,558.76	5,634.07	5,079.73	4,879.65	200.08	25.389		
12,900.00	7,730.00	5,425.00	5,425.00	129.59	93.77	5.10	-5,558.76	5,634.07	4,990.53	4,791.20	199.33	25.037		
13,000.00	7,730.00	5,425.00	5,425.00	129.59	93.77	5.10	-5,558.76	5,634.07	4,901.75	4,703.20	198.55	24.688		
13,100.00	7,730.00	5,425.00	5,425.00	129.60	93.77	5.10	-5,558.76	5,634.07	4,813.40	4,615.67	197.73	24.343		
13,200.00	7,730.00	5,425.00	5,425.00	129.63	93.77	5.10	-5,558.76	5,634.07	4,725.53	4,528.66	196.87	24.004		
13,300.00	7,730.00	5,425.00	5,425.00	129.66	93.77	5.10	-5,558.76	5,634.07	4,638.14	4,442.17	195.96	23.668		
13,400.00	7,730.00	5,425.00	5,425.00	129.72	93.77	5.10	-5,558.76	5,634.07	4,551.27	4,356.26	195.01	23.338		
13,500.00	7,730.00	5,425.00	5,425.00	129.78	93.77	5.10	-5,558.76	5,634.07	4,464.95	4,270.94	194.01	23.014		
13,600.00	7,730.00	5,425.00	5,425.00	129.86	93.77	5.10	-5,558.76	5,634.07	4,379.22	4,186.26	192.96	22.695		
13,700.00	7,730.00	5,425.00	5,425.00	129.96	93.77	5.10	-5,558.76	5,634.07	4,294.10	4,102.25	191.85	22.382		
13,800.00	7,730.00	5,425.00	5,425.00	130.07	93.77	5.10	-5,558.76	5,634.07	4,209.63	4,018.95	190.69	22.076		
13,900.00	7,730.00	5,425.00	5,425.00	130.19	93.77	5.10	-5,558.76	5,634.07	4,125.86	3,936.41	189.46	21.777		
14,000.00	7,730.00	5,425.00	5,425.00	130.33	93.77	5.10	-5,558.76	5,634.07	4,042.83	3,854.67	188.16	21.486		
14,100.00	7,730.00	5,425.00	5,425.00	130.49	93.77	5.10	-5,558.76	5,634.07	3,960.58	3,773.79	186.79	21.203		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,425.00	5,425.00	130.67	93.77	5.10	-5,558.76	5,634.07	3,879.17	3,693.82	185.35	20.929		
14,300.00	7,730.00	5,425.00	5,425.00	130.86	93.77	5.10	-5,558.76	5,634.07	3,798.65	3,614.82	183.83	20.664		
14,400.00	7,730.00	5,425.00	5,425.00	131.07	93.77	5.10	-5,558.76	5,634.07	3,719.07	3,536.84	182.22	20.409		
14,500.00	7,730.00	5,425.00	5,425.00	131.30	93.77	5.10	-5,558.76	5,634.07	3,640.49	3,459.96	180.53	20.166		
14,600.00	7,730.00	5,425.00	5,425.00	131.55	93.77	5.10	-5,558.76	5,634.07	3,562.99	3,384.25	178.74	19.934		
14,700.00	7,730.00	5,425.00	5,425.00	131.82	93.77	5.10	-5,558.76	5,634.07	3,486.64	3,309.79	176.85	19.715		
14,800.00	7,730.00	5,425.00	5,425.00	132.11	93.77	5.10	-5,558.76	5,634.07	3,411.51	3,236.65	174.86	19.510		
14,900.00	7,730.00	5,425.00	5,425.00	132.42	93.77	5.10	-5,558.76	5,634.07	3,337.68	3,164.93	172.76	19.320		
15,000.00	7,730.00	5,425.00	5,425.00	132.75	93.77	5.10	-5,558.76	5,634.07	3,265.25	3,094.71	170.55	19.146		
15,100.00	7,730.00	5,425.00	5,425.00	133.10	93.77	5.10	-5,558.76	5,634.07	3,194.31	3,026.10	168.21	18.990		
15,200.00	7,730.00	5,425.00	5,425.00	133.48	93.77	5.10	-5,558.76	5,634.07	3,124.96	2,959.20	165.76	18.852		
15,300.00	7,730.00	5,425.00	5,425.00	133.88	93.77	5.10	-5,558.76	5,634.07	3,057.30	2,894.12	163.18	18.735		
15,400.00	7,730.00	5,425.00	5,425.00	134.31	93.77	5.10	-5,558.76	5,634.07	2,991.46	2,830.98	160.48	18.641		
15,500.00	7,730.00	5,425.00	5,425.00	134.76	93.77	5.10	-5,558.76	5,634.07	2,927.55	2,769.90	157.65	18.570		
15,600.00	7,730.00	5,425.00	5,425.00	135.23	93.77	5.10	-5,558.76	5,634.07	2,865.71	2,711.02	154.70	18.525		
15,700.00	7,730.00	5,425.00	5,425.00	135.73	93.77	5.10	-5,558.76	5,634.07	2,806.07	2,654.45	151.62	18.507		
15,800.00	7,730.00	5,425.00	5,425.00	136.26	93.77	5.10	-5,558.76	5,634.07	2,748.78	2,600.35	148.43	18.519		
15,900.00	7,730.00	5,425.00	5,425.00	136.81	93.77	5.10	-5,558.76	5,634.07	2,693.98	2,548.85	145.13	18.563		
16,000.00	7,730.00	5,425.00	5,425.00	137.39	93.77	5.10	-5,558.76	5,634.07	2,641.83	2,500.09	141.74	18.639		
16,100.00	7,730.00	5,425.00	5,425.00	138.00	93.77	5.10	-5,558.76	5,634.07	2,592.49	2,454.22	138.27	18.749		
16,200.00	7,730.00	5,425.00	5,425.00	138.63	93.77	5.10	-5,558.76	5,634.07	2,546.12	2,411.37	134.75	18.895		
16,300.00	7,730.00	5,425.00	5,425.00	139.30	93.77	5.10	-5,558.76	5,634.07	2,502.89	2,371.69	131.21	19.076		
16,400.00	7,730.00	5,425.00	5,425.00	139.99	93.77	5.10	-5,558.76	5,634.07	2,462.97	2,335.30	127.67	19.292		
16,500.00	7,730.00	5,425.00	5,425.00	140.70	93.77	5.10	-5,558.76	5,634.07	2,426.51	2,302.32	124.19	19.539		
16,600.00	7,730.00	5,425.00	5,425.00	141.45	93.77	5.10	-5,558.76	5,634.07	2,393.68	2,272.87	120.81	19.814		
16,700.00	7,730.00	5,425.00	5,425.00	142.22	93.77	5.10	-5,558.76	5,634.07	2,364.62	2,247.03	117.59	20.109		
16,800.00	7,730.00	5,425.00	5,425.00	143.03	93.77	5.10	-5,558.76	5,634.07	2,339.48	2,224.87	114.61	20.412		
16,900.00	7,730.00	5,425.00	5,425.00	143.86	93.77	5.10	-5,558.76	5,634.07	2,318.38	2,206.41	111.97	20.705		
17,000.00	7,730.00	5,425.00	5,425.00	144.71	93.77	5.10	-5,558.76	5,634.07	2,301.44	2,191.66	109.79	20.963		
17,100.00	7,730.00	5,425.00	5,425.00	145.60	93.77	5.10	-5,558.76	5,634.07	2,288.75	2,180.55	108.20	21.152		
17,200.00	7,730.00	5,425.00	5,425.00	146.51	93.77	5.10	-5,558.76	5,634.07	2,280.38	2,172.97	107.40	21.232		
17,300.00	7,730.00	5,425.00	5,425.00	147.44	93.77	5.10	-5,558.76	5,634.07	2,276.37	2,168.83	107.54	21.168		
17,341.31	7,730.00	5,425.00	5,425.00	147.84	93.77	5.10	-5,558.76	5,634.07	2,275.99	2,168.10	107.89	21.095 CC		
17,400.00	7,730.00	5,425.00	5,425.00	148.40	93.77	5.10	-5,558.76	5,634.07	2,276.75	2,168.05	108.70	20.945 ES		
17,500.00	7,730.00	5,425.00	5,425.00	149.39	93.77	5.10	-5,558.76	5,634.07	2,281.52	2,170.65	110.87	20.578		
17,600.00	7,730.00	5,425.00	5,425.00	150.40	93.77	5.10	-5,558.76	5,634.07	2,290.65	2,176.75	113.90	20.112		
17,700.00	7,730.00	5,425.00	5,425.00	151.44	93.77	5.10	-5,558.76	5,634.07	2,304.08	2,186.51	117.57	19.597		
17,800.00	7,730.00	5,425.00	5,425.00	152.50	93.77	5.10	-5,558.76	5,634.07	2,321.75	2,200.04	121.71	19.076		
17,900.00	7,730.00	5,425.00	5,425.00	153.58	93.77	5.10	-5,558.76	5,634.07	2,343.56	2,217.42	126.14	18.579		
18,000.00	7,730.00	5,425.00	5,425.00	154.68	93.77	5.10	-5,558.76	5,634.07	2,369.39	2,238.67	130.73	18.125		
18,100.00	7,730.00	5,425.00	5,425.00	155.80	93.77	5.10	-5,558.76	5,634.07	2,399.12	2,263.74	135.38	17.722		
18,200.00	7,730.00	5,425.00	5,425.00	156.95	93.77	5.10	-5,558.76	5,634.07	2,432.59	2,292.58	140.01	17.374		
18,300.00	7,730.00	5,425.00	5,425.00	158.11	93.77	5.10	-5,558.76	5,634.07	2,469.66	2,325.08	144.58	17.082		
18,400.00	7,730.00	5,425.00	5,425.00	159.30	93.77	5.10	-5,558.76	5,634.07	2,510.17	2,361.14	149.03	16.844		
18,500.00	7,730.00	5,425.00	5,425.00	160.50	93.77	5.10	-5,558.76	5,634.07	2,553.96	2,400.63	153.33	16.656		
18,600.00	7,730.00	5,425.00	5,425.00	161.72	93.77	5.10	-5,558.76	5,634.07	2,600.85	2,443.38	157.47	16.516		
18,700.00	7,730.00	5,425.00	5,425.00	162.96	93.77	5.10	-5,558.76	5,634.07	2,650.70	2,489.27	161.43	16.420		
18,800.00	7,730.00	5,425.00	5,425.00	164.21	93.77	5.10	-5,558.76	5,634.07	2,703.32	2,538.12	165.19	16.365		
18,900.00	7,730.00	5,425.00	5,425.00	165.48	93.77	5.10	-5,558.76	5,634.07	2,758.56	2,589.80	168.76	16.346 SF		
19,000.00	7,730.00	5,425.00	5,425.00	166.76	93.77	5.10	-5,558.76	5,634.07	2,816.27	2,644.14	172.14	16.361		
19,100.00	7,730.00	5,425.00	5,425.00	168.06	93.77	5.10	-5,558.76	5,634.07	2,876.31	2,700.99	175.32	16.406		
19,200.00	7,730.00	5,425.00	5,425.00	169.38	93.77	5.10	-5,558.76	5,634.07	2,938.52	2,760.20	178.31	16.479		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,425.00	5,425.00	170.70	93.77	5.10	-5,558.76	5,634.07	3,002.77	2,821.64	181.13	16.578	
19,400.00	7,730.00	5,425.00	5,425.00	172.04	93.77	5.10	-5,558.76	5,634.07	3,068.93	2,885.17	183.76	16.700	
19,500.00	7,730.00	5,425.00	5,425.00	173.40	93.77	5.10	-5,558.76	5,634.07	3,136.89	2,950.65	186.24	16.844	
19,600.00	7,730.00	5,425.00	5,425.00	174.76	93.77	5.10	-5,558.76	5,634.07	3,206.53	3,017.98	188.55	17.006	
19,700.00	7,730.00	5,425.00	5,425.00	176.14	93.77	5.10	-5,558.76	5,634.07	3,277.74	3,087.02	190.72	17.186	
19,800.00	7,730.00	5,425.00	5,425.00	177.52	93.77	5.10	-5,558.76	5,634.07	3,350.42	3,157.67	192.75	17.383	
19,900.00	7,730.00	5,425.00	5,425.00	178.92	93.77	5.10	-5,558.76	5,634.07	3,424.48	3,229.84	194.64	17.594	
20,000.00	7,730.00	5,425.00	5,425.00	180.33	93.77	5.10	-5,558.76	5,634.07	3,499.83	3,303.41	196.41	17.819	
20,100.00	7,730.00	5,425.00	5,425.00	181.75	93.77	5.10	-5,558.76	5,634.07	3,576.38	3,378.31	198.07	18.056	
20,184.95	7,730.00	5,425.00	5,425.00	182.96	93.77	5.10	-5,558.76	5,634.07	3,642.31	3,442.92	199.40	18.267	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.48	-4,236.66	4,314.46	6,046.90					
100.00	100.00	66.00	66.00	0.13	0.52	134.48	-4,236.66	4,314.46	6,046.81	6,046.15	0.65	9,263.012		
200.00	199.98	165.98	165.98	0.49	1.94	64.05	-4,236.66	4,314.46	6,046.04	6,043.61	2.43	2,490.938		
300.00	299.84	265.84	265.84	0.86	3.68	64.14	-4,236.66	4,314.46	6,043.75	6,039.22	4.53	1,333.358		
400.00	399.45	365.45	365.45	1.23	5.42	64.28	-4,236.66	4,314.46	6,039.95	6,033.30	6.65	908.849		
500.00	498.70	464.70	464.70	1.63	7.15	64.48	-4,236.66	4,314.46	6,034.65	6,025.88	8.77	688.211		
600.00	597.47	563.47	563.47	2.05	8.87	64.74	-4,236.66	4,314.46	6,027.87	6,016.97	10.90	552.786		
700.00	695.62	661.62	661.62	2.51	10.59	65.05	-4,236.66	4,314.46	6,019.65	6,006.59	13.06	461.040		
800.00	793.06	759.06	759.06	3.00	12.29	65.41	-4,236.66	4,314.46	6,010.02	5,994.79	15.23	394.667		
900.00	889.64	855.64	855.64	3.53	13.97	65.83	-4,236.66	4,314.46	5,999.03	5,981.61	17.42	344.344		
1,000.00	985.27	951.27	951.27	4.12	15.64	66.31	-4,236.66	4,314.46	5,986.72	5,967.08	19.64	304.824		
1,100.00	1,079.82	1,045.82	1,045.82	4.75	17.29	66.83	-4,236.66	4,314.46	5,973.16	5,951.27	21.89	272.927		
1,200.00	1,173.17	1,139.17	1,139.17	5.44	18.92	67.41	-4,236.66	4,314.46	5,958.39	5,934.23	24.16	246.616		
1,300.00	1,265.21	1,231.21	1,231.21	6.18	20.53	68.03	-4,236.66	4,314.46	5,942.50	5,916.04	26.47	224.523		
1,400.00	1,355.84	1,321.84	1,321.84	6.99	22.11	68.70	-4,236.66	4,314.46	5,925.56	5,896.75	28.81	205.697		
1,500.00	1,444.94	1,410.94	1,410.94	7.87	23.67	69.41	-4,236.66	4,314.46	5,907.64	5,876.45	31.18	189.455		
1,600.00	1,532.39	1,501.61	1,498.39	8.80	25.25	70.16	-4,236.66	4,314.46	5,888.82	5,855.17	33.65	175.003		
1,700.00	1,618.11	1,584.11	1,584.11	9.81	26.69	70.95	-4,236.66	4,314.46	5,869.21	5,833.17	36.04	162.840		
1,800.00	1,701.97	1,667.97	1,667.97	10.89	28.15	71.78	-4,236.66	4,314.46	5,848.89	5,810.36	38.53	151.800		
1,900.00	1,783.88	1,749.88	1,749.88	12.04	29.58	72.63	-4,236.66	4,314.46	5,827.97	5,786.91	41.06	141.949		
2,000.00	1,863.74	1,829.74	1,829.74	13.26	30.98	73.52	-4,236.66	4,314.46	5,806.54	5,762.92	43.62	133.107		
2,100.00	1,941.45	1,907.45	1,907.45	14.55	32.33	74.42	-4,236.66	4,314.46	5,784.72	5,738.50	46.23	125.132		
2,200.00	2,016.92	1,982.92	1,982.92	15.92	33.65	75.35	-4,236.66	4,314.46	5,762.62	5,713.75	48.87	117.908		
2,292.11	2,084.36	2,050.36	2,050.36	17.25	34.83	76.21	-4,236.66	4,314.46	5,742.11	5,690.77	51.34	111.835		
2,300.00	2,090.06	2,056.06	2,056.06	17.36	34.93	76.25	-4,236.66	4,314.46	5,740.35	5,688.79	51.56	111.339		
2,400.00	2,162.18	2,128.18	2,128.18	18.84	36.18	76.75	-4,236.66	4,314.46	5,718.47	5,664.20	54.27	105.372		
2,500.00	2,234.31	2,200.31	2,200.31	20.33	37.44	77.25	-4,236.66	4,314.46	5,697.35	5,640.35	57.00	99.951		
2,600.00	2,306.43	2,272.43	2,272.43	21.83	38.70	77.75	-4,236.66	4,314.46	5,677.00	5,617.25	59.75	95.012		
2,700.00	2,378.56	2,344.56	2,344.56	23.33	39.96	78.25	-4,236.66	4,314.46	5,657.42	5,594.91	62.51	90.499		
2,800.00	2,450.68	2,416.68	2,416.68	24.84	41.22	78.76	-4,236.66	4,314.46	5,638.62	5,573.33	65.29	86.362		
2,900.00	2,522.81	2,488.81	2,488.81	26.36	42.48	79.27	-4,236.66	4,314.46	5,620.62	5,552.54	68.08	82.561		
3,000.00	2,594.93	2,560.93	2,560.93	27.88	43.74	79.78	-4,236.66	4,314.46	5,603.41	5,532.53	70.88	79.058		
3,100.00	2,667.06	2,633.06	2,633.06	29.40	45.00	80.29	-4,236.66	4,314.46	5,587.01	5,513.33	73.68	75.824		
3,200.00	2,739.18	2,705.18	2,705.18	30.92	46.25	80.80	-4,236.66	4,314.46	5,571.42	5,494.92	76.50	72.829		
3,300.00	2,811.31	2,777.31	2,777.31	32.45	47.51	81.31	-4,236.66	4,314.46	5,556.65	5,477.33	79.32	70.052		
3,400.00	2,883.43	2,849.43	2,849.43	33.98	48.77	81.83	-4,236.66	4,314.46	5,542.71	5,460.56	82.15	67.471		
3,500.00	2,955.56	2,921.56	2,921.56	35.51	50.03	82.34	-4,236.66	4,314.46	5,529.60	5,444.62	84.98	65.068		
3,600.00	3,027.68	3,006.32	2,993.68	37.04	51.51	82.86	-4,236.66	4,314.46	5,517.33	5,429.29	88.04	62.668		
3,700.00	3,099.81	3,065.81	3,065.81	38.57	52.55	83.38	-4,236.66	4,314.46	5,505.91	5,415.25	90.66	60.732		
3,800.00	3,171.93	3,137.93	3,137.93	40.11	53.81	83.90	-4,236.66	4,314.46	5,495.33	5,401.83	93.50	58.772		
3,900.00	3,244.06	3,210.06	3,210.06	41.64	55.07	84.42	-4,236.66	4,314.46	5,485.61	5,389.26	96.35	56.937		
4,000.00	3,316.18	3,282.18	3,282.18	43.18	56.32	84.94	-4,236.66	4,314.46	5,476.74	5,377.55	99.19	55.214		
4,100.00	3,388.31	3,354.31	3,354.31	44.71	57.58	85.47	-4,236.66	4,314.46	5,468.74	5,366.71	102.03	53.597		
4,200.00	3,460.43	3,426.43	3,426.43	46.25	58.84	85.99	-4,236.66	4,314.46	5,461.61	5,356.73	104.88	52.076		
4,300.00	3,532.56	3,501.44	3,498.56	47.79	60.15	86.52	-4,236.66	4,314.46	5,455.34	5,347.57	107.77	50.620		
4,400.00	3,604.68	3,570.68	3,570.68	49.33	61.36	87.04	-4,236.66	4,314.46	5,449.95	5,339.39	110.56	49.295		
4,500.00	3,676.81	3,642.81	3,642.81	50.87	62.62	87.57	-4,236.66	4,314.46	5,445.44	5,332.04	113.39	48.023		
4,600.00	3,748.93	3,714.93	3,714.93	52.41	63.88	88.09	-4,236.66	4,314.46	5,441.80	5,325.58	116.22	46.822		
4,700.00	3,821.06	3,787.06	3,787.06	53.95	65.14	88.62	-4,236.66	4,314.46	5,439.04	5,319.99	119.05	45.687		
4,800.00	3,893.18	3,859.18	3,859.18	55.49	66.40	89.14	-4,236.66	4,314.46	5,437.17	5,315.30	121.87	44.615		
4,900.00	3,965.31	3,931.31	3,931.31	57.03	67.65	89.67	-4,236.66	4,314.46	5,436.17	5,311.49	124.68	43.600		
4,962.61	4,010.46	3,976.46	3,976.46	58.00	68.44	90.00	-4,236.66	4,314.46	5,436.00	5,309.56	126.44	42.992		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,003.43	4,003.43	58.58	68.91	90.20	-4,236.66	4,314.46	5,436.06	5,308.57	127.49	42.639		
5,100.00	4,109.56	4,075.56	4,075.56	60.12	70.17	90.72	-4,236.66	4,314.46	5,436.83	5,306.55	130.29	41.729		
5,200.00	4,181.68	4,147.68	4,147.68	61.66	71.43	91.25	-4,236.66	4,314.46	5,438.49	5,305.41	133.08	40.867		
5,300.00	4,253.81	4,219.81	4,219.81	63.20	72.69	91.78	-4,236.66	4,314.46	5,441.02	5,305.17	135.86	40.049		
5,400.00	4,325.93	4,308.07	4,291.93	64.75	74.23	92.30	-4,236.66	4,314.46	5,444.44	5,305.53	138.91	39.194		
5,500.00	4,398.06	4,364.06	4,364.06	66.29	75.21	92.83	-4,236.66	4,314.46	5,448.73	5,307.34	141.39	38.538		
5,600.00	4,470.18	4,436.18	4,436.18	67.84	76.47	93.35	-4,236.66	4,314.46	5,453.90	5,309.77	144.13	37.839		
5,700.00	4,542.31	4,508.31	4,508.31	69.38	77.72	93.88	-4,236.66	4,314.46	5,459.95	5,313.07	146.87	37.175		
5,800.00	4,614.43	4,580.43	4,580.43	70.92	78.98	94.40	-4,236.66	4,314.46	5,466.86	5,317.27	149.59	36.545		
5,900.00	4,686.56	4,652.56	4,652.56	72.47	80.24	94.92	-4,236.66	4,314.46	5,474.64	5,322.34	152.30	35.945		
6,000.00	4,758.68	4,724.68	4,724.68	74.01	81.50	95.45	-4,236.66	4,314.46	5,483.29	5,328.29	155.00	35.376		
6,100.00	4,830.81	4,803.19	4,796.81	75.56	82.87	95.97	-4,236.66	4,314.46	5,492.80	5,335.00	157.79	34.810		
6,200.00	4,902.93	4,868.93	4,868.93	77.10	84.02	96.49	-4,236.66	4,314.46	5,503.16	5,342.81	160.35	34.320		
6,300.00	4,975.06	4,941.06	4,941.06	78.65	85.28	97.01	-4,236.66	4,314.46	5,514.37	5,351.37	163.00	33.830		
6,400.00	5,047.18	5,013.18	5,013.18	80.19	86.54	97.53	-4,236.66	4,314.46	5,526.43	5,360.79	165.64	33.364		
6,500.00	5,119.31	5,085.31	5,085.31	81.74	87.80	98.04	-4,236.66	4,314.46	5,539.33	5,371.07	168.26	32.921		
6,600.00	5,191.43	5,157.43	5,157.43	83.28	89.05	98.56	-4,236.66	4,314.46	5,553.06	5,382.19	170.87	32.499		
6,700.00	5,263.56	5,229.56	5,229.56	84.83	90.31	99.07	-4,236.66	4,314.46	5,567.62	5,394.17	173.45	32.098		
6,800.00	5,335.68	5,301.68	5,301.68	86.37	91.57	99.58	-4,236.66	4,314.46	5,583.00	5,406.98	176.03	31.717		
6,900.00	5,407.81	5,373.81	5,373.81	87.92	92.83	100.10	-4,236.66	4,314.46	5,599.20	5,420.62	178.58	31.354		
7,000.00	5,479.93	5,445.93	5,445.93	89.47	94.09	100.61	-4,236.66	4,314.46	5,616.20	5,435.09	181.12	31.009		
7,100.00	5,552.06	5,450.00	5,450.00	91.01	94.16	100.63	-4,236.66	4,314.46	5,634.42	5,452.01	182.41	30.889		
7,200.00	5,624.18	5,450.00	5,450.00	92.56	94.16	100.63	-4,236.66	4,314.46	5,654.34	5,470.77	183.58	30.801		
7,300.00	5,696.31	5,450.00	5,450.00	94.10	94.16	100.63	-4,236.66	4,314.46	5,675.96	5,491.26	184.70	30.731		
7,400.00	5,768.43	5,450.00	5,450.00	95.65	94.16	100.63	-4,236.66	4,314.46	5,699.25	5,513.48	185.77	30.679		
7,500.00	5,840.56	5,450.00	5,450.00	97.20	94.16	100.63	-4,236.66	4,314.46	5,724.19	5,537.40	186.79	30.645		
7,600.00	5,912.68	5,450.00	5,450.00	98.74	94.16	100.63	-4,236.66	4,314.46	5,750.76	5,563.00	187.76	30.628		
7,700.00	5,984.81	5,450.00	5,450.00	100.29	94.16	100.63	-4,236.66	4,314.46	5,778.95	5,590.26	188.69	30.627		
7,800.00	6,056.93	5,450.00	5,450.00	101.84	94.16	100.63	-4,236.66	4,314.46	5,808.71	5,619.15	189.57	30.642		
7,900.00	6,129.06	5,450.00	5,450.00	103.38	94.16	100.63	-4,236.66	4,314.46	5,840.04	5,649.64	190.40	30.673		
8,000.00	6,201.18	5,450.00	5,450.00	104.93	94.16	100.63	-4,236.66	4,314.46	5,872.90	5,681.72	191.18	30.719		
8,100.00	6,273.31	5,450.00	5,450.00	106.48	94.16	100.63	-4,236.66	4,314.46	5,907.27	5,715.35	191.92	30.779		
8,200.00	6,345.43	5,450.00	5,450.00	108.02	94.16	100.63	-4,236.66	4,314.46	5,943.13	5,750.51	192.62	30.854		
8,300.00	6,417.56	5,450.00	5,450.00	109.57	94.16	100.63	-4,236.66	4,314.46	5,980.45	5,787.18	193.27	30.943		
8,400.00	6,489.68	5,450.00	5,450.00	111.12	94.16	100.63	-4,236.66	4,314.46	6,019.19	5,825.31	193.88	31.046		
8,500.00	6,561.81	5,450.00	5,450.00	112.66	94.16	100.63	-4,236.66	4,314.46	6,059.34	5,864.89	194.45	31.161		
8,600.00	6,633.93	5,450.00	5,450.00	114.21	94.16	100.63	-4,236.66	4,314.46	6,100.86	5,905.88	194.98	31.290		
8,700.00	6,706.06	5,450.00	5,450.00	115.76	94.16	100.63	-4,236.66	4,314.46	6,143.73	5,948.26	195.47	31.430		
8,800.00	6,778.18	5,450.00	5,450.00	117.30	94.16	100.63	-4,236.66	4,314.46	6,187.92	5,991.99	195.92	31.583		
8,900.00	6,850.31	5,450.00	5,450.00	118.85	94.16	100.63	-4,236.66	4,314.46	6,233.40	6,037.06	196.34	31.748		
9,000.00	6,922.43	5,450.00	5,450.00	120.40	94.16	100.63	-4,236.66	4,314.46	6,280.14	6,083.42	196.72	31.923		
9,100.00	6,994.56	5,450.00	5,450.00	121.95	94.16	100.63	-4,236.66	4,314.46	6,328.12	6,131.05	197.07	32.110		
9,200.00	7,066.68	5,450.00	5,450.00	123.49	94.16	100.63	-4,236.66	4,314.46	6,377.30	6,179.91	197.39	32.308		
9,300.00	7,138.81	5,450.00	5,450.00	125.04	94.16	100.63	-4,236.66	4,314.46	6,427.67	6,229.99	197.68	32.516		
9,392.50	7,205.52	5,450.00	5,450.00	126.47	94.16	100.63	-4,236.66	4,314.46	6,475.28	6,277.37	197.92	32.717		
9,400.00	7,210.94	5,450.00	5,450.00	126.59	94.16	99.90	-4,236.66	4,314.46	6,479.14	6,281.21	197.93	32.734		
9,450.00	7,247.42	5,450.00	5,450.00	127.35	94.16	94.85	-4,236.66	4,314.46	6,502.87	6,304.82	198.05	32.834		
9,500.00	7,284.35	5,450.00	5,450.00	128.10	94.16	89.54	-4,236.66	4,314.46	6,523.00	6,324.83	198.17	32.916		
9,550.00	7,321.43	5,450.00	5,450.00	128.83	94.16	84.12	-4,236.66	4,314.46	6,539.41	6,341.13	198.28	32.981		
9,600.00	7,358.38	5,450.00	5,450.00	129.52	94.16	78.74	-4,236.66	4,314.46	6,552.00	6,353.62	198.38	33.028		
9,650.00	7,394.93	5,450.00	5,450.00	130.16	94.16	73.52	-4,236.66	4,314.46	6,560.70	6,362.25	198.45	33.059		
9,700.00	7,430.79	5,450.00	5,450.00	130.76	94.16	68.60	-4,236.66	4,314.46	6,565.46	6,366.95	198.51	33.074		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,450.00	5,450.00	131.30	94.16	64.03	-4,236.66	4,314.46	6,566.26	6,367.72	198.54	33.073		
9,800.00	7,499.38	5,450.00	5,450.00	131.78	94.16	59.88	-4,236.66	4,314.46	6,563.08	6,364.54	198.54	33.057		
9,850.00	7,531.58	5,450.00	5,450.00	132.21	94.16	56.14	-4,236.66	4,314.46	6,555.95	6,357.44	198.51	33.026		
9,900.00	7,562.06	5,450.00	5,450.00	132.57	94.16	52.82	-4,236.66	4,314.46	6,544.90	6,346.46	198.44	32.981		
9,950.00	7,590.58	5,450.00	5,450.00	132.87	94.16	49.89	-4,236.66	4,314.46	6,530.01	6,331.66	198.35	32.922		
10,000.00	7,616.93	5,450.00	5,450.00	133.11	94.16	47.31	-4,236.66	4,314.46	6,511.35	6,313.13	198.23	32.848		
10,050.00	7,640.90	5,450.00	5,450.00	133.29	94.16	45.06	-4,236.66	4,314.46	6,489.05	6,290.97	198.07	32.761		
10,100.00	7,662.32	5,450.00	5,450.00	133.42	94.16	43.10	-4,236.66	4,314.46	6,463.22	6,265.33	197.89	32.660		
10,150.00	7,681.01	5,450.00	5,450.00	133.50	94.16	41.38	-4,236.66	4,314.46	6,434.04	6,236.35	197.69	32.546		
10,200.00	7,696.85	5,450.00	5,450.00	133.52	94.16	39.88	-4,236.66	4,314.46	6,401.67	6,204.20	197.48	32.418		
10,250.00	7,709.70	5,450.00	5,450.00	133.51	94.16	38.54	-4,236.66	4,314.46	6,366.32	6,169.07	197.25	32.276		
10,300.00	7,719.47	5,450.00	5,450.00	133.46	94.16	37.32	-4,236.66	4,314.46	6,328.20	6,131.19	197.01	32.121		
10,350.00	7,726.09	5,450.00	5,450.00	133.37	94.16	36.15	-4,236.66	4,314.46	6,287.56	6,090.79	196.78	31.953		
10,400.00	7,729.50	5,450.00	5,450.00	133.26	94.16	34.94	-4,236.66	4,314.46	6,244.67	6,048.12	196.55	31.772		
10,427.79	7,730.00	5,450.00	5,450.00	133.18	94.16	34.20	-4,236.66	4,314.46	6,219.95	6,023.52	196.43	31.665		
10,500.00	7,730.00	5,450.00	5,450.00	132.98	94.16	34.20	-4,236.66	4,314.46	6,155.07	5,958.96	196.11	31.385		
10,600.00	7,730.00	5,450.00	5,450.00	132.72	94.16	34.20	-4,236.66	4,314.46	6,065.49	5,869.83	195.66	31.000		
10,700.00	7,730.00	5,450.00	5,450.00	132.47	94.16	34.20	-4,236.66	4,314.46	5,976.24	5,781.05	195.19	30.618		
10,800.00	7,730.00	5,450.00	5,450.00	132.22	94.16	34.20	-4,236.66	4,314.46	5,887.33	5,692.63	194.70	30.238		
10,900.00	7,730.00	5,450.00	5,450.00	131.99	94.16	34.20	-4,236.66	4,314.46	5,798.79	5,604.60	194.18	29.862		
11,000.00	7,730.00	5,450.00	5,450.00	131.77	94.16	34.20	-4,236.66	4,314.46	5,710.62	5,516.97	193.65	29.489		
11,100.00	7,730.00	5,450.00	5,450.00	131.56	94.16	34.20	-4,236.66	4,314.46	5,622.85	5,429.76	193.09	29.120		
11,200.00	7,730.00	5,450.00	5,450.00	131.36	94.16	34.20	-4,236.66	4,314.46	5,535.50	5,342.99	192.51	28.754		
11,300.00	7,730.00	5,450.00	5,450.00	131.17	94.16	34.20	-4,236.66	4,314.46	5,448.58	5,256.68	191.90	28.393		
11,400.00	7,730.00	5,450.00	5,450.00	130.99	94.16	34.20	-4,236.66	4,314.46	5,362.11	5,170.85	191.26	28.035		
11,500.00	7,730.00	5,450.00	5,450.00	130.82	94.16	34.20	-4,236.66	4,314.46	5,276.13	5,085.53	190.60	27.682		
11,600.00	7,730.00	5,450.00	5,450.00	130.66	94.16	34.20	-4,236.66	4,314.46	5,190.64	5,000.74	189.90	27.333		
11,700.00	7,730.00	5,450.00	5,450.00	130.51	94.16	34.20	-4,236.66	4,314.46	5,105.69	4,916.51	189.18	26.989		
11,800.00	7,730.00	5,450.00	5,450.00	130.37	94.16	34.20	-4,236.66	4,314.46	5,021.29	4,832.87	188.41	26.650		
11,900.00	7,730.00	5,450.00	5,450.00	130.24	94.16	34.20	-4,236.66	4,314.46	4,937.47	4,749.85	187.62	26.317		
12,000.00	7,730.00	5,450.00	5,450.00	130.13	94.16	34.20	-4,236.66	4,314.46	4,854.26	4,667.48	186.78	25.989		
12,100.00	7,730.00	5,450.00	5,450.00	130.02	94.16	34.20	-4,236.66	4,314.46	4,771.70	4,585.79	185.90	25.668		
12,200.00	7,730.00	5,450.00	5,450.00	129.93	94.16	34.20	-4,236.66	4,314.46	4,689.82	4,504.83	184.99	25.352		
12,300.00	7,730.00	5,450.00	5,450.00	129.85	94.16	34.20	-4,236.66	4,314.46	4,608.65	4,424.62	184.03	25.044		
12,400.00	7,730.00	5,450.00	5,450.00	129.77	94.16	34.20	-4,236.66	4,314.46	4,528.23	4,345.22	183.02	24.742		
12,500.00	7,730.00	5,450.00	5,450.00	129.71	94.16	34.20	-4,236.66	4,314.46	4,448.61	4,266.65	181.96	24.448		
12,600.00	7,730.00	5,450.00	5,450.00	129.66	94.16	34.20	-4,236.66	4,314.46	4,369.83	4,188.98	180.85	24.162		
12,700.00	7,730.00	5,450.00	5,450.00	129.63	94.16	34.20	-4,236.66	4,314.46	4,291.93	4,112.24	179.69	23.885		
12,800.00	7,730.00	5,450.00	5,450.00	129.60	94.16	34.20	-4,236.66	4,314.46	4,214.97	4,036.49	178.47	23.617		
12,900.00	7,730.00	5,450.00	5,450.00	129.59	94.16	34.20	-4,236.66	4,314.46	4,138.99	3,961.79	177.20	23.358		
13,000.00	7,730.00	5,450.00	5,450.00	129.59	94.16	34.20	-4,236.66	4,314.46	4,064.05	3,888.19	175.86	23.109		
13,100.00	7,730.00	5,450.00	5,450.00	129.60	94.16	34.20	-4,236.66	4,314.46	3,990.21	3,815.74	174.46	22.872		
13,200.00	7,730.00	5,450.00	5,450.00	129.63	94.16	34.20	-4,236.66	4,314.46	3,917.53	3,744.53	173.00	22.645		
13,300.00	7,730.00	5,450.00	5,450.00	129.66	94.16	34.20	-4,236.66	4,314.46	3,846.07	3,674.61	171.46	22.431		
13,400.00	7,730.00	5,450.00	5,450.00	129.72	94.16	34.20	-4,236.66	4,314.46	3,775.91	3,606.06	169.86	22.230		
13,500.00	7,730.00	5,450.00	5,450.00	129.78	94.16	34.20	-4,236.66	4,314.46	3,707.13	3,538.94	168.19	22.042		
13,600.00	7,730.00	5,450.00	5,450.00	129.86	94.16	34.20	-4,236.66	4,314.46	3,639.79	3,473.35	166.44	21.869		
13,700.00	7,730.00	5,450.00	5,450.00	129.96	94.16	34.20	-4,236.66	4,314.46	3,573.98	3,409.36	164.62	21.710		
13,800.00	7,730.00	5,450.00	5,450.00	130.07	94.16	34.20	-4,236.66	4,314.46	3,509.78	3,347.05	162.73	21.568		
13,900.00	7,730.00	5,450.00	5,450.00	130.19	94.16	34.20	-4,236.66	4,314.46	3,447.30	3,286.52	160.77	21.442		
14,000.00	7,730.00	5,450.00	5,450.00	130.33	94.16	34.20	-4,236.66	4,314.46	3,386.61	3,227.87	158.74	21.334		
14,100.00	7,730.00	5,450.00	5,450.00	130.49	94.16	34.20	-4,236.66	4,314.46	3,327.82	3,171.17	156.65	21.244		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,450.00	5,450.00	130.67	94.16	34.20	-4,236.66	4,314.46	3,271.03	3,116.54	154.49	21.173		
14,300.00	7,730.00	5,450.00	5,450.00	130.86	94.16	34.20	-4,236.66	4,314.46	3,216.35	3,064.06	152.29	21.121		
14,400.00	7,730.00	5,450.00	5,450.00	131.07	94.16	34.20	-4,236.66	4,314.46	3,163.88	3,013.85	150.03	21.088		
14,500.00	7,730.00	5,450.00	5,450.00	131.30	94.16	34.20	-4,236.66	4,314.46	3,113.75	2,966.00	147.75	21.075		
14,600.00	7,730.00	5,450.00	5,450.00	131.55	94.16	34.20	-4,236.66	4,314.46	3,066.06	2,920.62	145.44	21.081		
14,700.00	7,730.00	5,450.00	5,450.00	131.82	94.16	34.20	-4,236.66	4,314.46	3,020.92	2,877.79	143.13	21.106		
14,800.00	7,730.00	5,450.00	5,450.00	132.11	94.16	34.20	-4,236.66	4,314.46	2,978.46	2,837.63	140.83	21.149		
14,900.00	7,730.00	5,450.00	5,450.00	132.42	94.16	34.20	-4,236.66	4,314.46	2,938.79	2,800.22	138.57	21.208		
15,000.00	7,730.00	5,450.00	5,450.00	132.75	94.16	34.20	-4,236.66	4,314.46	2,902.03	2,765.65	136.37	21.280		
15,100.00	7,730.00	5,450.00	5,450.00	133.10	94.16	34.20	-4,236.66	4,314.46	2,868.28	2,734.01	134.26	21.363		
15,200.00	7,730.00	5,450.00	5,450.00	133.48	94.16	34.20	-4,236.66	4,314.46	2,837.65	2,705.38	132.27	21.453		
15,300.00	7,730.00	5,450.00	5,450.00	133.88	94.16	34.20	-4,236.66	4,314.46	2,810.26	2,679.83	130.43	21.546		
15,400.00	7,730.00	5,450.00	5,450.00	134.31	94.16	34.20	-4,236.66	4,314.46	2,786.18	2,657.41	128.77	21.637		
15,500.00	7,730.00	5,450.00	5,450.00	134.76	94.16	34.20	-4,236.66	4,314.46	2,765.51	2,638.19	127.32	21.721		
15,600.00	7,730.00	5,450.00	5,450.00	135.23	94.16	34.20	-4,236.66	4,314.46	2,748.33	2,622.22	126.11	21.792		
15,700.00	7,730.00	5,450.00	5,450.00	135.73	94.16	34.20	-4,236.66	4,314.46	2,734.70	2,609.52	125.18	21.847		
15,800.00	7,730.00	5,450.00	5,450.00	136.26	94.16	34.20	-4,236.66	4,314.46	2,724.68	2,600.14	124.53	21.879		
15,900.00	7,730.00	5,450.00	5,450.00	136.81	94.16	34.20	-4,236.66	4,314.46	2,718.29	2,594.10	124.19	21.887		
16,000.00	7,730.00	5,450.00	5,450.00	137.39	94.16	34.20	-4,236.66	4,314.46	2,715.58	2,591.41	124.17	21.869		
16,023.68	7,730.00	5,450.00	5,450.00	137.53	94.16	34.20	-4,236.66	4,314.46	2,715.48	2,591.26	124.22	21.861	CC, ES	
16,100.00	7,730.00	5,450.00	5,450.00	138.00	94.16	34.20	-4,236.66	4,314.46	2,716.55	2,592.08	124.48	21.824		
16,200.00	7,730.00	5,450.00	5,450.00	138.63	94.16	34.20	-4,236.66	4,314.46	2,721.20	2,596.11	125.09	21.754		
16,300.00	7,730.00	5,450.00	5,450.00	139.30	94.16	34.20	-4,236.66	4,314.46	2,729.50	2,603.49	126.01	21.661		
16,400.00	7,730.00	5,450.00	5,450.00	139.99	94.16	34.20	-4,236.66	4,314.46	2,741.43	2,614.22	127.21	21.550		
16,500.00	7,730.00	5,450.00	5,450.00	140.70	94.16	34.20	-4,236.66	4,314.46	2,756.94	2,628.27	128.67	21.426		
16,600.00	7,730.00	5,450.00	5,450.00	141.45	94.16	34.20	-4,236.66	4,314.46	2,775.96	2,645.60	130.36	21.294		
16,700.00	7,730.00	5,450.00	5,450.00	142.22	94.16	34.20	-4,236.66	4,314.46	2,798.43	2,666.18	132.25	21.160		
16,800.00	7,730.00	5,450.00	5,450.00	143.03	94.16	34.20	-4,236.66	4,314.46	2,824.27	2,689.96	134.31	21.028		
16,900.00	7,730.00	5,450.00	5,450.00	143.86	94.16	34.20	-4,236.66	4,314.46	2,853.38	2,716.87	136.50	20.903		
17,000.00	7,730.00	5,450.00	5,450.00	144.71	94.16	34.20	-4,236.66	4,314.46	2,885.66	2,746.86	138.80	20.790		
17,100.00	7,730.00	5,450.00	5,450.00	145.60	94.16	34.20	-4,236.66	4,314.46	2,921.01	2,779.84	141.17	20.692		
17,200.00	7,730.00	5,450.00	5,450.00	146.51	94.16	34.20	-4,236.66	4,314.46	2,959.32	2,815.73	143.58	20.610		
17,300.00	7,730.00	5,450.00	5,450.00	147.44	94.16	34.20	-4,236.66	4,314.46	3,000.47	2,854.45	146.02	20.548		
17,400.00	7,730.00	5,450.00	5,450.00	148.40	94.16	34.20	-4,236.66	4,314.46	3,044.35	2,895.89	148.46	20.506		
17,500.00	7,730.00	5,450.00	5,450.00	149.39	94.16	34.20	-4,236.66	4,314.46	3,090.85	2,939.96	150.89	20.485	SF	
17,600.00	7,730.00	5,450.00	5,450.00	150.40	94.16	34.20	-4,236.66	4,314.46	3,139.84	2,986.57	153.28	20.485		
17,700.00	7,730.00	5,450.00	5,450.00	151.44	94.16	34.20	-4,236.66	4,314.46	3,191.22	3,035.60	155.62	20.506		
17,800.00	7,730.00	5,450.00	5,450.00	152.50	94.16	34.20	-4,236.66	4,314.46	3,244.86	3,086.95	157.91	20.548		
17,900.00	7,730.00	5,450.00	5,450.00	153.58	94.16	34.20	-4,236.66	4,314.46	3,300.67	3,140.53	160.14	20.611		
18,000.00	7,730.00	5,450.00	5,450.00	154.68	94.16	34.20	-4,236.66	4,314.46	3,358.52	3,196.22	162.30	20.694		
18,100.00	7,730.00	5,450.00	5,450.00	155.80	94.16	34.20	-4,236.66	4,314.46	3,418.32	3,253.94	164.38	20.795		
18,200.00	7,730.00	5,450.00	5,450.00	156.95	94.16	34.20	-4,236.66	4,314.46	3,479.97	3,313.58	166.39	20.914		
18,300.00	7,730.00	5,450.00	5,450.00	158.11	94.16	34.20	-4,236.66	4,314.46	3,543.37	3,375.04	168.32	21.051		
18,400.00	7,730.00	5,450.00	5,450.00	159.30	94.16	34.20	-4,236.66	4,314.46	3,608.42	3,438.25	170.18	21.204		
18,500.00	7,730.00	5,450.00	5,450.00	160.50	94.16	34.20	-4,236.66	4,314.46	3,675.05	3,503.10	171.95	21.373		
18,600.00	7,730.00	5,450.00	5,450.00	161.72	94.16	34.20	-4,236.66	4,314.46	3,743.16	3,569.51	173.65	21.556		
18,700.00	7,730.00	5,450.00	5,450.00	162.96	94.16	34.20	-4,236.66	4,314.46	3,812.68	3,637.41	175.27	21.753		
18,800.00	7,730.00	5,450.00	5,450.00	164.21	94.16	34.20	-4,236.66	4,314.46	3,883.53	3,706.71	176.82	21.963		
18,900.00	7,730.00	5,450.00	5,450.00	165.48	94.16	34.20	-4,236.66	4,314.46	3,955.63	3,777.34	178.30	22.186		
19,000.00	7,730.00	5,450.00	5,450.00	166.76	94.16	34.20	-4,236.66	4,314.46	4,028.93	3,849.23	179.70	22.420		
19,100.00	7,730.00	5,450.00	5,450.00	168.06	94.16	34.20	-4,236.66	4,314.46	4,103.36	3,922.31	181.05	22.665		
19,200.00	7,730.00	5,450.00	5,450.00	169.38	94.16	34.20	-4,236.66	4,314.46	4,178.85	3,996.53	182.33	22.920		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,450.00	5,450.00	170.70	94.16	34.20	-4,236.66	4,314.46	4,255.36	4,071.82	183.54	23.184	
19,400.00	7,730.00	5,450.00	5,450.00	172.04	94.16	34.20	-4,236.66	4,314.46	4,332.82	4,148.12	184.70	23.458	
19,500.00	7,730.00	5,450.00	5,450.00	173.40	94.16	34.20	-4,236.66	4,314.46	4,411.19	4,225.38	185.81	23.741	
19,600.00	7,730.00	5,450.00	5,450.00	174.76	94.16	34.20	-4,236.66	4,314.46	4,490.42	4,303.56	186.86	24.031	
19,700.00	7,730.00	5,450.00	5,450.00	176.14	94.16	34.20	-4,236.66	4,314.46	4,570.46	4,382.60	187.86	24.329	
19,800.00	7,730.00	5,450.00	5,450.00	177.52	94.16	34.20	-4,236.66	4,314.46	4,651.28	4,462.46	188.82	24.634	
19,900.00	7,730.00	5,450.00	5,450.00	178.92	94.16	34.20	-4,236.66	4,314.46	4,732.83	4,543.10	189.73	24.946	
20,000.00	7,730.00	5,450.00	5,450.00	180.33	94.16	34.20	-4,236.66	4,314.46	4,815.07	4,624.48	190.59	25.264	
20,100.00	7,730.00	5,450.00	5,450.00	181.75	94.16	34.20	-4,236.66	4,314.46	4,897.98	4,706.56	191.42	25.588	
20,184.95	7,730.00	5,450.00	5,450.00	182.96	94.16	34.20	-4,236.66	4,314.46	4,968.90	4,776.81	192.09	25.868	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	142.18	-5,559.03	4,314.69	7,037.07					
100.00	100.00	67.00	67.00	0.13	0.53	142.18	-5,559.03	4,314.69	7,037.00	7,036.34	0.66	N/A		
200.00	199.98	166.98	166.98	0.49	1.95	71.75	-5,559.03	4,314.69	7,036.45	7,034.01	2.44	2,878.455		
300.00	299.84	266.84	266.84	0.86	3.70	71.82	-5,559.03	4,314.69	7,034.81	7,030.26	4.55	1,546.143		
400.00	399.45	366.45	366.45	1.23	5.44	71.94	-5,559.03	4,314.69	7,032.09	7,025.43	6.66	1,055.232		
500.00	498.70	465.70	465.70	1.63	7.17	72.11	-5,559.03	4,314.69	7,028.31	7,019.52	8.79	799.601		
600.00	597.47	564.47	564.47	2.05	8.89	72.32	-5,559.03	4,314.69	7,023.47	7,012.54	10.93	642.544		
700.00	695.62	662.62	662.62	2.51	10.61	72.58	-5,559.03	4,314.69	7,017.62	7,004.53	13.09	536.089		
800.00	793.06	760.06	760.06	3.00	12.31	72.88	-5,559.03	4,314.69	7,010.78	6,995.51	15.27	459.058		
900.00	889.64	856.64	856.64	3.53	13.99	73.23	-5,559.03	4,314.69	7,003.00	6,985.52	17.48	400.656		
1,000.00	985.27	952.27	952.27	4.12	15.66	73.61	-5,559.03	4,314.69	6,994.31	6,974.59	19.71	354.802		
1,100.00	1,079.82	1,046.82	1,046.82	4.75	17.31	74.04	-5,559.03	4,314.69	6,984.76	6,962.78	21.98	317.808		
1,200.00	1,173.17	1,140.17	1,140.17	5.44	18.94	74.51	-5,559.03	4,314.69	6,974.41	6,950.14	24.27	287.310		
1,300.00	1,265.21	1,232.21	1,232.21	6.18	20.55	75.01	-5,559.03	4,314.69	6,963.32	6,936.72	26.61	261.721		
1,400.00	1,355.84	1,322.84	1,322.84	6.99	22.13	75.55	-5,559.03	4,314.69	6,951.55	6,922.58	28.97	239.935		
1,500.00	1,444.94	1,411.94	1,411.94	7.87	23.68	76.12	-5,559.03	4,314.69	6,939.18	6,907.80	31.38	221.159		
1,600.00	1,532.39	1,500.61	1,499.39	8.80	25.23	76.71	-5,559.03	4,314.69	6,926.27	6,892.43	33.84	204.681		
1,700.00	1,618.11	1,585.11	1,585.11	9.81	26.71	77.33	-5,559.03	4,314.69	6,912.89	6,876.60	36.30	190.444		
1,800.00	1,701.97	1,668.97	1,668.97	10.89	28.17	77.98	-5,559.03	4,314.69	6,899.14	6,860.33	38.82	177.728		
1,900.00	1,783.88	1,750.88	1,750.88	12.04	29.60	78.64	-5,559.03	4,314.69	6,885.10	6,843.72	41.38	166.397		
2,000.00	1,863.74	1,830.74	1,830.74	13.26	30.99	79.32	-5,559.03	4,314.69	6,870.85	6,826.87	43.98	156.242		
2,100.00	1,941.45	1,908.45	1,908.45	14.55	32.35	80.01	-5,559.03	4,314.69	6,856.48	6,809.86	46.61	147.095		
2,200.00	2,016.92	1,983.92	1,983.92	15.92	33.67	80.71	-5,559.03	4,314.69	6,842.08	6,792.79	49.29	138.821		
2,292.11	2,084.36	2,051.36	2,051.36	17.25	34.84	81.36	-5,559.03	4,314.69	6,828.88	6,777.09	51.78	131.876		
2,300.00	2,090.06	2,057.06	2,057.06	17.36	34.94	81.39	-5,559.03	4,314.69	6,827.75	6,775.75	52.00	131.310		
2,400.00	2,162.18	2,129.18	2,129.18	18.84	36.20	81.81	-5,559.03	4,314.69	6,813.86	6,759.13	54.73	124.492		
2,500.00	2,234.31	2,201.31	2,201.31	20.33	37.46	82.23	-5,559.03	4,314.69	6,800.65	6,743.17	57.48	118.305		
2,600.00	2,306.43	2,273.43	2,273.43	21.83	38.72	82.65	-5,559.03	4,314.69	6,788.13	6,727.88	60.25	112.671		
2,700.00	2,378.56	2,345.56	2,345.56	23.33	39.98	83.08	-5,559.03	4,314.69	6,776.28	6,713.26	63.02	107.525		
2,800.00	2,450.68	2,417.68	2,417.68	24.84	41.24	83.50	-5,559.03	4,314.69	6,765.13	6,699.32	65.80	102.809		
2,900.00	2,522.81	2,489.81	2,489.81	26.36	42.50	83.92	-5,559.03	4,314.69	6,754.66	6,686.07	68.59	98.475		
3,000.00	2,594.93	2,561.93	2,561.93	27.88	43.75	84.35	-5,559.03	4,314.69	6,744.90	6,673.51	71.39	94.482		
3,100.00	2,667.06	2,634.06	2,634.06	29.40	45.01	84.77	-5,559.03	4,314.69	6,735.83	6,661.64	74.19	90.793		
3,200.00	2,739.18	2,706.18	2,706.18	30.92	46.27	85.20	-5,559.03	4,314.69	6,727.46	6,650.46	76.99	87.377		
3,300.00	2,811.31	2,778.31	2,778.31	32.45	47.53	85.62	-5,559.03	4,314.69	6,719.79	6,639.99	79.80	84.206		
3,400.00	2,883.43	2,850.43	2,850.43	33.98	48.79	86.05	-5,559.03	4,314.69	6,712.83	6,630.22	82.61	81.257		
3,500.00	2,955.56	2,922.56	2,922.56	35.51	50.05	86.47	-5,559.03	4,314.69	6,706.58	6,621.16	85.42	78.509		
3,600.00	3,027.68	3,005.32	2,994.68	37.04	51.49	86.90	-5,559.03	4,314.69	6,701.04	6,612.62	88.42	75.784		
3,700.00	3,099.81	3,066.81	3,066.81	38.57	52.57	87.33	-5,559.03	4,314.69	6,696.21	6,605.16	91.05	73.543		
3,800.00	3,171.93	3,138.93	3,138.93	40.11	53.82	87.76	-5,559.03	4,314.69	6,692.09	6,598.23	93.86	71.295		
3,900.00	3,244.06	3,211.06	3,211.06	41.64	55.08	88.18	-5,559.03	4,314.69	6,688.69	6,592.02	96.68	69.186		
4,000.00	3,316.18	3,283.18	3,283.18	43.18	56.34	88.61	-5,559.03	4,314.69	6,686.01	6,586.52	99.49	67.204		
4,100.00	3,388.31	3,355.31	3,355.31	44.71	57.60	89.04	-5,559.03	4,314.69	6,684.04	6,581.74	102.30	65.339		
4,200.00	3,460.43	3,427.43	3,427.43	46.25	58.86	89.47	-5,559.03	4,314.69	6,682.79	6,577.69	105.10	63.582		
4,300.00	3,532.56	3,500.44	3,499.56	47.79	60.13	89.90	-5,559.03	4,314.69	6,682.26	6,574.33	107.92	61.916		
4,324.20	3,550.01	3,517.01	3,517.01	48.16	60.42	90.00	-5,559.03	4,314.69	6,682.24	6,573.65	108.59	61.539		
4,400.00	3,604.68	3,571.68	3,571.68	49.33	61.38	90.32	-5,559.03	4,314.69	6,682.44	6,571.73	110.71	60.361		
4,500.00	3,676.81	3,643.81	3,643.81	50.87	62.64	90.75	-5,559.03	4,314.69	6,683.35	6,569.84	113.50	58.882		
4,600.00	3,748.93	3,715.93	3,715.93	52.41	63.90	91.18	-5,559.03	4,314.69	6,684.97	6,568.67	116.30	57.483		
4,700.00	3,821.06	3,788.06	3,788.06	53.95	65.15	91.61	-5,559.03	4,314.69	6,687.30	6,568.22	119.08	56.157		
4,800.00	3,893.18	3,860.18	3,860.18	55.49	66.41	92.04	-5,559.03	4,314.69	6,690.36	6,568.50	121.86	54.901		
4,900.00	3,965.31	3,932.31	3,932.31	57.03	67.67	92.47	-5,559.03	4,314.69	6,694.13	6,569.49	124.64	53.709		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,037.43	4,004.43	4,004.43	58.58	68.93	92.89	-5,559.03	4,314.69	6,698.61	6,571.21	127.40	52.578		
5,100.00	4,109.56	4,076.56	4,076.56	60.12	70.19	93.32	-5,559.03	4,314.69	6,703.81	6,573.64	130.17	51.502		
5,200.00	4,181.68	4,148.68	4,148.68	61.66	71.45	93.75	-5,559.03	4,314.69	6,709.72	6,576.80	132.92	50.480		
5,300.00	4,253.81	4,220.81	4,220.81	63.20	72.71	94.17	-5,559.03	4,314.69	6,716.33	6,580.67	135.66	49.507		
5,400.00	4,325.93	4,307.07	4,292.93	64.75	74.21	94.60	-5,559.03	4,314.69	6,723.66	6,585.01	138.65	48.494		
5,500.00	4,398.06	4,365.06	4,365.06	66.29	75.22	95.02	-5,559.03	4,314.69	6,731.69	6,590.56	141.13	47.698		
5,600.00	4,470.18	4,437.18	4,437.18	67.84	76.48	95.45	-5,559.03	4,314.69	6,740.42	6,596.57	143.85	46.857		
5,700.00	4,542.31	4,509.31	4,509.31	69.38	77.74	95.87	-5,559.03	4,314.69	6,749.85	6,603.29	146.56	46.055		
5,800.00	4,614.43	4,581.43	4,581.43	70.92	79.00	96.30	-5,559.03	4,314.69	6,759.98	6,610.71	149.26	45.289		
5,900.00	4,686.56	4,653.56	4,653.56	72.47	80.26	96.72	-5,559.03	4,314.69	6,770.80	6,618.85	151.95	44.559		
6,000.00	4,758.68	4,725.68	4,725.68	74.01	81.52	97.14	-5,559.03	4,314.69	6,782.31	6,627.68	154.63	43.861		
6,100.00	4,830.81	4,802.19	4,797.81	75.56	82.85	97.56	-5,559.03	4,314.69	6,794.51	6,637.13	157.38	43.173		
6,200.00	4,902.93	4,869.93	4,869.93	77.10	84.04	97.98	-5,559.03	4,314.69	6,807.39	6,647.43	159.96	42.557		
6,300.00	4,975.06	4,942.06	4,942.06	78.65	85.30	98.40	-5,559.03	4,314.69	6,820.95	6,658.34	162.61	41.947		
6,400.00	5,047.18	5,014.18	5,014.18	80.19	86.55	98.82	-5,559.03	4,314.69	6,835.18	6,669.94	165.24	41.364		
6,500.00	5,119.31	5,086.31	5,086.31	81.74	87.81	99.24	-5,559.03	4,314.69	6,850.09	6,682.22	167.87	40.807		
6,600.00	5,191.43	5,158.43	5,158.43	83.28	89.07	99.66	-5,559.03	4,314.69	6,865.66	6,695.18	170.48	40.273		
6,700.00	5,263.56	5,230.56	5,230.56	84.83	90.33	100.07	-5,559.03	4,314.69	6,881.89	6,708.82	173.08	39.762		
6,800.00	5,335.68	5,302.68	5,302.68	86.37	91.59	100.49	-5,559.03	4,314.69	6,898.79	6,723.12	175.66	39.272		
6,900.00	5,407.81	5,374.81	5,374.81	87.92	92.85	100.90	-5,559.03	4,314.69	6,916.33	6,738.09	178.24	38.804		
7,000.00	5,479.93	5,446.93	5,446.93	89.47	94.11	101.31	-5,559.03	4,314.69	6,934.52	6,753.72	180.80	38.355		
7,100.00	5,552.06	5,450.00	5,450.00	91.01	94.16	101.33	-5,559.03	4,314.69	6,953.70	6,771.59	182.11	38.184		
7,200.00	5,624.18	5,450.00	5,450.00	92.56	94.16	101.33	-5,559.03	4,314.69	6,974.26	6,790.92	183.33	38.041		
7,300.00	5,696.31	5,450.00	5,450.00	94.10	94.16	101.33	-5,559.03	4,314.69	6,996.18	6,811.66	184.52	37.915		
7,400.00	5,768.43	5,450.00	5,450.00	95.65	94.16	101.33	-5,559.03	4,314.69	7,019.47	6,833.79	185.68	37.805		
7,500.00	5,840.56	5,450.00	5,450.00	97.20	94.16	101.33	-5,559.03	4,314.69	7,044.09	6,857.30	186.80	37.710		
7,600.00	5,912.68	5,450.00	5,450.00	98.74	94.16	101.33	-5,559.03	4,314.69	7,070.05	6,882.17	187.88	37.630		
7,700.00	5,984.81	5,450.00	5,450.00	100.29	94.16	101.33	-5,559.03	4,314.69	7,097.32	6,908.38	188.93	37.565		
7,800.00	6,056.93	5,450.00	5,450.00	101.84	94.16	101.33	-5,559.03	4,314.69	7,125.88	6,935.93	189.95	37.514		
7,900.00	6,129.06	5,450.00	5,450.00	103.38	94.16	101.33	-5,559.03	4,314.69	7,155.74	6,964.80	190.94	37.477		
8,000.00	6,201.18	5,450.00	5,450.00	104.93	94.16	101.33	-5,559.03	4,314.69	7,186.85	6,994.97	191.89	37.454		
8,100.00	6,273.31	5,450.00	5,450.00	106.48	94.16	101.33	-5,559.03	4,314.69	7,219.22	7,026.42	192.80	37.443		
8,200.00	6,345.43	5,450.00	5,450.00	108.02	94.16	101.33	-5,559.03	4,314.69	7,252.83	7,059.14	193.69	37.446		
8,300.00	6,417.56	5,450.00	5,450.00	109.57	94.16	101.33	-5,559.03	4,314.69	7,287.65	7,093.11	194.54	37.461		
8,400.00	6,489.68	5,450.00	5,450.00	111.12	94.16	101.33	-5,559.03	4,314.69	7,323.67	7,128.31	195.36	37.488		
8,500.00	6,561.81	5,450.00	5,450.00	112.66	94.16	101.33	-5,559.03	4,314.69	7,360.88	7,164.72	196.15	37.526		
8,600.00	6,633.93	5,450.00	5,450.00	114.21	94.16	101.33	-5,559.03	4,314.69	7,399.25	7,202.33	196.91	37.577		
8,700.00	6,706.06	5,450.00	5,450.00	115.76	94.16	101.33	-5,559.03	4,314.69	7,438.76	7,241.12	197.64	37.638		
8,800.00	6,778.18	5,450.00	5,450.00	117.30	94.16	101.33	-5,559.03	4,314.69	7,479.40	7,281.07	198.34	37.711		
8,900.00	6,850.31	5,450.00	5,450.00	118.85	94.16	101.33	-5,559.03	4,314.69	7,521.16	7,322.15	199.01	37.794		
9,000.00	6,922.43	5,450.00	5,450.00	120.40	94.16	101.33	-5,559.03	4,314.69	7,564.00	7,364.36	199.65	37.887		
9,100.00	6,994.56	5,450.00	5,450.00	121.95	94.16	101.33	-5,559.03	4,314.69	7,607.92	7,407.66	200.26	37.990		
9,200.00	7,066.68	5,450.00	5,450.00	123.49	94.16	101.33	-5,559.03	4,314.69	7,652.89	7,452.05	200.84	38.104		
9,300.00	7,138.81	5,450.00	5,450.00	125.04	94.16	101.33	-5,559.03	4,314.69	7,698.90	7,497.50	201.40	38.226		
9,392.50	7,205.52	5,450.00	5,450.00	126.47	94.16	101.33	-5,559.03	4,314.69	7,742.37	7,540.47	201.90	38.348		
9,400.00	7,210.94	5,450.00	5,450.00	126.59	94.16	100.59	-5,559.03	4,314.69	7,745.89	7,543.95	201.94	38.358		
9,450.00	7,247.42	5,450.00	5,450.00	127.35	94.16	95.49	-5,559.03	4,314.69	7,767.25	7,565.05	202.20	38.414		
9,500.00	7,284.35	5,450.00	5,450.00	128.10	94.16	90.14	-5,559.03	4,314.69	7,784.87	7,582.41	202.47	38.450		
9,550.00	7,321.43	5,450.00	5,450.00	128.83	94.16	84.69	-5,559.03	4,314.69	7,798.65	7,595.92	202.73	38.468		
9,600.00	7,358.38	5,450.00	5,450.00	129.52	94.16	79.27	-5,559.03	4,314.69	7,808.50	7,605.51	202.99	38.468		
9,650.00	7,394.93	5,450.00	5,450.00	130.16	94.16	74.04	-5,559.03	4,314.69	7,814.36	7,611.13	203.23	38.450		
9,700.00	7,430.79	5,450.00	5,450.00	130.76	94.16	69.09	-5,559.03	4,314.69	7,816.20	7,612.74	203.46	38.417		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,750.00	7,465.70	5,450.00	5,450.00	131.30	94.16	64.51	-5,559.03	4,314.69	7,814.00	7,610.34	203.66	38.369		
9,800.00	7,499.38	5,450.00	5,450.00	131.78	94.16	60.35	-5,559.03	4,314.69	7,807.77	7,603.94	203.83	38.306		
9,850.00	7,531.58	5,450.00	5,450.00	132.21	94.16	56.60	-5,559.03	4,314.69	7,797.56	7,593.59	203.97	38.229		
9,900.00	7,562.06	5,450.00	5,450.00	132.57	94.16	53.27	-5,559.03	4,314.69	7,783.43	7,579.35	204.08	38.139		
9,950.00	7,590.58	5,450.00	5,450.00	132.87	94.16	50.33	-5,559.03	4,314.69	7,765.46	7,561.30	204.16	38.036		
10,000.00	7,616.93	5,450.00	5,450.00	133.11	94.16	47.75	-5,559.03	4,314.69	7,743.77	7,539.56	204.20	37.922		
10,050.00	7,640.90	5,450.00	5,450.00	133.29	94.16	45.50	-5,559.03	4,314.69	7,718.48	7,514.26	204.22	37.795		
10,100.00	7,662.32	5,450.00	5,450.00	133.42	94.16	43.53	-5,559.03	4,314.69	7,689.76	7,485.56	204.20	37.657		
10,150.00	7,681.01	5,450.00	5,450.00	133.50	94.16	41.80	-5,559.03	4,314.69	7,657.79	7,453.63	204.16	37.508		
10,200.00	7,696.85	5,450.00	5,450.00	133.52	94.16	40.28	-5,559.03	4,314.69	7,622.77	7,418.67	204.10	37.348		
10,250.00	7,709.70	5,450.00	5,450.00	133.51	94.16	38.91	-5,559.03	4,314.69	7,584.93	7,380.91	204.02	37.178		
10,300.00	7,719.47	5,450.00	5,450.00	133.46	94.16	37.64	-5,559.03	4,314.69	7,544.51	7,340.59	203.92	36.997		
10,350.00	7,726.09	5,450.00	5,450.00	133.37	94.16	36.39	-5,559.03	4,314.69	7,501.79	7,297.97	203.82	36.806		
10,400.00	7,729.50	5,450.00	5,450.00	133.26	94.16	35.01	-5,559.03	4,314.69	7,457.06	7,253.34	203.71	36.605		
10,427.79	7,730.00	5,450.00	5,450.00	133.18	94.16	34.10	-5,559.03	4,314.69	7,431.43	7,227.77	203.66	36.490		
10,500.00	7,730.00	5,450.00	5,450.00	132.98	94.16	34.10	-5,559.03	4,314.69	7,364.25	7,160.75	203.51	36.187		
10,600.00	7,730.00	5,450.00	5,450.00	132.72	94.16	34.10	-5,559.03	4,314.69	7,271.38	7,068.10	203.29	35.769		
10,700.00	7,730.00	5,450.00	5,450.00	132.47	94.16	34.10	-5,559.03	4,314.69	7,178.71	6,975.64	203.06	35.352		
10,800.00	7,730.00	5,450.00	5,450.00	132.22	94.16	34.10	-5,559.03	4,314.69	7,086.23	6,883.40	202.83	34.937		
10,900.00	7,730.00	5,450.00	5,450.00	131.99	94.16	34.10	-5,559.03	4,314.69	6,993.96	6,791.37	202.59	34.524		
11,000.00	7,730.00	5,450.00	5,450.00	131.77	94.16	34.10	-5,559.03	4,314.69	6,901.90	6,699.57	202.33	34.112		
11,100.00	7,730.00	5,450.00	5,450.00	131.56	94.16	34.10	-5,559.03	4,314.69	6,810.07	6,607.99	202.07	33.701		
11,200.00	7,730.00	5,450.00	5,450.00	131.36	94.16	34.10	-5,559.03	4,314.69	6,718.47	6,516.67	201.80	33.293		
11,300.00	7,730.00	5,450.00	5,450.00	131.17	94.16	34.10	-5,559.03	4,314.69	6,627.11	6,425.59	201.52	32.886		
11,400.00	7,730.00	5,450.00	5,450.00	130.99	94.16	34.10	-5,559.03	4,314.69	6,536.01	6,334.78	201.22	32.482		
11,500.00	7,730.00	5,450.00	5,450.00	130.82	94.16	34.10	-5,559.03	4,314.69	6,445.17	6,244.25	200.92	32.079		
11,600.00	7,730.00	5,450.00	5,450.00	130.66	94.16	34.10	-5,559.03	4,314.69	6,354.60	6,154.01	200.60	31.679		
11,700.00	7,730.00	5,450.00	5,450.00	130.51	94.16	34.10	-5,559.03	4,314.69	6,264.32	6,064.06	200.26	31.280		
11,800.00	7,730.00	5,450.00	5,450.00	130.37	94.16	34.10	-5,559.03	4,314.69	6,174.35	5,974.43	199.92	30.884		
11,900.00	7,730.00	5,450.00	5,450.00	130.24	94.16	34.10	-5,559.03	4,314.69	6,084.68	5,885.12	199.56	30.491		
12,000.00	7,730.00	5,450.00	5,450.00	130.13	94.16	34.10	-5,559.03	4,314.69	5,995.34	5,796.16	199.18	30.100		
12,100.00	7,730.00	5,450.00	5,450.00	130.02	94.16	34.10	-5,559.03	4,314.69	5,906.35	5,707.56	198.79	29.712		
12,200.00	7,730.00	5,450.00	5,450.00	129.93	94.16	34.10	-5,559.03	4,314.69	5,817.71	5,619.33	198.38	29.327		
12,300.00	7,730.00	5,450.00	5,450.00	129.85	94.16	34.10	-5,559.03	4,314.69	5,729.44	5,531.49	197.95	28.944		
12,400.00	7,730.00	5,450.00	5,450.00	129.77	94.16	34.10	-5,559.03	4,314.69	5,641.57	5,444.07	197.50	28.565		
12,500.00	7,730.00	5,450.00	5,450.00	129.71	94.16	34.10	-5,559.03	4,314.69	5,554.11	5,357.07	197.03	28.189		
12,600.00	7,730.00	5,450.00	5,450.00	129.66	94.16	34.10	-5,559.03	4,314.69	5,467.07	5,270.53	196.54	27.816		
12,700.00	7,730.00	5,450.00	5,450.00	129.63	94.16	34.10	-5,559.03	4,314.69	5,380.49	5,184.46	196.03	27.447		
12,800.00	7,730.00	5,450.00	5,450.00	129.60	94.16	34.10	-5,559.03	4,314.69	5,294.38	5,098.89	195.50	27.082		
12,900.00	7,730.00	5,450.00	5,450.00	129.59	94.16	34.10	-5,559.03	4,314.69	5,208.77	5,013.83	194.93	26.721		
13,000.00	7,730.00	5,450.00	5,450.00	129.59	94.16	34.10	-5,559.03	4,314.69	5,123.68	4,929.33	194.35	26.364		
13,100.00	7,730.00	5,450.00	5,450.00	129.60	94.16	34.10	-5,559.03	4,314.69	5,039.13	4,845.40	193.73	26.011		
13,200.00	7,730.00	5,450.00	5,450.00	129.63	94.16	34.10	-5,559.03	4,314.69	4,955.16	4,762.08	193.09	25.663		
13,300.00	7,730.00	5,450.00	5,450.00	129.66	94.16	34.10	-5,559.03	4,314.69	4,871.80	4,679.39	192.41	25.320		
13,400.00	7,730.00	5,450.00	5,450.00	129.72	94.16	34.10	-5,559.03	4,314.69	4,789.07	4,597.37	191.70	24.982		
13,500.00	7,730.00	5,450.00	5,450.00	129.78	94.16	34.10	-5,559.03	4,314.69	4,707.02	4,516.06	190.95	24.650		
13,600.00	7,730.00	5,450.00	5,450.00	129.86	94.16	34.10	-5,559.03	4,314.69	4,625.67	4,435.49	190.17	24.323		
13,700.00	7,730.00	5,450.00	5,450.00	129.96	94.16	34.10	-5,559.03	4,314.69	4,545.06	4,355.71	189.35	24.003		
13,800.00	7,730.00	5,450.00	5,450.00	130.07	94.16	34.10	-5,559.03	4,314.69	4,465.24	4,276.75	188.50	23.689		
13,900.00	7,730.00	5,450.00	5,450.00	130.19	94.16	34.10	-5,559.03	4,314.69	4,386.25	4,198.66	187.59	23.382		
14,000.00	7,730.00	5,450.00	5,450.00	130.33	94.16	34.10	-5,559.03	4,314.69	4,308.13	4,121.48	186.65	23.082		
14,100.00	7,730.00	5,450.00	5,450.00	130.49	94.16	34.10	-5,559.03	4,314.69	4,230.93	4,045.28	185.65	22.789		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,450.00	5,450.00	130.67	94.16	34.10	-5,559.03	4,314.69	4,154.70	3,970.09	184.61	22.505		
14,300.00	7,730.00	5,450.00	5,450.00	130.86	94.16	34.10	-5,559.03	4,314.69	4,079.50	3,895.99	183.52	22.229		
14,400.00	7,730.00	5,450.00	5,450.00	131.07	94.16	34.10	-5,559.03	4,314.69	4,005.39	3,823.02	182.37	21.963		
14,500.00	7,730.00	5,450.00	5,450.00	131.30	94.16	34.10	-5,559.03	4,314.69	3,932.42	3,751.25	181.17	21.705		
14,600.00	7,730.00	5,450.00	5,450.00	131.55	94.16	34.10	-5,559.03	4,314.69	3,860.66	3,680.75	179.91	21.458		
14,700.00	7,730.00	5,450.00	5,450.00	131.82	94.16	34.10	-5,559.03	4,314.69	3,790.19	3,611.59	178.60	21.222		
14,800.00	7,730.00	5,450.00	5,450.00	132.11	94.16	34.10	-5,559.03	4,314.69	3,721.06	3,543.84	177.22	20.996		
14,900.00	7,730.00	5,450.00	5,450.00	132.42	94.16	34.10	-5,559.03	4,314.69	3,653.37	3,477.58	175.79	20.783		
15,000.00	7,730.00	5,450.00	5,450.00	132.75	94.16	34.10	-5,559.03	4,314.69	3,587.18	3,412.89	174.29	20.582		
15,100.00	7,730.00	5,450.00	5,450.00	133.10	94.16	34.10	-5,559.03	4,314.69	3,522.60	3,349.86	172.73	20.393		
15,200.00	7,730.00	5,450.00	5,450.00	133.48	94.16	34.10	-5,559.03	4,314.69	3,459.69	3,288.58	171.11	20.219		
15,300.00	7,730.00	5,450.00	5,450.00	133.88	94.16	34.10	-5,559.03	4,314.69	3,398.57	3,229.14	169.43	20.058		
15,400.00	7,730.00	5,450.00	5,450.00	134.31	94.16	34.10	-5,559.03	4,314.69	3,339.32	3,171.62	167.70	19.913		
15,500.00	7,730.00	5,450.00	5,450.00	134.76	94.16	34.10	-5,559.03	4,314.69	3,282.05	3,116.14	165.91	19.782		
15,600.00	7,730.00	5,450.00	5,450.00	135.23	94.16	34.10	-5,559.03	4,314.69	3,226.86	3,062.79	164.07	19.667		
15,700.00	7,730.00	5,450.00	5,450.00	135.73	94.16	34.10	-5,559.03	4,314.69	3,173.87	3,011.68	162.19	19.569		
15,800.00	7,730.00	5,450.00	5,450.00	136.26	94.16	34.10	-5,559.03	4,314.69	3,123.18	2,962.90	160.28	19.486		
15,900.00	7,730.00	5,450.00	5,450.00	136.81	94.16	34.10	-5,559.03	4,314.69	3,074.90	2,916.56	158.34	19.420		
16,000.00	7,730.00	5,450.00	5,450.00	137.39	94.16	34.10	-5,559.03	4,314.69	3,029.16	2,872.77	156.39	19.369		
16,100.00	7,730.00	5,450.00	5,450.00	138.00	94.16	34.10	-5,559.03	4,314.69	2,986.07	2,831.63	154.44	19.334		
16,200.00	7,730.00	5,450.00	5,450.00	138.63	94.16	34.10	-5,559.03	4,314.69	2,945.74	2,793.23	152.51	19.314		
16,300.00	7,730.00	5,450.00	5,450.00	139.30	94.16	34.10	-5,559.03	4,314.69	2,908.30	2,757.67	150.62	19.308 SF		
16,400.00	7,730.00	5,450.00	5,450.00	139.99	94.16	34.10	-5,559.03	4,314.69	2,873.84	2,725.05	148.79	19.315		
16,500.00	7,730.00	5,450.00	5,450.00	140.70	94.16	34.10	-5,559.03	4,314.69	2,842.49	2,695.46	147.04	19.332		
16,600.00	7,730.00	5,450.00	5,450.00	141.45	94.16	34.10	-5,559.03	4,314.69	2,814.35	2,668.96	145.39	19.357		
16,700.00	7,730.00	5,450.00	5,450.00	142.22	94.16	34.10	-5,559.03	4,314.69	2,789.51	2,645.64	143.87	19.389		
16,800.00	7,730.00	5,450.00	5,450.00	143.03	94.16	34.10	-5,559.03	4,314.69	2,768.06	2,625.55	142.51	19.424		
16,900.00	7,730.00	5,450.00	5,450.00	143.86	94.16	34.10	-5,559.03	4,314.69	2,750.08	2,608.75	141.33	19.459		
17,000.00	7,730.00	5,450.00	5,450.00	144.71	94.16	34.10	-5,559.03	4,314.69	2,735.64	2,595.30	140.35	19.492		
17,100.00	7,730.00	5,450.00	5,450.00	145.60	94.16	34.10	-5,559.03	4,314.69	2,724.80	2,585.21	139.58	19.521		
17,200.00	7,730.00	5,450.00	5,450.00	146.51	94.16	34.10	-5,559.03	4,314.69	2,717.59	2,578.53	139.06	19.542		
17,300.00	7,730.00	5,450.00	5,450.00	147.44	94.16	34.10	-5,559.03	4,314.69	2,714.06	2,575.27	138.79	19.556		
17,346.04	7,730.00	5,450.00	5,450.00	147.88	94.16	34.10	-5,559.03	4,314.69	2,713.67	2,574.92	138.75	19.558 CC, ES		
17,400.00	7,730.00	5,450.00	5,450.00	148.40	94.16	34.10	-5,559.03	4,314.69	2,714.20	2,575.44	138.77	19.559		
17,500.00	7,730.00	5,450.00	5,450.00	149.39	94.16	34.10	-5,559.03	4,314.69	2,718.03	2,579.03	139.00	19.554		
17,600.00	7,730.00	5,450.00	5,450.00	150.40	94.16	34.10	-5,559.03	4,314.69	2,725.53	2,586.04	139.49	19.540		
17,700.00	7,730.00	5,450.00	5,450.00	151.44	94.16	34.10	-5,559.03	4,314.69	2,736.66	2,596.45	140.21	19.518		
17,800.00	7,730.00	5,450.00	5,450.00	152.50	94.16	34.10	-5,559.03	4,314.69	2,751.38	2,610.22	141.16	19.492		
17,900.00	7,730.00	5,450.00	5,450.00	153.58	94.16	34.10	-5,559.03	4,314.69	2,769.63	2,627.33	142.31	19.463		
18,000.00	7,730.00	5,450.00	5,450.00	154.68	94.16	34.10	-5,559.03	4,314.69	2,791.35	2,647.72	143.64	19.433		
18,100.00	7,730.00	5,450.00	5,450.00	155.80	94.16	34.10	-5,559.03	4,314.69	2,816.46	2,671.33	145.13	19.407		
18,200.00	7,730.00	5,450.00	5,450.00	156.95	94.16	34.10	-5,559.03	4,314.69	2,844.86	2,698.11	146.75	19.386		
18,300.00	7,730.00	5,450.00	5,450.00	158.11	94.16	34.10	-5,559.03	4,314.69	2,876.46	2,727.98	148.48	19.373		
18,400.00	7,730.00	5,450.00	5,450.00	159.30	94.16	34.10	-5,559.03	4,314.69	2,911.16	2,760.86	150.30	19.369		
18,500.00	7,730.00	5,450.00	5,450.00	160.50	94.16	34.10	-5,559.03	4,314.69	2,948.83	2,796.66	152.17	19.378		
18,600.00	7,730.00	5,450.00	5,450.00	161.72	94.16	34.10	-5,559.03	4,314.69	2,989.38	2,835.29	154.09	19.400		
18,700.00	7,730.00	5,450.00	5,450.00	162.96	94.16	34.10	-5,559.03	4,314.69	3,032.69	2,876.65	156.03	19.436		
18,800.00	7,730.00	5,450.00	5,450.00	164.21	94.16	34.10	-5,559.03	4,314.69	3,078.64	2,920.65	157.98	19.487		
18,900.00	7,730.00	5,450.00	5,450.00	165.48	94.16	34.10	-5,559.03	4,314.69	3,127.11	2,967.19	159.92	19.554		
19,000.00	7,730.00	5,450.00	5,450.00	166.76	94.16	34.10	-5,559.03	4,314.69	3,177.98	3,016.15	161.84	19.637		
19,100.00	7,730.00	5,450.00	5,450.00	168.06	94.16	34.10	-5,559.03	4,314.69	3,231.16	3,067.43	163.72	19.736		
19,200.00	7,730.00	5,450.00	5,450.00	169.38	94.16	34.10	-5,559.03	4,314.69	3,286.51	3,120.94	165.57	19.850		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,450.00	5,450.00	170.70	94.16	34.10	-5,559.03	4,314.69	3,343.94	3,176.57	167.37	19.979	
19,400.00	7,730.00	5,450.00	5,450.00	172.04	94.16	34.10	-5,559.03	4,314.69	3,403.34	3,234.22	169.12	20.124	
19,500.00	7,730.00	5,450.00	5,450.00	173.40	94.16	34.10	-5,559.03	4,314.69	3,464.61	3,293.80	170.81	20.283	
19,600.00	7,730.00	5,450.00	5,450.00	174.76	94.16	34.10	-5,559.03	4,314.69	3,527.65	3,355.20	172.45	20.456	
19,700.00	7,730.00	5,450.00	5,450.00	176.14	94.16	34.10	-5,559.03	4,314.69	3,592.37	3,418.34	174.03	20.642	
19,800.00	7,730.00	5,450.00	5,450.00	177.52	94.16	34.10	-5,559.03	4,314.69	3,658.68	3,483.13	175.55	20.841	
19,900.00	7,730.00	5,450.00	5,450.00	178.92	94.16	34.10	-5,559.03	4,314.69	3,726.49	3,549.48	177.01	21.052	
20,000.00	7,730.00	5,450.00	5,450.00	180.33	94.16	34.10	-5,559.03	4,314.69	3,795.72	3,617.31	178.41	21.275	
20,100.00	7,730.00	5,450.00	5,450.00	181.75	94.16	34.10	-5,559.03	4,314.69	3,866.30	3,686.55	179.75	21.509	
20,184.95	7,730.00	5,450.00	5,450.00	182.96	94.16	34.10	-5,559.03	4,314.69	3,927.27	3,746.42	180.85	21.716	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	126.94	-4,236.40	5,633.49	7,048.90					
100.00	100.00	39.00	39.00	0.13	0.31	126.94	-4,236.40	5,633.49	7,048.64	7,048.19	0.45	N/A		
200.00	199.98	138.98	138.98	0.49	1.48	56.52	-4,236.40	5,633.49	7,047.68	7,045.70	1.97	3,570.917		
300.00	299.84	238.84	238.84	0.86	3.23	56.60	-4,236.40	5,633.49	7,044.79	7,040.71	4.08	1,726.920		
400.00	399.45	338.45	338.45	1.23	4.96	56.74	-4,236.40	5,633.49	7,039.99	7,033.80	6.19	1,137.103		
500.00	498.70	437.70	437.70	1.63	6.70	56.94	-4,236.40	5,633.49	7,033.29	7,024.98	8.31	846.289		
600.00	597.47	536.47	536.47	2.05	8.42	57.19	-4,236.40	5,633.49	7,024.71	7,014.27	10.44	672.820		
700.00	695.62	634.62	634.62	2.51	10.13	57.49	-4,236.40	5,633.49	7,014.27	7,001.69	12.58	557.413		
800.00	793.06	732.06	732.06	3.00	11.83	57.85	-4,236.40	5,633.49	7,002.02	6,987.28	14.74	474.968		
900.00	889.64	828.64	828.64	3.53	13.52	58.27	-4,236.40	5,633.49	6,987.98	6,971.07	16.92	413.037		
1,000.00	985.27	924.27	924.27	4.12	15.19	58.74	-4,236.40	5,633.49	6,972.21	6,953.10	19.12	364.745		
1,100.00	1,079.82	1,018.82	1,018.82	4.75	16.84	59.26	-4,236.40	5,633.49	6,954.75	6,933.41	21.33	325.984		
1,200.00	1,173.17	1,112.17	1,112.17	5.44	18.47	59.84	-4,236.40	5,633.49	6,935.65	6,912.08	23.58	294.152		
1,300.00	1,265.21	1,204.21	1,204.21	6.18	20.08	60.47	-4,236.40	5,633.49	6,914.99	6,889.14	25.85	267.517		
1,400.00	1,355.84	1,305.16	1,294.84	6.99	21.84	61.15	-4,236.40	5,633.49	6,892.81	6,864.48	28.33	243.327		
1,500.00	1,444.94	1,383.94	1,383.94	7.87	23.21	61.89	-4,236.40	5,633.49	6,869.20	6,838.73	30.48	225.401		
1,600.00	1,532.39	1,471.39	1,471.39	8.80	24.74	62.67	-4,236.40	5,633.49	6,844.23	6,811.40	32.84	208.443		
1,700.00	1,618.11	1,557.11	1,557.11	9.81	26.23	63.49	-4,236.40	5,633.49	6,817.98	6,782.75	35.23	193.544		
1,800.00	1,701.97	1,640.97	1,640.97	10.89	27.70	64.37	-4,236.40	5,633.49	6,790.53	6,752.88	37.65	180.348		
1,900.00	1,783.88	1,722.88	1,722.88	12.04	29.13	65.28	-4,236.40	5,633.49	6,761.98	6,721.87	40.11	168.576		
2,000.00	1,863.74	1,802.74	1,802.74	13.26	30.52	66.23	-4,236.40	5,633.49	6,732.43	6,689.82	42.61	158.011		
2,100.00	1,941.45	1,880.45	1,880.45	14.55	31.88	67.22	-4,236.40	5,633.49	6,701.95	6,656.81	45.14	148.477		
2,200.00	2,016.92	1,955.92	1,955.92	15.92	33.19	68.25	-4,236.40	5,633.49	6,670.67	6,622.97	47.70	139.834		
2,292.11	2,084.36	2,023.36	2,023.36	17.25	34.37	69.21	-4,236.40	5,633.49	6,641.23	6,591.13	50.10	132.561		
2,300.00	2,090.06	2,029.06	2,029.06	17.36	34.47	69.25	-4,236.40	5,633.49	6,638.68	6,588.38	50.31	131.966		
2,400.00	2,162.18	2,101.18	2,101.18	18.84	35.73	69.68	-4,236.40	5,633.49	6,606.75	6,553.82	52.94	124.806		
2,500.00	2,234.31	2,173.31	2,173.31	20.33	36.99	70.10	-4,236.40	5,633.49	6,575.40	6,519.81	55.59	118.287		
2,600.00	2,306.43	2,245.43	2,245.43	21.83	38.25	70.54	-4,236.40	5,633.49	6,544.63	6,486.37	58.26	112.332		
2,700.00	2,378.56	2,317.56	2,317.56	23.33	39.51	70.97	-4,236.40	5,633.49	6,514.45	6,453.50	60.95	106.877		
2,800.00	2,450.68	2,389.68	2,389.68	24.84	40.77	71.41	-4,236.40	5,633.49	6,484.87	6,421.21	63.66	101.866		
2,900.00	2,522.81	2,461.81	2,461.81	26.36	42.02	71.85	-4,236.40	5,633.49	6,455.89	6,389.51	66.38	97.251		
3,000.00	2,594.93	2,533.93	2,533.93	27.88	43.28	72.29	-4,236.40	5,633.49	6,427.54	6,358.41	69.12	92.988		
3,100.00	2,667.06	2,606.06	2,606.06	29.40	44.54	72.73	-4,236.40	5,633.49	6,399.80	6,327.93	71.87	89.042		
3,200.00	2,739.18	2,678.18	2,678.18	30.92	45.80	73.18	-4,236.40	5,633.49	6,372.70	6,298.06	74.64	85.380		
3,300.00	2,811.31	2,750.31	2,750.31	32.45	47.06	73.62	-4,236.40	5,633.49	6,346.24	6,268.82	77.42	81.976		
3,400.00	2,883.43	2,822.43	2,822.43	33.98	48.32	74.07	-4,236.40	5,633.49	6,320.43	6,240.22	80.20	78.804		
3,500.00	2,955.56	2,905.44	2,894.56	35.51	49.77	74.52	-4,236.40	5,633.49	6,295.27	6,212.08	83.19	75.670		
3,600.00	3,027.68	2,966.68	2,966.68	37.04	50.84	74.98	-4,236.40	5,633.49	6,270.78	6,184.96	85.81	73.074		
3,700.00	3,099.81	3,038.81	3,038.81	38.57	52.09	75.43	-4,236.40	5,633.49	6,246.96	6,158.33	88.63	70.481		
3,800.00	3,171.93	3,110.93	3,110.93	40.11	53.35	75.89	-4,236.40	5,633.49	6,223.82	6,132.36	91.46	68.049		
3,900.00	3,244.06	3,183.06	3,183.06	41.64	54.61	76.35	-4,236.40	5,633.49	6,201.37	6,107.07	94.30	65.764		
4,000.00	3,316.18	3,255.18	3,255.18	43.18	55.87	76.81	-4,236.40	5,633.49	6,179.61	6,082.47	97.14	63.614		
4,100.00	3,388.31	3,327.31	3,327.31	44.71	57.13	77.27	-4,236.40	5,633.49	6,158.55	6,058.56	99.99	61.589		
4,200.00	3,460.43	3,400.57	3,399.43	46.25	58.41	77.74	-4,236.40	5,633.49	6,138.21	6,035.33	102.87	59.668		
4,300.00	3,532.56	3,471.56	3,471.56	47.79	59.65	78.20	-4,236.40	5,633.49	6,118.58	6,012.86	105.72	57.876		
4,400.00	3,604.68	3,543.68	3,543.68	49.33	60.91	78.67	-4,236.40	5,633.49	6,099.67	5,991.08	108.59	56.172		
4,500.00	3,676.81	3,615.81	3,615.81	50.87	62.17	79.14	-4,236.40	5,633.49	6,081.49	5,970.03	111.46	54.560		
4,600.00	3,748.93	3,687.93	3,687.93	52.41	63.42	79.61	-4,236.40	5,633.49	6,064.06	5,949.71	114.34	53.033		
4,700.00	3,821.06	3,760.06	3,760.06	53.95	64.68	80.08	-4,236.40	5,633.49	6,047.36	5,930.13	117.23	51.587		
4,800.00	3,893.18	3,832.18	3,832.18	55.49	65.94	80.55	-4,236.40	5,633.49	6,031.41	5,911.30	120.11	50.214		
4,900.00	3,965.31	3,904.31	3,904.31	57.03	67.20	81.03	-4,236.40	5,633.49	6,016.22	5,893.22	123.00	48.911		
5,000.00	4,037.43	3,976.43	3,976.43	58.58	68.46	81.50	-4,236.40	5,633.49	6,001.79	5,875.90	125.89	47.673		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,109.56	4,048.56	4,048.56	60.12	69.72	81.98	-4,236.40	5,633.49	5,988.13	5,859.34	128.79	46.497		
5,200.00	4,181.68	4,120.68	4,120.68	61.66	70.98	82.46	-4,236.40	5,633.49	5,975.24	5,843.56	131.68	45.377		
5,300.00	4,253.81	4,207.19	4,192.81	63.20	72.49	82.94	-4,236.40	5,633.49	5,963.12	5,828.30	134.82	44.229		
5,400.00	4,325.93	4,264.93	4,264.93	64.75	73.49	83.42	-4,236.40	5,633.49	5,951.79	5,814.32	137.46	43.297		
5,500.00	4,398.06	4,337.06	4,337.06	66.29	74.75	83.90	-4,236.40	5,633.49	5,941.24	5,800.88	140.35	42.330		
5,600.00	4,470.18	4,409.18	4,409.18	67.84	76.01	84.38	-4,236.40	5,633.49	5,931.48	5,788.24	143.24	41.409		
5,700.00	4,542.31	4,481.31	4,481.31	69.38	77.27	84.86	-4,236.40	5,633.49	5,922.52	5,776.39	146.13	40.530		
5,800.00	4,614.43	4,553.43	4,553.43	70.92	78.53	85.35	-4,236.40	5,633.49	5,914.35	5,765.34	149.01	39.691		
5,900.00	4,686.56	4,625.56	4,625.56	72.47	79.79	85.83	-4,236.40	5,633.49	5,906.99	5,755.10	151.89	38.890		
6,000.00	4,758.68	4,702.32	4,697.68	74.01	81.13	86.32	-4,236.40	5,633.49	5,900.43	5,745.59	154.84	38.106		
6,100.00	4,830.81	4,769.81	4,769.81	75.56	82.31	86.80	-4,236.40	5,633.49	5,894.67	5,737.04	157.63	37.396		
6,200.00	4,902.93	4,841.93	4,841.93	77.10	83.57	87.29	-4,236.40	5,633.49	5,889.73	5,729.24	160.49	36.699		
6,300.00	4,975.06	4,914.06	4,914.06	78.65	84.82	87.77	-4,236.40	5,633.49	5,885.59	5,722.25	163.34	36.032		
6,400.00	5,047.18	4,986.18	4,986.18	80.19	86.08	88.26	-4,236.40	5,633.49	5,882.27	5,716.08	166.19	35.395		
6,500.00	5,119.31	5,058.31	5,058.31	81.74	87.34	88.75	-4,236.40	5,633.49	5,879.77	5,710.74	169.03	34.785		
6,600.00	5,191.43	5,130.43	5,130.43	83.28	88.60	89.23	-4,236.40	5,633.49	5,878.07	5,706.21	171.86	34.203		
6,700.00	5,263.56	5,202.56	5,202.56	84.83	89.86	89.72	-4,236.40	5,633.49	5,877.20	5,702.52	174.68	33.645		
6,757.26	5,304.85	5,243.85	5,243.85	85.71	90.58	90.00	-4,236.40	5,633.49	5,877.07	5,700.77	176.29	33.337		
6,800.00	5,335.68	5,274.68	5,274.68	86.37	91.12	90.21	-4,236.40	5,633.49	5,877.14	5,699.65	177.49	33.112		
6,900.00	5,407.81	5,346.81	5,346.81	87.92	92.38	90.70	-4,236.40	5,633.49	5,877.90	5,697.61	180.29	32.602		
7,000.00	5,479.93	5,400.00	5,400.00	89.47	93.31	91.05	-4,236.40	5,633.49	5,879.50	5,696.75	182.75	32.173		
7,100.00	5,552.06	5,400.00	5,400.00	91.01	93.31	91.05	-4,236.40	5,633.49	5,882.56	5,698.33	184.24	31.929		
7,200.00	5,624.18	5,400.00	5,400.00	92.56	93.31	91.05	-4,236.40	5,633.49	5,887.32	5,701.64	185.69	31.706		
7,300.00	5,696.31	5,400.00	5,400.00	94.10	93.31	91.05	-4,236.40	5,633.49	5,893.78	5,706.68	187.09	31.502		
7,400.00	5,768.43	5,400.00	5,400.00	95.65	93.31	91.05	-4,236.40	5,633.49	5,901.92	5,713.46	188.46	31.317		
7,500.00	5,840.56	5,400.00	5,400.00	97.20	93.31	91.05	-4,236.40	5,633.49	5,911.74	5,721.96	189.77	31.151		
7,600.00	5,912.68	5,400.00	5,400.00	98.74	93.31	91.05	-4,236.40	5,633.49	5,923.23	5,732.18	191.05	31.004		
7,700.00	5,984.81	5,400.00	5,400.00	100.29	93.31	91.05	-4,236.40	5,633.49	5,936.39	5,744.11	192.28	30.874		
7,800.00	6,056.93	5,400.00	5,400.00	101.84	93.31	91.05	-4,236.40	5,633.49	5,951.20	5,757.73	193.46	30.762		
7,900.00	6,129.06	5,400.00	5,400.00	103.38	93.31	91.05	-4,236.40	5,633.49	5,967.64	5,773.04	194.60	30.666		
8,000.00	6,201.18	5,400.00	5,400.00	104.93	93.31	91.05	-4,236.40	5,633.49	5,985.71	5,790.02	195.69	30.588		
8,100.00	6,273.31	5,400.00	5,400.00	106.48	93.31	91.05	-4,236.40	5,633.49	6,005.40	5,808.66	196.74	30.525		
8,200.00	6,345.43	5,400.00	5,400.00	108.02	93.31	91.05	-4,236.40	5,633.49	6,026.68	5,828.94	197.74	30.478		
8,300.00	6,417.56	5,400.00	5,400.00	109.57	93.31	91.05	-4,236.40	5,633.49	6,049.53	5,850.84	198.69	30.447		
8,400.00	6,489.68	5,400.00	5,400.00	111.12	93.31	91.05	-4,236.40	5,633.49	6,073.95	5,874.35	199.60	30.431		
8,500.00	6,561.81	5,400.00	5,400.00	112.66	93.31	91.05	-4,236.40	5,633.49	6,099.91	5,899.45	200.46	30.429		
8,600.00	6,633.93	5,400.00	5,400.00	114.21	93.31	91.05	-4,236.40	5,633.49	6,127.39	5,926.11	201.28	30.442		
8,700.00	6,706.06	5,400.00	5,400.00	115.76	93.31	91.05	-4,236.40	5,633.49	6,156.37	5,954.32	202.06	30.468		
8,800.00	6,778.18	5,400.00	5,400.00	117.30	93.31	91.05	-4,236.40	5,633.49	6,186.84	5,984.05	202.79	30.509		
8,900.00	6,850.31	5,400.00	5,400.00	118.85	93.31	91.05	-4,236.40	5,633.49	6,218.76	6,015.28	203.48	30.562		
9,000.00	6,922.43	5,400.00	5,400.00	120.40	93.31	91.05	-4,236.40	5,633.49	6,252.12	6,047.99	204.13	30.629		
9,100.00	6,994.56	5,400.00	5,400.00	121.95	93.31	91.05	-4,236.40	5,633.49	6,286.89	6,082.16	204.73	30.708		
9,200.00	7,066.68	5,400.00	5,400.00	123.49	93.31	91.05	-4,236.40	5,633.49	6,323.06	6,117.76	205.30	30.799		
9,300.00	7,138.81	5,400.00	5,400.00	125.04	93.31	91.05	-4,236.40	5,633.49	6,360.59	6,154.76	205.83	30.902		
9,392.50	7,205.52	5,400.00	5,400.00	126.47	93.31	91.05	-4,236.40	5,633.49	6,396.50	6,190.21	206.28	31.008		
9,400.00	7,210.94	5,400.00	5,400.00	126.59	93.31	90.37	-4,236.40	5,633.49	6,399.42	6,193.10	206.32	31.017		
9,450.00	7,247.42	5,400.00	5,400.00	127.35	93.31	85.56	-4,236.40	5,633.49	6,416.79	6,210.24	206.55	31.067		
9,500.00	7,284.35	5,400.00	5,400.00	128.10	93.31	80.43	-4,236.40	5,633.49	6,430.47	6,223.71	206.76	31.101		
9,550.00	7,321.43	5,400.00	5,400.00	128.83	93.31	75.12	-4,236.40	5,633.49	6,440.39	6,233.43	206.96	31.119		
9,600.00	7,358.38	5,400.00	5,400.00	129.52	93.31	69.79	-4,236.40	5,633.49	6,446.47	6,239.35	207.13	31.124		
9,650.00	7,394.93	5,400.00	5,400.00	130.16	93.31	64.57	-4,236.40	5,633.49	6,448.70	6,241.44	207.26	31.114		
9,700.00	7,430.79	5,400.00	5,400.00	130.76	93.31	59.58	-4,236.40	5,633.49	6,447.05	6,239.69	207.36	31.090		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.00	7,465.70	5,400.00	5,400.00	131.30	93.31	54.90	-4,236.40	5,633.49	6,441.54	6,234.11	207.43	31.054		
9,800.00	7,499.38	5,400.00	5,400.00	131.78	93.31	50.55	-4,236.40	5,633.49	6,432.20	6,224.74	207.45	31.006		
9,850.00	7,531.58	5,400.00	5,400.00	132.21	93.31	46.56	-4,236.40	5,633.49	6,419.07	6,211.64	207.43	30.945		
9,900.00	7,562.06	5,400.00	5,400.00	132.57	93.31	42.90	-4,236.40	5,633.49	6,402.25	6,194.87	207.38	30.873		
9,950.00	7,590.58	5,400.00	5,400.00	132.87	93.31	39.54	-4,236.40	5,633.49	6,381.82	6,174.54	207.28	30.789		
10,000.00	7,616.93	5,400.00	5,400.00	133.11	93.31	36.42	-4,236.40	5,633.49	6,357.91	6,150.77	207.14	30.694		
10,050.00	7,640.90	5,400.00	5,400.00	133.29	93.31	33.49	-4,236.40	5,633.49	6,330.67	6,123.70	206.97	30.587		
10,100.00	7,662.32	5,400.00	5,400.00	133.42	93.31	30.68	-4,236.40	5,633.49	6,300.26	6,093.49	206.77	30.470		
10,150.00	7,681.01	5,400.00	5,400.00	133.50	93.31	27.91	-4,236.40	5,633.49	6,266.86	6,060.31	206.54	30.342		
10,200.00	7,696.85	5,400.00	5,400.00	133.52	93.31	25.06	-4,236.40	5,633.49	6,230.68	6,024.39	206.30	30.202		
10,250.00	7,709.70	5,400.00	5,400.00	133.51	93.31	21.99	-4,236.40	5,633.49	6,191.96	5,985.93	206.04	30.052		
10,300.00	7,719.47	5,400.00	5,400.00	133.46	93.31	18.52	-4,236.40	5,633.49	6,150.95	5,945.17	205.77	29.892		
10,350.00	7,726.09	5,400.00	5,400.00	133.37	93.31	14.33	-4,236.40	5,633.49	6,107.90	5,902.39	205.51	29.721		
10,400.00	7,729.50	5,400.00	5,400.00	133.26	93.31	8.96	-4,236.40	5,633.49	6,063.12	5,857.87	205.25	29.540		
10,427.79	7,730.00	5,400.00	5,400.00	133.18	93.31	5.22	-4,236.40	5,633.49	6,037.58	5,832.47	205.11	29.435		
10,500.00	7,730.00	5,400.00	5,400.00	132.98	93.31	5.22	-4,236.40	5,633.49	5,970.78	5,766.02	204.76	29.160		
10,600.00	7,730.00	5,400.00	5,400.00	132.72	93.31	5.22	-4,236.40	5,633.49	5,878.47	5,674.23	204.24	28.782		
10,700.00	7,730.00	5,400.00	5,400.00	132.47	93.31	5.22	-4,236.40	5,633.49	5,786.41	5,582.71	203.71	28.406		
10,800.00	7,730.00	5,400.00	5,400.00	132.22	93.31	5.22	-4,236.40	5,633.49	5,694.63	5,491.48	203.15	28.032		
10,900.00	7,730.00	5,400.00	5,400.00	131.99	93.31	5.22	-4,236.40	5,633.49	5,603.13	5,400.56	202.56	27.661		
11,000.00	7,730.00	5,400.00	5,400.00	131.77	93.31	5.22	-4,236.40	5,633.49	5,511.92	5,309.96	201.95	27.293		
11,100.00	7,730.00	5,400.00	5,400.00	131.56	93.31	5.22	-4,236.40	5,633.49	5,421.02	5,219.70	201.32	26.928		
11,200.00	7,730.00	5,400.00	5,400.00	131.36	93.31	5.22	-4,236.40	5,633.49	5,330.44	5,129.80	200.65	26.566		
11,300.00	7,730.00	5,400.00	5,400.00	131.17	93.31	5.22	-4,236.40	5,633.49	5,240.21	5,040.26	199.95	26.208		
11,400.00	7,730.00	5,400.00	5,400.00	130.99	93.31	5.22	-4,236.40	5,633.49	5,150.35	4,951.13	199.22	25.853		
11,500.00	7,730.00	5,400.00	5,400.00	130.82	93.31	5.22	-4,236.40	5,633.49	5,060.86	4,862.41	198.45	25.502		
11,600.00	7,730.00	5,400.00	5,400.00	130.66	93.31	5.22	-4,236.40	5,633.49	4,971.77	4,774.12	197.65	25.155		
11,700.00	7,730.00	5,400.00	5,400.00	130.51	93.31	5.22	-4,236.40	5,633.49	4,883.10	4,686.30	196.80	24.812		
11,800.00	7,730.00	5,400.00	5,400.00	130.37	93.31	5.22	-4,236.40	5,633.49	4,794.88	4,598.97	195.91	24.475		
11,900.00	7,730.00	5,400.00	5,400.00	130.24	93.31	5.22	-4,236.40	5,633.49	4,707.13	4,512.15	194.98	24.142		
12,000.00	7,730.00	5,400.00	5,400.00	130.13	93.31	5.22	-4,236.40	5,633.49	4,619.88	4,425.88	194.00	23.814		
12,100.00	7,730.00	5,400.00	5,400.00	130.02	93.31	5.22	-4,236.40	5,633.49	4,533.16	4,340.19	192.97	23.492		
12,200.00	7,730.00	5,400.00	5,400.00	129.93	93.31	5.22	-4,236.40	5,633.49	4,446.99	4,255.11	191.88	23.176		
12,300.00	7,730.00	5,400.00	5,400.00	129.85	93.31	5.22	-4,236.40	5,633.49	4,361.41	4,170.67	190.74	22.866		
12,400.00	7,730.00	5,400.00	5,400.00	129.77	93.31	5.22	-4,236.40	5,633.49	4,276.46	4,086.93	189.53	22.563		
12,500.00	7,730.00	5,400.00	5,400.00	129.71	93.31	5.22	-4,236.40	5,633.49	4,192.18	4,003.91	188.26	22.268		
12,600.00	7,730.00	5,400.00	5,400.00	129.66	93.31	5.22	-4,236.40	5,633.49	4,108.60	3,921.67	186.92	21.980		
12,700.00	7,730.00	5,400.00	5,400.00	129.63	93.31	5.22	-4,236.40	5,633.49	4,025.76	3,840.25	185.51	21.701		
12,800.00	7,730.00	5,400.00	5,400.00	129.60	93.31	5.22	-4,236.40	5,633.49	3,943.73	3,759.71	184.01	21.432		
12,900.00	7,730.00	5,400.00	5,400.00	129.59	93.31	5.22	-4,236.40	5,633.49	3,862.54	3,680.10	182.44	21.172		
13,000.00	7,730.00	5,400.00	5,400.00	129.59	93.31	5.22	-4,236.40	5,633.49	3,782.25	3,601.48	180.77	20.923		
13,100.00	7,730.00	5,400.00	5,400.00	129.60	93.31	5.22	-4,236.40	5,633.49	3,702.92	3,523.91	179.01	20.686		
13,200.00	7,730.00	5,400.00	5,400.00	129.63	93.31	5.22	-4,236.40	5,633.49	3,624.61	3,447.46	177.15	20.461		
13,300.00	7,730.00	5,400.00	5,400.00	129.66	93.31	5.22	-4,236.40	5,633.49	3,547.40	3,372.21	175.18	20.250		
13,400.00	7,730.00	5,400.00	5,400.00	129.72	93.31	5.22	-4,236.40	5,633.49	3,471.34	3,298.24	173.10	20.054		
13,500.00	7,730.00	5,400.00	5,400.00	129.78	93.31	5.22	-4,236.40	5,633.49	3,396.53	3,225.62	170.91	19.873		
13,600.00	7,730.00	5,400.00	5,400.00	129.86	93.31	5.22	-4,236.40	5,633.49	3,323.05	3,154.46	168.59	19.711		
13,700.00	7,730.00	5,400.00	5,400.00	129.96	93.31	5.22	-4,236.40	5,633.49	3,250.98	3,084.83	166.14	19.567		
13,800.00	7,730.00	5,400.00	5,400.00	130.07	93.31	5.22	-4,236.40	5,633.49	3,180.42	3,016.86	163.56	19.445		
13,900.00	7,730.00	5,400.00	5,400.00	130.19	93.31	5.22	-4,236.40	5,633.49	3,111.47	2,950.63	160.84	19.345		
14,000.00	7,730.00	5,400.00	5,400.00	130.33	93.31	5.22	-4,236.40	5,633.49	3,044.25	2,886.27	157.98	19.269		
14,100.00	7,730.00	5,400.00	5,400.00	130.49	93.31	5.22	-4,236.40	5,633.49	2,978.87	2,823.89	154.98	19.221		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,400.00	5,400.00	130.67	93.31	5.22	-4,236.40	5,633.49	2,915.46	2,763.62	151.83	19.202		
14,300.00	7,730.00	5,400.00	5,400.00	130.86	93.31	5.22	-4,236.40	5,633.49	2,854.14	2,705.59	148.54	19.214		
14,400.00	7,730.00	5,400.00	5,400.00	131.07	93.31	5.22	-4,236.40	5,633.49	2,795.05	2,649.93	145.12	19.261		
14,500.00	7,730.00	5,400.00	5,400.00	131.30	93.31	5.22	-4,236.40	5,633.49	2,738.34	2,596.79	141.56	19.344		
14,600.00	7,730.00	5,400.00	5,400.00	131.55	93.31	5.22	-4,236.40	5,633.49	2,684.16	2,546.28	137.88	19.468		
14,700.00	7,730.00	5,400.00	5,400.00	131.82	93.31	5.22	-4,236.40	5,633.49	2,632.67	2,498.57	134.10	19.633		
14,800.00	7,730.00	5,400.00	5,400.00	132.11	93.31	5.22	-4,236.40	5,633.49	2,584.02	2,453.79	130.23	19.842		
14,900.00	7,730.00	5,400.00	5,400.00	132.42	93.31	5.22	-4,236.40	5,633.49	2,538.38	2,412.06	126.31	20.096		
15,000.00	7,730.00	5,400.00	5,400.00	132.75	93.31	5.22	-4,236.40	5,633.49	2,495.91	2,373.53	122.37	20.396		
15,100.00	7,730.00	5,400.00	5,400.00	133.10	93.31	5.22	-4,236.40	5,633.49	2,456.78	2,338.32	118.46	20.739		
15,200.00	7,730.00	5,400.00	5,400.00	133.48	93.31	5.22	-4,236.40	5,633.49	2,421.15	2,306.53	114.62	21.123		
15,300.00	7,730.00	5,400.00	5,400.00	133.88	93.31	5.22	-4,236.40	5,633.49	2,389.18	2,278.26	110.92	21.540		
15,400.00	7,730.00	5,400.00	5,400.00	134.31	93.31	5.22	-4,236.40	5,633.49	2,361.02	2,253.58	107.43	21.977		
15,500.00	7,730.00	5,400.00	5,400.00	134.76	93.31	5.22	-4,236.40	5,633.49	2,336.79	2,232.55	104.24	22.417		
15,600.00	7,730.00	5,400.00	5,400.00	135.23	93.31	5.22	-4,236.40	5,633.49	2,316.64	2,215.17	101.47	22.831		
15,700.00	7,730.00	5,400.00	5,400.00	135.73	93.31	5.22	-4,236.40	5,633.49	2,300.66	2,201.42	99.24	23.184		
15,800.00	7,730.00	5,400.00	5,400.00	136.26	93.31	5.22	-4,236.40	5,633.49	2,288.94	2,191.23	97.71	23.427		
15,900.00	7,730.00	5,400.00	5,400.00	136.81	93.31	5.22	-4,236.40	5,633.49	2,281.54	2,184.49	97.05	23.508		
16,000.00	7,730.00	5,400.00	5,400.00	137.39	93.31	5.22	-4,236.40	5,633.49	2,278.52	2,181.09	97.43	23.387		
16,018.96	7,730.00	5,400.00	5,400.00	137.50	93.31	5.22	-4,236.40	5,633.49	2,278.44	2,180.82	97.62	23.339 CC, ES		
16,100.00	7,730.00	5,400.00	5,400.00	138.00	93.31	5.22	-4,236.40	5,633.49	2,279.88	2,180.99	98.89	23.054		
16,200.00	7,730.00	5,400.00	5,400.00	138.63	93.31	5.22	-4,236.40	5,633.49	2,285.62	2,184.24	101.38	22.544		
16,300.00	7,730.00	5,400.00	5,400.00	139.30	93.31	5.22	-4,236.40	5,633.49	2,295.71	2,190.97	104.73	21.920		
16,400.00	7,730.00	5,400.00	5,400.00	139.99	93.31	5.22	-4,236.40	5,633.49	2,310.08	2,201.35	108.73	21.246		
16,500.00	7,730.00	5,400.00	5,400.00	140.70	93.31	5.22	-4,236.40	5,633.49	2,328.67	2,215.49	113.18	20.575		
16,600.00	7,730.00	5,400.00	5,400.00	141.45	93.31	5.22	-4,236.40	5,633.49	2,351.36	2,233.44	117.92	19.941		
16,700.00	7,730.00	5,400.00	5,400.00	142.22	93.31	5.22	-4,236.40	5,633.49	2,378.05	2,255.24	122.81	19.364		
16,800.00	7,730.00	5,400.00	5,400.00	143.03	93.31	5.22	-4,236.40	5,633.49	2,408.59	2,280.83	127.76	18.853		
16,900.00	7,730.00	5,400.00	5,400.00	143.86	93.31	5.22	-4,236.40	5,633.49	2,442.85	2,310.16	132.69	18.410		
17,000.00	7,730.00	5,400.00	5,400.00	144.71	93.31	5.22	-4,236.40	5,633.49	2,480.67	2,343.13	137.54	18.036		
17,100.00	7,730.00	5,400.00	5,400.00	145.60	93.31	5.22	-4,236.40	5,633.49	2,521.89	2,379.63	142.27	17.727		
17,200.00	7,730.00	5,400.00	5,400.00	146.51	93.31	5.22	-4,236.40	5,633.49	2,566.35	2,419.51	146.84	17.478		
17,300.00	7,730.00	5,400.00	5,400.00	147.44	93.31	5.22	-4,236.40	5,633.49	2,613.88	2,462.65	151.23	17.284		
17,400.00	7,730.00	5,400.00	5,400.00	148.40	93.31	5.22	-4,236.40	5,633.49	2,664.31	2,508.88	155.43	17.142		
17,500.00	7,730.00	5,400.00	5,400.00	149.39	93.31	5.22	-4,236.40	5,633.49	2,717.49	2,558.07	159.43	17.045		
17,600.00	7,730.00	5,400.00	5,400.00	150.40	93.31	5.22	-4,236.40	5,633.49	2,773.26	2,610.04	163.22	16.991		
17,700.00	7,730.00	5,400.00	5,400.00	151.44	93.31	5.22	-4,236.40	5,633.49	2,831.46	2,664.66	166.80	16.975 SF		
17,800.00	7,730.00	5,400.00	5,400.00	152.50	93.31	5.22	-4,236.40	5,633.49	2,891.95	2,721.77	170.18	16.993		
17,900.00	7,730.00	5,400.00	5,400.00	153.58	93.31	5.22	-4,236.40	5,633.49	2,954.59	2,781.23	173.37	17.043		
18,000.00	7,730.00	5,400.00	5,400.00	154.68	93.31	5.22	-4,236.40	5,633.49	3,019.24	2,842.88	176.36	17.120		
18,100.00	7,730.00	5,400.00	5,400.00	155.80	93.31	5.22	-4,236.40	5,633.49	3,085.78	2,906.61	179.16	17.223		
18,200.00	7,730.00	5,400.00	5,400.00	156.95	93.31	5.22	-4,236.40	5,633.49	3,154.08	2,972.29	181.79	17.350		
18,300.00	7,730.00	5,400.00	5,400.00	158.11	93.31	5.22	-4,236.40	5,633.49	3,224.04	3,039.78	184.26	17.497		
18,400.00	7,730.00	5,400.00	5,400.00	159.30	93.31	5.22	-4,236.40	5,633.49	3,295.55	3,108.98	186.57	17.664		
18,500.00	7,730.00	5,400.00	5,400.00	160.50	93.31	5.22	-4,236.40	5,633.49	3,368.51	3,179.78	188.73	17.848		
18,600.00	7,730.00	5,400.00	5,400.00	161.72	93.31	5.22	-4,236.40	5,633.49	3,442.83	3,252.07	190.75	18.049		
18,700.00	7,730.00	5,400.00	5,400.00	162.96	93.31	5.22	-4,236.40	5,633.49	3,518.42	3,325.77	192.65	18.264		
18,800.00	7,730.00	5,400.00	5,400.00	164.21	93.31	5.22	-4,236.40	5,633.49	3,595.20	3,400.78	194.42	18.492		
18,900.00	7,730.00	5,400.00	5,400.00	165.48	93.31	5.22	-4,236.40	5,633.49	3,673.10	3,477.03	196.08	18.733		
19,000.00	7,730.00	5,400.00	5,400.00	166.76	93.31	5.22	-4,236.40	5,633.49	3,752.05	3,554.42	197.63	18.985		
19,100.00	7,730.00	5,400.00	5,400.00	168.06	93.31	5.22	-4,236.40	5,633.49	3,831.98	3,632.90	199.09	19.248		
19,200.00	7,730.00	5,400.00	5,400.00	169.38	93.31	5.22	-4,236.40	5,633.49	3,912.84	3,712.39	200.45	19.520		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,400.00	5,400.00	170.70	93.31	5.22	-4,236.40	5,633.49	3,994.56	3,792.83	201.73	19.801	
19,400.00	7,730.00	5,400.00	5,400.00	172.04	93.31	5.22	-4,236.40	5,633.49	4,077.10	3,874.17	202.93	20.091	
19,500.00	7,730.00	5,400.00	5,400.00	173.40	93.31	5.22	-4,236.40	5,633.49	4,160.40	3,956.34	204.06	20.388	
19,600.00	7,730.00	5,400.00	5,400.00	174.76	93.31	5.22	-4,236.40	5,633.49	4,244.43	4,039.31	205.12	20.693	
19,700.00	7,730.00	5,400.00	5,400.00	176.14	93.31	5.22	-4,236.40	5,633.49	4,329.13	4,123.02	206.11	21.004	
19,800.00	7,730.00	5,400.00	5,400.00	177.52	93.31	5.22	-4,236.40	5,633.49	4,414.47	4,207.42	207.05	21.321	
19,900.00	7,730.00	5,400.00	5,400.00	178.92	93.31	5.22	-4,236.40	5,633.49	4,500.42	4,292.49	207.93	21.644	
20,000.00	7,730.00	5,400.00	5,400.00	180.33	93.31	5.22	-4,236.40	5,633.49	4,586.94	4,378.18	208.76	21.972	
20,100.00	7,730.00	5,400.00	5,400.00	181.75	93.31	5.22	-4,236.40	5,633.49	4,673.99	4,464.45	209.54	22.306	
20,184.95	7,730.00	5,400.00	5,400.00	182.96	93.31	5.22	-4,236.40	5,633.49	4,748.35	4,538.18	210.17	22.593	

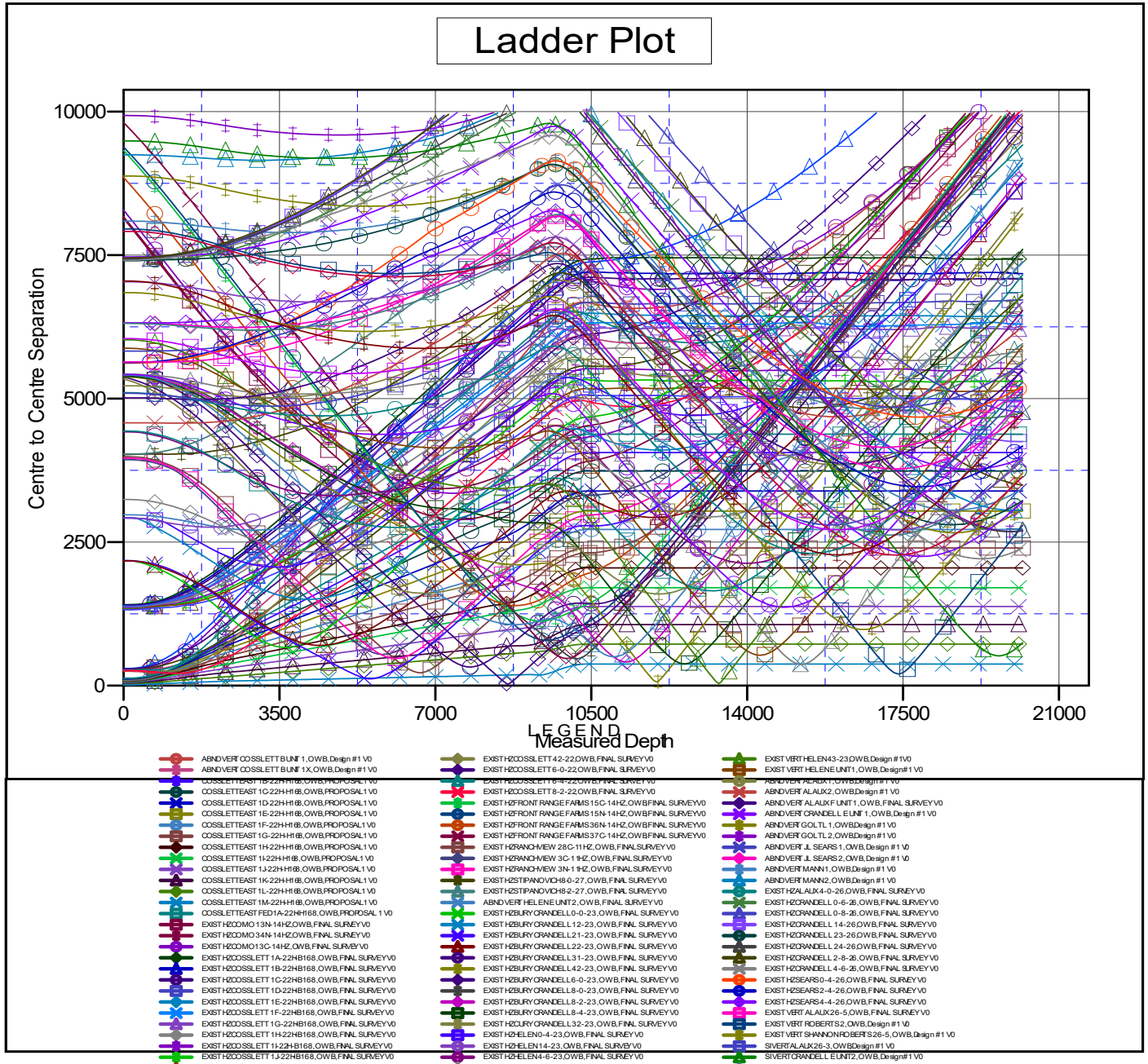
Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1N-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Coordinates are relative to: COSSLETT EAST 1N-22H-H168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES
Project:	WELD COUNTY
Reference Site:	SEC 22-T1N-R68W
Site Error:	0.00 usft
Reference Well:	COSSLETT EAST 1N-22H-H168
Well Error:	0.00 usft
Reference Wellbore	OWB
Reference Design:	PROPOSAL 1

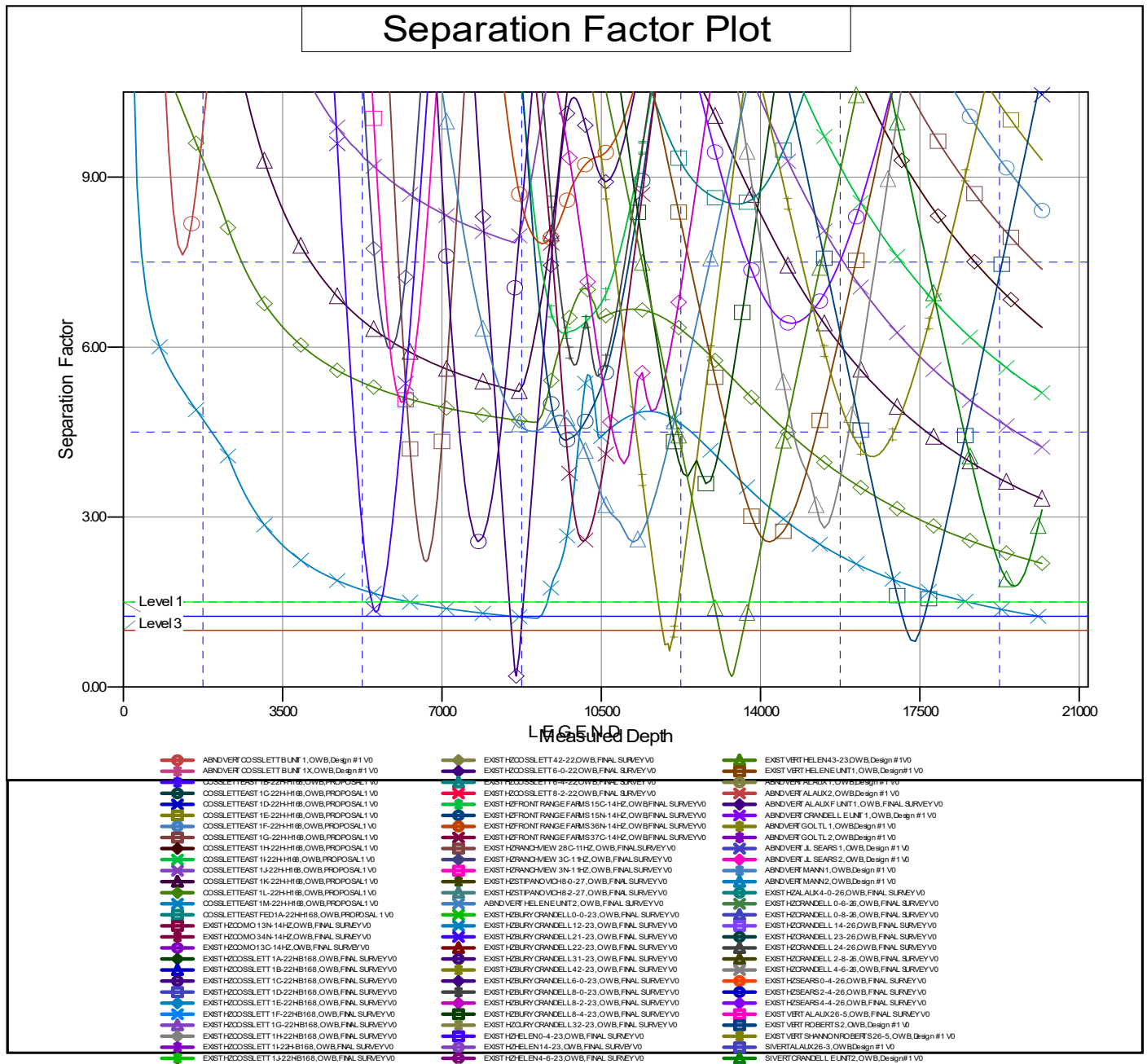
Local Co-ordinate Reference:	Well COSSLETT EAST 1N-22H-H168
TVD Reference:	KB 25' @ 5206.00usft
MD Reference:	KB 25' @ 5206.00usft
North Reference:	True
Survey Calculation Method:	Minimum Curvature
Output errors are at	2.00 sigma
Database:	EDT_32Bit_ODBC
Offset TVD Reference:	Offset Datum

Offset Depths are relative to Offset Datum

Central Meridian is 105.500000°W

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation