

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 11-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	19,383.51	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	1,760.73	1,714.23	144.95	108.75	4.004	CC
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,800.00	1,750.21	145.80	108.72	3.932	ES, SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,190.34	1,172.17	257.20	233.57	10.885	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,300.00	1,279.06	258.36	232.38	9.946	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,700.00	1,659.17	296.73	262.16	8.582	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	600.00	601.00	69.72	65.87	18.077	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	19,383.51	18,445.33	2,359.52	2,033.97	7.248	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	600.00	601.00	59.92	56.06	15.535	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	19,383.51	18,417.55	2,044.52	1,721.55	6.330	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	600.00	601.00	49.84	45.98	12.922	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	19,383.51	18,451.39	1,706.64	1,387.56	5.349	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	600.00	601.00	39.76	35.90	10.309	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	19,383.51	18,791.71	1,339.69	1,014.44	4.119	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	600.00	601.00	29.96	26.11	7.768	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	19,383.51	18,706.96	1,050.74	739.11	3.372	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	600.00	600.00	19.88	16.03	5.160	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	19,383.51	18,939.19	713.82	398.92	2.267	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	600.00	600.00	9.80	5.95	2.543	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	8,300.00	8,338.68	174.70	31.83	1.223	Level 2, SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	500.00	499.00	10.08	6.95	3.217	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	19,383.51	19,431.68	348.77	25.52	1.079	Level 2, SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	399.00	20.16	17.74	8.344	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	19,383.51	19,518.56	682.93	356.58	2.093	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	299.00	30.24	28.54	17.797	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	19,383.51	19,893.49	989.86	664.11	3.039	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	199.00	40.04	39.06	40.765	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	19,383.51	19,801.62	1,395.03	1,065.93	4.239	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	99.00	50.12	49.85	187.364	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	19,383.51	20,192.13	1,705.29	1,376.52	5.187	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	600.00	601.00	80.08	76.23	20.762	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	19,383.51	18,142.81	2,690.21	2,367.67	8.341	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,993.82	16,236.00	1,739.60	1,553.27	9.336	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,100.00	16,236.00	1,742.84	1,551.94	9.130	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,178.05	1,785.46	1,584.22	8.872	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,745.67	16,659.00	2,322.17	2,135.51	12.440	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,800.00	16,659.00	2,322.81	2,134.21	12.316	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,655.63	2,387.41	2,184.99	11.794	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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 COMO13C-14HZ - OWB - FINAL SURVEY	7,943.58	16,530.00	2,211.49	2,025.92	11.917	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,000.00	16,530.00	2,212.21	2,024.59	11.791	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,500.00	16,530.00	2,280.41	2,079.07	11.326	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,369.71			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	200.00	179.59	1,370.32	1,369.54	1,768.265	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	19,383.51	17,546.00	5,728.52	5,396.08	17.232	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	542.57	537.28	1,359.48	1,356.13	405.712	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	19,383.51	17,340.00	5,479.44	5,147.43	16.504	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	289.62	279.63	1,353.02	1,351.56	928.579	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	600.00	583.94	1,353.56	1,349.92	371.933	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	19,383.51	17,471.00	5,381.78	5,049.14	16.179	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	88.98	1,345.30	1,345.01	4,764.112	CC
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	382.84	1,345.97	1,344.00	682.905	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	19,383.51	17,420.74	5,023.57	4,694.08	15.247	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	621.56	616.05	1,305.27	1,302.73	514.149	CC, ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	19,383.51	17,324.48	4,754.01	4,427.25	14.549	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	89.49	1,328.77	1,328.49	4,766.953	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	400.00	380.12	1,329.54	1,327.42	628.418	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	19,383.51	17,796.00	4,594.98	4,261.38	13.774	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	88.74	1,320.88	1,320.59	4,683.376	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	600.00	579.62	1,322.04	1,318.67	392.562	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	19,383.51	17,487.00	4,509.11	4,177.06	13.579	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	328.33	317.34	1,312.19	1,310.41	736.353	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	500.00	477.08	1,312.97	1,310.01	444.541	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	19,383.51	17,287.80	4,140.44	3,823.94	13.082	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	961.97	1,025.00	1,302.35	1,296.10	208.093	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	1,000.00	1,065.85	1,302.44	1,295.87	198.291	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	19,383.51	17,583.00	3,819.45	3,488.52	11.542	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	1,055.20	1,136.01	1,287.58	1,280.47	181.222	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	1,100.00	1,180.81	1,287.73	1,280.24	171.953	ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	19,383.51	17,597.84	3,609.19	3,280.00	10.964	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	1,477.14	1,634.00	1,274.95	1,263.24	108.857	CC
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	1,500.00	1,650.14	1,275.04	1,263.11	106.922	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	19,300.00	17,450.70	3,456.08	3,140.43	10.949	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	1,291.82	1,413.27	1,250.89	1,241.13	128.197	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	1,521.88	1,682.24	1,252.15	1,239.53	99.194	ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	19,383.51	17,815.03	3,267.75	2,935.20	9.826	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	506.85	498.92	240.70	237.58	77.102	CC, ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,200.00	1,148.93	332.66	324.22	39.413	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	267.53			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	89.59	267.62	267.34	952.925	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	7,200.00	7,200.00	4,523.54	4,446.06	58.382	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	90.22	256.73	256.45	913.306	CC
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	188.75	257.26	256.36	286.190	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	2,600.00	2,481.00	623.24	597.97	24.672	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,480.45	1,496.97	89.75	79.23	8.529	CC, ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,600.00	1,611.00	98.65	86.88	8.381	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	160.08	152.05	262.35	261.75	438.712	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	188.74	262.54	261.65	293.147	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	3,200.00	2,898.81	1,218.66	1,185.98	37.283	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,086.57	1,108.24	164.41	156.41	20.543	CC
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,100.00	1,120.75	164.51	156.38	20.223	ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,200.00	1,212.35	171.85	162.74	18.866	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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 COSSLETT 8-2-22 - OWB - FINAL SURVEY	2,216.15	2,187.25	106.98	85.82	5.057	CC, ES, SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,342.37	15,353.00	492.67	340.11	3.229	CC, ES, SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,300.00	15,243.00	792.29	617.38	4.530	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,350.00	15,243.00	788.29	615.53	4.563	ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,359.36	15,243.00	788.19	615.82	4.573	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,088.78	15,134.00	81.64	-83.49	0.494	Level 1, CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,100.00	15,134.00	82.44	-94.43	0.466	Level 1, SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,150.00	15,134.00	102.91	-96.02	0.517	Level 1, ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,300.00	15,352.00	1,365.42	1,189.51	7.762	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,440.89	15,352.00	1,346.94	1,175.91	7.876	CC, ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,744.57	6,569.40	429.15	326.82	4.193	CC, ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,800.00	6,614.66	430.42	326.97	4.160	SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	6,597.89	5,736.67	35.37	-54.52	0.393	Level 1, CC, ES, SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	6,990.55	6,005.38	90.38	-3.11	0.967	Level 1, CC, ES, SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	14,607.90	7,971.74	3,138.63	3,024.87	27.590	CC, ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	15,000.00	7,970.62	3,163.02	3,047.48	27.375	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	15,886.45	8,032.86	3,127.73	2,990.67	22.821	CC, ES
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,000.00	8,031.20	3,129.79	2,992.62	22.817	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	13,067.92	7,873.00	2,145.97	2,054.46	23.452	CC, ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	13,200.00	7,862.74	2,150.01	2,058.20	23.419	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,376.35	3,800.33	654.83	602.97	12.629	CC
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,400.00	3,816.75	655.04	602.81	12.543	ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,600.00	3,959.77	673.14	618.29	12.272	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,885.07	4,999.29	1,366.46	1,306.26	22.696	CC
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,900.00	5,008.38	1,366.50	1,306.12	22.630	ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	5,400.00	5,307.00	1,415.15	1,349.49	21.554	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	7,089.45	6,175.87	280.65	180.90	2.814	CC
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	7,100.00	6,184.44	280.72	180.81	2.810	ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,839.15	3,971.34	1,227.74	1,174.10	22.890	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	11,100.64	8,009.72	1,230.13	1,151.90	15.725	ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	11,500.00	8,009.82	1,293.33	1,207.99	15.156	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,600.00	7,901.56	314.84	213.25	3.099	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,700.00	7,904.70	280.72	196.44	3.331	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,747.13	7,905.00	276.74	200.68	3.639	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,200.00	7,905.14	1,896.82	1,796.21	18.854	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,159.05	7,907.64	1,636.53	1,558.11	20.871	CC, ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,200.00	7,768.54	830.20	747.43	10.030	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,432.71	7,876.86	777.92	705.68	10.769	CC, ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,100.00	7,728.05	2,250.01	2,165.86	26.738	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,500.00	7,916.28	2,141.43	2,066.91	28.739	ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,520.57	7,920.96	2,141.13	2,067.10	28.922	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,450.00	7,843.33	2,365.31	2,264.52	23.466	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,474.24	7,879.48	2,113.70	2,040.35	28.817	CC, ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,784.75	8,106.44	2,080.19	1,990.34	23.153	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,800.00	8,106.64	2,080.24	1,990.21	23.106	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	13,000.00	8,119.43	2,409.12	2,289.18	20.085	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,200.00	7,987.75	105.06	23.36	1.286	Level 3, ES, SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,207.71	7,987.78	104.78	24.98	1.313	Level 3, CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	4,010.71	4,315.88	2,001.62	1,952.24	40.539	CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	4,100.00	4,379.75	2,002.59	1,951.87	39.485	ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	12,700.00	8,034.10	3,090.53	3,001.33	34.647	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	14,029.82	7,974.23	2,311.63	2,202.83	21.248	CC, ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	14,100.00	7,976.07	2,312.69	2,203.72	21.223	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,100.00	7,923.30	441.15	342.01	4.450	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,191.62	7,920.88	431.54	335.89	4.512	CC, ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,409.40	8,085.20	2,070.95	1,957.94	18.324	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,500.00	8,083.61	2,072.93	1,956.78	17.846	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,400.00	8,071.49	2,295.62	2,149.79	15.742	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,800.00	7,781.00	1,263.04	1,064.85	6.373	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,200.00	7,781.00	1,197.23	1,017.15	6.648	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,202.40	7,781.00	1,197.23	1,017.23	6.651	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	12,421.57	7,812.00	1,243.59	1,052.35	6.503	CC, ES, SF
EXIST VERT HELEN 33-23 - OWB - Design #1	12,413.38	7,833.00	47.28	-144.22	0.247	Level 1, CC, ES, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,033.46	7,824.00	333.06	121.10	1.571	CC
EXIST VERT HELEN 34-23 - OWB - Design #1	14,100.00	7,824.00	339.64	120.72	1.551	ES, SF
EXIST VERT HELEN 43-23 - OWB - Design #1	12,553.32	7,816.00	1,663.50	1,470.78	8.632	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	12,600.00	7,816.00	1,664.16	1,470.51	8.594	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,000.00	7,816.00	1,722.43	1,517.86	8.420	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,481.12	7,822.00	1,169.80	965.54	5.727	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,500.00	7,822.00	1,169.95	965.04	5.710	ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,700.00	7,822.00	1,190.10	977.58	5.600	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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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						

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	15,219.49	5,050.00	2,996.91	2,898.13	30.339	CC, ES
ABND VERT ALAUX 1 - OWB - Design #1	17,000.00	5,050.00	3,485.93	3,353.75	26.374	SF
ABND VERT ALAUX 2 - OWB - Design #1	15,224.07	5,450.00	3,393.42	3,255.52	24.608	CC, ES
ABND VERT ALAUX 2 - OWB - Design #1	16,000.00	5,450.00	3,481.00	3,337.41	24.242	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,400.00	7,800.00	2,169.20	2,043.93	17.316	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,484.11	7,800.00	2,167.57	2,042.40	17.317	CC, ES
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,100.00	7,887.00	2,070.42	1,791.32	7.418	SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,165.65	7,887.00	2,069.38	1,790.56	7.422	CC, ES
ABND VERT GOLTL 1 - OWB - Design #1	17,836.84	5,042.00	3,173.99	3,018.26	20.381	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,900.00	5,042.00	3,174.62	3,017.52	20.208	ES
ABND VERT GOLTL 1 - OWB - Design #1	19,200.00	5,042.00	3,454.34	3,266.86	18.425	SF
ABND VERT GOLTL 2 - OWB - Design #1	19,155.56	5,020.00	3,192.54	3,023.85	18.925	CC
ABND VERT GOLTL 2 - OWB - Design #1	19,200.00	5,020.00	3,192.85	3,023.18	18.817	ES
ABND VERT GOLTL 2 - OWB - Design #1	19,383.51	5,020.00	3,200.67	3,026.80	18.408	SF
ABND VERT JL SEARS 1 - OWB - Design #1	16,552.29	5,125.00	3,628.80	3,483.90	25.044	CC, ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,200.00	5,125.00	3,686.15	3,537.36	24.775	SF
ABND VERT JL SEARS 2 - OWB - Design #1	16,519.27	5,148.00	2,901.92	2,789.47	25.807	CC, ES
ABND VERT JL SEARS 2 - OWB - Design #1	18,000.00	5,148.00	3,257.87	3,121.44	23.881	SF
ABND VERT MANN 1 - OWB - Design #1	17,820.03	5,050.00	2,803.60	2,694.58	25.717	CC
ABND VERT MANN 1 - OWB - Design #1	17,900.00	5,050.00	2,804.74	2,694.42	25.423	ES
ABND VERT MANN 1 - OWB - Design #1	19,383.51	5,050.00	3,210.08	3,056.14	20.853	SF
ABND VERT MANN 2 - OWB - Design #1	19,160.28	5,048.00	2,796.10	2,676.86	23.449	CC
ABND VERT MANN 2 - OWB - Design #1	19,200.00	5,048.00	2,796.38	2,676.54	23.333	ES
ABND VERT MANN 2 - OWB - Design #1	19,383.51	5,048.00	2,805.00	2,681.34	22.683	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,500.00	7,946.47	612.75	494.74	5.192	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,600.00	7,945.97	601.19	486.59	5.246	ES
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,620.20	7,945.87	600.85	487.01	5.278	CC
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,424.67	8,071.55	2,958.86	2,783.17	16.841	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,500.00	8,071.44	2,959.82	2,783.98	16.833	SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	19,383.51	8,298.78	3,065.56	2,859.35	14.866	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,325.96	8,091.14	2,549.50	2,352.71	12.955	CC, ES, SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,700.00	8,033.98	1,105.21	938.71	6.638	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,783.47	8,032.93	1,102.06	937.13	6.682	CC, ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,000.00	8,142.22	983.15	788.88	5.061	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,070.94	8,143.35	980.58	788.79	5.113	CC, ES
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	19,383.51	8,308.58	1,808.25	1,596.81	8.552	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,400.00	8,179.79	509.36	327.72	2.804	ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,446.83	8,178.84	507.20	329.22	2.850	CC
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,065.71	8,116.17	2,973.46	2,818.08	19.136	CC, ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,200.00	8,109.87	2,976.49	2,820.82	19.121	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,900.00	8,054.80	1,768.30	1,612.17	11.326	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,044.14	8,050.75	1,762.42	1,607.59	11.383	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,000.00	7,923.93	558.40	399.00	3.503	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,093.20	7,922.33	550.57	396.14	3.565	CC, ES
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,264.73	7,910.89	2,450.35	2,311.52	17.650	CC, ES, SF
EXIST VERT ROBERTS 2 - OWB - Design #1	16,590.98	7,842.00	1,497.71	1,245.76	5.944	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	16,700.00	7,842.00	1,501.68	1,245.07	5.852	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,900.00	7,842.00	1,529.26	1,265.14	5.790	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,799.61	7,823.00	721.62	482.76	3.021	CC
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,800.00	7,823.00	721.62	482.74	3.021	ES
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,900.00	7,823.00	728.57	483.11	2.968	SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,000.00	7,848.00	1,103.55	874.55	4.819	SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,070.19	7,848.00	1,101.31	873.45	4.833	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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 CRANDELL E UNIT 2 - OWB - Design #1	18,840.89	7,845.00	1,180.63	891.18	4.079	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,900.00	7,845.00	1,182.11	889.47	4.040	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,000.00	7,845.00	1,191.31	893.99	4.007	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,300.00	7,848.00	931.26	679.40	3.697	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,400.00	7,848.00	924.47	674.95	3.705	ES
SI VERT SEARS 22-26 - OWB - Design #1	16,413.07	7,848.00	924.37	675.22	3.710	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,532.69	5,425.00	2,833.96	2,680.56	18.474	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,600.00	5,425.00	2,834.76	2,679.83	18.296	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,800.00	5,425.00	3,104.42	2,918.92	16.735	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,215.06	5,450.00	2,391.30	2,300.65	26.381	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,300.00	5,450.00	2,392.81	2,300.61	25.952	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	16,800.00	5,450.00	2,868.86	2,720.84	19.381	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,537.41	5,450.00	2,392.64	2,291.73	23.711	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,600.00	5,450.00	2,393.46	2,291.45	23.462	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	18,100.00	5,450.00	2,857.69	2,702.50	18.414	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,210.34	5,400.00	2,833.00	2,693.57	20.319	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,300.00	5,400.00	2,834.42	2,693.09	20.055	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	16,600.00	5,400.00	3,155.48	2,980.72	18.056	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 Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Distance Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	31.82	232.42	144.20	273.93				
100.00	100.00	85.00	85.00	0.13	0.68	31.82	232.42	144.20	273.52	272.71	0.81	337.910	
200.00	200.00	185.00	185.00	0.49	2.28	31.82	232.42	144.20	273.52	270.75	2.77	98.723	
300.00	300.00	285.00	285.00	0.85	4.02	31.82	232.42	144.20	273.52	268.64	4.87	56.113	
400.00	400.00	385.00	385.00	1.21	5.77	31.82	232.42	144.20	273.52	266.54	6.98	39.196	
500.00	500.00	485.00	485.00	1.57	7.51	31.82	232.42	144.20	273.52	264.43	9.08	30.116	
600.00	600.00	585.00	585.00	1.93	9.26	31.82	232.42	144.20	273.52	262.33	11.19	24.452	
700.00	699.98	684.98	684.98	2.28	11.00	-32.21	232.42	144.20	272.04	258.75	13.29	20.477	
800.00	799.84	784.84	784.84	2.64	12.75	-32.86	232.42	144.20	267.62	252.24	15.38	17.398	
900.00	899.45	884.45	884.45	3.00	14.49	-33.98	232.42	144.20	260.34	242.86	17.48	14.893	
1,000.00	998.70	983.70	983.70	3.37	16.22	-35.65	232.42	144.20	250.31	230.73	19.58	12.784	
1,100.00	1,097.47	1,082.47	1,082.47	3.76	17.94	-38.00	232.42	144.20	237.73	216.05	21.68	10.966	
1,200.00	1,195.62	1,180.62	1,180.62	4.18	19.65	-41.19	232.42	144.20	222.91	199.13	23.78	9.372	
1,300.00	1,293.06	1,278.06	1,278.06	4.63	21.36	-45.49	232.42	144.20	206.34	180.44	25.90	7.966	
1,400.00	1,389.64	1,374.64	1,374.64	5.11	23.04	-51.26	232.42	144.20	188.80	160.75	28.05	6.732	
1,500.00	1,485.27	1,470.27	1,470.27	5.63	24.71	-58.96	232.42	144.20	171.54	141.30	30.24	5.673	
1,600.00	1,579.82	1,564.82	1,564.82	6.20	26.36	-69.01	232.42	144.20	156.57	124.07	32.49	4.818	
1,700.00	1,673.17	1,658.17	1,658.17	6.83	27.99	-81.51	232.42	144.20	146.82	112.02	34.80	4.218	
1,760.73	1,729.23	1,714.23	1,714.23	7.24	28.97	-90.00	232.42	144.20	144.95	108.75	36.21	4.004	CC
1,800.00	1,765.21	1,750.21	1,750.21	7.51	29.60	-95.66	232.42	144.20	145.80	108.72	37.08	3.932	ES, SF
1,900.00	1,855.84	1,840.84	1,840.84	8.24	31.18	-109.78	232.42	144.20	156.12	116.93	39.20	3.983	
2,000.00	1,944.94	1,929.94	1,929.94	9.05	32.73	-122.20	232.42	144.20	178.04	136.93	41.12	4.330	
2,100.00	2,032.39	2,017.39	2,017.39	9.91	34.26	-132.22	232.42	144.20	209.94	167.02	42.92	4.892	
2,200.00	2,118.11	2,103.11	2,103.11	10.85	35.75	-139.95	232.42	144.20	249.74	205.07	44.67	5.591	
2,300.00	2,201.97	2,186.97	2,186.97	11.85	37.22	-145.86	232.42	144.20	295.78	249.38	46.39	6.375	
2,400.00	2,283.88	2,268.88	2,268.88	12.93	38.65	-150.38	232.42	144.20	346.91	298.81	48.11	7.211	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
2,429.47	2,307.63	2,307.37	2,292.63	13.26	39.32	-151.51	232.42	144.20	362.84	313.97	48.87	7.424		
2,500.00	2,364.26	2,349.26	2,349.26	14.06	40.05	-154.27	232.42	144.20	401.73	351.91	49.82	8.064		
2,600.00	2,444.56	2,429.56	2,429.56	15.22	41.45	-157.43	232.42	144.20	457.83	406.29	51.54	8.883		
2,700.00	2,524.85	2,509.85	2,509.85	16.39	42.85	-159.92	232.42	144.20	514.71	461.44	53.27	9.662		
2,800.00	2,605.14	2,609.86	2,590.14	17.57	44.60	-161.94	232.42	144.20	572.16	516.79	55.37	10.333		
2,900.00	2,685.43	2,670.43	2,670.43	18.76	45.66	-163.59	232.42	144.20	630.00	573.21	56.79	11.094		
3,000.00	2,765.73	2,750.73	2,750.73	19.96	47.06	-164.98	232.42	144.20	688.14	629.58	58.56	11.751		
3,100.00	2,846.02	2,831.02	2,831.02	21.16	48.46	-166.15	232.42	144.20	746.52	686.18	60.34	12.372		
3,200.00	2,926.31	2,911.31	2,911.31	22.37	49.86	-167.16	232.42	144.20	805.08	742.95	62.13	12.959		
3,300.00	3,006.60	3,008.40	2,991.60	23.59	51.56	-168.03	232.42	144.20	863.78	799.56	64.21	13.452		
3,400.00	3,086.90	3,071.90	3,071.90	24.81	52.66	-168.79	232.42	144.20	922.59	856.88	65.72	14.039		
3,500.00	3,167.19	3,152.19	3,152.19	26.03	54.06	-169.46	232.42	144.20	981.51	913.99	67.52	14.537		
3,600.00	3,247.48	3,232.48	3,232.48	27.25	55.47	-170.06	232.42	144.20	1,040.50	971.17	69.33	15.009		
3,700.00	3,327.77	3,312.77	3,312.77	28.48	56.87	-170.60	232.42	144.20	1,099.56	1,028.42	71.14	15.457		
3,800.00	3,408.07	3,406.93	3,393.07	29.71	58.51	-171.07	232.42	144.20	1,158.67	1,085.48	73.19	15.831		
3,900.00	3,488.36	3,473.36	3,473.36	30.94	59.67	-171.51	232.42	144.20	1,217.83	1,143.07	74.76	16.289		
4,000.00	3,568.65	3,553.65	3,553.65	32.17	61.07	-171.90	232.42	144.20	1,277.04	1,200.45	76.58	16.675		
4,100.00	3,648.95	3,633.95	3,633.95	33.41	62.47	-172.26	232.42	144.20	1,336.28	1,257.87	78.40	17.044		
4,200.00	3,729.24	3,714.24	3,714.24	34.64	63.87	-172.59	232.42	144.20	1,395.55	1,315.32	80.23	17.395		
4,300.00	3,809.53	3,805.47	3,794.53	35.88	65.47	-172.89	232.42	144.20	1,454.85	1,372.60	82.24	17.690		
4,400.00	3,889.82	3,874.82	3,874.82	37.12	66.68	-173.17	232.42	144.20	1,514.17	1,430.29	83.88	18.052		
4,500.00	3,970.12	3,955.12	3,955.12	38.36	68.08	-173.43	232.42	144.20	1,573.51	1,487.81	85.71	18.359		
4,600.00	4,050.41	4,035.41	4,035.41	39.60	69.48	-173.67	232.42	144.20	1,632.88	1,545.34	87.54	18.654		
4,700.00	4,130.70	4,115.70	4,115.70	40.84	70.88	-173.89	232.42	144.20	1,692.26	1,602.89	89.37	18.936		
4,800.00	4,210.99	4,204.01	4,195.99	42.08	72.42	-174.10	232.42	144.20	1,751.65	1,660.31	91.34	19.177		
4,900.00	4,291.29	4,276.29	4,276.29	43.32	73.68	-174.29	232.42	144.20	1,811.06	1,718.03	93.03	19.467		
5,000.00	4,371.58	4,356.58	4,356.58	44.57	75.09	-174.47	232.42	144.20	1,870.49	1,775.62	94.87	19.716		
5,100.00	4,451.87	4,436.87	4,436.87	45.81	76.49	-174.64	232.42	144.20	1,929.92	1,833.21	96.71	19.956		
5,200.00	4,532.16	4,517.16	4,517.16	47.05	77.89	-174.80	232.42	144.20	1,989.36	1,890.82	98.54	20.188		
5,300.00	4,612.46	4,597.46	4,597.46	48.30	79.29	-174.97	232.42	144.20	2,049.30	1,949.94	99.36	20.625		
5,400.00	4,692.75	4,677.75	4,677.75	49.54	80.69	-175.14	232.42	144.20	2,109.74	2,009.38	100.18	21.062		
5,500.00	4,773.04	4,758.04	4,758.04	50.79	82.09	-175.31	232.42	144.20	2,170.18	2,069.82	101.00	21.499		
5,600.00	4,853.34	4,838.34	4,838.34	52.03	83.49	-175.48	232.42	144.20	2,230.62	2,129.26	101.82	21.936		
5,700.00	4,933.63	4,918.63	4,918.63	53.28	84.89	-175.65	232.42	144.20	2,291.06	2,189.70	102.64	22.373		
5,800.00	5,013.92	4,998.92	4,998.92	54.53	86.29	-175.82	232.42	144.20	2,351.50	2,249.14	103.46	22.810		
5,900.00	5,094.21	5,079.21	5,079.21	55.77	87.69	-175.99	232.42	144.20	2,411.94	2,309.58	104.28	23.247		
6,000.00	5,174.51	5,159.51	5,159.51	57.02	89.09	-176.16	232.42	144.20	2,472.38	2,369.02	105.10	23.684		
6,100.00	5,254.80	5,239.80	5,239.80	58.27	90.49	-176.33	232.42	144.20	2,532.82	2,428.46	105.92	24.121		
6,200.00	5,335.09	5,320.09	5,320.09	59.52	91.89	-176.50	232.42	144.20	2,593.26	2,487.90	106.74	24.558		
6,300.00	5,415.38	5,400.38	5,400.38	60.76	93.29	-176.67	232.42	144.20	2,653.70	2,547.34	107.56	24.995		
6,400.00	5,495.68	5,480.68	5,480.68	62.01	94.69	-176.84	232.42	144.20	2,714.14	2,606.78	108.38	25.432		
6,500.00	5,575.97	5,560.97	5,560.97	63.26	96.09	-177.01	232.42	144.20	2,774.58	2,666.22	109.20	25.869		
6,600.00	5,656.26	5,641.26	5,641.26	64.51	97.49	-177.18	232.42	144.20	2,835.02	2,725.66	110.02	26.306		
6,700.00	5,736.55	5,721.55	5,721.55	65.76	98.89	-177.35	232.42	144.20	2,895.46	2,785.10	110.84	26.743		
6,800.00	5,816.85	5,801.85	5,801.85	67.01	100.29	-177.52	232.42	144.20	2,955.90	2,844.54	111.66	27.180		
6,900.00	5,897.14	5,882.14	5,882.14	68.26	101.69	-177.69	232.42	144.20	3,016.34	2,903.98	112.48	27.617		
7,000.00	5,977.43	5,962.43	5,962.43	69.50	103.09	-177.86	232.42	144.20	3,076.78	2,963.42	113.30	28.054		
7,100.00	6,057.72	6,042.72	6,042.72	70.75	104.49	-178.03	232.42	144.20	3,137.22	3,022.86	114.12	28.491		
7,200.00	6,138.02	6,123.02	6,123.02	72.00	105.89	-178.20	232.42	144.20	3,197.66	3,082.30	114.94	28.928		
7,300.00	6,218.31	6,203.31	6,203.31	73.25	107.29	-178.37	232.42	144.20	3,258.10	3,141.74	115.76	29.365		
7,400.00	6,298.60	6,283.60	6,283.60	74.50	108.69	-178.54	232.42	144.20	3,318.54	3,201.18	116.58	29.802		
7,500.00	6,378.90	6,363.90	6,363.90	75.75	110.09	-178.71	232.42	144.20	3,378.98	3,260.62	117.40	30.239		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
7,600.00	6,459.19	4,553.00	4,553.00	77.00	78.51	-174.87	232.42	144.20	3,906.09	3,816.81	89.28	43.751		
7,700.00	6,539.48	4,553.00	4,553.00	78.25	78.51	-174.87	232.42	144.20	3,997.29	3,908.36	88.92	44.952		
7,800.00	6,619.77	4,553.00	4,553.00	79.50	78.51	-174.87	232.42	144.20	4,088.90	4,000.31	88.59	46.158		
7,900.00	6,700.07	4,553.00	4,553.00	80.75	78.51	-174.87	232.42	144.20	4,180.89	4,092.63	88.26	47.368		
8,000.00	6,780.36	4,553.00	4,553.00	82.00	78.51	-174.87	232.42	144.20	4,273.25	4,185.29	87.96	48.583		
8,100.00	6,860.65	4,553.00	4,553.00	83.25	78.51	-174.87	232.42	144.20	4,365.94	4,278.27	87.67	49.801		
8,200.00	6,940.94	4,553.00	4,553.00	84.50	78.51	-174.87	232.42	144.20	4,458.95	4,371.55	87.39	51.021		
8,300.00	7,021.24	4,553.00	4,553.00	85.76	78.51	-174.87	232.42	144.20	4,552.25	4,465.11	87.14	52.242		
8,400.00	7,101.53	4,553.00	4,553.00	87.01	78.51	-174.87	232.42	144.20	4,645.83	4,558.94	86.89	53.465		
8,500.00	7,181.82	4,553.00	4,553.00	88.26	78.51	-174.87	232.42	144.20	4,739.68	4,653.01	86.67	54.689		
8,605.60	7,266.61	4,553.00	4,553.00	89.58	78.51	-174.87	232.42	144.20	4,839.04	4,752.60	86.44	55.980		
8,650.00	7,302.60	4,553.00	4,553.00	90.13	78.51	168.18	232.42	144.20	4,880.70	4,794.35	86.34	56.526		
8,700.00	7,343.78	4,553.00	4,553.00	90.72	78.51	150.85	232.42	144.20	4,926.97	4,840.75	86.22	57.144		
8,750.00	7,385.32	4,553.00	4,553.00	91.28	78.51	135.48	232.42	144.20	4,972.25	4,886.17	86.08	57.763		
8,800.00	7,426.92	4,553.00	4,553.00	91.81	78.51	121.92	232.42	144.20	5,016.22	4,930.30	85.93	58.379		
8,850.00	7,468.27	4,553.00	4,553.00	92.29	78.51	110.01	232.42	144.20	5,058.60	4,972.84	85.75	58.990		
8,900.00	7,509.04	4,553.00	4,553.00	92.72	78.51	99.65	232.42	144.20	5,099.09	5,013.53	85.57	59.593		
8,950.00	7,548.93	4,553.00	4,553.00	93.10	78.51	90.73	232.42	144.20	5,137.45	5,052.09	85.36	60.184		
9,000.00	7,587.63	4,553.00	4,553.00	93.43	78.51	83.13	232.42	144.20	5,173.42	5,088.28	85.15	60.759		
9,050.00	7,624.85	4,553.00	4,553.00	93.71	78.51	76.69	232.42	144.20	5,206.80	5,121.88	84.92	61.315		
9,100.00	7,660.30	4,553.00	4,553.00	93.93	78.51	71.28	232.42	144.20	5,237.37	5,152.68	84.68	61.846		
9,150.00	7,693.72	4,553.00	4,553.00	94.10	78.51	66.75	232.42	144.20	5,264.95	5,180.51	84.44	62.348		
9,200.00	7,724.85	4,553.00	4,553.00	94.23	78.51	62.98	232.42	144.20	5,289.39	5,205.18	84.20	62.817		
9,250.00	7,753.45	4,553.00	4,553.00	94.30	78.51	59.87	232.42	144.20	5,310.53	5,226.57	83.97	63.245		
9,300.00	7,779.31	4,553.00	4,553.00	94.34	78.51	57.32	232.42	144.20	5,328.27	5,244.53	83.74	63.629		
9,350.00	7,802.23	4,553.00	4,553.00	94.33	78.51	55.26	232.42	144.20	5,342.50	5,258.97	83.53	63.961		
9,400.00	7,822.03	4,553.00	4,553.00	94.28	78.51	53.63	232.42	144.20	5,353.13	5,269.80	83.33	64.237		
9,450.00	7,838.57	4,553.00	4,553.00	94.20	78.51	52.39	232.42	144.20	5,360.12	5,276.95	83.17	64.451		
9,500.00	7,851.72	4,553.00	4,553.00	94.10	78.51	51.51	232.42	144.20	5,363.41	5,280.39	83.03	64.599		
9,550.00	7,861.37	4,553.00	4,553.00	93.96	78.51	50.97	232.42	144.20	5,363.00	5,280.08	82.92	64.676		
9,600.00	7,867.46	4,553.00	4,553.00	93.81	78.51	50.75	232.42	144.20	5,358.89	5,276.04	82.85	64.679		
9,650.00	7,869.94	4,553.00	4,553.00	93.64	78.51	50.84	232.42	144.20	5,351.09	5,268.27	82.83	64.606		
9,659.14	7,870.00	4,553.00	4,553.00	93.60	78.51	50.89	232.42	144.20	5,349.27	5,266.45	82.83	64.583		
9,700.00	7,870.00	4,553.00	4,553.00	93.46	78.51	50.89	232.42	144.20	5,341.02	5,258.18	82.84	64.478		
9,800.00	7,870.00	4,553.00	4,553.00	93.11	78.51	50.89	232.42	144.20	5,322.07	5,239.14	82.93	64.173		
9,900.00	7,870.00	4,553.00	4,553.00	92.77	78.51	50.89	232.42	144.20	5,304.95	5,221.81	83.14	63.806		
10,000.00	7,870.00	4,553.00	4,553.00	92.46	78.51	50.89	232.42	144.20	5,289.66	5,206.20	83.46	63.381		
10,100.00	7,870.00	4,553.00	4,553.00	92.16	78.51	50.89	232.42	144.20	5,276.22	5,192.35	83.88	62.904		
10,200.00	7,870.00	4,553.00	4,553.00	91.87	78.51	50.89	232.42	144.20	5,264.65	5,180.26	84.39	62.381		
10,300.00	7,870.00	4,553.00	4,553.00	91.60	78.51	50.89	232.42	144.20	5,254.96	5,169.95	85.00	61.820		
10,400.00	7,870.00	4,553.00	4,553.00	91.34	78.51	50.89	232.42	144.20	5,247.15	5,161.45	85.70	61.228		
10,500.00	7,870.00	4,553.00	4,553.00	91.11	78.51	50.89	232.42	144.20	5,241.24	5,154.77	86.47	60.613		
10,600.00	7,870.00	4,553.00	4,553.00	90.88	78.51	50.89	232.42	144.20	5,237.24	5,149.92	87.31	59.982		
10,700.00	7,870.00	4,553.00	4,553.00	90.67	78.51	50.89	232.42	144.20	5,235.14	5,146.92	88.22	59.341		
10,759.88	7,870.00	4,553.00	4,553.00	90.56	78.51	50.89	232.42	144.20	5,234.80	5,146.00	88.80	58.950		
10,800.00	7,870.00	4,553.00	4,553.00	90.48	78.51	50.89	232.42	144.20	5,234.95	5,145.76	89.19	58.697		
10,900.00	7,870.00	4,553.00	4,553.00	90.31	78.51	50.89	232.42	144.20	5,236.67	5,146.47	90.20	58.056		
11,000.00	7,870.00	4,553.00	4,553.00	90.15	78.51	50.89	232.42	144.20	5,240.30	5,149.04	91.26	57.421		
11,100.00	7,870.00	4,553.00	4,553.00	90.00	78.51	50.89	232.42	144.20	5,245.83	5,153.47	92.36	56.797		
11,200.00	7,870.00	4,553.00	4,553.00	89.88	78.51	50.89	232.42	144.20	5,253.27	5,159.77	93.49	56.188		
11,300.00	7,870.00	4,553.00	4,553.00	89.77	78.51	50.89	232.42	144.20	5,262.59	5,167.93	94.66	55.596		
11,400.00	7,870.00	4,553.00	4,553.00	89.68	78.51	50.89	232.42	144.20	5,273.79	5,177.94	95.84	55.025		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
11,500.00	7,870.00	4,553.00	4,553.00	89.60	78.51	50.89	232.42	144.20	5,286.86	5,189.81	97.05	54.475		
11,600.00	7,870.00	4,553.00	4,553.00	89.55	78.51	50.89	232.42	144.20	5,301.78	5,203.51	98.28	53.948		
11,700.00	7,870.00	4,553.00	4,553.00	89.52	78.51	50.89	232.42	144.20	5,318.54	5,219.03	99.51	53.447		
11,800.00	7,870.00	4,553.00	4,553.00	89.50	78.51	50.89	232.42	144.20	5,337.13	5,236.37	100.76	52.971		
11,900.00	7,870.00	4,553.00	4,553.00	89.51	78.51	50.89	232.42	144.20	5,357.51	5,255.51	102.01	52.521		
12,000.00	7,870.00	4,553.00	4,553.00	89.54	78.51	50.89	232.42	144.20	5,379.68	5,276.42	103.26	52.098		
12,100.00	7,870.00	4,553.00	4,553.00	89.59	78.51	50.89	232.42	144.20	5,403.61	5,299.10	104.51	51.702		
12,200.00	7,870.00	4,553.00	4,553.00	89.66	78.51	50.89	232.42	144.20	5,429.28	5,323.51	105.77	51.333		
12,300.00	7,870.00	4,553.00	4,553.00	89.77	78.51	50.89	232.42	144.20	5,456.65	5,349.64	107.01	50.991		
12,400.00	7,870.00	4,553.00	4,553.00	89.89	78.51	50.89	232.42	144.20	5,485.72	5,377.47	108.25	50.676		
12,500.00	7,870.00	4,553.00	4,553.00	90.05	78.51	50.89	232.42	144.20	5,516.44	5,406.96	109.48	50.387		
12,600.00	7,870.00	4,553.00	4,553.00	90.24	78.51	50.89	232.42	144.20	5,548.79	5,438.09	110.70	50.124		
12,700.00	7,870.00	4,553.00	4,553.00	90.46	78.51	50.89	232.42	144.20	5,582.75	5,470.85	111.91	49.887		
12,800.00	7,870.00	4,553.00	4,553.00	90.71	78.51	50.89	232.42	144.20	5,618.29	5,505.19	113.10	49.675		
12,900.00	7,870.00	4,553.00	4,553.00	90.99	78.51	50.89	232.42	144.20	5,655.37	5,541.09	114.28	49.488		
13,000.00	7,870.00	4,553.00	4,553.00	91.32	78.51	50.89	232.42	144.20	5,693.96	5,578.52	115.44	49.324		
13,100.00	7,870.00	4,553.00	4,553.00	91.68	78.51	50.89	232.42	144.20	5,734.04	5,617.46	116.58	49.184		
13,200.00	7,870.00	4,553.00	4,553.00	92.08	78.51	50.89	232.42	144.20	5,775.57	5,657.87	117.71	49.067		
13,300.00	7,870.00	4,553.00	4,553.00	92.52	78.51	50.89	232.42	144.20	5,818.53	5,699.72	118.81	48.972		
13,400.00	7,870.00	4,553.00	4,553.00	93.00	78.51	50.89	232.42	144.20	5,862.88	5,742.98	119.90	48.899		
13,500.00	7,870.00	4,553.00	4,553.00	93.53	78.51	50.89	232.42	144.20	5,908.58	5,787.62	120.96	48.846		
13,600.00	7,870.00	4,553.00	4,553.00	94.10	78.51	50.89	232.42	144.20	5,955.62	5,833.61	122.01	48.814		
13,700.00	7,870.00	4,553.00	4,553.00	94.72	78.51	50.89	232.42	144.20	6,003.95	5,880.92	123.03	48.801		
13,800.00	7,870.00	4,553.00	4,553.00	95.38	78.51	50.89	232.42	144.20	6,053.54	5,929.52	124.03	48.807		
13,900.00	7,870.00	4,553.00	4,553.00	96.09	78.51	50.89	232.42	144.20	6,104.38	5,979.37	125.01	48.832		
14,000.00	7,870.00	4,553.00	4,553.00	96.84	78.51	50.89	232.42	144.20	6,156.42	6,030.45	125.96	48.874		
14,100.00	7,870.00	4,553.00	4,553.00	97.64	78.51	50.89	232.42	144.20	6,209.63	6,082.73	126.90	48.934		
14,200.00	7,870.00	4,553.00	4,553.00	98.48	78.51	50.89	232.42	144.20	6,263.98	6,136.17	127.81	49.010		
14,300.00	7,870.00	4,553.00	4,553.00	99.37	78.51	50.89	232.42	144.20	6,319.46	6,190.76	128.70	49.102		
14,400.00	7,870.00	4,553.00	4,553.00	100.30	78.51	50.89	232.42	144.20	6,376.01	6,246.45	129.57	49.210		
14,500.00	7,870.00	4,553.00	4,553.00	101.26	78.51	50.89	232.42	144.20	6,433.63	6,303.21	130.41	49.332		
14,600.00	7,870.00	4,553.00	4,553.00	102.27	78.51	50.89	232.42	144.20	6,492.27	6,361.03	131.24	49.469		
14,700.00	7,870.00	4,553.00	4,553.00	103.31	78.51	50.89	232.42	144.20	6,551.92	6,419.88	132.04	49.620		
14,800.00	7,870.00	4,553.00	4,553.00	104.38	78.51	50.89	232.42	144.20	6,612.54	6,479.71	132.82	49.785		
14,900.00	7,870.00	4,553.00	4,553.00	105.49	78.51	50.89	232.42	144.20	6,674.10	6,540.52	133.58	49.962		
15,000.00	7,870.00	4,553.00	4,553.00	106.63	78.51	50.89	232.42	144.20	6,736.59	6,602.27	134.32	50.152		
15,100.00	7,870.00	4,553.00	4,553.00	107.80	78.51	50.89	232.42	144.20	6,799.98	6,664.93	135.04	50.354		
15,200.00	7,870.00	4,553.00	4,553.00	109.00	78.51	50.89	232.42	144.20	6,864.24	6,728.49	135.74	50.567		
15,300.00	7,870.00	4,553.00	4,553.00	110.22	78.51	50.89	232.42	144.20	6,929.34	6,792.91	136.43	50.792		
15,400.00	7,870.00	4,553.00	4,553.00	111.47	78.51	50.89	232.42	144.20	6,995.27	6,858.18	137.09	51.027		
15,500.00	7,870.00	4,553.00	4,553.00	112.74	78.51	50.89	232.42	144.20	7,062.00	6,924.26	137.73	51.273		
15,600.00	7,870.00	4,553.00	4,553.00	114.03	78.51	50.89	232.42	144.20	7,129.50	6,991.15	138.36	51.529		
15,700.00	7,870.00	4,553.00	4,553.00	115.34	78.51	50.89	232.42	144.20	7,197.77	7,058.80	138.97	51.795		
15,800.00	7,870.00	4,553.00	4,553.00	116.68	78.51	50.89	232.42	144.20	7,266.76	7,127.21	139.56	52.070		
15,900.00	7,870.00	4,553.00	4,553.00	118.02	78.51	50.89	232.42	144.20	7,336.48	7,196.35	140.13	52.354		
16,000.00	7,870.00	4,553.00	4,553.00	119.39	78.51	50.89	232.42	144.20	7,406.88	7,266.19	140.69	52.647		
16,100.00	7,870.00	4,553.00	4,553.00	120.77	78.51	50.89	232.42	144.20	7,477.96	7,336.73	141.23	52.948		
16,200.00	7,870.00	4,553.00	4,553.00	122.17	78.51	50.89	232.42	144.20	7,549.70	7,407.94	141.76	53.258		
16,300.00	7,870.00	4,553.00	4,553.00	123.58	78.51	50.89	232.42	144.20	7,622.07	7,479.80	142.27	53.575		
16,400.00	7,870.00	4,553.00	4,553.00	125.00	78.51	50.89	232.42	144.20	7,695.06	7,552.30	142.77	53.900		
16,500.00	7,870.00	4,553.00	4,553.00	126.43	78.51	50.89	232.42	144.20	7,768.66	7,625.41	143.25	54.232		
16,600.00	7,870.00	4,553.00	4,553.00	127.88	78.51	50.89	232.42	144.20	7,842.83	7,699.12	143.72	54.571		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
16,700.00	7,870.00	4,553.00	4,553.00	129.34	78.51	50.89	232.42	144.20	7,917.58	7,773.41	144.17	54.917		
16,800.00	7,870.00	4,553.00	4,553.00	130.81	78.51	50.89	232.42	144.20	7,992.88	7,848.26	144.62	55.269		
16,900.00	7,870.00	4,553.00	4,553.00	132.28	78.51	50.89	232.42	144.20	8,068.71	7,923.67	145.05	55.628		
17,000.00	7,870.00	4,553.00	4,553.00	133.77	78.51	50.89	232.42	144.20	8,145.07	7,999.60	145.47	55.993		
17,100.00	7,870.00	4,553.00	4,553.00	135.27	78.51	50.89	232.42	144.20	8,221.93	8,076.06	145.87	56.364		
17,200.00	7,870.00	4,553.00	4,553.00	136.77	78.51	50.89	232.42	144.20	8,299.29	8,153.02	146.27	56.741		
17,300.00	7,870.00	4,553.00	4,553.00	138.28	78.51	50.89	232.42	144.20	8,377.12	8,230.47	146.65	57.123		
17,400.00	7,870.00	4,553.00	4,553.00	139.80	78.51	50.89	232.42	144.20	8,455.43	8,308.40	147.02	57.511		
17,500.00	7,870.00	4,553.00	4,553.00	141.33	78.51	50.89	232.42	144.20	8,534.18	8,386.80	147.39	57.903		
17,600.00	7,870.00	4,553.00	4,553.00	142.86	78.51	50.89	232.42	144.20	8,613.38	8,465.64	147.74	58.301		
17,700.00	7,870.00	4,553.00	4,553.00	144.40	78.51	50.89	232.42	144.20	8,693.00	8,544.92	148.08	58.704		
17,800.00	7,870.00	4,553.00	4,553.00	145.95	78.51	50.89	232.42	144.20	8,773.05	8,624.63	148.42	59.111		
17,900.00	7,870.00	4,553.00	4,553.00	147.50	78.51	50.89	232.42	144.20	8,853.49	8,704.75	148.74	59.523		
18,000.00	7,870.00	4,553.00	4,553.00	149.06	78.51	50.89	232.42	144.20	8,934.34	8,785.28	149.06	59.939		
18,100.00	7,870.00	4,553.00	4,553.00	150.63	78.51	50.89	232.42	144.20	9,015.56	8,866.20	149.37	60.359		
18,200.00	7,870.00	4,553.00	4,553.00	152.20	78.51	50.89	232.42	144.20	9,097.17	8,947.50	149.66	60.784		
18,300.00	7,870.00	4,553.00	4,553.00	153.77	78.51	50.89	232.42	144.20	9,179.13	9,029.18	149.96	61.212		
18,400.00	7,870.00	4,553.00	4,553.00	155.35	78.51	50.89	232.42	144.20	9,261.45	9,111.21	150.24	61.644		
18,500.00	7,870.00	4,553.00	4,553.00	156.93	78.51	50.89	232.42	144.20	9,344.12	9,193.60	150.52	62.080		
18,600.00	7,870.00	4,553.00	4,553.00	158.52	78.51	50.89	232.42	144.20	9,427.12	9,276.33	150.79	62.520		
18,700.00	7,870.00	4,553.00	4,553.00	160.11	78.51	50.89	232.42	144.20	9,510.44	9,359.40	151.05	62.963		
18,800.00	7,870.00	4,553.00	4,553.00	161.71	78.51	50.89	232.42	144.20	9,594.09	9,442.79	151.30	63.409		
18,900.00	7,870.00	4,553.00	4,553.00	163.31	78.51	50.89	232.42	144.20	9,678.05	9,526.49	151.55	63.859		
19,000.00	7,870.00	4,553.00	4,553.00	164.91	78.51	50.89	232.42	144.20	9,762.31	9,610.51	151.80	64.312		
19,100.00	7,870.00	4,553.00	4,553.00	166.52	78.51	50.89	232.42	144.20	9,846.86	9,694.83	152.03	64.768		
19,200.00	7,870.00	4,553.00	4,553.00	168.13	78.51	50.89	232.42	144.20	9,931.70	9,779.43	152.26	65.226		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	-12.92	257.55	-59.08	264.61				
100.00	100.00	86.00	86.00	0.13	0.67	-12.92	257.55	-59.08	264.24	263.44	0.80	329.328	
200.00	200.00	186.00	186.00	0.49	2.28	-12.92	257.55	-59.08	264.24	261.47	2.77	95.375	
300.00	300.00	286.00	286.00	0.85	4.02	-12.92	257.55	-59.08	264.24	259.37	4.87	54.211	
400.00	400.00	386.00	386.00	1.21	5.77	-12.92	257.55	-59.08	264.24	257.26	6.98	37.867	
500.00	500.00	486.00	486.00	1.57	7.51	-12.92	257.55	-59.08	264.24	255.16	9.08	29.095	
600.00	600.00	586.00	586.00	1.93	9.26	-12.92	257.55	-59.08	264.24	253.06	11.19	23.623	
700.00	699.98	685.98	685.98	2.28	11.00	-77.12	257.55	-59.08	263.85	250.56	13.28	19.861	
800.00	799.84	785.84	785.84	2.64	12.75	-78.25	257.55	-59.08	262.73	247.35	15.38	17.081	
900.00	899.45	885.45	885.45	3.00	14.49	-80.15	257.55	-59.08	261.09	243.61	17.48	14.935	
1,000.00	998.70	984.70	984.70	3.37	16.22	-82.82	257.55	-59.08	259.27	239.68	19.59	13.236	
1,100.00	1,097.47	1,083.47	1,083.47	3.76	17.94	-86.26	257.55	-59.08	257.76	236.06	21.70	11.876	
1,190.34	1,186.17	1,172.17	1,172.17	4.14	19.49	-90.00	257.55	-59.08	257.20	233.57	23.63	10.885 CC	
1,200.00	1,195.62	1,181.62	1,181.62	4.18	19.65	-90.43	257.55	-59.08	257.20	233.37	23.83	10.792	
1,300.00	1,293.06	1,279.06	1,279.06	4.63	21.36	-95.28	257.55	-59.08	258.36	232.38	25.98	9.946 ES	
1,400.00	1,389.64	1,375.64	1,375.64	5.11	23.04	-100.66	257.55	-59.08	262.08	233.95	28.13	9.317	
1,500.00	1,485.27	1,471.27	1,471.27	5.63	24.71	-106.40	257.55	-59.08	269.23	238.94	30.29	8.888	
1,600.00	1,579.82	1,565.82	1,565.82	6.20	26.36	-112.28	257.55	-59.08	280.59	248.14	32.44	8.649	
1,700.00	1,673.17	1,659.17	1,659.17	6.83	27.99	-118.08	257.55	-59.08	296.73	262.16	34.58	8.582 SF	
1,800.00	1,765.21	1,751.21	1,751.21	7.51	29.60	-123.60	257.55	-59.08	318.03	281.36	36.67	8.672	
1,900.00	1,855.84	1,841.84	1,841.84	8.24	31.18	-128.71	257.55	-59.08	344.59	305.86	38.73	8.897	
2,000.00	1,944.94	1,930.94	1,930.94	9.05	32.73	-133.32	257.55	-59.08	376.33	335.59	40.74	9.238	
2,100.00	2,032.39	2,018.39	2,018.39	9.91	34.26	-137.42	257.55	-59.08	413.05	370.35	42.70	9.673	
2,200.00	2,118.11	2,104.11	2,104.11	10.85	35.75	-141.01	257.55	-59.08	454.48	409.86	44.62	10.187	
2,300.00	2,201.97	2,187.97	2,187.97	11.85	37.22	-144.14	257.55	-59.08	500.33	453.84	46.49	10.763	
2,400.00	2,283.88	2,269.88	2,269.88	12.93	38.65	-146.84	257.55	-59.08	550.32	502.00	48.32	11.390	
2,429.47	2,307.63	2,306.37	2,293.63	13.26	39.29	-147.56	257.55	-59.08	565.80	516.73	49.07	11.530	
2,500.00	2,364.26	2,350.26	2,350.26	14.06	40.05	-149.60	257.55	-59.08	603.55	553.44	50.11	12.045	
2,600.00	2,444.56	2,430.56	2,430.56	15.22	41.45	-152.12	257.55	-59.08	657.96	606.07	51.89	12.680	
2,700.00	2,524.85	2,510.85	2,510.85	16.39	42.85	-154.29	257.55	-59.08	713.21	659.54	53.67	13.289	
2,800.00	2,605.14	2,608.86	2,591.14	17.57	44.56	-156.16	257.55	-59.08	769.10	713.35	55.76	13.793	
2,900.00	2,685.43	2,671.43	2,671.43	18.76	45.66	-157.79	257.55	-59.08	825.52	768.29	57.23	14.424	
3,000.00	2,765.73	2,751.73	2,751.73	19.96	47.06	-159.22	257.55	-59.08	882.36	823.34	59.02	14.951	
3,100.00	2,846.02	2,832.02	2,832.02	21.16	48.46	-160.48	257.55	-59.08	939.54	878.73	60.80	15.452	
3,200.00	2,926.31	2,912.31	2,912.31	22.37	49.86	-161.61	257.55	-59.08	997.00	934.41	62.59	15.928	
3,300.00	3,006.60	3,007.40	2,992.60	23.59	51.52	-162.61	257.55	-59.08	1,054.70	990.06	64.64	16.316	
3,400.00	3,086.90	3,072.90	3,072.90	24.81	52.66	-163.52	257.55	-59.08	1,112.61	1,046.43	66.18	16.812	
3,500.00	3,167.19	3,153.19	3,153.19	26.03	54.06	-164.33	257.55	-59.08	1,170.68	1,102.70	67.98	17.221	
3,600.00	3,247.48	3,233.48	3,233.48	27.25	55.47	-165.07	257.55	-59.08	1,228.90	1,159.12	69.78	17.611	
3,700.00	3,327.77	3,313.77	3,313.77	28.48	56.87	-165.75	257.55	-59.08	1,287.25	1,215.67	71.58	17.982	
3,800.00	3,408.07	3,405.93	3,394.07	29.71	58.48	-166.37	257.55	-59.08	1,345.71	1,272.11	73.60	18.285	
3,900.00	3,488.36	3,474.36	3,474.36	30.94	59.67	-166.94	257.55	-59.08	1,404.27	1,329.07	75.20	18.674	
4,000.00	3,568.65	3,554.65	3,554.65	32.17	61.07	-167.46	257.55	-59.08	1,462.91	1,385.90	77.01	18.996	
4,100.00	3,648.95	3,634.95	3,634.95	33.41	62.47	-167.94	257.55	-59.08	1,521.62	1,442.80	78.82	19.304	
4,200.00	3,729.24	3,715.24	3,715.24	34.64	63.87	-168.39	257.55	-59.08	1,580.40	1,499.76	80.64	19.599	
4,300.00	3,809.53	3,804.47	3,795.53	35.88	65.43	-168.81	257.55	-59.08	1,639.25	1,556.63	82.61	19.843	
4,400.00	3,889.82	3,875.82	3,875.82	37.12	66.68	-169.20	257.55	-59.08	1,698.14	1,613.87	84.27	20.150	
4,500.00	3,970.12	3,956.12	3,956.12	38.36	68.08	-169.56	257.55	-59.08	1,757.08	1,670.99	86.10	20.409	
4,600.00	4,050.41	4,036.41	4,036.41	39.60	69.48	-169.90	257.55	-59.08	1,816.07	1,728.15	87.92	20.656	
4,700.00	4,130.70	4,116.70	4,116.70	40.84	70.88	-170.22	257.55	-59.08	1,875.10	1,785.35	89.74	20.894	
4,800.00	4,210.99	4,203.01	4,196.99	42.08	72.39	-170.51	257.55	-59.08	1,934.16	1,842.49	91.67	21.099	
4,900.00	4,291.29	4,277.29	4,277.29	43.32	73.68	-170.79	257.55	-59.08	1,993.25	1,899.86	93.39	21.342	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,371.58	4,357.58	4,357.58	44.57	75.09	-171.06	257.55	-59.08	2,052.38	1,957.15	95.22	21.553		
5,100.00	4,451.87	4,437.87	4,437.87	45.81	76.49	-171.31	257.55	-59.08	2,111.53	2,014.47	97.05	21.757		
5,200.00	4,532.16	4,518.16	4,518.16	47.05	77.89	-171.55	257.55	-59.08	2,170.70	2,071.82	98.88	21.952		
5,300.00	4,612.46	4,601.54	4,598.46	48.30	79.34	-171.77	257.55	-59.08	2,229.90	2,129.13	100.77	22.129		
5,400.00	4,692.75	4,678.75	4,678.75	49.54	80.69	-171.98	257.55	-59.08	2,289.12	2,186.57	102.55	22.322		
5,500.00	4,773.04	4,759.04	4,759.04	50.79	82.09	-172.19	257.55	-59.08	2,348.36	2,243.98	104.38	22.498		
5,600.00	4,853.34	4,839.34	4,839.34	52.03	83.49	-172.38	257.55	-59.08	2,407.62	2,301.40	106.22	22.667		
5,700.00	4,933.63	4,919.63	4,919.63	53.28	84.90	-172.56	257.55	-59.08	2,466.90	2,358.84	108.05	22.830		
5,800.00	5,013.92	5,000.08	4,999.92	54.53	86.30	-172.74	257.55	-59.08	2,526.19	2,416.29	109.89	22.987		
5,900.00	5,094.21	5,080.21	5,080.21	55.77	87.70	-172.90	257.55	-59.08	2,585.49	2,473.76	111.73	23.140		
6,000.00	5,174.51	5,160.51	5,160.51	57.02	89.10	-173.06	257.55	-59.08	2,644.81	2,531.24	113.57	23.288		
6,100.00	5,254.80	5,240.80	5,240.80	58.27	90.50	-173.21	257.55	-59.08	2,704.14	2,588.73	115.41	23.431		
6,200.00	5,335.09	5,321.09	5,321.09	59.52	91.90	-173.36	257.55	-59.08	2,763.49	2,646.24	117.25	23.569		
6,300.00	5,415.38	5,401.38	5,401.38	60.76	93.30	-173.50	257.55	-59.08	2,822.84	2,703.75	119.09	23.703		
6,400.00	5,495.68	5,481.68	5,481.68	62.01	94.70	-173.63	257.55	-59.08	2,882.20	2,761.27	120.93	23.833		
6,500.00	5,575.97	5,561.97	5,561.97	63.26	96.11	-173.76	257.55	-59.08	2,941.58	2,818.80	122.78	23.959		
6,600.00	5,656.26	5,642.26	5,642.26	64.51	97.51	-173.88	257.55	-59.08	3,000.96	2,876.34	124.62	24.081		
6,700.00	5,736.55	5,722.55	5,722.55	65.76	98.91	-174.00	257.55	-59.08	3,060.36	2,933.89	126.47	24.199		
6,800.00	5,816.85	5,802.85	5,802.85	67.01	100.31	-174.12	257.55	-59.08	3,119.76	2,991.45	128.31	24.314		
6,900.00	5,897.14	5,883.14	5,883.14	68.26	101.71	-174.23	257.55	-59.08	3,179.17	3,049.01	130.16	24.425		
7,000.00	5,977.43	5,963.43	5,963.43	69.50	103.11	-174.33	257.55	-59.08	3,238.58	3,106.58	132.00	24.534		
7,100.00	6,057.72	6,043.72	6,043.72	70.75	104.51	-174.44	257.55	-59.08	3,298.01	3,164.15	133.85	24.639		
7,200.00	6,138.02	6,124.02	6,124.02	72.00	105.92	-174.53	257.55	-59.08	3,357.43	3,221.73	135.70	24.742		
7,300.00	6,218.31	6,204.31	6,204.31	73.25	107.32	-174.63	257.55	-59.08	3,416.87	3,279.32	137.55	24.841		
7,400.00	6,298.60	6,284.60	6,284.60	74.50	108.72	-174.72	257.55	-59.08	3,476.31	3,336.91	139.40	24.938		
7,500.00	6,378.90	6,364.90	6,364.90	75.75	110.12	-174.81	257.55	-59.08	3,535.76	3,394.51	141.25	25.032		
7,600.00	6,459.19	6,445.19	6,445.19	77.00	111.52	-174.90	257.55	-59.08	3,595.21	3,452.11	143.10	25.124		
7,700.00	6,539.48	6,525.48	6,525.48	78.25	112.92	-174.98	257.55	-59.08	3,654.67	3,509.72	144.95	25.213		
7,800.00	6,619.77	6,605.77	6,605.77	79.50	114.32	-175.06	257.55	-59.08	3,714.13	3,567.33	146.80	25.300		
7,900.00	6,700.07	6,686.07	6,686.07	80.75	115.73	-175.14	257.55	-59.08	3,773.60	3,624.94	148.65	25.385		
8,000.00	6,780.36	6,766.36	6,766.36	82.00	117.13	-175.21	257.55	-59.08	3,833.07	3,682.56	150.51	25.468		
8,100.00	6,860.65	6,846.65	6,846.65	83.25	118.53	-175.29	257.55	-59.08	3,892.55	3,740.19	152.36	25.548		
8,200.00	6,940.94	6,926.94	6,926.94	84.50	119.93	-175.36	257.55	-59.08	3,952.02	3,797.81	154.21	25.627		
8,300.00	7,021.24	7,007.24	7,007.24	85.76	121.33	-175.43	257.55	-59.08	4,011.51	3,855.44	156.07	25.704		
8,400.00	7,101.53	7,087.53	7,087.53	87.01	122.73	-175.49	257.55	-59.08	4,071.00	3,913.07	157.92	25.778		
8,500.00	7,181.82	7,167.82	7,167.82	88.26	124.13	-175.56	257.55	-59.08	4,130.49	3,970.71	159.78	25.851		
8,605.60	7,266.61	7,252.61	7,252.61	89.58	125.61	-175.62	257.55	-59.08	4,193.31	4,031.57	161.74	25.926		
8,650.00	7,302.60	7,288.60	7,288.60	90.13	126.24	-175.53	257.55	-59.08	4,219.29	4,056.72	162.57	25.954		
8,700.00	7,343.78	7,329.78	7,329.78	90.72	126.96	-175.46	257.55	-59.08	4,247.37	4,083.86	163.51	25.976		
8,750.00	7,385.32	7,371.32	7,371.32	91.28	127.69	-175.39	257.55	-59.08	4,274.00	4,109.55	164.45	25.990		
8,800.00	7,426.92	7,412.92	7,412.92	91.81	128.41	-175.32	257.55	-59.08	4,299.01	4,133.62	165.39	25.994		
8,850.00	7,468.27	7,454.27	7,454.27	92.29	129.13	-175.25	257.55	-59.08	4,322.24	4,155.93	166.31	25.990		
8,900.00	7,509.04	7,504.96	7,495.04	92.72	130.02	-175.18	257.55	-59.08	4,343.55	4,176.18	167.38	25.951		
8,950.00	7,548.93	7,534.93	7,534.93	93.10	130.54	-175.11	257.55	-59.08	4,362.84	4,194.76	168.08	25.958		
9,000.00	7,587.63	7,573.63	7,573.63	93.43	131.22	-175.04	257.55	-59.08	4,380.01	4,211.09	168.91	25.931		
9,050.00	7,624.85	7,610.85	7,610.85	93.71	131.87	-174.97	257.55	-59.08	4,394.99	4,225.27	169.71	25.897		
9,100.00	7,660.30	7,646.30	7,646.30	93.93	132.48	-174.90	257.55	-59.08	4,407.72	4,237.26	170.47	25.857		
9,150.00	7,693.72	7,679.72	7,679.72	94.10	133.07	-174.83	257.55	-59.08	4,418.19	4,247.02	171.18	25.811		
9,200.00	7,724.85	7,710.85	7,710.85	94.23	133.61	-174.76	257.55	-59.08	4,426.38	4,254.54	171.84	25.759		
9,250.00	7,753.45	7,739.45	7,739.45	94.30	134.11	-174.69	257.55	-59.08	4,432.27	4,259.83	172.45	25.702		
9,300.00	7,779.31	7,765.31	7,765.31	94.34	134.56	-174.62	257.55	-59.08	4,435.90	4,262.90	173.00	25.641		
9,350.00	7,802.23	7,788.23	7,788.23	94.33	134.96	-174.55	257.55	-59.08	4,437.29	4,263.79	173.50	25.575		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,808.03	7,808.03	94.28	135.31	89.15	257.55	-59.08	4,436.48	4,262.53	173.95	25.505		
9,450.00	7,838.57	7,824.57	7,824.57	94.20	135.60	88.56	257.55	-59.08	4,433.51	4,259.17	174.34	25.430		
9,500.00	7,851.72	7,837.72	7,837.72	94.10	135.83	88.35	257.55	-59.08	4,428.44	4,253.76	174.68	25.352		
9,550.00	7,861.37	7,847.37	7,847.37	93.96	135.99	88.50	257.55	-59.08	4,421.33	4,246.37	174.96	25.270		
9,600.00	7,867.46	7,853.46	7,853.46	93.81	136.10	88.99	257.55	-59.08	4,412.25	4,237.06	175.19	25.185		
9,650.00	7,869.94	7,855.94	7,855.94	93.64	136.14	89.81	257.55	-59.08	4,401.27	4,225.90	175.37	25.097		
9,659.14	7,870.00	7,856.00	7,856.00	93.60	136.14	90.00	257.55	-59.08	4,399.07	4,223.67	175.40	25.081		
9,700.00	7,870.00	7,856.00	7,856.00	93.46	136.14	90.00	257.55	-59.08	4,389.25	4,213.73	175.52	25.008		
9,800.00	7,870.00	7,856.00	7,856.00	93.11	136.14	90.00	257.55	-59.08	4,366.74	4,190.89	175.85	24.833		
9,900.00	7,870.00	7,856.00	7,856.00	92.77	136.14	90.00	257.55	-59.08	4,346.42	4,170.19	176.23	24.664		
10,000.00	7,870.00	7,856.00	7,856.00	92.46	136.14	90.00	257.55	-59.08	4,328.31	4,151.65	176.65	24.501		
10,100.00	7,870.00	7,856.00	7,856.00	92.16	136.14	90.00	257.55	-59.08	4,312.44	4,135.31	177.13	24.346		
10,200.00	7,870.00	7,856.00	7,856.00	91.87	136.14	90.00	257.55	-59.08	4,298.84	4,121.20	177.65	24.199		
10,300.00	7,870.00	7,856.00	7,856.00	91.60	136.14	90.00	257.55	-59.08	4,287.54	4,109.33	178.21	24.059		
10,400.00	7,870.00	7,856.00	7,856.00	91.34	136.14	90.00	257.55	-59.08	4,278.54	4,099.73	178.81	23.928		
10,500.00	7,870.00	7,856.00	7,856.00	91.11	136.14	90.00	257.55	-59.08	4,271.86	4,092.41	179.45	23.806		
10,600.00	7,870.00	7,856.00	7,856.00	90.88	136.14	90.00	257.55	-59.08	4,267.52	4,087.40	180.12	23.693		
10,700.00	7,870.00	7,856.00	7,856.00	90.67	136.14	90.00	257.55	-59.08	4,265.52	4,084.70	180.82	23.590		
10,735.43	7,870.00	7,856.00	7,856.00	90.60	136.14	90.00	257.55	-59.08	4,265.37	4,084.29	181.08	23.555		
10,800.00	7,870.00	7,856.00	7,856.00	90.48	136.14	90.00	257.55	-59.08	4,265.86	4,084.31	181.54	23.498		
10,900.00	7,870.00	7,856.00	7,856.00	90.31	136.14	90.00	257.55	-59.08	4,268.54	4,086.25	182.29	23.416		
11,000.00	7,870.00	7,856.00	7,856.00	90.15	136.14	90.00	257.55	-59.08	4,273.57	4,090.50	183.06	23.345		
11,100.00	7,870.00	7,856.00	7,856.00	90.00	136.14	90.00	257.55	-59.08	4,280.92	4,097.08	183.85	23.285		
11,200.00	7,870.00	7,856.00	7,856.00	89.88	136.14	90.00	257.55	-59.08	4,290.59	4,105.95	184.64	23.237		
11,300.00	7,870.00	7,856.00	7,856.00	89.77	136.14	90.00	257.55	-59.08	4,302.57	4,117.12	185.45	23.201		
11,400.00	7,870.00	7,856.00	7,856.00	89.68	136.14	90.00	257.55	-59.08	4,316.83	4,130.58	186.25	23.177		
11,500.00	7,870.00	7,856.00	7,856.00	89.60	136.14	90.00	257.55	-59.08	4,333.35	4,146.29	187.07	23.165		
11,600.00	7,870.00	7,856.00	7,856.00	89.55	136.14	90.00	257.55	-59.08	4,352.11	4,164.23	187.88	23.165		
11,700.00	7,870.00	7,856.00	7,856.00	89.52	136.14	90.00	257.55	-59.08	4,373.07	4,184.39	188.68	23.177		
11,800.00	7,870.00	7,856.00	7,856.00	89.50	136.14	90.00	257.55	-59.08	4,396.21	4,206.73	189.49	23.201		
11,900.00	7,870.00	7,856.00	7,856.00	89.51	136.14	90.00	257.55	-59.08	4,421.49	4,231.21	190.28	23.237		
12,000.00	7,870.00	7,856.00	7,856.00	89.54	136.14	90.00	257.55	-59.08	4,448.88	4,257.82	191.06	23.285		
12,100.00	7,870.00	7,856.00	7,856.00	89.59	136.14	90.00	257.55	-59.08	4,478.33	4,286.50	191.83	23.345		
12,200.00	7,870.00	7,856.00	7,856.00	89.66	136.14	90.00	257.55	-59.08	4,509.80	4,317.22	192.59	23.417		
12,300.00	7,870.00	7,856.00	7,856.00	89.77	136.14	90.00	257.55	-59.08	4,543.26	4,349.93	193.33	23.500		
12,400.00	7,870.00	7,856.00	7,856.00	89.89	136.14	90.00	257.55	-59.08	4,578.66	4,384.61	194.05	23.595		
12,500.00	7,870.00	7,856.00	7,856.00	90.05	136.14	90.00	257.55	-59.08	4,615.96	4,421.20	194.76	23.701		
12,600.00	7,870.00	7,856.00	7,856.00	90.24	136.14	90.00	257.55	-59.08	4,655.10	4,459.65	195.45	23.818		
12,700.00	7,870.00	7,856.00	7,856.00	90.46	136.14	90.00	257.55	-59.08	4,696.05	4,499.93	196.12	23.945		
12,800.00	7,870.00	7,856.00	7,856.00	90.71	136.14	90.00	257.55	-59.08	4,738.76	4,541.99	196.77	24.083		
12,900.00	7,870.00	7,856.00	7,856.00	90.99	136.14	90.00	257.55	-59.08	4,783.17	4,585.77	197.40	24.231		
13,000.00	7,870.00	7,856.00	7,856.00	91.32	136.14	90.00	257.55	-59.08	4,829.25	4,631.24	198.01	24.389		
13,100.00	7,870.00	7,856.00	7,856.00	91.68	136.14	90.00	257.55	-59.08	4,876.94	4,678.34	198.60	24.557		
13,200.00	7,870.00	7,856.00	7,856.00	92.08	136.14	90.00	257.55	-59.08	4,926.20	4,727.04	199.17	24.734		
13,300.00	7,870.00	7,856.00	7,856.00	92.52	136.14	90.00	257.55	-59.08	4,976.98	4,777.27	199.71	24.921		
13,400.00	7,870.00	7,856.00	7,856.00	93.00	136.14	90.00	257.55	-59.08	5,029.24	4,829.00	200.24	25.116		
13,500.00	7,870.00	7,856.00	7,856.00	93.53	136.14	90.00	257.55	-59.08	5,082.93	4,882.18	200.75	25.320		
13,600.00	7,870.00	7,856.00	7,856.00	94.10	136.14	90.00	257.55	-59.08	5,138.01	4,936.77	201.24	25.532		
13,700.00	7,870.00	7,856.00	7,856.00	94.72	136.14	90.00	257.55	-59.08	5,194.42	4,992.71	201.71	25.752		
13,800.00	7,870.00	7,856.00	7,856.00	95.38	136.14	90.00	257.55	-59.08	5,252.14	5,049.97	202.16	25.980		
13,900.00	7,870.00	7,856.00	7,856.00	96.09	136.14	90.00	257.55	-59.08	5,311.11	5,108.51	202.60	26.215		
14,000.00	7,870.00	7,856.00	7,856.00	96.84	136.14	90.00	257.55	-59.08	5,371.29	5,168.28	203.01	26.458		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,100.00	7,870.00	7,856.00	7,856.00	97.64	136.14	90.00	257.55	-59.08	5,432.65	5,229.24	203.41	26.708		
14,200.00	7,870.00	7,856.00	7,856.00	98.48	136.14	90.00	257.55	-59.08	5,495.14	5,291.35	203.79	26.965		
14,300.00	7,870.00	7,856.00	7,856.00	99.37	136.14	90.00	257.55	-59.08	5,558.73	5,354.58	204.16	27.228		
14,400.00	7,870.00	7,856.00	7,856.00	100.30	136.14	90.00	257.55	-59.08	5,623.38	5,418.88	204.51	27.497		
14,500.00	7,870.00	7,856.00	7,856.00	101.26	136.14	90.00	257.55	-59.08	5,689.05	5,484.21	204.84	27.773		
14,600.00	7,870.00	7,856.00	7,856.00	102.27	136.14	90.00	257.55	-59.08	5,755.71	5,550.55	205.16	28.055		
14,700.00	7,870.00	7,856.00	7,856.00	103.31	136.14	90.00	257.55	-59.08	5,823.33	5,617.86	205.47	28.342		
14,800.00	7,870.00	7,856.00	7,856.00	104.38	136.14	90.00	257.55	-59.08	5,891.87	5,686.11	205.76	28.635		
14,900.00	7,870.00	7,856.00	7,856.00	105.49	136.14	90.00	257.55	-59.08	5,961.29	5,755.25	206.04	28.933		
15,000.00	7,870.00	7,856.00	7,856.00	106.63	136.14	90.00	257.55	-59.08	6,031.58	5,825.27	206.31	29.236		
15,100.00	7,870.00	7,856.00	7,856.00	107.80	136.14	90.00	257.55	-59.08	6,102.69	5,896.13	206.56	29.544		
15,200.00	7,870.00	7,856.00	7,856.00	109.00	136.14	90.00	257.55	-59.08	6,174.60	5,967.80	206.81	29.857		
15,300.00	7,870.00	7,856.00	7,856.00	110.22	136.14	90.00	257.55	-59.08	6,247.29	6,040.25	207.04	30.174		
15,400.00	7,870.00	7,856.00	7,856.00	111.47	136.14	90.00	257.55	-59.08	6,320.72	6,113.46	207.27	30.496		
15,500.00	7,870.00	7,856.00	7,856.00	112.74	136.14	90.00	257.55	-59.08	6,394.88	6,187.40	207.48	30.822		
15,600.00	7,870.00	7,856.00	7,856.00	114.03	136.14	90.00	257.55	-59.08	6,469.73	6,262.05	207.68	31.152		
15,700.00	7,870.00	7,856.00	7,856.00	115.34	136.14	90.00	257.55	-59.08	6,545.25	6,337.37	207.88	31.486		
15,800.00	7,870.00	7,856.00	7,856.00	116.68	136.14	90.00	257.55	-59.08	6,621.42	6,413.36	208.06	31.824		
15,900.00	7,870.00	7,856.00	7,856.00	118.02	136.14	90.00	257.55	-59.08	6,698.22	6,489.97	208.24	32.165		
16,000.00	7,870.00	7,856.00	7,856.00	119.39	136.14	90.00	257.55	-59.08	6,775.62	6,567.21	208.41	32.510		
16,100.00	7,870.00	7,856.00	7,856.00	120.77	136.14	90.00	257.55	-59.08	6,853.61	6,645.03	208.58	32.859		
16,200.00	7,870.00	7,856.00	7,856.00	122.17	136.14	90.00	257.55	-59.08	6,932.16	6,723.43	208.73	33.210		
16,300.00	7,870.00	7,856.00	7,856.00	123.58	136.14	90.00	257.55	-59.08	7,011.26	6,802.38	208.88	33.565		
16,400.00	7,870.00	7,856.00	7,856.00	125.00	136.14	90.00	257.55	-59.08	7,090.89	6,881.86	209.03	33.923		
16,500.00	7,870.00	7,856.00	7,856.00	126.43	136.14	90.00	257.55	-59.08	7,171.03	6,961.86	209.16	34.284		
16,600.00	7,870.00	7,856.00	7,856.00	127.88	136.14	90.00	257.55	-59.08	7,251.66	7,042.36	209.30	34.648		
16,700.00	7,870.00	7,856.00	7,856.00	129.34	136.14	90.00	257.55	-59.08	7,332.76	7,123.34	209.42	35.014		
16,800.00	7,870.00	7,856.00	7,856.00	130.81	136.14	90.00	257.55	-59.08	7,414.33	7,204.79	209.54	35.383		
16,900.00	7,870.00	7,856.00	7,856.00	132.28	136.14	90.00	257.55	-59.08	7,496.35	7,286.69	209.66	35.755		
17,000.00	7,870.00	7,856.00	7,856.00	133.77	136.14	90.00	257.55	-59.08	7,578.80	7,369.03	209.77	36.129		
17,100.00	7,870.00	7,856.00	7,856.00	135.27	136.14	90.00	257.55	-59.08	7,661.66	7,451.79	209.88	36.505		
17,200.00	7,870.00	7,856.00	7,856.00	136.77	136.14	90.00	257.55	-59.08	7,744.93	7,534.95	209.98	36.884		
17,300.00	7,870.00	7,856.00	7,856.00	138.28	136.14	90.00	257.55	-59.08	7,828.60	7,618.52	210.08	37.265		
17,400.00	7,870.00	7,856.00	7,856.00	139.80	136.14	90.00	257.55	-59.08	7,912.64	7,702.46	210.17	37.648		
17,500.00	7,870.00	7,856.00	7,856.00	141.33	136.14	90.00	257.55	-59.08	7,997.05	7,786.78	210.26	38.033		
17,600.00	7,870.00	7,856.00	7,856.00	142.86	136.14	90.00	257.55	-59.08	8,081.81	7,871.46	210.35	38.420		
17,700.00	7,870.00	7,856.00	7,856.00	144.40	136.14	90.00	257.55	-59.08	8,166.92	7,956.48	210.44	38.809		
17,800.00	7,870.00	7,856.00	7,856.00	145.95	136.14	90.00	257.55	-59.08	8,252.36	8,041.84	210.52	39.200		
17,900.00	7,870.00	7,856.00	7,856.00	147.50	136.14	90.00	257.55	-59.08	8,338.13	8,127.53	210.60	39.593		
18,000.00	7,870.00	7,856.00	7,856.00	149.06	136.14	90.00	257.55	-59.08	8,424.21	8,213.54	210.67	39.987		
18,100.00	7,870.00	7,856.00	7,856.00	150.63	136.14	90.00	257.55	-59.08	8,510.59	8,299.85	210.75	40.383		
18,200.00	7,870.00	7,856.00	7,856.00	152.20	136.14	90.00	257.55	-59.08	8,597.27	8,386.46	210.82	40.780		
18,300.00	7,870.00	7,856.00	7,856.00	153.77	136.14	90.00	257.55	-59.08	8,684.24	8,473.35	210.89	41.180		
18,400.00	7,870.00	7,856.00	7,856.00	155.35	136.14	90.00	257.55	-59.08	8,771.49	8,560.53	210.95	41.580		
18,500.00	7,870.00	7,856.00	7,856.00	156.93	136.14	90.00	257.55	-59.08	8,859.00	8,647.98	211.02	41.982		
18,600.00	7,870.00	7,856.00	7,856.00	158.52	136.14	90.00	257.55	-59.08	8,946.77	8,735.69	211.08	42.386		
18,700.00	7,870.00	7,856.00	7,856.00	160.11	136.14	90.00	257.55	-59.08	9,034.80	8,823.66	211.14	42.790		
18,800.00	7,870.00	7,856.00	7,856.00	161.71	136.14	90.00	257.55	-59.08	9,123.08	8,911.88	211.20	43.196		
18,900.00	7,870.00	7,856.00	7,856.00	163.31	136.14	90.00	257.55	-59.08	9,211.60	9,000.34	211.26	43.604		
19,000.00	7,870.00	7,856.00	7,856.00	164.91	136.14	90.00	257.55	-59.08	9,300.35	9,089.03	211.31	44.012		
19,100.00	7,870.00	7,856.00	7,856.00	166.52	136.14	90.00	257.55	-59.08	9,389.32	9,177.95	211.37	44.422		
19,200.00	7,870.00	7,856.00	7,856.00	168.13	136.14	90.00	257.55	-59.08	9,478.52	9,267.10	211.42	44.833		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,870.00	7,856.00	7,856.00	169.75	136.14	90.00	257.55	-59.08	9,567.92	9,356.45	211.47	45.245	
19,383.51	7,870.00	7,856.00	7,856.00	171.10	136.14	90.00	257.55	-59.08	9,642.75	9,431.23	211.51	45.589	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	1.00	0.00	0.00	-89.40	0.73	-69.72	69.72					
100.00	100.00	101.00	101.00	0.13	0.14	-89.40	0.73	-69.72	69.72	69.45	0.27	255.927		
200.00	200.00	201.00	201.00	0.49	0.50	-89.40	0.73	-69.72	69.72	68.74	0.99	70.473		
300.00	300.00	301.00	301.00	0.85	0.85	-89.40	0.73	-69.72	69.72	68.02	1.71	40.862		
400.00	400.00	401.00	401.00	1.21	1.21	-89.40	0.73	-69.72	69.72	67.30	2.42	28.773		
500.00	500.00	501.00	501.00	1.57	1.57	-89.40	0.73	-69.72	69.72	66.58	3.14	22.204		
600.00	600.00	601.00	601.00	1.93	1.93	-89.40	0.73	-69.72	69.72	65.87	3.86	18.077	CC, ES	
700.00	699.98	700.98	700.98	2.28	2.29	-153.84	0.73	-69.72	71.29	66.72	4.57	15.601		
800.00	799.84	800.84	800.84	2.64	2.65	-155.54	0.73	-69.72	76.02	70.74	5.28	14.396		
900.00	899.45	900.45	900.45	3.00	3.00	-157.94	0.73	-69.72	84.03	78.04	5.99	18.226		
1,000.00	998.70	1,000.30	999.70	3.37	3.36	-160.61	0.73	-69.72	95.44	88.73	6.71	14.221		
1,100.00	1,097.47	1,101.53	1,098.47	3.76	3.72	-163.22	0.73	-69.72	110.34	102.90	7.44	14.837		
1,200.00	1,195.62	1,203.38	1,196.62	4.18	4.09	-165.57	0.73	-69.72	128.74	120.58	8.17	15.766		
1,300.00	1,293.06	1,294.06	1,294.06	4.63	4.41	-167.61	0.73	-69.72	150.65	141.80	8.86	17.008		
1,400.00	1,389.64	1,395.64	1,395.62	5.11	4.78	-169.12	1.90	-68.63	174.76	165.17	9.59	18.226		
1,500.00	1,485.27	1,498.29	1,498.13	5.63	5.14	-169.90	5.75	-65.05	199.31	188.98	10.32	19.309		
1,600.00	1,579.82	1,601.72	1,601.17	6.20	5.51	-170.17	12.35	-58.91	224.21	213.15	11.06	20.270		
1,700.00	1,673.17	1,705.93	1,704.58	6.83	5.89	-170.06	21.75	-50.16	249.41	237.60	11.81	21.123		
1,800.00	1,765.21	1,810.91	1,808.20	7.51	6.29	-169.68	33.99	-38.77	274.90	262.33	12.56	21.879		
1,900.00	1,855.84	1,916.63	1,911.88	8.24	6.70	-169.09	49.12	-24.68	300.65	287.31	13.34	22.540		
2,000.00	1,944.94	2,023.10	2,015.45	9.05	7.14	-168.33	67.18	-7.88	326.68	312.54	14.13	23.114		
2,100.00	2,032.39	2,130.29	2,118.72	9.91	7.62	-167.45	88.19	11.68	352.97	338.02	14.96	23.600		
2,200.00	2,118.11	2,238.19	2,221.51	10.85	8.13	-166.45	112.19	34.01	379.56	363.74	15.82	23.997		
2,300.00	2,201.97	2,346.79	2,323.66	11.85	8.70	-165.37	139.18	59.13	406.43	389.70	16.72	24.302		
2,400.00	2,283.88	2,456.08	2,424.95	12.93	9.32	-164.22	169.18	87.05	433.60	415.91	17.69	24.511		
2,429.47	2,307.63	2,488.41	2,454.62	13.26	9.51	-163.87	178.60	95.82	441.66	423.68	17.99	24.554		
2,500.00	2,364.26	2,566.25	2,525.42	14.06	9.99	-163.09	202.27	117.85	460.28	441.55	18.72	24.581		
2,600.00	2,444.56	2,663.72	2,613.41	15.22	10.63	-162.09	232.96	146.41	485.51	465.68	19.82	24.490		
2,700.00	2,524.85	2,760.16	2,700.47	16.39	11.29	-161.20	263.33	174.68	510.85	489.89	20.96	24.370		
2,800.00	2,605.14	2,856.60	2,787.53	17.57	11.97	-160.39	293.71	202.94	536.30	514.16	22.13	24.229		
2,900.00	2,685.43	2,953.05	2,874.60	18.76	12.66	-159.66	324.08	231.21	561.84	538.50	23.34	24.074		
3,000.00	2,765.73	3,049.49	2,961.66	19.96	13.36	-158.99	354.45	259.48	587.46	562.89	24.57	23.912		
3,100.00	2,846.02	3,145.93	3,048.72	21.16	14.07	-158.37	384.83	287.75	613.14	587.32	25.82	23.745		
3,200.00	2,926.31	3,242.38	3,135.78	22.37	14.80	-157.81	415.20	316.01	638.89	611.79	27.10	23.576		
3,300.00	3,006.60	3,338.82	3,222.84	23.59	15.53	-157.28	445.57	344.28	664.69	636.30	28.39	23.409		
3,400.00	3,086.90	3,435.26	3,309.90	24.81	16.27	-156.80	475.95	372.55	690.54	660.84	29.71	23.245		
3,500.00	3,167.19	3,531.71	3,396.96	26.03	17.01	-156.35	506.32	400.82	716.44	685.40	31.04	23.084		
3,600.00	3,247.48	3,628.15	3,484.02	27.25	17.76	-155.94	536.69	429.08	742.37	709.99	32.38	22.927		
3,700.00	3,327.77	3,724.59	3,571.09	28.48	18.51	-155.55	567.07	457.35	768.33	734.60	33.73	22.776		
3,800.00	3,408.07	3,821.04	3,658.15	29.71	19.27	-155.18	597.44	485.62	794.33	759.23	35.10	22.630		
3,900.00	3,488.36	3,917.48	3,745.21	30.94	20.03	-154.84	627.81	513.89	820.35	783.88	36.48	22.489		
4,000.00	3,568.65	4,013.92	3,832.27	32.17	20.80	-154.53	658.19	542.15	846.40	808.54	37.86	22.354		
4,100.00	3,648.95	4,110.36	3,919.33	33.41	21.56	-154.22	688.56	570.42	872.48	833.22	39.26	22.224		
4,200.00	3,729.24	4,206.81	4,006.39	34.64	22.33	-153.94	718.93	598.69	898.57	857.91	40.66	22.100		
4,300.00	3,809.53	4,303.25	4,093.45	35.88	23.11	-153.67	749.31	626.96	924.68	882.61	42.07	21.980		
4,400.00	3,889.82	4,400.31	4,180.52	37.12	23.88	-153.42	779.68	655.22	950.81	907.32	43.49	21.864		
4,500.00	3,970.12	4,503.86	4,267.58	38.36	24.72	-153.18	810.05	683.49	976.96	932.00	44.96	21.732		
4,600.00	4,050.41	4,592.58	4,354.64	39.60	25.43	-152.96	840.43	711.76	1,003.12	956.79	46.33	21.650		
4,700.00	4,130.70	4,689.02	4,441.70	40.84	26.21	-152.74	870.80	740.03	1,029.30	981.53	47.76	21.549		
4,800.00	4,210.99	4,785.47	4,528.76	42.08	26.99	-152.54	901.17	768.29	1,055.49	1,006.29	49.20	21.453		
4,900.00	4,291.29	4,881.91	4,615.82	43.32	27.78	-152.34	931.55	796.56	1,081.69	1,031.05	50.64	21.360		
5,000.00	4,371.58	4,978.35	4,702.88	44.57	28.56	-152.16	961.92	824.83	1,107.90	1,055.81	52.09	21.271		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,074.80	4,789.94	45.81	29.35	-151.98	992.29	853.10	1,134.12	1,080.59	53.53	21.185		
5,200.00	4,532.16	5,171.24	4,877.01	47.05	30.13	-151.81	1,022.67	881.36	1,160.35	1,105.37	54.99	21.103		
5,300.00	4,612.46	5,267.68	4,964.07	48.30	30.92	-151.65	1,053.04	909.63	1,186.59	1,130.15	56.44	21.024		
5,400.00	4,692.75	5,364.12	5,051.13	49.54	31.70	-151.50	1,083.41	937.90	1,212.84	1,154.94	57.90	20.948		
5,500.00	4,773.04	5,460.57	5,138.19	50.79	32.49	-151.35	1,113.79	966.17	1,239.10	1,179.74	59.36	20.875		
5,600.00	4,853.34	5,557.01	5,225.25	52.03	33.28	-151.21	1,144.16	994.43	1,265.36	1,204.54	60.82	20.805		
5,700.00	4,933.63	5,653.45	5,312.31	53.28	34.07	-151.07	1,174.53	1,022.70	1,291.63	1,229.35	62.29	20.737		
5,800.00	5,013.92	5,749.90	5,399.37	54.53	34.86	-150.94	1,204.91	1,050.97	1,317.91	1,254.16	63.75	20.672		
5,900.00	5,094.21	5,846.34	5,486.44	55.77	35.65	-150.82	1,235.28	1,079.24	1,344.20	1,278.97	65.22	20.609		
6,000.00	5,174.51	5,942.78	5,573.50	57.02	36.44	-150.70	1,265.65	1,107.50	1,370.49	1,303.79	66.69	20.549		
6,100.00	5,254.80	6,039.23	5,660.56	58.27	37.24	-150.58	1,296.03	1,135.77	1,396.78	1,328.61	68.17	20.491		
6,200.00	5,335.09	6,135.67	5,747.62	59.52	38.03	-150.47	1,326.40	1,164.04	1,423.08	1,353.44	69.64	20.434		
6,300.00	5,415.38	6,232.11	5,834.68	60.76	38.82	-150.36	1,356.77	1,192.31	1,449.38	1,378.27	71.12	20.380		
6,400.00	5,495.68	6,328.56	5,921.74	62.01	39.62	-150.26	1,387.15	1,220.57	1,475.69	1,403.10	72.60	20.327		
6,500.00	5,575.97	6,425.00	6,008.80	63.26	40.41	-150.16	1,417.52	1,248.84	1,502.01	1,427.93	74.08	20.276		
6,600.00	5,656.26	6,521.44	6,095.86	64.51	41.20	-150.06	1,447.89	1,277.11	1,528.33	1,452.77	75.56	20.227		
6,700.00	5,736.55	6,617.88	6,182.93	65.76	42.00	-149.97	1,478.27	1,305.38	1,554.65	1,477.61	77.04	20.180		
6,800.00	5,816.85	6,714.33	6,269.99	67.01	42.79	-149.87	1,508.64	1,333.64	1,580.97	1,502.45	78.52	20.134		
6,900.00	5,897.14	6,810.77	6,357.05	68.26	43.59	-149.79	1,539.01	1,361.91	1,607.30	1,527.29	80.01	20.089		
7,000.00	5,977.43	6,907.21	6,444.11	69.50	44.38	-149.70	1,569.39	1,390.18	1,633.64	1,552.14	81.50	20.046		
7,100.00	6,057.72	7,003.66	6,531.17	70.75	45.18	-149.62	1,599.76	1,418.45	1,659.97	1,576.99	82.98	20.004		
7,200.00	6,138.02	7,100.10	6,618.23	72.00	45.98	-149.54	1,630.13	1,446.71	1,686.31	1,601.84	84.47	19.963		
7,300.00	6,218.31	7,203.46	6,705.29	73.25	46.83	-149.46	1,660.51	1,474.98	1,712.65	1,626.64	86.01	19.913		
7,400.00	6,298.60	7,292.99	6,792.35	74.50	47.57	-149.39	1,690.88	1,503.25	1,739.00	1,651.55	87.45	19.886		
7,500.00	6,378.90	7,389.43	6,879.42	75.75	48.37	-149.32	1,721.25	1,531.52	1,765.34	1,676.40	88.94	19.849		
7,600.00	6,459.19	7,485.87	6,966.48	77.00	49.16	-149.25	1,751.63	1,559.78	1,791.69	1,701.26	90.43	19.812		
7,700.00	6,539.48	7,582.31	7,053.54	78.25	49.96	-149.18	1,782.00	1,588.05	1,818.05	1,726.12	91.93	19.777		
7,800.00	6,619.77	7,678.76	7,140.60	79.50	50.76	-149.11	1,812.37	1,616.32	1,844.40	1,750.98	93.42	19.743		
7,900.00	6,700.07	7,765.07	7,257.31	80.75	51.69	-149.04	1,841.38	1,654.17	1,870.09	1,775.29	94.80	19.727		
8,000.00	6,780.36	7,927.68	7,373.72	82.00	52.31	-150.44	1,843.37	1,691.84	1,894.30	1,799.36	94.95	19.951		
8,100.00	6,860.65	8,033.12	7,472.25	83.25	52.59	-151.92	1,824.22	1,723.65	1,918.05	1,823.83	94.22	20.356		
8,200.00	6,940.94	8,119.25	7,549.18	84.50	52.67	-153.48	1,794.72	1,748.43	1,942.60	1,849.46	93.14	20.857		
8,300.00	7,021.24	8,187.99	7,607.04	85.76	52.64	-154.92	1,762.68	1,767.04	1,969.02	1,877.03	91.99	21.405		
8,400.00	7,101.53	8,242.68	7,650.21	87.01	52.56	-156.17	1,732.14	1,780.90	1,998.06	1,907.17	90.89	21.984		
8,500.00	7,181.82	8,286.47	7,682.66	88.26	52.47	-157.23	1,704.65	1,791.31	2,030.19	1,940.33	89.85	22.595		
8,605.60	7,266.61	8,323.72	7,708.63	89.58	52.37	-158.18	1,679.28	1,799.62	2,067.73	1,978.92	88.81	23.282		
8,650.00	7,302.60	8,338.14	7,718.25	90.13	52.33	-166.19	1,668.99	1,802.70	2,084.64	1,996.25	88.39	23.584		
8,700.00	7,343.78	8,350.00	7,725.97	90.72	52.29	-175.69	1,660.34	1,805.17	2,104.31	2,016.24	88.07	23.894		
8,750.00	7,385.32	8,372.87	7,740.38	91.28	52.21	174.17	1,643.19	1,809.77	2,124.40	2,036.88	87.52	24.273		
8,800.00	7,426.92	8,391.19	7,751.45	91.81	52.15	164.09	1,629.03	1,813.30	2,144.73	2,057.60	87.13	24.616		
8,850.00	7,468.27	8,410.04	7,762.39	92.29	52.08	154.30	1,614.07	1,816.79	2,165.07	2,078.31	86.76	24.954		
8,900.00	7,509.04	8,429.35	7,773.10	92.72	52.00	145.07	1,598.37	1,820.20	2,185.22	2,098.79	86.43	25.284		
8,950.00	7,548.93	8,450.00	7,783.98	93.10	51.92	136.58	1,581.17	1,823.67	2,204.98	2,118.88	86.10	25.610		
9,000.00	7,587.63	8,469.13	7,793.54	93.43	51.83	128.97	1,564.88	1,826.70	2,224.16	2,138.31	85.85	25.908		
9,050.00	7,624.85	8,489.51	7,803.15	93.71	51.74	122.22	1,547.17	1,829.75	2,242.60	2,156.99	85.61	26.195		
9,100.00	7,660.30	8,500.00	7,807.85	93.93	51.70	116.40	1,537.91	1,831.24	2,260.17	2,174.49	85.68	26.379		
9,150.00	7,693.72	8,531.07	7,820.84	94.10	51.54	111.14	1,510.00	1,835.35	2,276.60	2,191.34	85.26	26.703		
9,200.00	7,724.85	8,550.00	7,828.05	94.23	51.45	106.70	1,492.64	1,837.62	2,291.88	2,206.68	85.20	26.900		
9,250.00	7,753.45	8,573.48	7,836.22	94.30	51.33	102.88	1,470.77	1,840.19	2,305.84	2,220.76	85.07	27.105		
9,300.00	7,779.31	8,600.00	7,844.41	94.34	51.20	99.62	1,445.69	1,842.75	2,318.38	2,233.48	84.91	27.305		
9,350.00	7,802.23	8,616.54	7,848.96	94.33	51.11	96.95	1,429.84	1,844.17	2,329.38	2,244.30	85.08	27.379		
9,400.00	7,822.03	8,638.26	7,854.27	94.28	50.99	94.74	1,408.85	1,845.82	2,338.78	2,253.63	85.16	27.464		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,650.00	7,856.82	94.20	50.93	93.00	1,397.42	1,846.60	2,346.56	2,260.97	85.59	27.416		
9,500.00	7,851.72	8,681.96	7,862.63	94.10	50.75	91.63	1,366.05	1,848.38	2,352.51	2,267.03	85.47	27.524		
9,550.00	7,861.37	8,700.00	7,865.18	93.96	50.65	90.69	1,348.21	1,849.14	2,356.73	2,270.91	85.83	27.459		
9,600.00	7,867.46	8,725.88	7,867.89	93.81	50.50	90.13	1,322.48	1,849.93	2,359.14	2,273.15	85.99	27.434		
9,650.00	7,869.94	8,750.00	7,869.43	93.64	50.36	89.96	1,298.42	1,850.35	2,359.73	2,273.48	86.26	27.357		
9,659.14	7,870.00	8,750.00	7,869.43	93.60	50.36	89.96	1,298.42	1,850.35	2,359.64	2,273.19	86.45	27.294		
9,700.00	7,870.00	8,769.89	7,869.97	93.46	50.25	89.97	1,278.53	1,850.45	2,359.30	2,272.62	86.69	27.217		
9,712.94	7,870.00	8,777.75	7,870.00	93.41	50.20	89.98	1,273.67	1,850.45	2,359.28	2,272.49	86.79	27.183		
9,800.00	7,870.00	8,861.82	7,870.00	93.11	49.74	89.98	1,186.61	1,850.15	2,359.28	2,273.38	85.91	27.463		
9,900.00	7,870.00	8,961.82	7,870.00	92.77	49.21	89.98	1,086.61	1,849.81	2,359.29	2,274.29	84.99	27.759		
10,000.00	7,870.00	9,061.82	7,870.00	92.46	48.71	89.98	986.61	1,849.47	2,359.29	2,275.07	84.22	28.015		
10,100.00	7,870.00	9,161.82	7,870.00	92.16	48.24	89.98	886.61	1,849.13	2,359.29	2,275.71	83.58	28.226		
10,200.00	7,870.00	9,261.82	7,870.00	91.87	47.79	89.98	786.61	1,848.79	2,359.29	2,276.19	83.10	28.391		
10,300.00	7,870.00	9,361.82	7,870.00	91.60	47.37	89.98	686.61	1,848.45	2,359.30	2,276.53	82.76	28.506		
10,400.00	7,870.00	9,461.82	7,870.00	91.34	46.98	89.98	586.61	1,848.11	2,359.30	2,276.72	82.58	28.570		
10,500.00	7,870.00	9,561.82	7,870.00	91.11	46.61	89.98	486.61	1,847.77	2,359.30	2,276.75	82.55	28.581		
10,600.00	7,870.00	9,661.82	7,870.00	90.88	46.26	89.98	386.61	1,847.43	2,359.30	2,276.64	82.67	28.540		
10,700.00	7,870.00	9,761.82	7,870.00	90.67	45.94	89.98	286.61	1,847.09	2,359.30	2,276.37	82.94	28.447		
10,800.00	7,870.00	9,861.82	7,870.00	90.48	45.64	89.98	186.62	1,846.75	2,359.31	2,275.95	83.36	28.303		
10,900.00	7,870.00	9,961.82	7,870.00	90.31	45.37	89.98	86.62	1,846.41	2,359.31	2,275.38	83.93	28.111		
11,000.00	7,870.00	10,061.82	7,870.00	90.15	45.12	89.98	-13.38	1,846.07	2,359.31	2,274.67	84.64	27.875		
11,100.00	7,870.00	10,161.82	7,870.00	90.00	44.90	89.98	-113.38	1,845.73	2,359.31	2,273.82	85.49	27.596		
11,200.00	7,870.00	10,261.82	7,870.00	89.88	44.71	89.98	-213.38	1,845.39	2,359.32	2,272.83	86.48	27.281		
11,300.00	7,870.00	10,361.82	7,870.00	89.77	44.58	89.98	-313.38	1,845.05	2,359.32	2,271.72	87.60	26.931		
11,400.00	7,870.00	10,461.82	7,870.00	89.68	44.55	89.98	-413.38	1,844.71	2,359.32	2,270.47	88.85	26.553		
11,500.00	7,870.00	10,561.82	7,870.00	89.60	44.69	89.98	-513.38	1,844.38	2,359.32	2,269.10	90.22	26.150		
11,600.00	7,870.00	10,661.82	7,870.00	89.55	45.11	89.98	-613.38	1,844.04	2,359.33	2,267.62	91.71	25.727		
11,700.00	7,870.00	10,761.82	7,870.00	89.52	45.82	89.98	-713.38	1,843.70	2,359.33	2,266.03	93.30	25.287		
11,800.00	7,870.00	10,861.82	7,870.00	89.50	46.71	89.98	-813.38	1,843.36	2,359.33	2,264.33	95.00	24.835		
11,900.00	7,870.00	10,961.82	7,870.00	89.51	47.72	89.98	-913.38	1,843.02	2,359.33	2,262.54	96.80	24.373		
12,000.00	7,870.00	11,061.82	7,870.00	89.54	48.80	89.98	-1,013.38	1,842.68	2,359.34	2,260.65	98.69	23.906		
12,100.00	7,870.00	11,161.82	7,870.00	89.59	49.93	89.98	-1,113.38	1,842.34	2,359.34	2,258.67	100.67	23.436		
12,200.00	7,870.00	11,261.82	7,870.00	89.66	51.09	89.98	-1,213.38	1,842.00	2,359.34	2,256.61	102.73	22.965		
12,300.00	7,870.00	11,361.82	7,870.00	89.77	52.29	89.98	-1,313.38	1,841.66	2,359.34	2,254.47	104.88	22.497		
12,400.00	7,870.00	11,461.82	7,870.00	89.89	53.52	89.98	-1,413.38	1,841.32	2,359.35	2,252.26	107.09	22.031		
12,500.00	7,870.00	11,561.82	7,870.00	90.05	54.78	89.98	-1,513.38	1,840.98	2,359.35	2,249.98	109.37	21.571		
12,600.00	7,870.00	11,661.82	7,870.00	90.24	56.07	89.98	-1,613.37	1,840.64	2,359.35	2,247.63	111.72	21.118		
12,700.00	7,870.00	11,761.82	7,870.00	90.46	57.37	89.98	-1,713.37	1,840.30	2,359.35	2,245.22	114.13	20.672		
12,800.00	7,870.00	11,861.82	7,870.00	90.71	58.70	89.98	-1,813.37	1,839.96	2,359.36	2,242.76	116.60	20.235		
12,900.00	7,870.00	11,961.82	7,870.00	90.99	60.05	89.98	-1,913.37	1,839.62	2,359.36	2,240.24	119.12	19.807		
13,000.00	7,870.00	12,061.82	7,870.00	91.32	61.42	89.98	-2,013.37	1,839.28	2,359.36	2,237.67	121.69	19.388		
13,100.00	7,870.00	12,161.82	7,870.00	91.68	62.80	89.98	-2,113.37	1,838.94	2,359.36	2,235.06	124.31	18.980		
13,200.00	7,870.00	12,261.82	7,870.00	92.08	64.20	89.98	-2,213.37	1,838.60	2,359.37	2,232.40	126.97	18.582		
13,300.00	7,870.00	12,361.82	7,870.00	92.52	65.62	89.98	-2,313.37	1,838.26	2,359.37	2,229.70	129.67	18.195		
13,400.00	7,870.00	12,461.82	7,870.00	93.00	67.05	89.98	-2,413.37	1,837.92	2,359.37	2,226.96	132.41	17.818		
13,500.00	7,870.00	12,561.82	7,870.00	93.53	68.49	89.98	-2,513.37	1,837.58	2,359.37	2,224.18	135.19	17.452		
13,600.00	7,870.00	12,661.82	7,870.00	94.10	69.95	89.98	-2,613.37	1,837.24	2,359.38	2,221.37	138.01	17.096		
13,700.00	7,870.00	12,761.82	7,870.00	94.72	71.42	89.98	-2,713.37	1,836.90	2,359.38	2,218.53	140.85	16.751		
13,800.00	7,870.00	12,861.82	7,870.00	95.38	72.90	89.98	-2,813.37	1,836.56	2,359.38	2,215.65	143.73	16.416		
13,900.00	7,870.00	12,961.82	7,870.00	96.09	74.39	89.98	-2,913.37	1,836.22	2,359.38	2,212.75	146.63	16.090		
14,000.00	7,870.00	13,061.82	7,870.00	96.84	75.89	89.98	-3,013.37	1,835.88	2,359.39	2,209.82	149.56	15.775		
14,100.00	7,870.00	13,161.82	7,870.00	97.64	77.41	89.98	-3,113.37	1,835.54	2,359.39	2,206.87	152.52	15.469		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	13,261.82	7,870.00	98.48	78.93	89.98	-3,213.37	1,835.20	2,359.39	2,203.89	155.50	15.173		
14,300.00	7,870.00	13,361.82	7,870.00	99.37	80.46	89.98	-3,313.36	1,834.86	2,359.39	2,200.89	158.51	14.885		
14,400.00	7,870.00	13,461.82	7,870.00	100.30	82.00	89.98	-3,413.36	1,834.52	2,359.40	2,197.86	161.53	14.606		
14,500.00	7,870.00	13,561.82	7,870.00	101.26	83.55	89.98	-3,513.36	1,834.18	2,359.40	2,194.82	164.58	14.336		
14,600.00	7,870.00	13,661.82	7,870.00	102.27	85.10	89.98	-3,613.36	1,833.84	2,359.40	2,191.76	167.64	14.074		
14,700.00	7,870.00	13,761.82	7,870.00	103.31	86.66	89.98	-3,713.36	1,833.50	2,359.40	2,188.68	170.72	13.820		
14,800.00	7,870.00	13,861.82	7,870.00	104.38	88.23	89.98	-3,813.36	1,833.16	2,359.41	2,185.58	173.82	13.573		
14,900.00	7,870.00	13,961.82	7,870.00	105.49	89.81	89.98	-3,913.36	1,832.82	2,359.41	2,182.47	176.94	13.334		
15,000.00	7,870.00	14,061.82	7,870.00	106.63	91.39	89.98	-4,013.36	1,832.48	2,359.41	2,179.34	180.07	13.103		
15,100.00	7,870.00	14,161.82	7,870.00	107.80	92.98	89.98	-4,113.36	1,832.14	2,359.41	2,176.20	183.22	12.878		
15,200.00	7,870.00	14,261.82	7,870.00	109.00	94.57	89.98	-4,213.36	1,831.80	2,359.42	2,173.04	186.38	12.659		
15,300.00	7,870.00	14,361.82	7,870.00	110.22	96.17	89.98	-4,313.36	1,831.46	2,359.42	2,169.87	189.55	12.447		
15,400.00	7,870.00	14,461.82	7,870.00	111.47	97.78	89.98	-4,413.36	1,831.12	2,359.42	2,166.68	192.74	12.242		
15,500.00	7,870.00	14,561.82	7,870.00	112.74	99.39	89.98	-4,513.36	1,830.78	2,359.42	2,163.49	195.94	12.042		
15,600.00	7,870.00	14,661.82	7,870.00	114.03	101.00	89.98	-4,613.36	1,830.44	2,359.43	2,160.28	199.14	11.848		
15,700.00	7,870.00	14,761.82	7,870.00	115.34	102.62	89.98	-4,713.36	1,830.10	2,359.43	2,157.06	202.36	11.659		
15,800.00	7,870.00	14,861.82	7,870.00	116.68	104.25	89.98	-4,813.36	1,829.76	2,359.43	2,153.84	205.59	11.476		
15,900.00	7,870.00	14,961.82	7,870.00	118.02	105.87	89.98	-4,913.36	1,829.42	2,359.43	2,150.60	208.83	11.298		
16,000.00	7,870.00	15,061.82	7,870.00	119.39	107.51	89.98	-5,013.36	1,829.08	2,359.44	2,147.35	212.08	11.125		
16,100.00	7,870.00	15,161.82	7,870.00	120.77	109.14	89.98	-5,113.35	1,828.74	2,359.44	2,144.10	215.34	10.957		
16,200.00	7,870.00	15,261.82	7,870.00	122.17	110.78	89.98	-5,213.35	1,828.40	2,359.44	2,140.83	218.61	10.793		
16,300.00	7,870.00	15,361.82	7,870.00	123.58	112.42	89.98	-5,313.35	1,828.06	2,359.44	2,137.56	221.88	10.634		
16,400.00	7,870.00	15,461.82	7,870.00	125.00	114.07	89.98	-5,413.35	1,827.72	2,359.45	2,134.28	225.17	10.479		
16,500.00	7,870.00	15,561.82	7,870.00	126.43	115.72	89.98	-5,513.35	1,827.38	2,359.45	2,130.99	228.46	10.328		
16,600.00	7,870.00	15,661.82	7,870.00	127.88	117.37	89.98	-5,613.35	1,827.05	2,359.45	2,127.69	231.76	10.181		
16,700.00	7,870.00	15,761.82	7,870.00	129.34	119.03	89.98	-5,713.35	1,826.71	2,359.45	2,124.39	235.06	10.038		
16,800.00	7,870.00	15,861.82	7,870.00	130.81	120.69	89.98	-5,813.35	1,826.37	2,359.46	2,121.08	238.37	9.898		
16,900.00	7,870.00	15,961.82	7,870.00	132.28	122.35	89.98	-5,913.35	1,826.03	2,359.46	2,117.77	241.69	9.762		
17,000.00	7,870.00	16,061.82	7,870.00	133.77	124.01	89.98	-6,013.35	1,825.69	2,359.46	2,114.45	245.01	9.630		
17,100.00	7,870.00	16,161.82	7,870.00	135.27	125.68	89.98	-6,113.35	1,825.35	2,359.46	2,111.12	248.34	9.501		
17,200.00	7,870.00	16,261.82	7,870.00	136.77	127.35	89.98	-6,213.35	1,825.01	2,359.47	2,107.79	251.68	9.375		
17,300.00	7,870.00	16,361.82	7,870.00	138.28	129.02	89.98	-6,313.35	1,824.67	2,359.47	2,104.45	255.02	9.252		
17,400.00	7,870.00	16,461.82	7,870.00	139.80	130.69	89.98	-6,413.35	1,824.33	2,359.47	2,101.11	258.36	9.132		
17,500.00	7,870.00	16,561.82	7,870.00	141.33	132.37	89.98	-6,513.35	1,823.99	2,359.47	2,097.76	261.71	9.015		
17,600.00	7,870.00	16,661.82	7,870.00	142.86	134.05	89.98	-6,613.35	1,823.65	2,359.48	2,094.41	265.07	8.901		
17,700.00	7,870.00	16,761.82	7,870.00	144.40	135.73	89.98	-6,713.35	1,823.31	2,359.48	2,091.05	268.43	8.790		
17,800.00	7,870.00	16,861.82	7,870.00	145.95	137.41	89.98	-6,813.34	1,822.97	2,359.48	2,087.69	271.79	8.681		
17,900.00	7,870.00	16,961.82	7,870.00	147.50	139.10	89.98	-6,913.34	1,822.63	2,359.48	2,084.32	275.16	8.575		
18,000.00	7,870.00	17,061.82	7,870.00	149.06	140.78	89.98	-7,013.34	1,822.29	2,359.49	2,080.95	278.53	8.471		
18,100.00	7,870.00	17,161.82	7,870.00	150.63	142.47	89.98	-7,113.34	1,821.95	2,359.49	2,077.58	281.91	8.370		
18,200.00	7,870.00	17,261.82	7,870.00	152.20	144.16	89.98	-7,213.34	1,821.61	2,359.49	2,074.20	285.29	8.270		
18,300.00	7,870.00	17,361.82	7,870.00	153.77	145.85	89.98	-7,313.34	1,821.27	2,359.49	2,070.82	288.67	8.174		
18,400.00	7,870.00	17,461.82	7,870.00	155.35	147.55	89.98	-7,413.34	1,820.93	2,359.50	2,067.43	292.06	8.079		
18,500.00	7,870.00	17,561.82	7,870.00	156.93	149.24	89.98	-7,513.34	1,820.59	2,359.50	2,064.04	295.45	7.986		
18,600.00	7,870.00	17,661.82	7,870.00	158.52	150.94	89.98	-7,613.34	1,820.25	2,359.50	2,060.65	298.85	7.895		
18,700.00	7,870.00	17,761.82	7,870.00	160.11	152.64	89.98	-7,713.34	1,819.91	2,359.50	2,057.26	302.25	7.807		
18,800.00	7,870.00	17,861.82	7,870.00	161.71	154.34	89.98	-7,813.34	1,819.57	2,359.51	2,053.86	305.65	7.720		
18,900.00	7,870.00	17,961.82	7,870.00	163.31	156.04	89.98	-7,913.34	1,819.23	2,359.51	2,050.46	309.05	7.635		
19,000.00	7,870.00	18,061.82	7,870.00	164.91	157.74	89.98	-8,013.34	1,818.89	2,359.51	2,047.05	312.46	7.551		
19,100.00	7,870.00	18,161.82	7,870.00	166.52	159.44	89.98	-8,113.34	1,818.55	2,359.51	2,043.65	315.87	7.470		
19,200.00	7,870.00	18,261.82	7,870.00	168.13	161.15	89.98	-8,213.34	1,818.21	2,359.52	2,040.24	319.28	7.390		
19,300.00	7,870.00	18,361.82	7,870.00	169.75	162.86	89.98	-8,313.34	1,817.87	2,359.52	2,036.82	322.69	7.312		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	18,445.33	7,870.00	171.10	164.28	89.98	-8,396.84	1,817.59	2,359.52	2,033.97	325.55	7.248 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	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		
200.00	200.00	201.00	201.00	0.49	0.50	-89.65	0.36	-59.92	59.92	58.93	0.99	60.565		
300.00	300.00	301.00	301.00	0.85	0.85	-89.65	0.36	-59.92	59.92	58.22	1.71	35.117		
400.00	400.00	401.00	401.00	1.21	1.21	-89.65	0.36	-59.92	59.92	57.50	2.42	24.728		
500.00	500.00	501.00	501.00	1.57	1.57	-89.65	0.36	-59.92	59.92	56.78	3.14	19.082		
600.00	600.00	601.00	601.00	1.93	1.93	-89.65	0.36	-59.92	59.92	56.06	3.86	15.535 CC, ES		
700.00	699.98	700.98	700.98	2.28	2.29	-154.18	0.36	-59.92	61.49	56.92	4.57	13.456		
800.00	799.84	800.84	800.84	2.64	2.65	-156.12	0.36	-59.92	66.24	60.96	5.28	12.544		
900.00	899.45	900.45	900.45	3.00	3.00	-158.78	0.36	-59.92	74.29	68.30	5.99	12.395		
1,000.00	998.70	1,000.30	999.70	3.37	3.36	-161.65	0.36	-59.92	85.77	79.06	6.71	12.781		
1,100.00	1,097.47	1,101.53	1,098.47	3.76	3.72	-164.37	0.36	-59.92	100.75	93.32	7.44	13.550		
1,200.00	1,195.62	1,196.62	1,196.62	4.18	4.07	-166.75	0.36	-59.92	119.26	111.12	8.14	14.649		
1,300.00	1,293.06	1,298.31	1,298.29	4.63	4.43	-168.51	1.51	-58.68	139.84	130.97	8.87	15.771		
1,400.00	1,389.64	1,400.84	1,400.68	5.11	4.79	-169.45	5.15	-54.76	160.77	151.17	9.59	16.759		
1,500.00	1,485.27	1,504.08	1,503.51	5.63	5.16	-169.83	11.34	-48.11	181.94	171.62	10.32	17.625		
1,600.00	1,579.82	1,608.02	1,606.65	6.20	5.54	-169.82	20.10	-38.66	203.32	192.26	11.06	18.386		
1,700.00	1,673.17	1,712.67	1,709.93	6.83	5.94	-169.53	31.49	-26.40	224.87	213.07	11.80	19.051		
1,800.00	1,765.21	1,818.00	1,813.22	7.51	6.35	-169.02	45.55	-11.26	246.59	234.03	12.56	19.630		
1,900.00	1,855.84	1,924.02	1,916.33	8.24	6.80	-168.34	62.29	6.77	268.46	255.12	13.34	20.128		
2,000.00	1,944.94	2,030.71	2,019.12	9.05	7.28	-167.54	81.75	27.72	290.48	276.35	14.14	20.547		
2,100.00	2,032.39	2,138.07	2,121.39	9.91	7.80	-166.63	103.94	51.62	312.67	297.70	14.97	20.887		
2,200.00	2,118.11	2,246.08	2,222.99	10.85	8.37	-165.63	128.89	78.49	335.01	319.17	15.84	21.148		
2,300.00	2,201.97	2,354.74	2,323.73	11.85	9.00	-164.56	156.59	108.32	357.52	340.75	16.76	21.326		
2,400.00	2,283.88	2,464.04	2,423.42	12.93	9.69	-163.43	187.06	141.14	380.19	362.44	17.75	21.419		
2,429.47	2,307.63	2,496.37	2,452.58	13.26	9.90	-163.08	196.57	151.38	386.91	368.86	18.05	21.432		
2,500.00	2,364.26	2,574.14	2,522.05	14.06	10.44	-162.30	220.35	176.99	402.24	383.43	18.81	21.385		
2,600.00	2,444.56	2,672.52	2,609.22	15.22	11.16	-161.28	251.37	210.39	422.78	402.81	19.96	21.179		
2,700.00	2,524.85	2,770.13	2,695.72	16.39	11.90	-160.37	282.16	243.55	443.42	422.26	21.16	20.959		
2,800.00	2,605.14	2,867.74	2,782.21	17.57	12.66	-159.53	312.94	276.70	464.17	441.78	22.39	20.732		
2,900.00	2,685.43	2,965.35	2,868.70	18.76	13.43	-158.77	343.73	309.85	485.00	461.34	23.65	20.504		
3,000.00	2,765.73	3,062.96	2,955.19	19.96	14.22	-158.07	374.51	343.00	505.90	480.95	24.95	20.278		
3,100.00	2,846.02	3,160.57	3,041.69	21.16	15.01	-157.42	405.29	376.16	526.88	500.61	26.27	20.056		
3,200.00	2,926.31	3,258.18	3,128.18	22.37	15.82	-156.83	436.08	409.31	547.91	520.29	27.62	19.841		
3,300.00	3,006.60	3,355.79	3,214.67	23.59	16.63	-156.28	466.86	442.46	569.00	540.01	28.98	19.633		
3,400.00	3,086.90	3,453.40	3,301.16	24.81	17.45	-155.76	497.65	475.61	590.13	559.76	30.37	19.433		
3,500.00	3,167.19	3,551.01	3,387.66	26.03	18.28	-155.29	528.43	508.77	611.30	579.53	31.77	19.242		
3,600.00	3,247.48	3,648.62	3,474.15	27.25	19.11	-154.84	559.22	541.92	632.51	599.33	33.19	19.059		
3,700.00	3,327.77	3,746.23	3,560.64	28.48	19.94	-154.43	590.00	575.07	653.76	619.14	34.62	18.885		
3,800.00	3,408.07	3,843.84	3,647.13	29.71	20.78	-154.04	620.79	608.22	675.04	638.98	36.06	18.720		
3,900.00	3,488.36	3,941.45	3,733.63	30.94	21.62	-153.67	651.57	641.38	696.34	658.83	37.51	18.562		
4,000.00	3,568.65	4,039.06	3,820.12	32.17	22.47	-153.33	682.35	674.53	717.67	678.69	38.98	18.412		
4,100.00	3,648.95	4,136.67	3,906.61	33.41	23.32	-153.00	713.14	707.68	739.03	698.58	40.45	18.269		
4,200.00	3,729.24	4,234.28	3,993.10	34.64	24.17	-152.69	743.92	740.83	760.40	718.47	41.94	18.133		
4,300.00	3,809.53	4,331.89	4,079.60	35.88	25.02	-152.40	774.71	773.99	781.80	738.38	43.43	18.003		
4,400.00	3,889.82	4,429.50	4,166.09	37.12	25.87	-152.13	805.49	807.14	803.21	758.29	44.92	17.880		
4,500.00	3,970.12	4,527.11	4,252.58	38.36	26.73	-151.87	836.28	840.29	824.64	778.22	46.42	17.763		
4,600.00	4,050.41	4,624.72	4,339.07	39.60	27.59	-151.62	867.06	873.44	846.09	798.16	47.93	17.651		
4,700.00	4,130.70	4,722.33	4,425.57	40.84	28.45	-151.39	897.85	906.60	867.55	818.10	49.45	17.545		
4,800.00	4,210.99	4,819.94	4,512.06	42.08	29.31	-151.17	928.63	939.75	889.02	838.05	50.97	17.443		
4,900.00	4,291.29	4,917.55	4,598.55	43.32	30.17	-150.95	959.41	972.90	910.51	858.02	52.49	17.346		
5,000.00	4,371.58	5,015.16	4,685.04	44.57	31.03	-150.75	990.20	1,006.05	932.00	877.98	54.02	17.253		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,112.77	4,771.53	45.81	31.90	-150.56	1,020.98	1,039.21	953.51	897.96	55.55	17.164		
5,200.00	4,532.16	5,210.38	4,858.03	47.05	32.76	-150.37	1,051.77	1,072.36	975.03	917.94	57.09	17.079		
5,300.00	4,612.46	5,307.99	4,944.52	48.30	33.63	-150.19	1,082.55	1,105.51	996.56	937.93	58.63	16.998		
5,400.00	4,692.75	5,405.60	5,031.01	49.54	34.50	-150.02	1,113.34	1,138.66	1,018.09	957.92	60.17	16.920		
5,500.00	4,773.04	5,503.21	5,117.50	50.79	35.36	-149.86	1,144.12	1,171.82	1,039.64	977.92	61.72	16.846		
5,600.00	4,853.34	5,600.82	5,204.00	52.03	36.23	-149.70	1,174.91	1,204.97	1,061.19	997.92	63.26	16.774		
5,700.00	4,933.63	5,701.57	5,290.49	53.28	37.13	-149.55	1,205.69	1,238.12	1,082.75	1,017.91	64.84	16.700		
5,800.00	5,013.92	5,803.96	5,376.98	54.53	38.04	-149.41	1,236.47	1,271.27	1,104.31	1,037.89	66.42	16.625		
5,900.00	5,094.21	5,906.35	5,463.47	55.77	38.96	-149.27	1,267.26	1,304.43	1,125.88	1,057.87	68.01	16.554		
6,000.00	5,174.51	6,008.74	5,549.97	57.02	39.87	-149.14	1,298.04	1,337.58	1,147.46	1,077.86	69.61	16.485		
6,100.00	5,254.80	6,088.87	5,636.46	58.27	40.58	-149.01	1,328.83	1,370.73	1,169.05	1,098.00	71.04	16.456		
6,200.00	5,335.09	6,186.48	5,722.95	59.52	41.46	-148.89	1,359.61	1,403.88	1,190.63	1,118.03	72.60	16.399		
6,300.00	5,415.38	6,284.09	5,809.44	60.76	42.33	-148.77	1,390.40	1,437.04	1,212.23	1,138.06	74.17	16.345		
6,400.00	5,495.68	6,381.70	5,895.94	62.01	43.20	-148.65	1,421.18	1,470.19	1,233.83	1,158.10	75.73	16.292		
6,500.00	5,575.97	6,479.31	5,982.43	63.26	44.07	-148.54	1,451.97	1,503.34	1,255.43	1,178.13	77.30	16.241		
6,600.00	5,656.26	6,576.92	6,068.92	64.51	44.95	-148.43	1,482.75	1,536.49	1,277.04	1,198.17	78.87	16.192		
6,700.00	5,736.55	6,674.53	6,155.41	65.76	45.82	-148.33	1,513.53	1,569.64	1,298.65	1,218.22	80.44	16.145		
6,800.00	5,816.85	6,772.14	6,241.91	67.01	46.69	-148.23	1,544.32	1,602.80	1,320.27	1,238.26	82.01	16.099		
6,900.00	5,897.14	6,869.75	6,328.40	68.26	47.57	-148.13	1,575.10	1,635.95	1,341.89	1,258.31	83.58	16.055		
7,000.00	5,977.43	6,967.36	6,414.89	69.50	48.44	-148.04	1,605.89	1,669.10	1,363.51	1,278.36	85.15	16.013		
7,100.00	6,057.72	7,064.97	6,501.38	70.75	49.32	-147.94	1,636.67	1,702.25	1,385.14	1,298.41	86.73	15.971		
7,200.00	6,138.02	7,162.58	6,587.88	72.00	50.19	-147.86	1,667.46	1,735.41	1,406.77	1,318.46	88.30	15.931		
7,300.00	6,218.31	7,260.19	6,674.37	73.25	51.07	-147.77	1,698.24	1,768.56	1,428.40	1,338.52	89.88	15.892		
7,400.00	6,298.60	7,357.80	6,760.86	74.50	51.94	-147.69	1,729.03	1,801.71	1,450.04	1,358.58	91.46	15.855		
7,500.00	6,378.90	7,455.41	6,847.35	75.75	52.82	-147.61	1,759.81	1,834.86	1,471.68	1,378.64	93.04	15.818		
7,600.00	6,459.19	7,553.02	6,933.85	77.00	53.69	-147.53	1,790.59	1,868.02	1,493.32	1,398.70	94.62	15.783		
7,700.00	6,539.48	7,650.63	7,020.34	78.25	54.57	-147.45	1,821.38	1,901.17	1,514.96	1,418.76	96.20	15.748		
7,800.00	6,619.77	7,739.31	7,105.44	79.50	55.70	-147.96	1,850.50	1,950.98	1,535.24	1,437.77	97.47	15.751		
7,900.00	6,700.07	7,826.02	7,191.07	80.75	56.40	-149.57	1,845.98	1,998.20	1,553.06	1,456.13	96.93	16.023		
8,000.00	6,780.36	8,036.11	7,277.68	82.00	56.71	-151.65	1,819.22	2,036.17	1,570.14	1,474.73	95.41	16.457		
8,100.00	6,860.65	8,122.86	7,364.72	83.25	56.80	-153.71	1,784.06	2,064.34	1,588.37	1,494.71	93.66	16.959		
8,200.00	6,940.94	8,190.11	7,451.22	84.50	56.77	-155.52	1,748.80	2,084.66	1,609.23	1,517.21	92.02	17.488		
8,300.00	7,021.24	8,242.44	7,539.96	85.76	56.71	-157.04	1,716.88	2,099.35	1,633.69	1,543.15	90.54	18.044		
8,400.00	7,101.53	8,283.67	7,628.48	87.01	56.62	-158.30	1,689.14	2,110.15	1,662.26	1,573.08	89.18	18.640		
8,500.00	7,181.82	8,316.68	7,718.92	88.26	56.54	-159.34	1,665.39	2,118.27	1,695.18	1,607.30	87.88	19.289		
8,605.60	7,266.61	8,350.00	7,810.24	89.58	56.45	-160.41	1,640.13	2,125.94	1,734.73	1,648.33	86.40	20.079		
8,650.00	7,302.60	8,350.00	7,810.24	90.13	56.45	-168.20	1,640.13	2,125.94	1,752.72	1,666.55	86.17	20.340		
8,700.00	7,343.78	8,369.66	7,821.56	90.72	56.38	-178.18	1,624.65	2,130.22	1,773.63	1,688.22	85.41	20.765		
8,750.00	7,385.32	8,384.19	7,829.62	91.28	56.34	-171.63	1,612.94	2,133.25	1,795.03	1,710.16	84.87	21.151		
8,800.00	7,426.92	8,400.00	7,838.06	91.81	56.28	-161.36	1,599.96	2,136.44	1,816.67	1,732.31	84.35	21.537		
8,850.00	7,468.27	8,415.56	7,846.05	92.29	56.22	-151.40	1,586.94	2,139.44	1,838.31	1,754.40	83.91	21.909		
8,900.00	7,509.04	8,432.20	7,854.21	92.72	56.16	-142.01	1,572.77	2,142.51	1,859.74	1,776.24	83.49	22.274		
8,950.00	7,548.93	8,450.00	7,862.52	93.10	56.09	-133.37	1,557.34	2,145.63	1,880.74	1,797.62	83.11	22.629		
9,000.00	7,587.63	8,466.98	7,870.02	93.43	56.02	-125.63	1,542.38	2,148.45	1,901.11	1,818.29	82.82	22.955		
9,050.00	7,624.85	8,484.99	7,877.52	93.71	55.94	-118.75	1,526.25	2,151.26	1,920.68	1,838.11	82.56	23.263		
9,100.00	7,660.30	8,500.00	7,883.41	93.93	55.88	-112.77	1,512.62	2,153.47	1,939.27	1,856.80	82.47	23.516		
9,150.00	7,693.72	8,522.02	7,891.44	94.10	55.77	-107.49	1,492.34	2,156.46	1,956.72	1,874.49	82.23	23.796		
9,200.00	7,724.85	8,550.00	7,900.59	94.23	55.64	-102.88	1,466.12	2,159.87	1,972.94	1,891.07	81.87	24.098		
9,250.00	7,753.45	8,550.00	7,900.59	94.30	55.64	-99.20	1,466.12	2,159.87	1,987.72	1,905.24	82.49	24.097		
9,300.00	7,779.31	8,579.46	7,908.91	94.34	55.50	-95.84	1,438.03	2,162.95	2,000.92	1,918.69	82.22	24.335		
9,350.00	7,802.23	8,600.00	7,913.91	94.33	55.39	-93.10	1,418.19	2,164.80	2,012.55	1,930.22	82.33	24.445		
9,400.00	7,822.03	8,618.64	7,917.88	94.28	55.30	-90.87	1,400.04	2,166.25	2,022.48	1,939.90	82.58	24.492		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,650.00	7,723.29	94.20	55.14	89.04	1,369.22	2,168.21	2,030.72	1,948.27	82.45	24.630		
9,500.00	7,851.72	8,650.00	7,723.29	94.10	55.14	87.75	1,369.22	2,168.21	2,037.01	1,953.47	83.54	24.385		
9,550.00	7,861.37	8,678.19	7,726.80	93.96	54.98	86.78	1,341.28	2,169.46	2,041.41	1,957.74	83.67	24.399		
9,600.00	7,867.46	8,700.00	7,728.64	93.81	54.87	86.21	1,319.55	2,170.09	2,043.96	1,959.86	84.10	24.303		
9,650.00	7,869.94	8,718.13	7,729.58	93.64	54.77	86.03	1,301.46	2,170.39	2,044.57	1,959.83	84.75	24.125		
9,659.14	7,870.00	8,721.78	7,729.70	93.60	54.75	86.04	1,297.81	2,170.42	2,044.48	1,959.62	84.86	24.093		
9,700.00	7,870.00	8,740.83	7,730.00	93.46	54.65	86.04	1,278.76	2,170.47	2,044.16	1,958.91	85.25	23.978		
9,700.88	7,870.00	8,746.74	7,730.00	93.45	54.62	86.04	1,284.67	2,170.49	2,044.15	1,958.70	85.44	23.924		
9,800.00	7,870.00	8,834.04	7,730.00	93.11	54.15	86.04	1,185.55	2,170.15	2,044.15	1,959.75	84.41	24.218		
9,900.00	7,870.00	8,934.04	7,730.00	92.77	53.65	86.04	1,085.55	2,169.81	2,044.15	1,960.74	83.41	24.506		
10,000.00	7,870.00	9,034.04	7,730.00	92.46	53.17	86.04	985.55	2,169.47	2,044.16	1,961.59	82.56	24.758		
10,100.00	7,870.00	9,134.04	7,730.00	92.16	52.72	86.04	885.55	2,169.13	2,044.16	1,962.30	81.86	24.972		
10,200.00	7,870.00	9,234.04	7,730.00	91.87	52.30	86.04	785.55	2,168.79	2,044.17	1,962.87	81.30	25.144		
10,300.00	7,870.00	9,334.04	7,730.00	91.60	51.90	86.04	685.55	2,168.44	2,044.17	1,963.28	80.89	25.271		
10,400.00	7,870.00	9,434.04	7,730.00	91.34	51.52	86.04	585.55	2,168.10	2,044.17	1,963.54	80.64	25.351		
10,500.00	7,870.00	9,534.04	7,730.00	91.11	51.17	86.04	485.55	2,167.76	2,044.18	1,963.64	80.54	25.382		
10,600.00	7,870.00	9,634.04	7,730.00	90.88	50.84	86.04	385.55	2,167.42	2,044.18	1,963.59	80.59	25.365		
10,700.00	7,870.00	9,734.04	7,730.00	90.67	50.54	86.04	285.56	2,167.08	2,044.19	1,963.38	80.80	25.299		
10,800.00	7,870.00	9,834.04	7,730.00	90.48	50.26	86.04	185.56	2,166.74	2,044.19	1,963.03	81.16	25.186		
10,900.00	7,870.00	9,934.04	7,730.00	90.31	50.01	86.04	85.56	2,166.40	2,044.19	1,962.52	81.68	25.028		
11,000.00	7,870.00	10,034.04	7,730.00	90.15	49.78	86.04	-14.44	2,166.06	2,044.20	1,961.86	82.34	24.826		
11,100.00	7,870.00	10,134.04	7,730.00	90.00	49.59	86.04	-114.44	2,165.72	2,044.20	1,961.05	83.15	24.585		
11,200.00	7,870.00	10,234.04	7,730.00	89.88	49.43	86.04	-214.44	2,165.37	2,044.20	1,960.11	84.10	24.308		
11,300.00	7,870.00	10,334.04	7,730.00	89.77	49.31	86.04	-314.44	2,165.03	2,044.21	1,959.03	85.18	23.999		
11,400.00	7,870.00	10,434.04	7,730.00	89.68	49.25	86.04	-414.44	2,164.69	2,044.21	1,957.82	86.39	23.662		
11,500.00	7,870.00	10,534.04	7,730.00	89.60	49.26	86.04	-514.44	2,164.35	2,044.22	1,956.48	87.73	23.300		
11,600.00	7,870.00	10,634.04	7,730.00	89.55	49.37	86.04	-614.44	2,164.01	2,044.22	1,955.03	89.19	22.919		
11,700.00	7,870.00	10,734.04	7,730.00	89.52	49.59	86.04	-714.44	2,163.67	2,044.22	1,953.46	90.76	22.523		
11,800.00	7,870.00	10,834.04	7,730.00	89.50	49.97	86.04	-814.44	2,163.33	2,044.23	1,951.78	92.44	22.113		
11,900.00	7,870.00	10,934.04	7,730.00	89.51	50.51	86.04	-914.44	2,162.99	2,044.23	1,950.01	94.22	21.695		
12,000.00	7,870.00	11,034.04	7,730.00	89.54	51.21	86.04	-1,014.44	2,162.64	2,044.24	1,948.13	96.10	21.272		
12,100.00	7,870.00	11,134.04	7,730.00	89.59	52.05	86.04	-1,114.44	2,162.30	2,044.24	1,946.17	98.07	20.845		
12,200.00	7,870.00	11,234.04	7,730.00	89.66	52.99	86.04	-1,214.44	2,161.96	2,044.24	1,944.12	100.12	20.417		
12,300.00	7,870.00	11,334.04	7,730.00	89.77	54.03	86.04	-1,314.44	2,161.62	2,044.25	1,941.99	102.26	19.991		
12,400.00	7,870.00	11,434.04	7,730.00	89.89	55.13	86.04	-1,414.43	2,161.28	2,044.25	1,939.78	104.47	19.568		
12,500.00	7,870.00	11,534.04	7,730.00	90.05	56.29	86.04	-1,514.43	2,160.94	2,044.25	1,937.51	106.75	19.151		
12,600.00	7,870.00	11,634.04	7,730.00	90.24	57.48	86.04	-1,614.43	2,160.60	2,044.26	1,935.17	109.09	18.739		
12,700.00	7,870.00	11,734.04	7,730.00	90.46	58.72	86.04	-1,714.43	2,160.26	2,044.26	1,932.76	111.50	18.334		
12,800.00	7,870.00	11,834.04	7,730.00	90.71	59.99	86.04	-1,814.43	2,159.92	2,044.27	1,930.30	113.97	17.938		
12,900.00	7,870.00	11,934.04	7,730.00	90.99	61.29	86.04	-1,914.43	2,159.57	2,044.27	1,927.78	116.49	17.549		
13,000.00	7,870.00	12,034.04	7,730.00	91.32	62.61	86.04	-2,014.43	2,159.23	2,044.27	1,925.22	119.06	17.170		
13,100.00	7,870.00	12,134.04	7,730.00	91.68	63.95	86.04	-2,114.43	2,158.89	2,044.28	1,922.60	121.68	16.801		
13,200.00	7,870.00	12,234.04	7,730.00	92.08	65.31	86.05	-2,214.43	2,158.55	2,044.28	1,919.94	124.34	16.441		
13,300.00	7,870.00	12,334.04	7,730.00	92.52	66.70	86.05	-2,314.43	2,158.21	2,044.29	1,917.24	127.05	16.091		
13,400.00	7,870.00	12,434.04	7,730.00	93.00	68.10	86.05	-2,414.43	2,157.87	2,044.29	1,914.50	129.79	15.750		
13,500.00	7,870.00	12,534.04	7,730.00	93.53	69.51	86.05	-2,514.43	2,157.53	2,044.29	1,911.72	132.57	15.420		
13,600.00	7,870.00	12,634.04	7,730.00	94.10	70.94	86.05	-2,614.43	2,157.19	2,044.30	1,908.91	135.39	15.099		
13,700.00	7,870.00	12,734.04	7,730.00	94.72	72.39	86.05	-2,714.43	2,156.84	2,044.30	1,906.06	138.24	14.788		
13,800.00	7,870.00	12,834.04	7,730.00	95.38	73.85	86.05	-2,814.43	2,156.50	2,044.30	1,903.18	141.12	14.486		
13,900.00	7,870.00	12,934.04	7,730.00	96.09	75.32	86.05	-2,914.43	2,156.16	2,044.31	1,900.28	144.03	14.194		
14,000.00	7,870.00	13,034.04	7,730.00	96.84	76.80	86.05	-3,014.43	2,155.82	2,044.31	1,897.35	146.96	13.910		
14,100.00	7,870.00	13,134.04	7,730.00	97.64	78.29	86.05	-3,114.42	2,155.48	2,044.32	1,894.39	149.93	13.636		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	13,234.04	7,730.00	98.48	79.79	86.05	-3,214.42	2,155.14	2,044.32	1,891.41	152.91	13.369		
14,300.00	7,870.00	13,334.04	7,730.00	99.37	81.31	86.05	-3,314.42	2,154.80	2,044.32	1,888.41	155.92	13.112		
14,400.00	7,870.00	13,434.04	7,730.00	100.30	82.83	86.05	-3,414.42	2,154.46	2,044.33	1,885.38	158.95	12.862		
14,500.00	7,870.00	13,534.04	7,730.00	101.26	84.36	86.05	-3,514.42	2,154.11	2,044.33	1,882.34	162.00	12.620		
14,600.00	7,870.00	13,634.04	7,730.00	102.27	85.90	86.05	-3,614.42	2,153.77	2,044.34	1,879.27	165.06	12.385		
14,700.00	7,870.00	13,734.04	7,730.00	103.31	87.44	86.05	-3,714.42	2,153.43	2,044.34	1,876.19	168.15	12.158		
14,800.00	7,870.00	13,834.04	7,730.00	104.38	89.00	86.05	-3,814.42	2,153.09	2,044.34	1,873.09	171.25	11.938		
14,900.00	7,870.00	13,934.04	7,730.00	105.49	90.56	86.05	-3,914.42	2,152.75	2,044.35	1,869.97	174.37	11.724		
15,000.00	7,870.00	14,034.04	7,730.00	106.63	92.13	86.05	-4,014.42	2,152.41	2,044.35	1,866.84	177.51	11.517		
15,100.00	7,870.00	14,134.04	7,730.00	107.80	93.70	86.05	-4,114.42	2,152.07	2,044.35	1,863.70	180.66	11.316		
15,200.00	7,870.00	14,234.04	7,730.00	109.00	95.28	86.05	-4,214.42	2,151.73	2,044.36	1,860.54	183.82	11.122		
15,300.00	7,870.00	14,334.04	7,730.00	110.22	96.87	86.05	-4,314.42	2,151.39	2,044.36	1,857.37	186.99	10.933		
15,400.00	7,870.00	14,434.04	7,730.00	111.47	98.46	86.05	-4,414.42	2,151.04	2,044.37	1,854.18	190.18	10.749		
15,500.00	7,870.00	14,534.04	7,730.00	112.74	100.06	86.05	-4,514.42	2,150.70	2,044.37	1,850.99	193.38	10.572		
15,600.00	7,870.00	14,634.04	7,730.00	114.03	101.66	86.05	-4,614.42	2,150.36	2,044.37	1,847.78	196.59	10.399		
15,700.00	7,870.00	14,734.04	7,730.00	115.34	103.26	86.05	-4,714.42	2,150.02	2,044.38	1,844.56	199.82	10.231		
15,800.00	7,870.00	14,834.04	7,730.00	116.68	104.88	86.05	-4,814.42	2,149.68	2,044.38	1,841.33	203.05	10.068		
15,900.00	7,870.00	14,934.04	7,730.00	118.02	106.49	86.05	-4,914.41	2,149.34	2,044.39	1,838.10	206.29	9.910		
16,000.00	7,870.00	15,034.04	7,730.00	119.39	108.11	86.05	-5,014.41	2,149.00	2,044.39	1,834.85	209.54	9.757		
16,100.00	7,870.00	15,134.04	7,730.00	120.77	109.74	86.05	-5,114.41	2,148.66	2,044.39	1,831.59	212.80	9.607		
16,200.00	7,870.00	15,234.04	7,730.00	122.17	111.37	86.05	-5,214.41	2,148.31	2,044.40	1,828.33	216.07	9.462		
16,300.00	7,870.00	15,334.04	7,730.00	123.58	113.00	86.05	-5,314.41	2,147.97	2,044.40	1,825.06	219.34	9.321		
16,400.00	7,870.00	15,434.04	7,730.00	125.00	114.63	86.05	-5,414.41	2,147.63	2,044.40	1,821.78	222.63	9.183		
16,500.00	7,870.00	15,534.04	7,730.00	126.43	116.27	86.05	-5,514.41	2,147.29	2,044.41	1,818.49	225.92	9.049		
16,600.00	7,870.00	15,634.04	7,730.00	127.88	117.92	86.05	-5,614.41	2,146.95	2,044.41	1,815.19	229.22	8.919		
16,700.00	7,870.00	15,734.04	7,730.00	129.34	119.56	86.05	-5,714.41	2,146.61	2,044.42	1,811.89	232.52	8.792		
16,800.00	7,870.00	15,834.04	7,730.00	130.81	121.21	86.05	-5,814.41	2,146.27	2,044.42	1,808.59	235.83	8.669		
16,900.00	7,870.00	15,934.04	7,730.00	132.28	122.86	86.05	-5,914.41	2,145.93	2,044.42	1,805.27	239.15	8.549		
17,000.00	7,870.00	16,034.04	7,730.00	133.77	124.52	86.05	-6,014.41	2,145.59	2,044.43	1,801.95	242.47	8.432		
17,100.00	7,870.00	16,134.04	7,730.00	135.27	126.18	86.05	-6,114.41	2,145.24	2,044.43	1,798.63	245.80	8.317		
17,200.00	7,870.00	16,234.04	7,730.00	136.77	127.84	86.05	-6,214.41	2,144.90	2,044.44	1,795.30	249.14	8.206		
17,300.00	7,870.00	16,334.04	7,730.00	138.28	129.50	86.05	-6,314.41	2,144.56	2,044.44	1,791.96	252.48	8.097		
17,400.00	7,870.00	16,434.04	7,730.00	139.80	131.17	86.05	-6,414.41	2,144.22	2,044.44	1,788.62	255.82	7.992		
17,500.00	7,870.00	16,534.04	7,730.00	141.33	132.84	86.05	-6,514.41	2,143.88	2,044.45	1,785.27	259.17	7.888		
17,600.00	7,870.00	16,634.04	7,730.00	142.86	134.51	86.05	-6,614.40	2,143.54	2,044.45	1,781.92	262.53	7.788		
17,700.00	7,870.00	16,734.04	7,730.00	144.40	136.18	86.05	-6,714.40	2,143.20	2,044.45	1,778.57	265.89	7.689		
17,800.00	7,870.00	16,834.04	7,730.00	145.95	137.85	86.05	-6,814.40	2,142.86	2,044.46	1,775.21	269.25	7.593		
17,900.00	7,870.00	16,934.04	7,730.00	147.50	139.53	86.05	-6,914.40	2,142.51	2,044.46	1,771.85	272.62	7.499		
18,000.00	7,870.00	17,034.04	7,730.00	149.06	141.21	86.05	-7,014.40	2,142.17	2,044.47	1,768.48	275.99	7.408		
18,100.00	7,870.00	17,134.04	7,730.00	150.63	142.89	86.05	-7,114.40	2,141.83	2,044.47	1,765.11	279.36	7.318		
18,200.00	7,870.00	17,234.04	7,730.00	152.20	144.57	86.05	-7,214.40	2,141.49	2,044.47	1,761.73	282.74	7.231		
18,300.00	7,870.00	17,334.04	7,730.00	153.77	146.26	86.05	-7,314.40	2,141.15	2,044.48	1,758.35	286.12	7.145		
18,400.00	7,870.00	17,434.04	7,730.00	155.35	147.95	86.05	-7,414.40	2,140.81	2,044.48	1,754.97	289.51	7.062		
18,500.00	7,870.00	17,534.04	7,730.00	156.93	149.63	86.05	-7,514.40	2,140.47	2,044.49	1,751.59	292.90	6.980		
18,600.00	7,870.00	17,634.04	7,730.00	158.52	151.32	86.05	-7,614.40	2,140.13	2,044.49	1,748.20	296.29	6.900		
18,700.00	7,870.00	17,734.04	7,730.00	160.11	153.02	86.05	-7,714.40	2,139.79	2,044.49	1,744.81	299.69	6.822		
18,800.00	7,870.00	17,834.04	7,730.00	161.71	154.71	86.05	-7,814.40	2,139.44	2,044.50	1,741.41	303.09	6.746		
18,900.00	7,870.00	17,934.04	7,730.00	163.31	156.40	86.05	-7,914.40	2,139.10	2,044.50	1,738.01	306.49	6.671		
19,000.00	7,870.00	18,034.04	7,730.00	164.91	158.10	86.05	-8,014.40	2,138.76	2,044.50	1,734.61	309.89	6.597		
19,100.00	7,870.00	18,134.04	7,730.00	166.52	159.80	86.05	-8,114.40	2,138.42	2,044.51	1,731.21	313.30	6.526		
19,200.00	7,870.00	18,234.04	7,730.00	168.13	161.50	86.05	-8,214.40	2,138.08	2,044.51	1,727.80	316.71	6.455		
19,300.00	7,870.00	18,334.04	7,730.00	169.75	163.20	86.05	-8,314.39	2,137.74	2,044.52	1,724.39	320.12	6.387		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	18,417.55	7,730.00	171.10	164.62	86.05	-8,397.90	2,137.45	2,044.52	1,721.55	322.97	6.330 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	1.00	0.00	0.00	-89.58	0.36	-49.84	49.84					
100.00	100.00	101.00	101.00	0.13	0.14	-89.58	0.36	-49.84	49.84	49.57	0.27	182.947		
200.00	200.00	201.00	201.00	0.49	0.50	-89.58	0.36	-49.84	49.84	48.85	0.99	50.377		
300.00	300.00	301.00	301.00	0.85	0.85	-89.58	0.36	-49.84	49.84	48.14	1.71	29.210		
400.00	400.00	401.00	401.00	1.21	1.21	-89.58	0.36	-49.84	49.84	47.42	2.42	20.568		
500.00	500.00	501.00	501.00	1.57	1.57	-89.58	0.36	-49.84	49.84	46.70	3.14	15.872		
600.00	600.00	601.00	601.00	1.93	1.93	-89.58	0.36	-49.84	49.84	45.98	3.86	12.922 CC, ES		
700.00	699.98	700.98	700.98	2.28	2.29	-154.26	0.36	-49.84	51.41	46.84	4.57	11.250		
800.00	799.84	800.84	800.84	2.64	2.65	-156.54	0.36	-49.84	56.17	50.89	5.28	10.637		
900.00	899.45	900.45	900.45	3.00	3.00	-159.58	0.36	-49.84	64.26	58.27	5.99	10.720		
1,000.00	998.70	1,000.30	999.70	3.37	3.36	-162.72	0.36	-49.84	75.81	69.09	6.71	11.295		
1,100.00	1,097.47	1,098.47	1,098.47	3.76	3.71	-165.57	0.36	-49.84	90.87	83.45	7.42	12.239		
1,200.00	1,195.62	1,200.06	1,200.04	4.18	4.08	-167.67	1.46	-48.48	107.93	99.79	8.15	13.251		
1,300.00	1,293.06	1,302.32	1,302.15	4.63	4.44	-168.83	4.85	-44.29	125.26	116.40	8.86	14.131		
1,400.00	1,389.64	1,405.18	1,404.60	5.11	4.81	-169.38	10.57	-37.21	142.77	133.18	9.59	14.893		
1,500.00	1,485.27	1,508.65	1,507.27	5.63	5.19	-169.51	18.65	-27.21	160.40	150.09	10.31	15.553		
1,600.00	1,579.82	1,612.73	1,609.99	6.20	5.58	-169.34	29.12	-14.24	178.13	167.08	11.05	16.126		
1,700.00	1,673.17	1,717.41	1,712.64	6.83	6.00	-168.95	42.01	1.71	195.93	184.14	11.79	16.621		
1,800.00	1,765.21	1,822.68	1,815.04	7.51	6.45	-168.39	57.34	20.69	213.81	201.26	12.55	17.042		
1,900.00	1,855.84	1,928.55	1,917.05	8.24	6.93	-167.70	75.13	42.72	231.75	218.42	13.32	17.395		
2,000.00	1,944.94	2,035.01	2,018.50	9.05	7.45	-166.90	95.40	67.80	249.75	235.62	14.13	17.681		
2,100.00	2,032.39	2,142.05	2,119.22	9.91	8.03	-166.01	118.15	95.97	267.81	252.85	14.96	17.899		
2,200.00	2,118.11	2,249.65	2,219.04	10.85	8.66	-165.05	143.39	127.21	285.93	270.09	15.84	18.050		
2,300.00	2,201.97	2,357.83	2,317.80	11.85	9.35	-164.03	171.11	161.53	304.12	287.35	16.77	18.132		
2,400.00	2,283.88	2,466.55	2,415.31	12.93	10.12	-162.95	201.33	198.93	322.37	304.60	17.77	18.143		
2,429.47	2,307.63	2,498.70	2,443.79	13.26	10.35	-162.63	210.70	210.54	327.76	309.68	18.07	18.134		
2,500.00	2,364.26	2,575.96	2,511.53	14.06	10.95	-161.87	234.05	239.44	339.87	321.03	18.84	18.039		
2,600.00	2,444.56	2,676.17	2,598.47	15.22	11.77	-160.81	265.35	278.19	355.52	335.49	20.03	17.746		
2,700.00	2,524.85	2,774.74	2,683.98	16.39	12.59	-159.86	296.17	316.34	371.25	349.97	21.28	17.445		
2,800.00	2,605.14	2,873.31	2,769.49	17.57	13.44	-158.99	326.98	354.49	387.08	364.51	22.57	17.151		
2,900.00	2,685.43	2,971.89	2,855.00	18.76	14.30	-158.18	357.80	392.63	402.98	379.09	23.89	16.866		
3,000.00	2,765.73	3,070.46	2,940.51	19.96	15.18	-157.44	388.62	430.78	418.95	393.70	25.25	16.592		
3,100.00	2,846.02	3,169.04	3,026.02	21.16	16.06	-156.74	419.43	468.93	434.99	408.36	26.64	16.330		
3,200.00	2,926.31	3,267.61	3,111.53	22.37	16.96	-156.10	450.25	507.08	451.09	423.04	28.05	16.081		
3,300.00	3,006.60	3,366.19	3,197.04	23.59	17.86	-155.51	481.06	545.22	467.24	437.75	29.49	15.845		
3,400.00	3,086.90	3,464.76	3,282.55	24.81	18.77	-154.95	511.88	583.37	483.43	452.49	30.95	15.622		
3,500.00	3,167.19	3,563.33	3,368.06	26.03	19.68	-154.43	542.70	621.52	499.67	467.24	32.42	15.411		
3,600.00	3,247.48	3,661.91	3,453.57	27.25	20.60	-153.94	573.51	659.67	515.94	482.02	33.92	15.212		
3,700.00	3,327.77	3,760.48	3,539.09	28.48	21.53	-153.48	604.33	697.81	532.25	496.82	35.43	15.024		
3,800.00	3,408.07	3,859.06	3,624.60	29.71	22.45	-153.05	635.14	735.96	548.59	511.64	36.95	14.846		
3,900.00	3,488.36	3,957.63	3,710.11	30.94	23.38	-152.64	665.96	774.11	564.96	526.47	38.49	14.679		
4,000.00	3,568.65	4,056.21	3,795.62	32.17	24.32	-152.26	696.78	812.26	581.35	541.32	40.04	14.521		
4,100.00	3,648.95	4,154.78	3,881.13	33.41	25.25	-151.90	727.59	850.41	597.77	556.17	41.59	14.371		
4,200.00	3,729.24	4,253.35	3,968.64	34.64	26.19	-151.55	758.41	888.55	614.21	571.05	43.16	14.230		
4,300.00	3,809.53	4,351.93	4,052.15	35.88	27.13	-151.23	789.23	926.70	630.67	585.93	44.74	14.097		
4,400.00	3,889.82	4,450.50	4,137.66	37.12	28.07	-150.92	820.04	964.85	647.15	600.83	46.32	13.970		
4,500.00	3,970.12	4,549.08	4,223.17	38.36	29.02	-150.63	850.86	1,003.00	663.65	615.73	47.92	13.850		
4,600.00	4,050.41	4,647.65	4,308.68	39.60	29.96	-150.35	881.67	1,041.14	680.16	630.64	49.51	13.736		
4,700.00	4,130.70	4,746.23	4,394.19	40.84	30.91	-150.08	912.49	1,079.29	696.69	645.57	51.12	13.628		
4,800.00	4,210.99	4,844.80	4,479.70	42.08	31.86	-149.83	943.31	1,117.44	713.23	660.50	52.73	13.526		
4,900.00	4,291.29	4,943.37	4,565.21	43.32	32.80	-149.59	974.12	1,155.59	729.78	675.44	54.35	13.428		
5,000.00	4,371.58	5,041.95	4,650.72	44.57	33.75	-149.35	1,004.94	1,193.73	746.35	690.38	55.97	13.335		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,140.52	4,736.23	45.81	34.71	-149.13	1,035.75	1,231.88	762.93	705.33	57.59	13.247		
5,200.00	4,532.16	5,239.10	4,821.74	47.05	35.66	-148.92	1,066.57	1,270.03	779.52	720.29	59.22	13.162		
5,300.00	4,612.46	5,337.67	4,907.25	48.30	36.61	-148.72	1,097.39	1,308.18	796.11	735.26	60.86	13.082		
5,400.00	4,692.75	5,436.25	4,992.76	49.54	37.56	-148.52	1,128.20	1,346.32	812.72	750.23	62.50	13.005		
5,500.00	4,773.04	5,534.82	5,078.27	50.79	38.52	-148.34	1,159.02	1,384.47	829.34	765.20	64.14	12.931		
5,600.00	4,853.34	5,633.39	5,163.78	52.03	39.47	-148.16	1,189.83	1,422.62	845.96	780.18	65.78	12.860		
5,700.00	4,933.63	5,731.97	5,249.29	53.28	40.43	-147.98	1,220.65	1,460.77	862.60	795.17	67.43	12.793		
5,800.00	5,013.92	5,830.54	5,334.80	54.53	41.38	-147.82	1,251.47	1,498.92	879.24	810.16	69.08	12.728		
5,900.00	5,094.21	5,929.12	5,420.31	55.77	42.34	-147.66	1,282.28	1,537.06	895.89	825.16	70.73	12.666		
6,000.00	5,174.51	6,027.69	5,505.82	57.02	43.30	-147.50	1,313.10	1,575.21	912.54	840.15	72.39	12.607		
6,100.00	5,254.80	6,126.27	5,591.33	58.27	44.25	-147.35	1,343.91	1,613.36	929.20	855.16	74.04	12.550		
6,200.00	5,335.09	6,224.84	5,676.84	59.52	45.21	-147.21	1,374.73	1,651.51	945.86	870.16	75.70	12.495		
6,300.00	5,415.38	6,323.41	5,762.35	60.76	46.17	-147.07	1,405.55	1,689.65	962.54	885.17	77.36	12.442		
6,400.00	5,495.68	6,421.99	5,847.86	62.01	47.13	-146.94	1,436.36	1,727.80	979.21	900.18	79.03	12.391		
6,500.00	5,575.97	6,520.56	5,933.38	63.26	48.09	-146.81	1,467.18	1,765.95	995.89	915.20	80.69	12.342		
6,600.00	5,656.26	6,619.14	6,018.89	64.51	49.05	-146.68	1,498.00	1,804.10	1,012.58	930.22	82.36	12.295		
6,700.00	5,736.55	6,717.71	6,104.40	65.76	50.01	-146.56	1,528.81	1,842.24	1,029.27	945.24	84.03	12.249		
6,800.00	5,816.85	6,816.29	6,189.91	67.01	50.97	-146.45	1,559.63	1,880.39	1,045.97	960.27	85.70	12.205		
6,900.00	5,897.14	6,914.86	6,275.42	68.26	51.93	-146.33	1,590.44	1,918.54	1,062.67	975.29	87.37	12.163		
7,000.00	5,977.43	7,013.43	6,360.93	69.50	52.89	-146.22	1,621.26	1,956.69	1,079.37	990.32	89.05	12.122		
7,100.00	6,057.72	7,112.01	6,446.44	70.75	53.85	-146.12	1,652.08	1,994.83	1,096.08	1,005.36	90.72	12.082		
7,200.00	6,138.02	7,210.58	6,531.95	72.00	54.81	-146.01	1,682.89	2,032.98	1,112.79	1,020.39	92.40	12.044		
7,300.00	6,218.31	7,309.16	6,617.46	73.25	55.77	-145.91	1,713.71	2,071.13	1,129.50	1,035.43	94.07	12.007		
7,400.00	6,298.60	7,407.73	6,702.97	74.50	56.73	-145.81	1,744.52	2,109.28	1,146.22	1,050.47	95.75	11.971		
7,500.00	6,378.90	7,506.31	6,788.48	75.75	57.69	-145.72	1,775.34	2,147.43	1,162.94	1,065.51	97.43	11.936		
7,600.00	6,459.19	7,604.88	6,873.99	77.00	58.66	-145.63	1,806.16	2,185.57	1,179.66	1,080.55	99.11	11.902		
7,700.00	6,539.48	7,714.86	6,969.62	78.25	59.72	-145.57	1,839.72	2,228.23	1,196.29	1,095.41	100.88	11.859		
7,800.00	6,619.77	7,865.93	7,106.04	79.50	60.94	-146.75	1,859.45	2,288.99	1,209.92	1,108.67	101.25	11.950		
7,900.00	6,700.07	7,998.06	7,225.71	80.75	61.66	-149.21	1,844.22	2,342.18	1,220.49	1,121.09	99.41	12.278		
8,000.00	6,780.36	8,103.83	7,317.25	82.00	61.97	-152.04	1,810.66	2,382.79	1,230.71	1,133.94	96.77	12.718		
8,100.00	6,860.65	8,185.21	7,382.96	83.25	62.06	-154.66	1,772.63	2,411.90	1,243.13	1,148.91	94.22	13.194		
8,200.00	6,940.94	8,247.45	7,429.52	84.50	62.06	-156.89	1,736.89	2,432.50	1,259.55	1,167.57	91.98	13.694		
8,300.00	7,021.24	8,295.52	7,462.91	85.76	62.02	-158.72	1,705.62	2,447.25	1,281.07	1,191.08	89.99	14.235		
8,400.00	7,101.53	8,333.29	7,487.39	87.01	61.95	-160.22	1,678.98	2,458.05	1,308.19	1,220.05	88.14	14.842		
8,500.00	7,181.82	8,363.49	7,505.79	88.26	61.89	-161.45	1,656.44	2,466.16	1,341.07	1,254.73	86.34	15.533		
8,605.60	7,266.61	8,389.32	7,520.64	89.58	61.83	-162.52	1,636.35	2,472.70	1,381.93	1,297.49	84.44	16.366		
8,650.00	7,302.60	8,400.00	7,526.53	90.13	61.81	-170.84	1,627.83	2,475.29	1,400.78	1,317.14	83.64	16.747		
8,700.00	7,343.78	8,412.28	7,533.13	90.72	61.77	-179.17	1,617.90	2,478.19	1,422.76	1,339.93	82.83	17.177		
8,750.00	7,385.32	8,425.94	7,540.25	91.28	61.73	-168.77	1,606.65	2,481.32	1,445.26	1,363.20	82.06	17.612		
8,800.00	7,426.92	8,450.00	7,552.17	91.81	61.66	-157.99	1,586.43	2,486.56	1,468.10	1,387.04	81.05	18.113		
8,850.00	7,468.27	8,450.00	7,552.17	92.29	61.66	-148.31	1,586.43	2,486.56	1,490.84	1,409.93	80.91	18.426		
8,900.00	7,509.04	8,471.59	7,562.20	92.72	61.58	-138.56	1,567.82	2,490.96	1,513.36	1,433.20	80.16	18.879		
8,950.00	7,548.93	8,488.02	7,569.40	93.10	61.53	-129.78	1,553.39	2,494.11	1,535.44	1,455.77	79.67	19.272		
9,000.00	7,587.63	8,500.00	7,574.41	93.43	61.48	-122.00	1,542.74	2,496.31	1,556.87	1,477.44	79.43	19.601		
9,050.00	7,624.85	8,522.26	7,583.17	93.71	61.40	-114.91	1,522.64	2,500.14	1,577.40	1,498.46	78.94	19.983		
9,100.00	7,660.30	8,550.00	7,593.09	93.93	61.29	-108.63	1,497.10	2,504.46	1,596.97	1,518.62	78.35	20.383		
9,150.00	7,693.72	8,550.00	7,593.09	94.10	61.29	-103.62	1,497.10	2,504.46	1,615.23	1,536.39	78.84	20.487		
9,200.00	7,724.85	8,576.22	7,601.41	94.23	61.17	-98.93	1,472.50	2,508.08	1,632.12	1,553.62	78.50	20.790		
9,250.00	7,753.45	8,600.00	7,608.07	94.30	61.07	-94.98	1,449.86	2,510.97	1,647.60	1,569.25	78.35	21.028		
9,300.00	7,779.31	8,613.44	7,611.44	94.34	61.01	-91.74	1,436.93	2,512.43	1,661.43	1,582.72	78.71	21.107		
9,350.00	7,802.23	8,632.32	7,615.72	94.33	60.92	-88.99	1,418.64	2,514.27	1,673.59	1,594.61	78.98	21.191		
9,400.00	7,822.03	8,650.00	7,619.23	94.28	60.84	-86.75	1,401.37	2,515.77	1,683.97	1,604.56	79.41	21.206		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,670.47	7,622.67	94.20	60.74	84.95	1,381.25	2,517.23	1,692.49	1,612.65	79.83	21.200		
9,500.00	7,851.72	8,700.00	7,626.48	94.10	60.60	83.55	1,352.01	2,518.83	1,699.18	1,619.23	79.95	21.254		
9,550.00	7,861.37	8,700.00	7,626.48	93.96	60.60	82.64	1,352.01	2,518.83	1,703.81	1,622.26	81.55	20.893		
9,600.00	7,867.46	8,728.31	7,628.84	93.81	60.46	82.06	1,323.83	2,519.79	1,706.41	1,624.49	81.92	20.831		
9,650.00	7,869.94	8,750.00	7,629.78	93.64	60.35	81.87	1,302.15	2,520.13	1,707.08	1,624.39	82.69	20.645		
9,659.14	7,870.00	8,750.00	7,629.78	93.60	60.35	81.88	1,302.15	2,520.13	1,706.98	1,623.94	83.04	20.556		
9,700.00	7,870.00	8,767.88	7,630.00	93.46	60.26	81.88	1,284.28	2,520.17	1,706.70	1,622.99	83.71	20.388		
9,800.00	7,870.00	8,867.88	7,630.00	93.11	59.76	81.88	1,184.28	2,519.83	1,706.70	1,624.18	82.52	20.682		
9,900.00	7,870.00	8,967.88	7,630.00	92.77	59.29	81.88	1,084.28	2,519.50	1,706.70	1,625.24	81.46	20.953		
10,000.00	7,870.00	9,067.88	7,630.00	92.46	58.85	81.88	984.28	2,519.16	1,706.70	1,626.17	80.53	21.193		
10,100.00	7,870.00	9,167.88	7,630.00	92.16	58.43	81.88	884.28	2,518.82	1,706.70	1,626.95	79.75	21.400		
10,200.00	7,870.00	9,267.88	7,630.00	91.87	58.03	81.88	784.28	2,518.49	1,706.70	1,627.58	79.12	21.571		
10,300.00	7,870.00	9,367.88	7,630.00	91.60	57.65	81.88	684.28	2,518.15	1,706.70	1,628.06	78.64	21.703		
10,400.00	7,870.00	9,467.88	7,630.00	91.34	57.30	81.88	584.28	2,517.81	1,706.70	1,628.38	78.31	21.793		
10,500.00	7,870.00	9,567.88	7,630.00	91.11	56.97	81.88	484.28	2,517.48	1,706.70	1,628.55	78.15	21.840		
10,600.00	7,870.00	9,667.88	7,630.00	90.88	56.67	81.88	384.28	2,517.14	1,706.69	1,628.56	78.13	21.843		
10,700.00	7,870.00	9,767.88	7,630.00	90.67	56.38	81.88	284.29	2,516.80	1,706.69	1,628.41	78.28	21.802		
10,800.00	7,870.00	9,867.88	7,630.00	90.48	56.12	81.88	184.29	2,516.47	1,706.69	1,628.11	78.58	21.718		
10,900.00	7,870.00	9,967.88	7,630.00	90.31	55.89	81.88	84.29	2,516.13	1,706.69	1,627.65	79.04	21.593		
11,000.00	7,870.00	10,067.88	7,630.00	90.15	55.68	81.88	-15.71	2,515.79	1,706.69	1,627.04	79.65	21.427		
11,100.00	7,870.00	10,167.88	7,630.00	90.00	55.50	81.88	-115.71	2,515.46	1,706.69	1,626.28	80.41	21.225		
11,200.00	7,870.00	10,267.88	7,630.00	89.88	55.36	81.88	-215.71	2,515.12	1,706.69	1,625.38	81.31	20.990		
11,300.00	7,870.00	10,367.88	7,630.00	89.77	55.24	81.88	-315.71	2,514.78	1,706.69	1,624.34	82.35	20.724		
11,400.00	7,870.00	10,467.88	7,630.00	89.68	55.17	81.88	-415.71	2,514.45	1,706.69	1,623.16	83.53	20.432		
11,500.00	7,870.00	10,567.88	7,630.00	89.60	55.14	81.88	-515.71	2,514.11	1,706.69	1,621.86	84.83	20.118		
11,600.00	7,870.00	10,667.88	7,630.00	89.55	55.15	81.88	-615.71	2,513.77	1,706.69	1,620.43	86.26	19.785		
11,700.00	7,870.00	10,767.88	7,630.00	89.52	55.24	81.88	-715.71	2,513.44	1,706.69	1,618.88	87.80	19.437		
11,800.00	7,870.00	10,867.88	7,630.00	89.50	55.40	81.88	-815.71	2,513.10	1,706.69	1,617.23	89.46	19.078		
11,900.00	7,870.00	10,967.88	7,630.00	89.51	55.64	81.88	-915.71	2,512.76	1,706.69	1,615.47	91.22	18.710		
12,000.00	7,870.00	11,067.88	7,630.00	89.54	55.98	81.88	-1,015.71	2,512.43	1,706.69	1,613.61	93.08	18.336		
12,100.00	7,870.00	11,167.88	7,630.00	89.59	56.43	81.88	-1,115.71	2,512.09	1,706.68	1,611.66	95.03	17.960		
12,200.00	7,870.00	11,267.88	7,630.00	89.66	56.99	81.88	-1,215.71	2,511.75	1,706.68	1,609.62	97.06	17.583		
12,300.00	7,870.00	11,367.88	7,630.00	89.77	57.66	81.88	-1,315.71	2,511.42	1,706.68	1,607.50	99.18	17.207		
12,400.00	7,870.00	11,467.88	7,630.00	89.89	58.45	81.88	-1,415.70	2,511.08	1,706.68	1,605.30	101.38	16.834		
12,500.00	7,870.00	11,567.88	7,630.00	90.05	59.32	81.88	-1,515.70	2,510.74	1,706.68	1,603.03	103.65	16.466		
12,600.00	7,870.00	11,667.88	7,630.00	90.24	60.29	81.88	-1,615.70	2,510.41	1,706.68	1,600.70	105.98	16.103		
12,700.00	7,870.00	11,767.88	7,630.00	90.46	61.32	81.88	-1,715.70	2,510.07	1,706.68	1,598.30	108.38	15.747		
12,800.00	7,870.00	11,867.88	7,630.00	90.71	62.42	81.88	-1,815.70	2,509.73	1,706.68	1,595.84	110.84	15.398		
12,900.00	7,870.00	11,967.88	7,630.00	90.99	63.57	81.88	-1,915.70	2,509.40	1,706.68	1,593.33	113.35	15.056		
13,000.00	7,870.00	12,067.88	7,630.00	91.32	64.77	81.88	-2,015.70	2,509.06	1,706.68	1,590.76	115.92	14.723		
13,100.00	7,870.00	12,167.88	7,630.00	91.68	66.00	81.88	-2,115.70	2,508.72	1,706.68	1,588.15	118.53	14.399		
13,200.00	7,870.00	12,267.88	7,630.00	92.08	67.27	81.88	-2,215.70	2,508.39	1,706.68	1,585.49	121.18	14.083		
13,300.00	7,870.00	12,367.88	7,630.00	92.52	68.57	81.88	-2,315.70	2,508.05	1,706.68	1,582.79	123.88	13.776		
13,400.00	7,870.00	12,467.88	7,630.00	93.00	69.89	81.88	-2,415.70	2,507.71	1,706.68	1,580.05	126.62	13.479		
13,500.00	7,870.00	12,567.88	7,630.00	93.53	71.24	81.88	-2,515.70	2,507.38	1,706.67	1,577.28	129.40	13.189		
13,600.00	7,870.00	12,667.88	7,630.00	94.10	72.61	81.88	-2,615.70	2,507.04	1,706.67	1,574.47	132.21	12.909		
13,700.00	7,870.00	12,767.88	7,630.00	94.72	74.00	81.88	-2,715.70	2,506.70	1,706.67	1,571.62	135.05	12.637		
13,800.00	7,870.00	12,867.88	7,630.00	95.38	75.41	81.88	-2,815.70	2,506.37	1,706.67	1,568.75	137.92	12.374		
13,900.00	7,870.00	12,967.88	7,630.00	96.09	76.83	81.88	-2,915.70	2,506.03	1,706.67	1,565.85	140.82	12.119		
14,000.00	7,870.00	13,067.88	7,630.00	96.84	78.27	81.88	-3,015.70	2,505.69	1,706.67	1,562.92	143.75	11.872		
14,100.00	7,870.00	13,167.88	7,630.00	97.64	79.72	81.88	-3,115.70	2,505.36	1,706.67	1,559.96	146.71	11.633		
14,200.00	7,870.00	13,267.88	7,630.00	98.48	81.19	81.88	-3,215.69	2,505.02	1,706.67	1,556.99	149.68	11.402		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,870.00	13,367.88	7,630.00	99.37	82.67	81.88	-3,315.69	2,504.68	1,706.67	1,553.98	152.68	11.178		
14,400.00	7,870.00	13,467.88	7,630.00	100.30	84.16	81.88	-3,415.69	2,504.35	1,706.67	1,550.96	155.71	10.961		
14,500.00	7,870.00	13,567.88	7,630.00	101.26	85.65	81.88	-3,515.69	2,504.01	1,706.67	1,547.92	158.75	10.751		
14,600.00	7,870.00	13,667.88	7,630.00	102.27	87.16	81.88	-3,615.69	2,503.67	1,706.67	1,544.86	161.81	10.548		
14,700.00	7,870.00	13,767.88	7,630.00	103.31	88.68	81.88	-3,715.69	2,503.34	1,706.67	1,541.78	164.88	10.351		
14,800.00	7,870.00	13,867.88	7,630.00	104.38	90.21	81.88	-3,815.69	2,503.00	1,706.67	1,538.69	167.98	10.160		
14,900.00	7,870.00	13,967.88	7,630.00	105.49	91.74	81.88	-3,915.69	2,502.66	1,706.67	1,535.58	171.09	9.975		
15,000.00	7,870.00	14,067.88	7,630.00	106.63	93.28	81.88	-4,015.69	2,502.33	1,706.66	1,532.45	174.21	9.796		
15,100.00	7,870.00	14,167.88	7,630.00	107.80	94.84	81.88	-4,115.69	2,501.99	1,706.66	1,529.31	177.35	9.623		
15,200.00	7,870.00	14,267.88	7,630.00	109.00	96.39	81.88	-4,215.69	2,501.65	1,706.66	1,526.16	180.51	9.455		
15,300.00	7,870.00	14,367.88	7,630.00	110.22	97.96	81.88	-4,315.69	2,501.32	1,706.66	1,522.99	183.67	9.292		
15,400.00	7,870.00	14,467.88	7,630.00	111.47	99.53	81.88	-4,415.69	2,500.98	1,706.66	1,519.81	186.85	9.134		
15,500.00	7,870.00	14,567.88	7,630.00	112.74	101.10	81.88	-4,515.69	2,500.64	1,706.66	1,516.62	190.04	8.981		
15,600.00	7,870.00	14,667.88	7,630.00	114.03	102.69	81.88	-4,615.69	2,500.31	1,706.66	1,513.42	193.24	8.832		
15,700.00	7,870.00	14,767.88	7,630.00	115.34	104.27	81.88	-4,715.69	2,499.97	1,706.66	1,510.21	196.45	8.687		
15,800.00	7,870.00	14,867.88	7,630.00	116.68	105.87	81.88	-4,815.69	2,499.63	1,706.66	1,506.99	199.67	8.547		
15,900.00	7,870.00	14,967.88	7,630.00	118.02	107.47	81.88	-4,915.69	2,499.30	1,706.66	1,503.76	202.90	8.411		
16,000.00	7,870.00	15,067.88	7,630.00	119.39	109.07	81.88	-5,015.68	2,498.96	1,706.66	1,500.52	206.14	8.279		
16,100.00	7,870.00	15,167.88	7,630.00	120.77	110.68	81.88	-5,115.68	2,498.62	1,706.66	1,497.27	209.39	8.151		
16,200.00	7,870.00	15,267.88	7,630.00	122.17	112.29	81.88	-5,215.68	2,498.29	1,706.66	1,494.01	212.64	8.026		
16,300.00	7,870.00	15,367.88	7,630.00	123.58	113.90	81.88	-5,315.68	2,497.95	1,706.66	1,490.75	215.91	7.905		
16,400.00	7,870.00	15,467.88	7,630.00	125.00	115.53	81.88	-5,415.68	2,497.61	1,706.66	1,487.48	219.18	7.787		
16,500.00	7,870.00	15,567.88	7,630.00	126.43	117.15	81.88	-5,515.68	2,497.28	1,706.65	1,484.20	222.46	7.672		
16,600.00	7,870.00	15,667.88	7,630.00	127.88	118.78	81.88	-5,615.68	2,496.94	1,706.65	1,480.91	225.74	7.560		
16,700.00	7,870.00	15,767.88	7,630.00	129.34	120.41	81.88	-5,715.68	2,496.60	1,706.65	1,477.62	229.03	7.452		
16,800.00	7,870.00	15,867.88	7,630.00	130.81	122.05	81.88	-5,815.68	2,496.27	1,706.65	1,474.32	232.33	7.346		
16,900.00	7,870.00	15,967.88	7,630.00	132.28	123.68	81.88	-5,915.68	2,495.93	1,706.65	1,471.02	235.64	7.243		
17,000.00	7,870.00	16,067.88	7,630.00	133.77	125.33	81.88	-6,015.68	2,495.59	1,706.65	1,467.71	238.95	7.142		
17,100.00	7,870.00	16,167.88	7,630.00	135.27	126.97	81.88	-6,115.68	2,495.26	1,706.65	1,464.39	242.26	7.045		
17,200.00	7,870.00	16,267.88	7,630.00	136.77	128.62	81.88	-6,215.68	2,494.92	1,706.65	1,461.07	245.58	6.949		
17,300.00	7,870.00	16,367.88	7,630.00	138.28	130.27	81.88	-6,315.68	2,494.58	1,706.65	1,457.74	248.91	6.857		
17,400.00	7,870.00	16,467.88	7,630.00	139.80	131.92	81.88	-6,415.68	2,494.25	1,706.65	1,454.41	252.24	6.766		
17,500.00	7,870.00	16,567.88	7,630.00	141.33	133.58	81.88	-6,515.68	2,493.91	1,706.65	1,451.08	255.57	6.678		
17,600.00	7,870.00	16,667.88	7,630.00	142.86	135.24	81.88	-6,615.68	2,493.57	1,706.65	1,447.74	258.91	6.592		
17,700.00	7,870.00	16,767.88	7,630.00	144.40	136.90	81.88	-6,715.68	2,493.24	1,706.65	1,444.39	262.26	6.508		
17,800.00	7,870.00	16,867.88	7,630.00	145.95	138.56	81.88	-6,815.67	2,492.90	1,706.65	1,441.04	265.60	6.426		
17,900.00	7,870.00	16,967.88	7,630.00	147.50	140.23	81.88	-6,915.67	2,492.56	1,706.65	1,437.69	268.96	6.345		
18,000.00	7,870.00	17,067.88	7,630.00	149.06	141.90	81.88	-7,015.67	2,492.23	1,706.64	1,434.33	272.31	6.267		
18,100.00	7,870.00	17,167.88	7,630.00	150.63	143.57	81.88	-7,115.67	2,491.89	1,706.64	1,430.97	275.67	6.191		
18,200.00	7,870.00	17,267.88	7,630.00	152.20	145.24	81.88	-7,215.67	2,491.55	1,706.64	1,427.61	279.04	6.116		
18,300.00	7,870.00	17,367.88	7,630.00	153.77	146.92	81.88	-7,315.67	2,491.22	1,706.64	1,424.24	282.40	6.043		
18,400.00	7,870.00	17,467.88	7,630.00	155.35	148.59	81.88	-7,415.67	2,490.88	1,706.64	1,420.87	285.77	5.972		
18,500.00	7,870.00	17,567.88	7,630.00	156.93	150.27	81.88	-7,515.67	2,490.54	1,706.64	1,417.50	289.15	5.902		
18,600.00	7,870.00	17,667.88	7,630.00	158.52	151.95	81.88	-7,615.67	2,490.21	1,706.64	1,414.12	292.52	5.834		
18,700.00	7,870.00	17,767.88	7,630.00	160.11	153.64	81.88	-7,715.67	2,489.87	1,706.64	1,410.74	295.90	5.768		
18,800.00	7,870.00	17,867.88	7,630.00	161.71	155.32	81.88	-7,815.67	2,489.53	1,706.64	1,407.35	299.28	5.702		
18,900.00	7,870.00	17,967.88	7,630.00	163.31	157.01	81.88	-7,915.67	2,489.20	1,706.64	1,403.97	302.67	5.639		
19,000.00	7,870.00	18,067.88	7,630.00	164.91	158.69	81.88	-8,015.67	2,488.86	1,706.64	1,400.58	306.06	5.576		
19,100.00	7,870.00	18,167.88	7,630.00	166.52	160.38	81.88	-8,115.67	2,488.52	1,706.64	1,397.19	309.45	5.515		
19,200.00	7,870.00	18,267.88	7,630.00	168.13	162.07	81.88	-8,215.67	2,488.19	1,706.64	1,393.80	312.84	5.455		
19,300.00	7,870.00	18,367.88	7,630.00	169.75	163.76	81.88	-8,315.67	2,487.85	1,706.64	1,390.40	316.24	5.397		
19,383.51	7,870.00	18,451.39	7,630.00	171.10	165.18	81.88	-8,399.17	2,487.57	1,706.64	1,387.56	319.07	5.349 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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	1.00	0.00	0.00	-89.48	0.36	-39.76	39.76					
100.00	100.00	101.00	101.00	0.13	0.14	-89.48	0.36	-39.76	39.76	39.49	0.27	145.949		
200.00	200.00	201.00	201.00	0.49	0.50	-89.48	0.36	-39.76	39.76	38.77	0.99	40.189		
300.00	300.00	301.00	301.00	0.85	0.85	-89.48	0.36	-39.76	39.76	38.06	1.71	23.303		
400.00	400.00	401.00	401.00	1.21	1.21	-89.48	0.36	-39.76	39.76	37.34	2.42	16.408		
500.00	500.00	501.00	501.00	1.57	1.57	-89.48	0.36	-39.76	39.76	36.62	3.14	12.662		
600.00	600.00	601.00	601.00	1.93	1.93	-89.48	0.36	-39.76	39.76	35.90	3.86	10.309	CC, ES	
700.00	699.98	700.98	700.98	2.28	2.29	-154.37	0.36	-39.76	41.33	36.76	4.57	9.044		
800.00	799.84	800.84	800.84	2.64	2.65	-157.15	0.36	-39.76	46.10	40.82	5.28	8.731		
900.00	899.45	900.45	900.45	3.00	3.00	-160.67	0.36	-39.76	54.24	48.25	5.99	9.049		
1,000.00	998.70	999.70	999.70	3.37	3.36	-164.11	0.36	-39.76	65.87	59.16	6.71	9.818		
1,100.00	1,097.47	1,101.08	1,101.06	3.76	3.72	-166.66	1.40	-38.31	79.43	72.00	7.42	10.698		
1,200.00	1,195.62	1,202.95	1,202.78	4.18	4.08	-168.11	4.52	-33.90	93.20	85.06	8.14	11.452		
1,300.00	1,293.06	1,305.33	1,304.75	4.63	4.45	-168.87	9.78	-26.51	107.09	98.24	8.85	12.097		
1,400.00	1,389.64	1,408.19	1,406.81	5.11	4.83	-169.18	17.17	-16.09	121.06	111.49	9.57	12.651		
1,500.00	1,485.27	1,511.56	1,508.84	5.63	5.22	-169.16	26.74	-2.62	135.06	124.77	10.29	13.123		
1,600.00	1,579.82	1,615.41	1,610.69	6.20	5.64	-168.91	38.49	13.93	149.10	138.08	11.02	13.529		
1,700.00	1,673.17	1,719.75	1,712.20	6.83	6.09	-168.48	52.44	33.57	163.15	151.39	11.76	13.872		
1,800.00	1,765.21	1,824.58	1,813.24	7.51	6.57	-167.92	68.60	56.33	177.20	164.68	12.52	14.157		
1,900.00	1,855.84	1,929.89	1,913.65	8.24	7.10	-167.25	86.98	82.21	191.26	177.96	13.29	14.387		
2,000.00	1,944.94	2,035.68	2,013.26	9.05	7.67	-166.49	107.58	111.22	205.31	191.21	14.10	14.564		
2,100.00	2,032.39	2,141.93	2,111.93	9.91	8.31	-165.66	130.40	143.36	219.35	204.42	14.94	14.687		
2,200.00	2,118.11	2,248.66	2,209.50	10.85	9.00	-164.77	155.44	178.62	233.38	217.57	15.82	14.757		
2,300.00	2,201.97	2,355.84	2,305.79	11.85	9.76	-163.83	182.68	216.99	247.41	230.66	16.75	14.772		
2,400.00	2,283.88	2,463.47	2,400.65	12.93	10.60	-162.85	212.12	258.45	261.41	243.67	17.74	14.733		
2,429.47	2,307.63	2,495.28	2,428.31	13.26	10.86	-162.55	221.22	271.26	265.54	247.49	18.05	14.713		
2,500.00	2,364.26	2,567.13	2,490.34	14.06	11.46	-161.91	242.21	300.82	274.98	256.14	18.84	14.593		
2,600.00	2,444.56	2,666.16	2,575.76	15.22	12.32	-161.08	271.21	341.66	288.30	268.27	20.03	14.391		
2,700.00	2,524.85	2,765.19	2,661.19	16.39	13.20	-160.32	300.21	382.50	301.68	280.42	21.26	14.190		
2,800.00	2,605.14	2,864.21	2,746.61	17.57	14.10	-159.63	329.21	423.34	315.10	292.58	22.52	13.991		
2,900.00	2,685.43	2,963.24	2,832.04	18.76	15.01	-159.00	358.21	464.18	328.56	304.75	23.81	13.798		
3,000.00	2,765.73	3,062.27	2,917.46	19.96	15.93	-158.42	387.21	505.02	342.06	316.93	25.13	13.611		
3,100.00	2,846.02	3,161.29	3,002.88	21.16	16.86	-157.88	416.22	545.86	355.59	329.12	26.47	13.432		
3,200.00	2,926.31	3,260.32	3,088.31	22.37	17.79	-157.38	445.22	586.70	369.15	341.31	27.84	13.261		
3,300.00	3,006.60	3,359.35	3,173.73	23.59	18.74	-156.91	474.22	627.54	382.74	353.52	29.22	13.098		
3,400.00	3,086.90	3,458.37	3,259.16	24.81	19.69	-156.48	503.22	668.38	396.35	365.73	30.62	12.943		
3,500.00	3,167.19	3,557.40	3,344.58	26.03	20.64	-156.07	532.22	709.22	409.98	377.94	32.04	12.797		
3,600.00	3,247.48	3,656.43	3,430.01	27.25	21.60	-155.70	561.22	750.06	423.63	390.16	33.47	12.658		
3,700.00	3,327.77	3,755.45	3,515.43	28.48	22.56	-155.34	590.22	790.90	437.29	402.38	34.91	12.526		
3,800.00	3,408.07	3,854.48	3,600.85	29.71	23.52	-155.01	619.22	831.74	450.97	414.61	36.36	12.401		
3,900.00	3,488.36	3,953.51	3,686.28	30.94	24.49	-154.69	648.22	872.58	464.67	426.84	37.83	12.283		
4,000.00	3,568.65	4,052.53	3,771.70	32.17	25.46	-154.40	677.22	913.42	478.38	439.07	39.30	12.172		
4,100.00	3,648.95	4,151.56	3,857.13	33.41	26.43	-154.12	706.22	954.26	492.10	451.31	40.78	12.066		
4,200.00	3,729.24	4,250.59	3,942.55	34.64	27.41	-153.86	735.23	995.11	505.83	463.55	42.27	11.965		
4,300.00	3,809.53	4,349.61	4,027.97	35.88	28.38	-153.61	764.23	1,035.95	519.57	475.80	43.77	11.870		
4,400.00	3,889.82	4,448.64	4,113.40	37.12	29.36	-153.37	793.23	1,076.79	533.32	488.04	45.28	11.779		
4,500.00	3,970.12	4,547.67	4,198.82	38.36	30.34	-153.14	822.23	1,117.63	547.08	500.29	46.78	11.693		
4,600.00	4,050.41	4,646.69	4,284.25	39.60	31.32	-152.93	851.23	1,158.47	560.84	512.54	48.30	11.612		
4,700.00	4,130.70	4,745.72	4,369.67	40.84	32.30	-152.73	880.23	1,199.31	574.62	524.80	49.82	11.534		
4,800.00	4,210.99	4,844.75	4,455.10	42.08	33.29	-152.53	909.23	1,240.15	588.40	537.05	51.35	11.460		
4,900.00	4,291.29	4,943.77	4,540.52	43.32	34.27	-152.35	938.23	1,280.99	602.18	549.31	52.88	11.389		
5,000.00	4,371.58	5,042.80	4,625.94	44.57	35.25	-152.17	967.23	1,321.83	615.98	561.57	54.41	11.321		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,141.83	4,711.37	45.81	36.24	-152.00	996.23	1,362.67	629.78	573.83	55.95	11.257		
5,200.00	4,532.16	5,240.85	4,796.79	47.05	37.23	-151.84	1,025.23	1,403.51	643.58	586.09	57.49	11.195		
5,300.00	4,612.46	5,339.88	4,882.22	48.30	38.21	-151.68	1,054.24	1,444.35	657.39	598.36	59.03	11.136		
5,400.00	4,692.75	5,438.91	4,967.64	49.54	39.20	-151.53	1,083.24	1,485.19	671.20	610.62	60.58	11.080		
5,500.00	4,773.04	5,537.93	5,053.06	50.79	40.19	-151.39	1,112.24	1,526.03	685.02	622.89	62.13	11.026		
5,600.00	4,853.34	5,636.96	5,138.49	52.03	41.18	-151.25	1,141.24	1,566.87	698.84	635.16	63.68	10.974		
5,700.00	4,933.63	5,735.99	5,223.91	53.28	42.17	-151.12	1,170.24	1,607.71	712.66	647.43	65.24	10.924		
5,800.00	5,013.92	5,835.01	5,309.34	54.53	43.16	-150.99	1,199.24	1,648.55	726.49	659.70	66.79	10.877		
5,900.00	5,094.21	5,934.04	5,394.76	55.77	44.15	-150.87	1,228.24	1,689.39	740.32	671.97	68.35	10.831		
6,000.00	5,174.51	6,033.07	5,480.19	57.02	45.14	-150.75	1,257.24	1,730.23	754.16	684.24	69.92	10.787		
6,100.00	5,254.80	6,132.09	5,565.61	58.27	46.13	-150.64	1,286.24	1,771.07	768.00	696.52	71.48	10.744		
6,200.00	5,335.09	6,231.12	5,651.03	59.52	47.12	-150.53	1,315.24	1,811.91	781.84	708.79	73.05	10.703		
6,300.00	5,415.38	6,330.15	5,736.46	60.76	48.11	-150.43	1,344.24	1,852.75	795.68	721.07	74.61	10.664		
6,400.00	5,495.68	6,429.17	5,821.88	62.01	49.10	-150.32	1,373.25	1,893.59	809.53	733.34	76.18	10.626		
6,500.00	5,575.97	6,528.20	5,907.31	63.26	50.10	-150.23	1,402.25	1,934.44	823.38	745.62	77.75	10.590		
6,600.00	5,656.26	6,627.23	5,992.73	64.51	51.09	-150.13	1,431.25	1,975.28	837.23	757.90	79.33	10.554		
6,700.00	5,736.55	6,726.25	6,078.15	65.76	52.08	-150.04	1,460.25	2,016.12	851.08	770.18	80.90	10.520		
6,800.00	5,816.85	6,825.28	6,163.58	67.01	53.08	-149.95	1,489.25	2,056.96	864.93	782.46	82.47	10.487		
6,900.00	5,897.14	6,924.31	6,249.00	68.26	54.07	-149.86	1,518.25	2,097.80	878.79	794.74	84.05	10.455		
7,000.00	5,977.43	7,023.33	6,334.43	69.50	55.06	-149.78	1,547.25	2,138.64	892.65	807.02	85.63	10.425		
7,100.00	6,057.72	7,122.36	6,419.85	70.75	56.06	-149.70	1,576.25	2,179.48	906.51	819.30	87.21	10.395		
7,200.00	6,138.02	7,221.39	6,505.28	72.00	57.05	-149.62	1,605.25	2,220.32	920.37	831.59	88.79	10.366		
7,300.00	6,218.31	7,320.41	6,590.70	73.25	58.05	-149.54	1,634.25	2,261.16	934.24	843.87	90.37	10.338		
7,400.00	6,298.60	7,419.44	6,676.12	74.50	59.04	-149.47	1,663.25	2,302.00	948.10	856.15	91.95	10.311		
7,500.00	6,378.90	7,518.47	6,761.55	75.75	60.03	-149.40	1,692.25	2,342.84	961.97	868.44	93.53	10.285		
7,600.00	6,459.19	7,617.49	6,846.97	77.00	61.03	-149.33	1,721.26	2,383.68	975.84	880.72	95.12	10.259		
7,700.00	6,539.48	7,716.52	6,932.40	78.25	62.02	-149.26	1,750.26	2,424.52	989.71	893.01	96.70	10.235		
7,800.00	6,619.77	7,815.55	7,017.82	79.50	63.02	-149.19	1,779.26	2,465.36	1,003.58	905.30	98.29	10.211		
7,900.00	6,700.07	7,914.57	7,103.24	80.75	64.01	-149.13	1,808.26	2,506.20	1,017.45	917.58	99.87	10.188		
8,000.00	6,780.36	8,013.60	7,188.67	82.00	65.01	-149.06	1,837.26	2,547.04	1,031.33	929.87	101.46	10.165		
8,100.00	6,860.65	8,135.89	7,296.32	83.25	66.16	-149.55	1,863.11	2,598.47	1,044.24	941.78	102.46	10.192		
8,200.00	6,940.94	8,253.78	7,402.53	84.50	67.05	-151.31	1,863.73	2,649.13	1,055.15	953.72	101.43	10.402		
8,300.00	7,021.24	8,355.74	7,492.87	85.76	67.59	-153.79	1,844.83	2,692.15	1,065.76	966.62	99.14	10.750		
8,400.00	7,101.53	8,439.74	7,564.09	87.01	67.87	-156.42	1,816.14	2,726.03	1,078.22	981.77	96.46	11.178		
8,500.00	7,181.82	8,507.42	7,618.25	88.26	68.01	-158.87	1,784.83	2,751.75	1,094.39	1,000.55	93.84	11.662		
8,605.60	7,266.61	8,564.39	7,661.00	89.58	68.05	-161.14	1,753.14	2,772.03	1,116.91	1,025.63	91.28	12.236		
8,650.00	7,302.60	8,585.74	7,676.26	90.13	68.06	-168.98	1,740.07	2,779.27	1,128.15	1,037.86	90.29	12.495		
8,700.00	7,343.78	8,609.89	7,692.97	90.72	68.06	-178.39	1,724.56	2,787.19	1,141.77	1,052.47	89.30	12.786		
8,750.00	7,385.32	8,634.12	7,709.14	91.28	68.04	171.81	1,708.21	2,794.84	1,156.16	1,067.75	88.41	13.077		
8,800.00	7,426.92	8,658.44	7,724.73	91.81	68.02	161.97	1,691.06	2,802.22	1,171.10	1,083.47	87.63	13.365		
8,850.00	7,468.27	8,682.83	7,739.68	92.29	67.99	152.40	1,673.15	2,809.29	1,186.35	1,099.42	86.94	13.646		
8,900.00	7,509.04	8,707.28	7,753.97	92.72	67.95	143.40	1,654.49	2,816.04	1,201.70	1,115.37	86.33	13.919		
8,950.00	7,548.93	8,731.79	7,767.56	93.10	67.91	135.15	1,635.13	2,822.46	1,216.95	1,131.13	85.82	14.181		
9,000.00	7,587.63	8,750.00	7,777.17	93.43	67.87	127.88	1,620.34	2,826.99	1,231.94	1,146.31	85.63	14.387		
9,050.00	7,624.85	8,780.96	7,792.52	93.71	67.79	121.17	1,594.45	2,834.22	1,246.40	1,161.35	85.05	14.655		
9,100.00	7,660.30	8,800.00	7,801.32	93.93	67.74	115.52	1,578.09	2,838.37	1,260.29	1,175.27	85.02	14.823		
9,150.00	7,693.72	8,830.30	7,814.31	94.10	67.65	110.42	1,551.40	2,844.47	1,273.36	1,188.71	84.64	15.044		
9,200.00	7,724.85	8,850.00	7,822.06	94.23	67.59	106.19	1,533.66	2,848.11	1,285.57	1,200.76	84.81	15.159		
9,250.00	7,753.45	8,879.78	7,832.72	94.30	67.48	102.43	1,506.32	2,853.10	1,296.73	1,212.08	84.65	15.319		
9,300.00	7,779.31	8,900.00	7,839.23	94.34	67.41	99.35	1,487.41	2,856.14	1,306.80	1,221.77	85.02	15.370		
9,350.00	7,802.23	8,929.36	7,847.59	94.33	67.30	96.70	1,459.54	2,860.03	1,315.63	1,230.53	85.09	15.461		
9,400.00	7,822.03	8,950.00	7,852.69	94.28	67.22	94.59	1,439.68	2,862.40	1,323.20	1,237.50	85.70	15.439		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,979.03	7,858.77	94.20	67.09	92.85	1,411.44	2,865.20	1,329.40	1,243.39	86.01	15.457		
9,500.00	7,851.72	9,000.00	7,862.35	94.10	67.00	91.57	1,390.84	2,866.84	1,334.22	1,247.37	86.85	15.362		
9,550.00	7,861.37	9,028.76	7,866.16	93.96	66.88	90.65	1,362.39	2,868.56	1,337.58	1,250.20	87.38	15.308		
9,600.00	7,867.46	9,050.00	7,868.14	93.81	66.78	90.11	1,341.26	2,869.43	1,339.49	1,251.05	88.44	15.146		
9,650.00	7,869.94	9,078.51	7,869.68	93.64	66.65	89.94	1,312.80	2,870.07	1,339.91	1,250.74	89.16	15.028		
9,659.14	7,870.00	9,083.06	7,869.81	93.60	66.63	89.95	1,308.26	2,870.12	1,339.82	1,250.48	89.34	14.996		
9,690.31	7,870.00	9,098.78	7,870.00	93.49	66.55	89.96	1,292.81	2,870.16	1,339.64	1,249.67	89.97	14.890		
9,700.00	7,870.00	9,108.20	7,870.00	93.46	66.51	89.96	1,283.12	2,870.13	1,339.64	1,249.78	89.86	14.908		
9,800.00	7,870.00	9,208.20	7,870.00	93.11	66.05	89.96	1,183.12	2,869.79	1,339.64	1,250.83	88.81	15.085		
9,900.00	7,870.00	9,308.20	7,870.00	92.77	65.62	89.96	1,083.12	2,869.45	1,339.64	1,251.76	87.88	15.244		
10,000.00	7,870.00	9,408.20	7,870.00	92.46	65.21	89.96	983.12	2,869.11	1,339.64	1,252.55	87.09	15.382		
10,100.00	7,870.00	9,508.20	7,870.00	92.16	64.82	89.96	883.12	2,868.77	1,339.64	1,253.20	86.44	15.498		
10,200.00	7,870.00	9,608.20	7,870.00	91.87	64.45	89.96	783.12	2,868.44	1,339.64	1,253.72	85.93	15.591		
10,300.00	7,870.00	9,708.20	7,870.00	91.60	64.10	89.96	683.12	2,868.10	1,339.64	1,254.09	85.56	15.658		
10,400.00	7,870.00	9,808.20	7,870.00	91.34	63.78	89.96	583.12	2,867.76	1,339.64	1,254.31	85.33	15.699		
10,500.00	7,870.00	9,908.20	7,870.00	91.11	63.47	89.96	483.12	2,867.42	1,339.65	1,254.39	85.26	15.713		
10,600.00	7,870.00	10,008.20	7,870.00	90.88	63.19	89.96	383.12	2,867.08	1,339.65	1,254.32	85.33	15.700		
10,700.00	7,870.00	10,108.20	7,870.00	90.67	62.93	89.96	283.12	2,866.75	1,339.65	1,254.10	85.54	15.660		
10,800.00	7,870.00	10,208.20	7,870.00	90.48	62.70	89.96	183.12	2,866.41	1,339.65	1,253.74	85.91	15.594		
10,900.00	7,870.00	10,308.20	7,870.00	90.31	62.49	89.96	83.13	2,866.07	1,339.65	1,253.24	86.41	15.503		
11,000.00	7,870.00	10,408.20	7,870.00	90.15	62.30	89.96	-16.87	2,865.73	1,339.65	1,252.60	87.05	15.389		
11,100.00	7,870.00	10,508.20	7,870.00	90.00	62.13	89.96	-116.87	2,865.39	1,339.65	1,251.81	87.84	15.251		
11,200.00	7,870.00	10,608.20	7,870.00	89.88	62.00	89.96	-216.87	2,865.06	1,339.65	1,250.89	88.76	15.093		
11,300.00	7,870.00	10,708.20	7,870.00	89.77	61.89	89.96	-316.87	2,864.72	1,339.65	1,249.84	89.81	14.917		
11,400.00	7,870.00	10,808.20	7,870.00	89.68	61.82	89.96	-416.87	2,864.38	1,339.65	1,248.67	90.98	14.725		
11,500.00	7,870.00	10,908.20	7,870.00	89.60	61.78	89.96	-516.87	2,864.04	1,339.65	1,247.38	92.27	14.518		
11,600.00	7,870.00	11,008.20	7,870.00	89.55	61.78	89.96	-616.87	2,863.71	1,339.65	1,245.97	93.68	14.300		
11,700.00	7,870.00	11,108.20	7,870.00	89.52	61.82	89.96	-716.87	2,863.37	1,339.65	1,244.45	95.20	14.072		
11,800.00	7,870.00	11,208.20	7,870.00	89.50	61.90	89.96	-816.87	2,863.03	1,339.65	1,242.82	96.83	13.835		
11,900.00	7,870.00	11,308.20	7,870.00	89.51	62.05	89.96	-916.87	2,862.69	1,339.65	1,241.10	98.55	13.593		
12,000.00	7,870.00	11,408.20	7,870.00	89.54	62.25	89.96	-1,016.87	2,862.35	1,339.65	1,239.28	100.37	13.347		
12,100.00	7,870.00	11,508.20	7,870.00	89.59	62.52	89.96	-1,116.87	2,862.02	1,339.65	1,237.37	102.28	13.098		
12,200.00	7,870.00	11,608.20	7,870.00	89.66	62.87	89.96	-1,216.87	2,861.68	1,339.65	1,235.38	104.27	12.847		
12,300.00	7,870.00	11,708.20	7,870.00	89.77	63.29	89.96	-1,316.87	2,861.34	1,339.66	1,233.31	106.35	12.597		
12,400.00	7,870.00	11,808.20	7,870.00	89.89	63.80	89.96	-1,416.87	2,861.00	1,339.66	1,231.16	108.50	12.347		
12,500.00	7,870.00	11,908.20	7,870.00	90.05	64.39	89.96	-1,516.87	2,860.66	1,339.66	1,228.94	110.72	12.100		
12,600.00	7,870.00	12,008.20	7,870.00	90.24	65.07	89.96	-1,616.87	2,860.33	1,339.66	1,226.65	113.01	11.855		
12,700.00	7,870.00	12,108.20	7,870.00	90.46	65.84	89.96	-1,716.86	2,859.99	1,339.66	1,224.30	115.36	11.613		
12,800.00	7,870.00	12,208.20	7,870.00	90.71	66.68	89.96	-1,816.86	2,859.65	1,339.66	1,221.89	117.76	11.376		
12,900.00	7,870.00	12,308.20	7,870.00	90.99	67.59	89.96	-1,916.86	2,859.31	1,339.66	1,219.43	120.23	11.142		
13,000.00	7,870.00	12,408.20	7,870.00	91.32	68.57	89.96	-2,016.86	2,858.98	1,339.66	1,216.91	122.74	10.914		
13,100.00	7,870.00	12,508.20	7,870.00	91.68	69.61	89.96	-2,116.86	2,858.64	1,339.66	1,214.35	125.31	10.691		
13,200.00	7,870.00	12,608.20	7,870.00	92.08	70.70	89.96	-2,216.86	2,858.30	1,339.66	1,211.74	127.92	10.472		
13,300.00	7,870.00	12,708.20	7,870.00	92.52	71.84	89.96	-2,316.86	2,857.96	1,339.66	1,209.08	130.58	10.259		
13,400.00	7,870.00	12,808.20	7,870.00	93.00	73.02	89.96	-2,416.86	2,857.62	1,339.66	1,206.38	133.28	10.052		
13,500.00	7,870.00	12,908.20	7,870.00	93.53	74.24	89.96	-2,516.86	2,857.29	1,339.66	1,203.65	136.01	9.850		
13,600.00	7,870.00	13,008.20	7,870.00	94.10	75.50	89.96	-2,616.86	2,856.95	1,339.66	1,200.88	138.78	9.653		
13,700.00	7,870.00	13,108.20	7,870.00	94.72	76.78	89.96	-2,716.86	2,856.61	1,339.66	1,198.08	141.59	9.462		
13,800.00	7,870.00	13,208.20	7,870.00	95.38	78.09	89.96	-2,816.86	2,856.27	1,339.66	1,195.24	144.42	9.276		
13,900.00	7,870.00	13,308.20	7,870.00	96.09	79.42	89.96	-2,916.86	2,855.93	1,339.66	1,192.37	147.29	9.095		
14,000.00	7,870.00	13,408.20	7,870.00	96.84	80.78	89.96	-3,016.86	2,855.60	1,339.66	1,189.48	150.18	8.920		
14,100.00	7,870.00	13,508.20	7,870.00	97.64	82.15	89.96	-3,116.86	2,855.26	1,339.67	1,186.56	153.11	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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	13,608.20	7,870.00	98.48	83.55	89.96	-3,216.86	2,854.92	1,339.67	1,183.61	156.05	8.585		
14,300.00	7,870.00	13,708.20	7,870.00	99.37	84.96	89.96	-3,316.86	2,854.58	1,339.67	1,180.64	159.03	8.424		
14,400.00	7,870.00	13,808.20	7,870.00	100.30	86.38	89.96	-3,416.86	2,854.24	1,339.67	1,177.65	162.02	8.269		
14,500.00	7,870.00	13,908.20	7,870.00	101.26	87.83	89.96	-3,516.85	2,853.91	1,339.67	1,174.63	165.03	8.117		
14,600.00	7,870.00	14,008.20	7,870.00	102.27	89.28	89.96	-3,616.85	2,853.57	1,339.67	1,171.60	168.07	7.971		
14,700.00	7,870.00	14,108.20	7,870.00	103.31	90.75	89.96	-3,716.85	2,853.23	1,339.67	1,168.54	171.12	7.829		
14,800.00	7,870.00	14,208.20	7,870.00	104.38	92.22	89.96	-3,816.85	2,852.89	1,339.67	1,165.47	174.20	7.691		
14,900.00	7,870.00	14,308.20	7,870.00	105.49	93.71	89.96	-3,916.85	2,852.56	1,339.67	1,162.38	177.29	7.557		
15,000.00	7,870.00	14,408.20	7,870.00	106.63	95.21	89.96	-4,016.85	2,852.22	1,339.67	1,159.28	180.39	7.426		
15,100.00	7,870.00	14,508.20	7,870.00	107.80	96.72	89.96	-4,116.85	2,851.88	1,339.67	1,156.16	183.51	7.300		
15,200.00	7,870.00	14,608.20	7,870.00	109.00	98.24	89.96	-4,216.85	2,851.54	1,339.67	1,153.02	186.65	7.177		
15,300.00	7,870.00	14,708.20	7,870.00	110.22	99.76	89.96	-4,316.85	2,851.20	1,339.67	1,149.87	189.80	7.058		
15,400.00	7,870.00	14,808.20	7,870.00	111.47	101.30	89.96	-4,416.85	2,850.87	1,339.67	1,146.71	192.97	6.943		
15,500.00	7,870.00	14,908.20	7,870.00	112.74	102.84	89.96	-4,516.85	2,850.53	1,339.67	1,143.53	196.14	6.830		
15,600.00	7,870.00	15,008.20	7,870.00	114.03	104.39	89.96	-4,616.85	2,850.19	1,339.67	1,140.34	199.33	6.721		
15,700.00	7,870.00	15,108.20	7,870.00	115.34	105.94	89.96	-4,716.85	2,849.85	1,339.67	1,137.14	202.53	6.615		
15,800.00	7,870.00	15,208.20	7,870.00	116.68	107.51	89.96	-4,816.85	2,849.51	1,339.67	1,133.93	205.74	6.511		
15,900.00	7,870.00	15,308.20	7,870.00	118.02	109.08	89.96	-4,916.85	2,849.18	1,339.67	1,130.71	208.96	6.411		
16,000.00	7,870.00	15,408.20	7,870.00	119.39	110.65	89.96	-5,016.85	2,848.84	1,339.68	1,127.48	212.19	6.313		
16,100.00	7,870.00	15,508.20	7,870.00	120.77	112.23	89.96	-5,116.85	2,848.50	1,339.68	1,124.24	215.43	6.219		
16,200.00	7,870.00	15,608.20	7,870.00	122.17	113.82	89.96	-5,216.84	2,848.16	1,339.68	1,120.99	218.68	6.126		
16,300.00	7,870.00	15,708.20	7,870.00	123.58	115.41	89.96	-5,316.84	2,847.83	1,339.68	1,117.74	221.94	6.036		
16,400.00	7,870.00	15,808.20	7,870.00	125.00	117.00	89.96	-5,416.84	2,847.49	1,339.68	1,114.47	225.21	5.949		
16,500.00	7,870.00	15,908.20	7,870.00	126.43	118.60	89.96	-5,516.84	2,847.15	1,339.68	1,111.19	228.48	5.863		
16,600.00	7,870.00	16,008.20	7,870.00	127.88	120.21	89.96	-5,616.84	2,846.81	1,339.68	1,107.91	231.77	5.780		
16,700.00	7,870.00	16,108.20	7,870.00	129.34	121.82	89.96	-5,716.84	2,846.47	1,339.68	1,104.62	235.06	5.699		
16,800.00	7,870.00	16,208.20	7,870.00	130.81	123.43	89.96	-5,816.84	2,846.14	1,339.68	1,101.33	238.35	5.621		
16,900.00	7,870.00	16,308.20	7,870.00	132.28	125.05	89.96	-5,916.84	2,845.80	1,339.68	1,098.02	241.66	5.544		
17,000.00	7,870.00	16,408.20	7,870.00	133.77	126.67	89.96	-6,016.84	2,845.46	1,339.68	1,094.72	244.97	5.469		
17,100.00	7,870.00	16,508.20	7,870.00	135.27	128.29	89.96	-6,116.84	2,845.12	1,339.68	1,091.40	248.28	5.396		
17,200.00	7,870.00	16,608.20	7,870.00	136.77	129.92	89.96	-6,216.84	2,844.78	1,339.68	1,088.08	251.60	5.325		
17,300.00	7,870.00	16,708.20	7,870.00	138.28	131.55	89.96	-6,316.84	2,844.45	1,339.68	1,084.75	254.93	5.255		
17,400.00	7,870.00	16,808.20	7,870.00	139.80	133.19	89.96	-6,416.84	2,844.11	1,339.68	1,081.42	258.27	5.187		
17,500.00	7,870.00	16,908.20	7,870.00	141.33	134.82	89.96	-6,516.84	2,843.77	1,339.68	1,078.08	261.60	5.121		
17,600.00	7,870.00	17,008.20	7,870.00	142.86	136.47	89.96	-6,616.84	2,843.43	1,339.68	1,074.74	264.95	5.056		
17,700.00	7,870.00	17,108.20	7,870.00	144.40	138.11	89.96	-6,716.84	2,843.09	1,339.68	1,071.39	268.30	4.993		
17,800.00	7,870.00	17,208.20	7,870.00	145.95	139.76	89.96	-6,816.84	2,842.76	1,339.69	1,068.04	271.65	4.932		
17,900.00	7,870.00	17,308.20	7,870.00	147.50	141.41	89.96	-6,916.84	2,842.42	1,339.69	1,064.68	275.01	4.871		
18,000.00	7,870.00	17,408.20	7,870.00	149.06	143.06	89.96	-7,016.83	2,842.08	1,339.69	1,061.32	278.37	4.813		
18,100.00	7,870.00	17,508.20	7,870.00	150.63	144.71	89.96	-7,116.83	2,841.74	1,339.69	1,057.95	281.74	4.755		
18,200.00	7,870.00	17,608.20	7,870.00	152.20	146.37	89.96	-7,216.83	2,841.41	1,339.69	1,054.58	285.11	4.699		
18,300.00	7,870.00	17,708.20	7,870.00	153.77	148.03	89.96	-7,316.83	2,841.07	1,339.69	1,051.21	288.48	4.644		
18,400.00	7,870.00	17,808.20	7,870.00	155.35	149.69	89.96	-7,416.83	2,840.73	1,339.69	1,047.83	291.86	4.590		
18,500.00	7,870.00	17,908.20	7,870.00	156.93	151.36	89.96	-7,516.83	2,840.39	1,339.69	1,044.45	295.24	4.538		
18,600.00	7,870.00	18,008.20	7,870.00	158.52	153.02	89.96	-7,616.83	2,840.05	1,339.69	1,041.06	298.63	4.486		
18,700.00	7,870.00	18,108.20	7,870.00	160.11	154.69	89.96	-7,716.83	2,839.72	1,339.69	1,037.68	302.01	4.436		
18,800.00	7,870.00	18,208.20	7,870.00	161.71	156.36	89.96	-7,816.83	2,839.38	1,339.69	1,034.29	305.41	4.387		
18,900.00	7,870.00	18,308.20	7,870.00	163.31	158.03	89.96	-7,916.83	2,839.04	1,339.69	1,030.89	308.80	4.338		
19,000.00	7,870.00	18,408.20	7,870.00	164.91	159.71	89.96	-8,016.83	2,838.70	1,339.69	1,027.49	312.20	4.291		
19,100.00	7,870.00	18,508.20	7,870.00	166.52	161.38	89.96	-8,116.83	2,838.36	1,339.69	1,024.09	315.60	4.245		
19,200.00	7,870.00	18,608.20	7,870.00	168.13	163.06	89.96	-8,216.83	2,838.03	1,339.69	1,020.69	319.01	4.200		
19,300.00	7,870.00	18,708.20	7,870.00	169.75	164.74	89.96	-8,316.83	2,837.69	1,339.69	1,017.28	322.41	4.155		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	18,791.71	7,870.00	171.10	166.15	89.96	-8,400.33	2,837.41	1,339.69	1,014.44	325.26	4.119 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	1.00	0.00	0.00	-89.30	0.36	-29.96	29.96					
100.00	100.00	101.00	101.00	0.13	0.14	-89.30	0.36	-29.96	29.96	29.69	0.27	109.979		
200.00	200.00	201.00	201.00	0.49	0.50	-89.30	0.36	-29.96	29.96	28.97	0.99	30.284		
300.00	300.00	301.00	301.00	0.85	0.85	-89.30	0.36	-29.96	29.96	28.26	1.71	17.560		
400.00	400.00	401.00	401.00	1.21	1.21	-89.30	0.36	-29.96	29.96	27.54	2.42	12.364		
500.00	500.00	501.00	501.00	1.57	1.57	-89.30	0.36	-29.96	29.96	26.82	3.14	9.542		
600.00	600.00	601.00	601.00	1.93	1.93	-89.30	0.36	-29.96	29.96	26.11	3.86	7.768	CC, ES	
700.00	699.98	700.98	700.98	2.28	2.29	-154.54	0.36	-29.96	31.53	26.96	4.57	6.900		
800.00	799.84	800.84	800.84	2.64	2.65	-158.06	0.36	-29.96	36.32	31.04	5.28	6.879		
900.00	899.45	900.46	900.46	3.00	3.00	-162.20	0.36	-29.96	44.53	38.54	5.99	7.429		
1,000.00	998.70	1,001.53	1,001.51	3.37	3.36	-165.34	1.34	-28.45	54.61	47.90	6.71	8.143		
1,100.00	1,097.47	1,102.97	1,102.80	3.76	3.72	-167.13	4.26	-23.92	64.87	57.46	7.41	8.750		
1,200.00	1,195.62	1,204.78	1,204.20	4.18	4.09	-168.11	9.14	-16.35	75.23	67.11	8.12	9.262		
1,300.00	1,293.06	1,306.96	1,305.59	4.63	4.46	-168.57	16.00	-5.71	85.63	76.80	8.83	9.696		
1,400.00	1,389.64	1,409.51	1,406.83	5.11	4.86	-168.67	24.85	8.02	96.07	86.52	9.55	10.063		
1,500.00	1,485.27	1,512.42	1,507.77	5.63	5.28	-168.52	35.70	24.85	106.51	96.24	10.26	10.377		
1,600.00	1,579.82	1,615.71	1,608.29	6.20	5.72	-168.19	48.56	44.79	116.94	105.95	10.99	10.639		
1,700.00	1,673.17	1,719.35	1,708.23	6.83	6.21	-167.70	63.42	67.85	127.37	115.64	11.73	10.856		
1,800.00	1,765.21	1,823.36	1,807.45	7.51	6.73	-167.11	80.30	94.03	137.79	125.30	12.49	11.031		
1,900.00	1,855.84	1,927.72	1,905.81	8.24	7.31	-166.42	99.18	123.32	148.18	134.91	13.27	11.165		
2,000.00	1,944.94	2,032.43	2,003.16	9.05	7.94	-165.66	120.07	155.72	158.55	144.47	14.08	11.258		
2,100.00	2,032.39	2,137.48	2,099.36	9.91	8.63	-164.84	142.95	191.21	168.90	153.97	14.93	11.312		
2,200.00	2,118.11	2,242.88	2,194.24	10.85	9.39	-163.97	167.81	229.76	179.22	163.39	15.82	11.326		
2,300.00	2,201.97	2,348.61	2,287.66	11.85	10.22	-163.06	194.63	271.36	189.51	172.74	16.77	11.300		
2,400.00	2,283.88	2,454.67	2,379.48	12.93	11.12	-162.10	223.39	315.98	199.76	181.98	17.78	11.234		
2,429.47	2,307.63	2,485.99	2,406.21	13.26	11.40	-161.82	232.23	329.69	202.78	184.69	18.09	11.208		
2,500.00	2,364.26	2,561.12	2,469.59	14.06	12.10	-161.08	254.08	363.59	209.17	190.30	18.87	11.084		
2,600.00	2,444.56	2,660.58	2,552.83	15.22	13.06	-160.04	283.58	409.34	217.17	197.02	20.15	10.779		
2,700.00	2,524.85	2,760.18	2,636.20	16.39	14.05	-159.07	313.11	455.15	225.23	203.76	21.47	10.491		
2,800.00	2,605.14	2,859.79	2,719.57	17.57	15.05	-158.17	342.65	500.96	233.35	210.52	22.84	10.218		
2,900.00	2,685.43	2,959.39	2,802.93	18.76	16.06	-157.33	372.18	546.78	241.53	217.29	24.25	9.962		
3,000.00	2,765.73	3,059.00	2,886.30	19.96	17.09	-156.55	401.72	592.59	249.76	224.07	25.69	9.722		
3,100.00	2,846.02	3,158.60	2,969.66	21.16	18.13	-155.81	431.25	638.40	258.02	230.85	27.17	9.497		
3,200.00	2,926.31	3,258.20	3,053.03	22.37	19.17	-155.12	460.79	684.21	266.33	237.65	28.68	9.287		
3,300.00	3,006.60	3,357.81	3,136.40	23.59	20.22	-154.48	490.32	730.03	274.68	244.46	30.21	9.091		
3,400.00	3,086.90	3,457.41	3,219.76	24.81	21.28	-153.87	519.86	775.84	283.05	251.28	31.78	8.908		
3,500.00	3,167.19	3,557.02	3,303.13	26.03	22.34	-153.29	549.39	821.65	291.46	258.10	33.36	8.737		
3,600.00	3,247.48	3,656.62	3,386.50	27.25	23.40	-152.75	578.93	867.47	299.89	264.93	34.96	8.578		
3,700.00	3,327.77	3,756.23	3,469.86	28.48	24.47	-152.24	608.46	913.28	308.35	271.77	36.58	8.429		
3,800.00	3,408.07	3,855.83	3,553.23	29.71	25.54	-151.75	638.00	959.09	316.84	278.61	38.22	8.289		
3,900.00	3,488.36	3,955.44	3,636.60	30.94	26.62	-151.29	667.53	1,004.90	325.34	285.46	39.88	8.159		
4,000.00	3,568.65	4,055.04	3,719.96	32.17	27.69	-150.86	697.07	1,050.72	333.86	292.32	41.54	8.037		
4,100.00	3,648.95	4,154.65	3,803.33	33.41	28.77	-150.44	726.60	1,096.53	342.41	299.18	43.22	7.922		
4,200.00	3,729.24	4,254.25	3,886.70	34.64	29.85	-150.05	756.14	1,142.34	350.96	306.05	44.92	7.814		
4,300.00	3,809.53	4,353.86	3,970.06	35.88	30.93	-149.67	785.67	1,188.15	359.54	312.92	46.62	7.712		
4,400.00	3,889.82	4,453.46	4,053.43	37.12	32.02	-149.32	815.21	1,233.97	368.13	319.80	48.33	7.617		
4,500.00	3,970.12	4,553.07	4,136.79	38.36	33.10	-148.97	844.74	1,279.78	376.73	326.68	50.05	7.527		
4,600.00	4,050.41	4,652.67	4,220.16	39.60	34.19	-148.65	874.28	1,325.59	385.35	333.57	51.78	7.442		
4,700.00	4,130.70	4,752.28	4,303.53	40.84	35.28	-148.34	903.81	1,371.41	393.97	340.45	53.52	7.361		
4,800.00	4,210.99	4,851.88	4,386.89	42.08	36.37	-148.04	933.35	1,417.22	402.61	347.35	55.26	7.285		
4,900.00	4,291.29	4,951.48	4,470.26	43.32	37.46	-147.75	962.88	1,463.03	411.26	354.25	57.02	7.213		
5,000.00	4,371.58	5,051.09	4,553.63	44.57	38.55	-147.48	992.42	1,508.84	419.92	361.15	58.77	7.145		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,150.69	4,636.99	45.81	39.64	-147.21	1,021.95	1,554.66	428.59	368.05	60.54	7.080		
5,200.00	4,532.16	5,250.30	4,720.36	47.05	40.73	-146.96	1,051.49	1,600.47	437.27	374.96	62.31	7.018		
5,300.00	4,612.46	5,349.90	4,803.73	48.30	41.82	-146.72	1,081.02	1,646.28	445.95	381.87	64.08	6.959		
5,400.00	4,692.75	5,449.51	4,887.09	49.54	42.92	-146.48	1,110.56	1,692.10	454.64	388.78	65.86	6.903		
5,500.00	4,773.04	5,549.11	4,970.46	50.79	44.01	-146.26	1,140.09	1,737.91	463.34	395.70	67.64	6.850		
5,600.00	4,853.34	5,648.72	5,053.83	52.03	45.11	-146.04	1,169.63	1,783.72	472.05	402.62	69.43	6.799		
5,700.00	4,933.63	5,748.32	5,137.19	53.28	46.20	-145.83	1,199.16	1,829.53	480.76	409.54	71.22	6.751		
5,800.00	5,013.92	5,847.93	5,220.56	54.53	47.30	-145.63	1,228.70	1,875.35	489.48	416.47	73.01	6.704		
5,900.00	5,094.21	5,947.53	5,303.92	55.77	48.39	-145.44	1,258.23	1,921.16	498.20	423.39	74.81	6.660		
6,000.00	5,174.51	6,047.14	5,387.29	57.02	49.49	-145.25	1,287.77	1,966.97	506.93	430.32	76.61	6.617		
6,100.00	5,254.80	6,146.74	5,470.66	58.27	50.59	-145.07	1,317.30	2,012.79	515.67	437.26	78.41	6.576		
6,200.00	5,335.09	6,246.35	5,554.02	59.52	51.68	-144.89	1,346.84	2,058.60	524.41	444.19	80.22	6.537		
6,300.00	5,415.38	6,345.95	5,637.39	60.76	52.78	-144.72	1,376.37	2,104.41	533.16	451.13	82.03	6.499		
6,400.00	5,495.68	6,445.55	5,720.76	62.01	53.88	-144.56	1,405.91	2,150.22	541.91	458.06	83.84	6.463		
6,500.00	5,575.97	6,545.16	5,804.12	63.26	54.98	-144.40	1,435.44	2,196.04	550.66	465.00	85.66	6.429		
6,600.00	5,656.26	6,644.76	5,887.49	64.51	56.07	-144.25	1,464.98	2,241.85	559.42	471.94	87.47	6.395		
6,700.00	5,736.55	6,744.37	5,970.86	65.76	57.17	-144.10	1,494.51	2,287.66	568.18	478.89	89.29	6.363		
6,800.00	5,816.85	6,843.97	6,054.22	67.01	58.27	-143.95	1,524.05	2,333.48	576.94	485.83	91.11	6.332		
6,900.00	5,897.14	6,943.58	6,137.59	68.26	59.37	-143.81	1,553.58	2,379.29	585.71	492.78	92.93	6.302		
7,000.00	5,977.43	7,043.18	6,220.96	69.50	60.47	-143.68	1,583.12	2,425.10	594.49	499.73	94.76	6.274		
7,100.00	6,057.72	7,142.79	6,304.32	70.75	61.57	-143.55	1,612.65	2,470.91	603.26	506.68	96.59	6.246		
7,200.00	6,138.02	7,242.39	6,387.69	72.00	62.67	-143.42	1,642.19	2,516.73	612.04	513.63	98.41	6.219		
7,300.00	6,218.31	7,342.00	6,471.05	73.25	63.77	-143.29	1,671.72	2,562.54	620.82	520.58	100.24	6.193		
7,400.00	6,298.60	7,441.60	6,554.42	74.50	64.87	-143.17	1,701.26	2,608.35	629.61	527.53	102.07	6.168		
7,500.00	6,378.90	7,541.21	6,637.79	75.75	65.97	-143.05	1,730.79	2,654.16	638.39	534.49	103.91	6.144		
7,600.00	6,459.19	7,640.81	6,721.15	77.00	67.07	-142.94	1,760.33	2,699.98	647.18	541.44	105.74	6.121		
7,700.00	6,539.48	7,740.42	6,804.52	78.25	68.17	-142.83	1,789.86	2,745.79	655.98	548.40	107.57	6.098		
7,800.00	6,619.77	7,840.02	6,887.89	79.50	69.27	-142.72	1,819.40	2,791.60	664.77	555.36	109.41	6.076		
7,900.00	6,700.07	7,942.27	6,973.48	80.75	70.40	-142.62	1,849.65	2,838.64	673.56	562.28	111.27	6.053		
8,000.00	6,780.36	8,080.66	7,092.87	82.00	71.79	-144.01	1,872.25	2,904.18	679.08	567.97	111.10	6.112		
8,100.00	6,860.65	8,205.57	7,201.96	83.25	72.78	-147.54	1,864.10	2,963.97	680.38	572.99	107.38	6.336		
8,200.00	6,940.94	8,309.36	7,289.71	84.50	73.36	-152.01	1,836.96	3,012.00	681.18	579.00	102.17	6.667		
8,300.00	7,021.24	8,391.87	7,355.54	85.76	73.65	-156.46	1,802.78	3,047.98	685.55	588.54	97.01	7.067		
8,400.00	7,101.53	8,456.54	7,403.72	87.01	73.79	-160.41	1,768.68	3,074.28	696.69	604.27	92.42	7.539		
8,500.00	7,181.82	8,507.37	7,439.06	88.26	73.85	-163.74	1,737.65	3,093.55	716.54	628.21	88.32	8.113		
8,605.60	7,266.61	8,550.00	7,466.74	89.58	73.87	-166.64	1,708.97	3,108.63	747.79	663.49	84.30	8.870		
8,650.00	7,302.60	8,565.96	7,476.61	90.13	73.86	-175.22	1,697.64	3,114.00	763.80	681.07	82.73	9.232		
8,700.00	7,343.78	8,584.75	7,487.87	90.72	73.85	-174.46	1,683.90	3,120.14	783.12	702.01	81.10	9.656		
8,750.00	7,385.32	8,600.00	7,496.72	91.28	73.85	-163.99	1,672.45	3,124.95	803.43	723.69	79.74	10.075		
8,800.00	7,426.92	8,623.90	7,510.03	91.81	73.82	-153.03	1,653.98	3,132.19	824.32	746.08	78.24	10.535		
8,850.00	7,468.27	8,650.00	7,523.80	92.29	73.79	-142.36	1,633.10	3,139.66	845.54	768.71	76.83	11.006		
8,900.00	7,509.04	8,664.62	7,531.13	92.72	73.76	-132.88	1,621.10	3,143.64	866.65	790.80	75.85	11.426		
8,950.00	7,548.93	8,685.43	7,541.12	93.10	73.72	-123.97	1,603.66	3,149.06	887.48	812.66	74.82	11.861		
9,000.00	7,587.63	8,700.00	7,547.77	93.43	73.70	-116.20	1,591.21	3,152.66	907.81	833.68	74.13	12.247		
9,050.00	7,624.85	8,727.76	7,559.67	93.71	73.63	-108.95	1,566.97	3,159.11	927.27	854.10	73.17	12.673		
9,100.00	7,660.30	8,750.00	7,568.45	93.93	73.58	-102.79	1,547.10	3,163.86	945.81	873.27	72.54	13.039		
9,150.00	7,693.72	8,770.84	7,576.06	94.10	73.51	-97.50	1,528.15	3,167.97	963.22	891.07	72.14	13.351		
9,200.00	7,724.85	8,800.00	7,585.69	94.23	73.43	-92.81	1,501.12	3,173.15	979.40	907.82	71.58	13.683		
9,250.00	7,753.45	8,814.46	7,590.01	94.30	73.38	-89.07	1,487.52	3,175.48	994.06	922.17	71.89	13.827		
9,300.00	7,779.31	8,836.43	7,596.00	94.34	73.30	-85.80	1,466.63	3,178.69	1,007.25	935.15	72.10	13.971		
9,350.00	7,802.23	8,850.00	7,599.35	94.33	73.26	-83.17	1,453.60	3,180.48	1,018.90	945.84	73.06	13.945		
9,400.00	7,822.03	8,880.61	7,605.90	94.28	73.14	-80.86	1,423.91	3,183.97	1,028.70	955.49	73.21	14.052		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,900.00	7,609.33	94.20	73.07	79.11	1,404.91	3,185.79	1,036.83	962.50	74.33	13.949		
9,500.00	7,851.72	8,925.01	7,612.91	94.10	72.97	77.75	1,380.23	3,187.67	1,043.12	967.84	75.28	13.857		
9,550.00	7,861.37	8,950.00	7,615.55	93.96	72.87	76.80	1,355.42	3,189.03	1,047.57	971.14	76.43	13.706		
9,600.00	7,867.46	8,969.54	7,616.95	93.81	72.78	76.25	1,335.94	3,189.73	1,050.13	971.88	78.25	13.420		
9,650.00	7,869.94	9,000.00	7,617.97	93.64	72.65	76.06	1,305.51	3,190.19	1,050.86	971.58	79.29	13.254		
9,659.14	7,870.00	9,000.00	7,617.97	93.60	72.65	76.06	1,305.51	3,190.19	1,050.73	970.73	80.00	13.134		
9,675.96	7,870.00	9,013.79	7,618.00	93.54	72.59	76.06	1,306.09	3,190.21	1,050.56	969.26	81.30	12.923		
9,700.00	7,870.00	9,023.46	7,618.00	93.46	72.55	76.06	1,282.05	3,190.13	1,050.56	969.49	81.07	12.959		
9,800.00	7,870.00	9,123.46	7,618.00	93.11	72.12	76.06	1,182.05	3,189.79	1,050.56	970.77	79.79	13.167		
9,900.00	7,870.00	9,223.46	7,618.00	92.77	71.71	76.06	1,082.05	3,189.45	1,050.56	971.92	78.64	13.360		
10,000.00	7,870.00	9,323.46	7,618.00	92.46	71.32	76.06	982.05	3,189.11	1,050.56	972.94	77.62	13.534		
10,100.00	7,870.00	9,423.46	7,618.00	92.16	70.95	76.06	882.05	3,188.77	1,050.56	973.82	76.75	13.688		
10,200.00	7,870.00	9,523.46	7,618.00	91.87	70.60	76.06	782.05	3,188.43	1,050.57	974.54	76.02	13.819		
10,300.00	7,870.00	9,623.46	7,618.00	91.60	70.28	76.06	682.05	3,188.09	1,050.57	975.12	75.45	13.924		
10,400.00	7,870.00	9,723.46	7,618.00	91.34	69.97	76.06	582.06	3,187.75	1,050.57	975.54	75.03	14.002		
10,500.00	7,870.00	9,823.46	7,618.00	91.11	69.68	76.06	482.06	3,187.41	1,050.57	975.80	74.77	14.051		
10,600.00	7,870.00	9,923.46	7,618.00	90.88	69.41	76.07	382.06	3,187.07	1,050.57	975.91	74.66	14.071		
10,700.00	7,870.00	10,023.46	7,618.00	90.67	69.16	76.07	282.06	3,186.73	1,050.58	975.86	74.72	14.060		
10,800.00	7,870.00	10,123.46	7,618.00	90.48	68.94	76.07	182.06	3,186.39	1,050.58	975.64	74.94	14.020		
10,900.00	7,870.00	10,223.46	7,618.00	90.31	68.73	76.07	82.06	3,186.05	1,050.58	975.27	75.31	13.950		
11,000.00	7,870.00	10,323.46	7,618.00	90.15	68.55	76.07	-17.94	3,185.72	1,050.58	974.75	75.84	13.853		
11,100.00	7,870.00	10,423.46	7,618.00	90.00	68.38	76.07	-117.94	3,185.38	1,050.58	974.07	76.52	13.730		
11,200.00	7,870.00	10,523.46	7,618.00	89.88	68.24	76.07	-217.94	3,185.04	1,050.59	973.24	77.34	13.583		
11,300.00	7,870.00	10,623.46	7,618.00	89.77	68.13	76.07	-317.94	3,184.70	1,050.59	972.27	78.32	13.415		
11,400.00	7,870.00	10,723.46	7,618.00	89.68	68.04	76.07	-417.94	3,184.36	1,050.59	971.16	79.43	13.227		
11,500.00	7,870.00	10,823.46	7,618.00	89.60	67.98	76.07	-517.94	3,184.02	1,050.59	969.92	80.67	13.024		
11,600.00	7,870.00	10,923.46	7,618.00	89.55	67.95	76.07	-617.94	3,183.68	1,050.59	968.56	82.04	12.806		
11,700.00	7,870.00	11,023.46	7,618.00	89.52	67.95	76.07	-717.94	3,183.34	1,050.59	967.07	83.53	12.578		
11,800.00	7,870.00	11,123.46	7,618.00	89.50	67.98	76.07	-817.94	3,183.00	1,050.60	965.47	85.13	12.341		
11,900.00	7,870.00	11,223.46	7,618.00	89.51	68.06	76.07	-917.94	3,182.66	1,050.60	963.76	86.84	12.098		
12,000.00	7,870.00	11,323.46	7,618.00	89.54	68.18	76.07	-1,017.94	3,182.32	1,050.60	961.95	88.65	11.851		
12,100.00	7,870.00	11,423.46	7,618.00	89.59	68.34	76.07	-1,117.94	3,181.98	1,050.60	960.04	90.56	11.601		
12,200.00	7,870.00	11,523.46	7,618.00	89.66	68.55	76.07	-1,217.93	3,181.64	1,050.60	958.05	92.55	11.351		
12,300.00	7,870.00	11,623.46	7,618.00	89.77	68.82	76.07	-1,317.93	3,181.30	1,050.61	955.97	94.63	11.102		
12,400.00	7,870.00	11,723.46	7,618.00	89.89	69.14	76.07	-1,417.93	3,180.97	1,050.61	953.82	96.79	10.854		
12,500.00	7,870.00	11,823.46	7,618.00	90.05	69.53	76.07	-1,517.93	3,180.63	1,050.61	951.59	99.02	10.610		
12,600.00	7,870.00	11,923.46	7,618.00	90.24	69.99	76.07	-1,617.93	3,180.29	1,050.61	949.29	101.32	10.369		
12,700.00	7,870.00	12,023.46	7,618.00	90.46	70.52	76.07	-1,717.93	3,179.95	1,050.61	946.93	103.69	10.133		
12,800.00	7,870.00	12,123.46	7,618.00	90.71	71.12	76.07	-1,817.93	3,179.61	1,050.62	944.51	106.11	9.901		
12,900.00	7,870.00	12,223.46	7,618.00	90.99	71.79	76.07	-1,917.93	3,179.27	1,050.62	942.03	108.59	9.675		
13,000.00	7,870.00	12,323.46	7,618.00	91.32	72.53	76.07	-2,017.93	3,178.93	1,050.62	939.50	111.12	9.455		
13,100.00	7,870.00	12,423.46	7,618.00	91.68	73.34	76.07	-2,117.93	3,178.59	1,050.62	936.93	113.70	9.241		
13,200.00	7,870.00	12,523.46	7,618.00	92.08	74.22	76.07	-2,217.93	3,178.25	1,050.62	934.30	116.32	9.032		
13,300.00	7,870.00	12,623.46	7,618.00	92.52	75.16	76.07	-2,317.93	3,177.91	1,050.63	931.64	118.99	8.830		
13,400.00	7,870.00	12,723.46	7,618.00	93.00	76.15	76.07	-2,417.93	3,177.57	1,050.63	928.94	121.69	8.634		
13,500.00	7,870.00	12,823.46	7,618.00	93.53	77.20	76.07	-2,517.93	3,177.23	1,050.63	926.20	124.43	8.443		
13,600.00	7,870.00	12,923.46	7,618.00	94.10	78.30	76.07	-2,617.93	3,176.89	1,050.63	923.42	127.21	8.259		
13,700.00	7,870.00	13,023.46	7,618.00	94.72	79.44	76.07	-2,717.93	3,176.56	1,050.63	920.61	130.02	8.081		
13,800.00	7,870.00	13,123.46	7,618.00	95.38	80.61	76.07	-2,817.93	3,176.22	1,050.63	917.78	132.86	7.908		
13,900.00	7,870.00	13,223.46	7,618.00	96.09	81.83	76.07	-2,917.92	3,175.88	1,050.64	914.91	135.73	7.741		
14,000.00	7,870.00	13,323.46	7,618.00	96.84	83.08	76.07	-3,017.92	3,175.54	1,050.64	912.02	138.62	7.579		
14,100.00	7,870.00	13,423.46	7,618.00	97.64	84.35	76.07	-3,117.92	3,175.20	1,050.64	909.10	141.54	7.423		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	13,523.46	7,618.00	98.48	85.66	76.07	-3,217.92	3,174.86	1,050.64	906.16	144.48	7.272		
14,300.00	7,870.00	13,623.46	7,618.00	99.37	86.99	76.07	-3,317.92	3,174.52	1,050.64	903.20	147.45	7.126		
14,400.00	7,870.00	13,723.46	7,618.00	100.30	88.34	76.07	-3,417.92	3,174.18	1,050.65	900.21	150.43	6.984		
14,500.00	7,870.00	13,823.46	7,618.00	101.26	89.71	76.07	-3,517.92	3,173.84	1,050.65	897.21	153.44	6.847		
14,600.00	7,870.00	13,923.46	7,618.00	102.27	91.10	76.07	-3,617.92	3,173.50	1,050.65	894.19	156.46	6.715		
14,700.00	7,870.00	14,023.46	7,618.00	103.31	92.50	76.07	-3,717.92	3,173.16	1,050.65	891.15	159.50	6.587		
14,800.00	7,870.00	14,123.46	7,618.00	104.38	93.93	76.07	-3,817.92	3,172.82	1,050.65	888.10	162.56	6.463		
14,900.00	7,870.00	14,223.46	7,618.00	105.49	95.36	76.07	-3,917.92	3,172.48	1,050.66	885.02	165.63	6.343		
15,000.00	7,870.00	14,323.46	7,618.00	106.63	96.81	76.07	-4,017.92	3,172.14	1,050.66	881.94	168.72	6.227		
15,100.00	7,870.00	14,423.46	7,618.00	107.80	98.28	76.07	-4,117.92	3,171.81	1,050.66	878.84	171.82	6.115		
15,200.00	7,870.00	14,523.46	7,618.00	109.00	99.75	76.07	-4,217.92	3,171.47	1,050.66	875.73	174.93	6.006		
15,300.00	7,870.00	14,623.46	7,618.00	110.22	101.24	76.07	-4,317.92	3,171.13	1,050.66	872.60	178.06	5.901		
15,400.00	7,870.00	14,723.46	7,618.00	111.47	102.74	76.07	-4,417.92	3,170.79	1,050.66	869.47	181.20	5.798		
15,500.00	7,870.00	14,823.46	7,618.00	112.74	104.24	76.07	-4,517.92	3,170.45	1,050.67	866.32	184.35	5.699		
15,600.00	7,870.00	14,923.46	7,618.00	114.03	105.76	76.07	-4,617.92	3,170.11	1,050.67	863.16	187.51	5.603		
15,700.00	7,870.00	15,023.46	7,618.00	115.34	107.28	76.07	-4,717.91	3,169.77	1,050.67	859.99	190.68	5.510		
15,800.00	7,870.00	15,123.46	7,618.00	116.68	108.81	76.07	-4,817.91	3,169.43	1,050.67	856.82	193.86	5.420		
15,900.00	7,870.00	15,223.46	7,618.00	118.02	110.35	76.07	-4,917.91	3,169.09	1,050.67	853.63	197.04	5.332		
16,000.00	7,870.00	15,323.46	7,618.00	119.39	111.90	76.07	-5,017.91	3,168.75	1,050.68	850.43	200.24	5.247		
16,100.00	7,870.00	15,423.46	7,618.00	120.77	113.45	76.07	-5,117.91	3,168.41	1,050.68	847.23	203.45	5.164		
16,200.00	7,870.00	15,523.46	7,618.00	122.17	115.01	76.07	-5,217.91	3,168.07	1,050.68	844.02	206.66	5.084		
16,300.00	7,870.00	15,623.46	7,618.00	123.58	116.58	76.07	-5,317.91	3,167.73	1,050.68	840.80	209.88	5.006		
16,400.00	7,870.00	15,723.46	7,618.00	125.00	118.15	76.07	-5,417.91	3,167.39	1,050.68	837.57	213.11	4.930		
16,500.00	7,870.00	15,823.46	7,618.00	126.43	119.73	76.07	-5,517.91	3,167.06	1,050.69	834.34	216.35	4.856		
16,600.00	7,870.00	15,923.46	7,618.00	127.88	121.31	76.07	-5,617.91	3,166.72	1,050.69	831.10	219.59	4.785		
16,700.00	7,870.00	16,023.46	7,618.00	129.34	122.90	76.07	-5,717.91	3,166.38	1,050.69	827.85	222.84	4.715		
16,800.00	7,870.00	16,123.46	7,618.00	130.81	124.50	76.07	-5,817.91	3,166.04	1,050.69	824.60	226.09	4.647		
16,900.00	7,870.00	16,223.46	7,618.00	132.28	126.09	76.07	-5,917.91	3,165.70	1,050.69	821.34	229.35	4.581		
17,000.00	7,870.00	16,323.46	7,618.00	133.77	127.70	76.07	-6,017.91	3,165.36	1,050.69	818.08	232.62	4.517		
17,100.00	7,870.00	16,423.46	7,618.00	135.27	129.30	76.07	-6,117.91	3,165.02	1,050.70	814.81	235.89	4.454		
17,200.00	7,870.00	16,523.46	7,618.00	136.77	130.91	76.07	-6,217.91	3,164.68	1,050.70	811.54	239.16	4.393		
17,300.00	7,870.00	16,623.46	7,618.00	138.28	132.53	76.07	-6,317.91	3,164.34	1,050.70	808.26	242.44	4.334		
17,400.00	7,870.00	16,723.46	7,618.00	139.80	134.15	76.07	-6,417.90	3,164.00	1,050.70	804.98	245.73	4.276		
17,500.00	7,870.00	16,823.46	7,618.00	141.33	135.77	76.07	-6,517.90	3,163.66	1,050.70	801.69	249.02	4.219		
17,600.00	7,870.00	16,923.46	7,618.00	142.86	137.40	76.07	-6,617.90	3,163.32	1,050.71	798.40	252.31	4.164		
17,700.00	7,870.00	17,023.46	7,618.00	144.40	139.03	76.07	-6,717.90	3,162.98	1,050.71	795.10	255.61	4.111		
17,800.00	7,870.00	17,123.46	7,618.00	145.95	140.66	76.07	-6,817.90	3,162.65	1,050.71	791.80	258.91	4.058		
17,900.00	7,870.00	17,223.46	7,618.00	147.50	142.29	76.07	-6,917.90	3,162.31	1,050.71	788.49	262.22	4.007		
18,000.00	7,870.00	17,323.46	7,618.00	149.06	143.93	76.07	-7,017.90	3,161.97	1,050.71	785.19	265.53	3.957		
18,100.00	7,870.00	17,423.46	7,618.00	150.63	145.57	76.07	-7,117.90	3,161.63	1,050.72	781.88	268.84	3.908		
18,200.00	7,870.00	17,523.46	7,618.00	152.20	147.22	76.07	-7,217.90	3,161.29	1,050.72	778.56	272.16	3.861		
18,300.00	7,870.00	17,623.46	7,618.00	153.77	148.87	76.07	-7,317.90	3,160.95	1,050.72	775.24	275.48	3.814		
18,400.00	7,870.00	17,723.46	7,618.00	155.35	150.52	76.07	-7,417.90	3,160.61	1,050.72	771.92	278.80	3.769		
18,500.00	7,870.00	17,823.46	7,618.00	156.93	152.17	76.07	-7,517.90	3,160.27	1,050.72	768.60	282.13	3.724		
18,600.00	7,870.00	17,923.46	7,618.00	158.52	153.82	76.07	-7,617.90	3,159.93	1,050.72	765.27	285.45	3.681		
18,700.00	7,870.00	18,023.46	7,618.00	160.11	155.48	76.07	-7,717.90	3,159.59	1,050.73	761.94	288.79	3.638		
18,800.00	7,870.00	18,123.46	7,618.00	161.71	157.14	76.07	-7,817.90	3,159.25	1,050.73	758.61	292.12	3.597		
18,900.00	7,870.00	18,223.46	7,618.00	163.31	158.80	76.07	-7,917.90	3,158.91	1,050.73	755.27	295.46	3.556		
19,000.00	7,870.00	18,323.46	7,618.00	164.91	160.46	76.07	-8,017.90	3,158.57	1,050.73	751.93	298.80	3.517		
19,100.00	7,870.00	18,423.46	7,618.00	166.52	162.13	76.07	-8,117.90	3,158.23	1,050.73	748.59	302.14	3.478		
19,200.00	7,870.00	18,523.46	7,618.00	168.13	163.80	76.07	-8,217.89	3,157.90	1,050.74	745.25	305.49	3.440		
19,300.00	7,870.00	18,623.46	7,618.00	169.75	165.47	76.07	-8,317.89	3,157.56	1,050.74	741.91	308.83	3.402		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	18,706.96	7,618.00	171.10	166.86	76.07	-8,401.40	3,157.27	1,050.74	739.11	311.63	3.372 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	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	
200.00	200.00	200.00	200.00	0.49	0.49	-88.95	0.36	-19.88	19.88	18.90	0.99	20.170	
300.00	300.00	300.00	300.00	0.85	0.85	-88.95	0.36	-19.88	19.88	18.18	1.70	11.677	
400.00	400.00	400.00	400.00	1.21	1.21	-88.95	0.36	-19.88	19.88	17.46	2.42	8.217	
500.00	500.00	500.00	500.00	1.57	1.57	-88.95	0.36	-19.88	19.88	16.75	3.14	6.339	
600.00	600.00	600.00	600.00	1.93	1.93	-88.95	0.36	-19.88	19.88	16.03	3.85	5.160	CC, ES
700.00	699.98	700.02	699.98	2.28	2.29	-154.89	0.36	-19.88	21.45	16.88	4.57	4.698	
800.00	799.84	799.84	799.84	2.64	2.64	-159.70	0.36	-19.88	26.28	21.01	5.28	4.981	
900.00	899.45	900.56	900.54	3.00	3.00	-163.70	1.26	-18.36	32.95	26.97	5.99	5.505	
1,000.00	998.70	1,001.52	1,001.36	3.37	3.36	-165.97	3.95	-13.77	39.77	33.08	6.69	5.945	
1,100.00	1,097.47	1,102.74	1,102.17	3.76	3.72	-167.24	8.45	-6.10	46.66	39.26	7.39	6.312	
1,200.00	1,195.62	1,204.20	1,202.86	4.18	4.10	-167.91	14.78	4.67	53.58	45.48	8.10	6.618	
1,300.00	1,293.06	1,305.90	1,303.28	4.63	4.49	-168.16	22.92	18.54	60.51	51.71	8.80	6.876	
1,400.00	1,389.64	1,407.85	1,403.30	5.11	4.91	-168.13	32.89	35.52	67.45	57.94	9.51	7.091	
1,500.00	1,485.27	1,510.04	1,502.79	5.63	5.35	-167.89	44.68	55.62	74.38	64.15	10.23	7.271	
1,600.00	1,579.82	1,612.47	1,601.62	6.20	5.84	-167.50	58.30	78.81	81.29	70.33	10.96	7.420	
1,700.00	1,673.17	1,715.14	1,699.65	6.83	6.36	-167.00	73.73	105.11	88.18	76.49	11.70	7.539	
1,800.00	1,765.21	1,818.04	1,796.75	7.51	6.94	-166.39	90.98	134.48	95.05	82.60	12.46	7.630	
1,900.00	1,855.84	1,921.17	1,892.77	8.24	7.57	-165.71	110.02	166.92	101.90	88.65	13.24	7.694	
2,000.00	1,944.94	2,024.54	1,987.59	9.05	8.25	-164.97	130.85	202.40	108.72	94.66	14.06	7.732	
2,100.00	2,032.39	2,128.12	2,081.06	9.91	9.01	-164.18	153.44	240.90	115.50	100.59	14.92	7.743	
2,200.00	2,118.11	2,231.93	2,173.05	10.85	9.83	-163.34	177.79	282.37	122.26	106.44	15.82	7.729	
2,300.00	2,201.97	2,335.96	2,263.42	11.85	10.72	-162.46	203.86	326.79	128.98	112.20	16.78	7.689	
2,400.00	2,283.88	2,440.19	2,352.04	12.93	11.69	-161.56	231.64	374.10	135.67	117.87	17.80	7.622	
2,429.47	2,307.63	2,470.95	2,377.80	13.26	11.98	-161.28	240.14	388.59	137.63	119.52	18.11	7.598	
2,500.00	2,364.26	2,542.84	2,437.45	14.06	12.70	-160.59	260.46	423.21	141.75	122.80	18.95	7.481	
2,600.00	2,444.56	2,642.66	2,520.11	15.22	13.72	-159.65	288.78	471.45	147.37	127.14	20.23	7.284	
2,700.00	2,524.85	2,742.47	2,602.77	16.39	14.77	-158.78	317.11	519.70	153.03	131.46	21.56	7.096	
2,800.00	2,605.14	2,842.29	2,685.43	17.57	15.82	-157.98	345.43	567.95	158.72	135.78	22.94	6.920	
2,900.00	2,685.43	2,942.10	2,768.09	18.76	16.89	-157.23	373.75	616.20	164.44	140.09	24.35	6.754	
3,000.00	2,765.73	3,041.91	2,850.75	19.96	17.97	-156.53	402.08	664.45	170.19	144.39	25.79	6.598	
3,100.00	2,846.02	3,141.73	2,933.41	21.16	19.06	-155.87	430.40	712.70	175.96	148.69	27.27	6.453	
3,200.00	2,926.31	3,241.54	3,016.07	22.37	20.15	-155.26	458.72	760.95	181.75	152.98	28.77	6.318	
3,300.00	3,006.60	3,341.36	3,098.73	23.59	21.25	-154.68	487.04	809.20	187.56	157.27	30.29	6.191	
3,400.00	3,086.90	3,441.17	3,181.39	24.81	22.35	-154.14	515.37	857.45	193.39	161.55	31.84	6.074	
3,500.00	3,167.19	3,540.98	3,264.05	26.03	23.46	-153.63	543.69	905.70	199.23	165.82	33.41	5.963	
3,600.00	3,247.48	3,640.80	3,346.71	27.25	24.57	-153.15	572.01	953.95	205.09	170.10	35.00	5.861	
3,700.00	3,327.77	3,740.61	3,429.37	28.48	25.69	-152.70	600.34	1,002.20	210.97	174.37	36.60	5.764	
3,800.00	3,408.07	3,840.42	3,512.03	29.71	26.80	-152.27	628.66	1,050.45	216.85	178.64	38.22	5.675	
3,900.00	3,488.36	3,940.24	3,594.69	30.94	27.92	-151.87	656.98	1,098.70	222.75	182.90	39.85	5.590	
4,000.00	3,568.65	4,040.05	3,677.35	32.17	29.05	-151.48	685.30	1,146.95	228.66	187.17	41.49	5.511	
4,100.00	3,648.95	4,139.87	3,760.01	33.41	30.17	-151.12	713.63	1,195.19	234.57	191.43	43.14	5.437	
4,200.00	3,729.24	4,239.68	3,842.67	34.64	31.30	-150.77	741.95	1,243.44	240.50	195.69	44.81	5.367	
4,300.00	3,809.53	4,339.49	3,925.33	35.88	32.42	-150.44	770.27	1,291.69	246.44	199.95	46.49	5.301	
4,400.00	3,889.82	4,439.31	4,007.99	37.12	33.55	-150.12	798.60	1,339.94	252.38	204.21	48.17	5.239	
4,500.00	3,970.12	4,539.12	4,090.65	38.36	34.68	-149.82	826.92	1,388.19	258.33	208.47	49.86	5.181	
4,600.00	4,050.41	4,638.94	4,173.31	39.60	35.81	-149.53	855.24	1,436.44	264.29	212.73	51.56	5.126	
4,700.00	4,130.70	4,738.75	4,255.96	40.84	36.94	-149.26	883.57	1,484.69	270.25	216.98	53.27	5.073	
4,800.00	4,210.99	4,838.56	4,338.62	42.08	38.08	-149.00	911.89	1,532.94	276.22	221.24	54.98	5.024	
4,900.00	4,291.29	4,938.38	4,421.28	43.32	39.21	-148.75	940.21	1,581.19	282.19	225.49	56.70	4.977	
5,000.00	4,371.58	5,038.19	4,503.94	44.57	40.34	-148.50	968.53	1,629.44	288.17	229.75	58.43	4.932	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,138.00	4,586.60	45.81	41.48	-148.27	996.86	1,677.69	294.16	234.00	60.16	4.890		
5,200.00	4,532.16	5,237.82	4,669.26	47.05	42.61	-148.05	1,025.18	1,725.94	300.15	238.26	61.89	4.850		
5,300.00	4,612.46	5,337.63	4,751.92	48.30	43.75	-147.84	1,053.50	1,774.19	306.14	242.51	63.63	4.811		
5,400.00	4,692.75	5,437.45	4,834.58	49.54	44.89	-147.63	1,081.83	1,822.44	312.14	246.77	65.37	4.775		
5,500.00	4,773.04	5,537.26	4,917.24	50.79	46.03	-147.44	1,110.15	1,870.69	318.14	251.02	67.12	4.740		
5,600.00	4,853.34	5,637.07	4,999.90	52.03	47.16	-147.25	1,138.47	1,918.93	324.15	255.27	68.87	4.706		
5,700.00	4,933.63	5,736.89	5,082.56	53.28	48.30	-147.06	1,166.80	1,967.18	330.16	259.53	70.63	4.675		
5,800.00	5,013.92	5,836.70	5,165.22	54.53	49.44	-146.89	1,195.12	2,015.43	336.17	263.78	72.39	4.644		
5,900.00	5,094.21	5,936.52	5,247.88	55.77	50.58	-146.71	1,223.44	2,063.68	342.18	268.04	74.15	4.615		
6,000.00	5,174.51	6,036.33	5,330.54	57.02	51.72	-146.55	1,251.76	2,111.93	348.20	272.29	75.91	4.587		
6,100.00	5,254.80	6,136.14	5,413.20	58.27	52.86	-146.39	1,280.09	2,160.18	354.22	276.54	77.68	4.560		
6,200.00	5,335.09	6,235.96	5,495.86	59.52	54.00	-146.24	1,308.41	2,208.43	360.24	280.80	79.45	4.534		
6,300.00	5,415.38	6,335.77	5,578.52	60.76	55.14	-146.09	1,336.73	2,256.68	366.27	285.05	81.22	4.510		
6,400.00	5,495.68	6,435.59	5,661.18	62.01	56.28	-145.95	1,365.06	2,304.93	372.30	289.30	82.99	4.486		
6,500.00	5,575.97	6,535.40	5,743.84	63.26	57.42	-145.81	1,393.38	2,353.18	378.33	293.56	84.77	4.463		
6,600.00	5,656.26	6,635.21	5,826.50	64.51	58.56	-145.67	1,421.70	2,401.43	384.36	297.81	86.55	4.441		
6,700.00	5,736.55	6,735.03	5,909.16	65.76	59.70	-145.54	1,450.02	2,449.68	390.40	302.07	88.33	4.420		
6,800.00	5,816.85	6,834.84	5,991.82	67.01	60.85	-145.41	1,478.35	2,497.93	396.43	306.32	90.11	4.399		
6,900.00	5,897.14	6,934.65	6,074.48	68.26	61.99	-145.29	1,506.67	2,546.18	402.47	310.57	91.90	4.380		
7,000.00	5,977.43	7,034.47	6,157.14	69.50	63.13	-145.17	1,534.99	2,594.43	408.51	314.83	93.68	4.361		
7,100.00	6,057.72	7,134.28	6,239.80	70.75	64.27	-145.06	1,563.32	2,642.68	414.55	319.08	95.47	4.342		
7,200.00	6,138.02	7,234.10	6,322.46	72.00	65.41	-144.94	1,591.64	2,690.92	420.60	323.34	97.26	4.324		
7,300.00	6,218.31	7,333.91	6,405.12	73.25	66.56	-144.83	1,619.96	2,739.17	426.64	327.59	99.05	4.307		
7,400.00	6,298.60	7,433.72	6,487.78	74.50	67.70	-144.73	1,648.29	2,787.42	432.69	331.85	100.84	4.291		
7,500.00	6,378.90	7,533.54	6,570.43	75.75	68.84	-144.62	1,676.61	2,835.67	438.74	336.10	102.64	4.275		
7,600.00	6,459.19	7,633.35	6,653.09	77.00	69.99	-144.52	1,704.93	2,883.92	444.79	340.36	104.43	4.259		
7,700.00	6,539.48	7,733.17	6,735.75	78.25	71.13	-144.43	1,733.25	2,932.17	450.84	344.61	106.23	4.244		
7,800.00	6,619.77	7,832.98	6,818.41	79.50	72.27	-144.33	1,761.58	2,980.42	456.89	348.87	108.02	4.230		
7,900.00	6,700.07	7,932.79	6,901.07	80.75	73.41	-144.24	1,789.90	3,028.67	462.94	353.12	109.82	4.215		
8,000.00	6,780.36	8,032.61	6,983.73	82.00	74.56	-144.15	1,818.22	3,076.92	469.00	357.38	111.62	4.202		
8,100.00	6,860.65	8,132.42	7,066.39	83.25	75.70	-144.06	1,846.55	3,125.17	475.05	361.63	113.42	4.188		
8,200.00	6,940.94	8,242.82	7,163.18	84.50	76.99	-144.65	1,873.52	3,181.65	480.02	365.75	114.26	4.201		
8,300.00	7,021.24	8,364.78	7,263.98	85.76	78.11	-147.85	1,878.39	3,240.38	481.18	370.33	110.85	4.341		
8,342.05	7,055.00	8,410.04	7,302.89	86.28	78.48	-149.80	1,873.87	3,263.03	481.16	372.72	108.44	4.437		
8,400.00	7,101.53	8,467.66	7,351.78	87.01	78.90	-152.85	1,863.01	3,291.48	481.46	376.86	104.60	4.603		
8,500.00	7,181.82	8,553.58	7,422.34	88.26	79.39	-158.46	1,836.42	3,332.49	485.34	387.70	97.64	4.971		
8,605.60	7,266.61	8,626.92	7,479.30	89.58	79.68	-164.11	1,804.28	3,365.57	497.91	406.95	90.96	5.474		
8,650.00	7,302.60	8,654.16	7,499.49	90.13	79.77	-172.94	1,790.24	3,377.28	506.36	417.77	88.59	5.716		
8,700.00	7,343.78	8,684.33	7,521.14	90.72	79.84	176.58	1,773.41	3,389.84	517.63	431.28	86.35	5.994		
8,750.00	7,385.32	8,714.05	7,541.70	91.28	79.90	165.80	1,755.57	3,401.75	530.39	445.93	84.46	6.280		
8,800.00	7,426.92	8,743.39	7,561.19	91.81	79.94	155.05	1,736.77	3,413.04	544.25	461.44	82.81	6.572		
8,850.00	7,468.27	8,772.41	7,579.62	92.29	79.97	144.69	1,717.06	3,423.72	558.85	477.53	81.32	6.872		
8,900.00	7,509.04	8,800.00	7,596.33	92.72	79.98	135.04	1,697.35	3,433.38	573.86	493.88	79.98	7.175		
8,950.00	7,548.93	8,829.68	7,613.37	93.10	79.98	126.14	1,675.13	3,443.23	588.98	510.30	78.67	7.486		
9,000.00	7,587.63	8,858.01	7,628.68	93.43	79.96	118.23	1,653.01	3,452.08	603.96	526.47	77.49	7.794		
9,050.00	7,624.85	8,886.16	7,642.94	93.71	79.94	111.25	1,630.18	3,460.31	618.57	542.15	76.42	8.095		
9,100.00	7,660.30	8,914.17	7,656.16	93.93	79.90	105.18	1,606.69	3,467.93	632.61	557.13	75.48	8.381		
9,150.00	7,693.72	8,942.05	7,668.31	94.10	79.86	99.92	1,582.59	3,474.93	645.91	571.19	74.72	8.644		
9,200.00	7,724.85	8,969.83	7,679.40	94.23	79.80	95.41	1,557.94	3,481.30	658.31	584.13	74.18	8.875		
9,250.00	7,753.45	9,000.00	7,690.26	94.30	79.73	91.53	1,530.50	3,487.54	669.70	595.94	73.75	9.080		
9,300.00	7,779.31	9,025.13	7,698.34	94.34	79.66	88.34	1,507.16	3,492.17	679.93	606.05	73.88	9.203		
9,350.00	7,802.23	9,050.00	7,705.47	94.33	79.59	85.68	1,483.68	3,496.24	688.96	614.56	74.40	9.260		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	9,080.17	7,712.92	94.28	79.50	83.44	1,454.76	3,500.48	696.67	621.81	74.86	9.307		
9,450.00	7,838.57	9,100.00	7,717.09	94.20	79.43	81.75	1,435.52	3,502.85	703.09	626.48	76.62	9.177		
9,500.00	7,851.72	9,135.05	7,723.05	94.10	79.31	80.36	1,401.15	3,506.21	707.95	630.74	77.21	9.169		
9,550.00	7,861.37	9,162.44	7,726.45	93.96	79.21	79.42	1,374.04	3,508.09	711.43	632.53	78.90	9.017		
9,600.00	7,867.46	9,189.82	7,728.71	93.81	79.10	78.87	1,346.78	3,509.32	713.43	632.54	80.89	8.820		
9,650.00	7,869.94	9,217.20	7,729.85	93.64	78.99	78.68	1,319.44	3,509.89	713.93	630.78	83.15	8.586		
9,659.14	7,870.00	9,222.20	7,729.94	93.60	78.97	78.68	1,314.44	3,509.92	713.87	630.27	83.59	8.540		
9,668.57	7,870.00	9,238.02	7,730.00	93.57	78.90	78.69	1,312.39	3,509.95	713.78	629.39	84.39	8.458		
9,700.00	7,870.00	9,255.68	7,730.00	93.46	78.83	78.69	1,280.96	3,509.85	713.78	629.72	84.06	8.491		
9,800.00	7,870.00	9,355.68	7,730.00	93.11	78.43	78.69	1,180.96	3,509.51	713.78	630.96	82.82	8.619		
9,900.00	7,870.00	9,455.68	7,730.00	92.77	78.05	78.69	1,080.96	3,509.17	713.78	632.09	81.69	8.737		
10,000.00	7,870.00	9,555.68	7,730.00	92.46	77.68	78.69	980.96	3,508.83	713.78	633.08	80.71	8.844		
10,100.00	7,870.00	9,655.68	7,730.00	92.16	77.34	78.69	880.96	3,508.49	713.78	633.93	79.86	8.938		
10,200.00	7,870.00	9,755.68	7,730.00	91.87	77.01	78.69	780.96	3,508.16	713.78	634.63	79.15	9.018		
10,300.00	7,870.00	9,855.68	7,730.00	91.60	76.71	78.69	680.96	3,507.82	713.78	635.19	78.60	9.082		
10,400.00	7,870.00	9,955.68	7,730.00	91.34	76.42	78.69	580.96	3,507.48	713.78	635.59	78.19	9.129		
10,500.00	7,870.00	10,055.68	7,730.00	91.11	76.15	78.69	480.96	3,507.14	713.78	635.85	77.94	9.158		
10,600.00	7,870.00	10,155.68	7,730.00	90.88	75.90	78.69	380.96	3,506.81	713.78	635.95	77.84	9.170		
10,700.00	7,870.00	10,255.68	7,730.00	90.67	75.66	78.69	280.96	3,506.47	713.78	635.89	77.90	9.163		
10,800.00	7,870.00	10,355.68	7,730.00	90.48	75.45	78.69	180.96	3,506.13	713.79	635.67	78.11	9.138		
10,900.00	7,870.00	10,455.68	7,730.00	90.31	75.25	78.69	80.96	3,505.79	713.79	635.31	78.48	9.095		
11,000.00	7,870.00	10,555.68	7,730.00	90.15	75.08	78.69	-19.04	3,505.45	713.79	634.79	79.00	9.036		
11,100.00	7,870.00	10,655.68	7,730.00	90.00	74.92	78.69	-119.04	3,505.12	713.79	634.12	79.66	8.960		
11,200.00	7,870.00	10,755.68	7,730.00	89.88	74.79	78.69	-219.04	3,504.78	713.79	633.31	80.47	8.870		
11,300.00	7,870.00	10,855.68	7,730.00	89.77	74.68	78.69	-319.04	3,504.44	713.79	632.36	81.43	8.766		
11,400.00	7,870.00	10,955.68	7,730.00	89.68	74.59	78.69	-419.03	3,504.10	713.79	631.27	82.52	8.650		
11,500.00	7,870.00	11,055.68	7,730.00	89.60	74.52	78.69	-519.03	3,503.77	713.79	630.05	83.74	8.524		
11,600.00	7,870.00	11,155.68	7,730.00	89.55	74.48	78.69	-619.03	3,503.43	713.79	628.71	85.08	8.390		
11,700.00	7,870.00	11,255.68	7,730.00	89.52	74.47	78.69	-719.03	3,503.09	713.79	627.25	86.54	8.248		
11,800.00	7,870.00	11,355.68	7,730.00	89.50	74.49	78.69	-819.03	3,502.75	713.79	625.67	88.12	8.100		
11,900.00	7,870.00	11,455.68	7,730.00	89.51	74.53	78.69	-919.03	3,502.42	713.79	623.99	89.80	7.948		
12,000.00	7,870.00	11,555.68	7,730.00	89.54	74.61	78.69	-1,019.03	3,502.08	713.79	622.20	91.59	7.794		
12,100.00	7,870.00	11,655.68	7,730.00	89.59	74.72	78.69	-1,119.03	3,501.74	713.79	620.32	93.47	7.637		
12,200.00	7,870.00	11,755.68	7,730.00	89.66	74.88	78.69	-1,219.03	3,501.40	713.79	618.35	95.44	7.479		
12,300.00	7,870.00	11,855.68	7,730.00	89.77	75.07	78.69	-1,319.03	3,501.06	713.79	616.30	97.49	7.322		
12,400.00	7,870.00	11,955.68	7,730.00	89.89	75.31	78.69	-1,419.03	3,500.73	713.79	614.17	99.62	7.165		
12,500.00	7,870.00	12,055.68	7,730.00	90.05	75.59	78.69	-1,519.03	3,500.39	713.79	611.96	101.83	7.010		
12,600.00	7,870.00	12,155.68	7,730.00	90.24	75.93	78.69	-1,619.03	3,500.05	713.79	609.68	104.11	6.856		
12,700.00	7,870.00	12,255.68	7,730.00	90.46	76.31	78.69	-1,719.03	3,499.71	713.79	607.34	106.45	6.705		
12,800.00	7,870.00	12,355.68	7,730.00	90.71	76.76	78.69	-1,819.03	3,499.38	713.79	604.94	108.85	6.557		
12,900.00	7,870.00	12,455.68	7,730.00	90.99	77.26	78.69	-1,919.03	3,499.04	713.79	602.48	111.31	6.413		
13,000.00	7,870.00	12,555.68	7,730.00	91.32	77.82	78.69	-2,019.03	3,498.70	713.79	599.97	113.82	6.271		
13,100.00	7,870.00	12,655.68	7,730.00	91.68	78.44	78.69	-2,119.02	3,498.36	713.79	597.41	116.39	6.133		
13,200.00	7,870.00	12,755.68	7,730.00	92.08	79.13	78.69	-2,219.02	3,498.02	713.80	594.80	119.00	5.998		
13,300.00	7,870.00	12,855.68	7,730.00	92.52	79.87	78.69	-2,319.02	3,497.69	713.80	592.15	121.65	5.868		
13,400.00	7,870.00	12,955.68	7,730.00	93.00	80.68	78.69	-2,419.02	3,497.35	713.80	589.45	124.34	5.741		
13,500.00	7,870.00	13,055.68	7,730.00	93.53	81.54	78.69	-2,519.02	3,497.01	713.80	586.72	127.07	5.617		
13,600.00	7,870.00	13,155.68	7,730.00	94.10	82.45	78.69	-2,619.02	3,496.67	713.80	583.96	129.84	5.497		
13,700.00	7,870.00	13,255.68	7,730.00	94.72	83.42	78.69	-2,719.02	3,496.34	713.80	581.16	132.64	5.381		
13,800.00	7,870.00	13,355.68	7,730.00	95.38	84.43	78.69	-2,819.02	3,496.00	713.80	578.32	135.47	5.269		
13,900.00	7,870.00	13,455.68	7,730.00	96.09	85.49	78.69	-2,919.02	3,495.66	713.80	575.46	138.34	5.160		
14,000.00	7,870.00	13,555.68	7,730.00	96.84	86.59	78.69	-3,019.02	3,495.32	713.80	572.57	141.23	5.054		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	13,655.68	7,730.00	97.64	87.73	78.69	-3,119.02	3,494.98	713.80	569.66	144.14	4.952		
14,200.00	7,870.00	13,755.68	7,730.00	98.48	88.91	78.69	-3,219.02	3,494.65	713.80	566.72	147.08	4.853		
14,300.00	7,870.00	13,855.68	7,730.00	99.37	90.12	78.69	-3,319.02	3,494.31	713.80	563.76	150.04	4.757		
14,400.00	7,870.00	13,955.68	7,730.00	100.30	91.36	78.69	-3,419.02	3,493.97	713.80	560.77	153.03	4.664		
14,500.00	7,870.00	14,055.68	7,730.00	101.26	92.63	78.69	-3,519.02	3,493.63	713.80	557.77	156.03	4.575		
14,600.00	7,870.00	14,155.68	7,730.00	102.27	93.92	78.69	-3,619.02	3,493.30	713.80	554.74	159.06	4.488		
14,700.00	7,870.00	14,255.68	7,730.00	103.31	95.23	78.69	-3,719.02	3,492.96	713.80	551.70	162.10	4.403		
14,800.00	7,870.00	14,355.68	7,730.00	104.38	96.57	78.69	-3,819.02	3,492.62	713.80	548.64	165.16	4.322		
14,900.00	7,870.00	14,455.68	7,730.00	105.49	97.93	78.69	-3,919.01	3,492.28	713.80	545.56	168.24	4.243		
15,000.00	7,870.00	14,555.68	7,730.00	106.63	99.31	78.69	-4,019.01	3,491.95	713.80	542.47	171.33	4.166		
15,100.00	7,870.00	14,655.68	7,730.00	107.80	100.70	78.69	-4,119.01	3,491.61	713.80	539.37	174.44	4.092		
15,200.00	7,870.00	14,755.68	7,730.00	109.00	102.11	78.69	-4,219.01	3,491.27	713.80	536.25	177.56	4.020		
15,300.00	7,870.00	14,855.68	7,730.00	110.22	103.54	78.69	-4,319.01	3,490.93	713.80	533.11	180.69	3.950		
15,400.00	7,870.00	14,955.68	7,730.00	111.47	104.97	78.69	-4,419.01	3,490.59	713.80	529.97	183.83	3.883		
15,500.00	7,870.00	15,055.68	7,730.00	112.74	106.43	78.69	-4,519.01	3,490.26	713.80	526.81	186.99	3.817		
15,600.00	7,870.00	15,155.68	7,730.00	114.03	107.89	78.69	-4,619.01	3,489.92	713.80	523.64	190.16	3.754		
15,700.00	7,870.00	15,255.68	7,730.00	115.34	109.36	78.69	-4,719.01	3,489.58	713.81	520.47	193.34	3.692		
15,800.00	7,870.00	15,355.68	7,730.00	116.68	110.85	78.69	-4,819.01	3,489.24	713.81	517.28	196.53	3.632		
15,900.00	7,870.00	15,455.68	7,730.00	118.02	112.34	78.69	-4,919.01	3,488.91	713.81	514.08	199.73	3.574		
16,000.00	7,870.00	15,555.68	7,730.00	119.39	113.85	78.69	-5,019.01	3,488.57	713.81	510.87	202.94	3.517		
16,100.00	7,870.00	15,655.68	7,730.00	120.77	115.36	78.69	-5,119.01	3,488.23	713.81	507.65	206.15	3.462		
16,200.00	7,870.00	15,755.68	7,730.00	122.17	116.88	78.69	-5,219.01	3,487.89	713.81	504.43	209.38	3.409		
16,300.00	7,870.00	15,855.68	7,730.00	123.58	118.41	78.69	-5,319.01	3,487.55	713.81	501.19	212.61	3.357		
16,400.00	7,870.00	15,955.68	7,730.00	125.00	119.95	78.69	-5,419.01	3,487.22	713.81	497.95	215.85	3.307		
16,500.00	7,870.00	16,055.68	7,730.00	126.43	121.49	78.69	-5,519.01	3,486.88	713.81	494.70	219.10	3.258		
16,600.00	7,870.00	16,155.68	7,730.00	127.88	123.04	78.69	-5,619.01	3,486.54	713.81	491.45	222.36	3.210		
16,700.00	7,870.00	16,255.68	7,730.00	129.34	124.60	78.69	-5,719.00	3,486.20	713.81	488.19	225.62	3.164		
16,800.00	7,870.00	16,355.68	7,730.00	130.81	126.17	78.69	-5,819.00	3,485.87	713.81	484.92	228.89	3.119		
16,900.00	7,870.00	16,455.68	7,730.00	132.28	127.73	78.69	-5,919.00	3,485.53	713.81	481.65	232.16	3.075		
17,000.00	7,870.00	16,555.68	7,730.00	133.77	129.31	78.69	-6,019.00	3,485.19	713.81	478.37	235.44	3.032		
17,100.00	7,870.00	16,655.68	7,730.00	135.27	130.89	78.69	-6,119.00	3,484.85	713.81	475.08	238.73	2.990		
17,200.00	7,870.00	16,755.68	7,730.00	136.77	132.47	78.69	-6,219.00	3,484.51	713.81	471.79	242.02	2.949		
17,300.00	7,870.00	16,855.68	7,730.00	138.28	134.06	78.69	-6,319.00	3,484.18	713.81	468.49	245.32	2.910		
17,400.00	7,870.00	16,955.68	7,730.00	139.80	135.66	78.69	-6,419.00	3,483.84	713.81	465.19	248.62	2.871		
17,500.00	7,870.00	17,055.68	7,730.00	141.33	137.26	78.69	-6,519.00	3,483.50	713.81	461.89	251.93	2.833		
17,600.00	7,870.00	17,155.68	7,730.00	142.86	138.86	78.69	-6,619.00	3,483.16	713.81	458.57	255.24	2.797		
17,700.00	7,870.00	17,255.68	7,730.00	144.40	140.47	78.69	-6,719.00	3,482.83	713.81	455.26	258.55	2.761		
17,800.00	7,870.00	17,355.68	7,730.00	145.95	142.08	78.69	-6,819.00	3,482.49	713.81	451.94	261.87	2.726		
17,900.00	7,870.00	17,455.68	7,730.00	147.50	143.69	78.69	-6,919.00	3,482.15	713.81	448.62	265.20	2.692		
18,000.00	7,870.00	17,555.68	7,730.00	149.06	145.31	78.69	-7,019.00	3,481.81	713.81	445.29	268.53	2.658		
18,100.00	7,870.00	17,655.68	7,730.00	150.63	146.93	78.69	-7,119.00	3,481.48	713.81	441.96	271.86	2.626		
18,200.00	7,870.00	17,755.68	7,730.00	152.20	148.56	78.69	-7,219.00	3,481.14	713.82	438.62	275.19	2.594		
18,300.00	7,870.00	17,855.68	7,730.00	153.77	150.19	78.69	-7,319.00	3,480.80	713.82	435.29	278.53	2.563		
18,400.00	7,870.00	17,955.68	7,730.00	155.35	151.82	78.69	-7,418.99	3,480.46	713.82	431.94	281.87	2.532		
18,500.00	7,870.00	18,055.68	7,730.00	156.93	153.45	78.69	-7,518.99	3,480.12	713.82	428.60	285.22	2.503		
18,600.00	7,870.00	18,155.68	7,730.00	158.52	155.09	78.69	-7,618.99	3,479.79	713.82	425.25	288.57	2.474		
18,700.00	7,870.00	18,255.68	7,730.00	160.11	156.73	78.69	-7,718.99	3,479.45	713.82	421.90	291.92	2.445		
18,800.00	7,870.00	18,355.68	7,730.00	161.71	158.38	78.69	-7,818.99	3,479.11	713.82	418.54	295.27	2.417		
18,900.00	7,870.00	18,455.68	7,730.00	163.31	160.02	78.69	-7,918.99	3,478.77	713.82	415.19	298.63	2.390		
19,000.00	7,870.00	18,555.68	7,730.00	164.91	161.67	78.69	-8,018.99	3,478.44	713.82	411.83	301.99	2.364		
19,100.00	7,870.00	18,655.68	7,730.00	166.52	163.32	78.69	-8,118.99	3,478.10	713.82	408.47	305.35	2.338		
19,200.00	7,870.00	18,755.68	7,730.00	168.13	164.97	78.69	-8,218.99	3,477.76	713.82	405.10	308.72	2.312		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,870.00	18,855.68	7,730.00	169.75	166.63	78.69	-8,318.99	3,477.42	713.82	401.73	312.09	2.287	
19,383.51	7,870.00	18,939.19	7,730.00	171.10	168.01	78.69	-8,402.50	3,477.14	713.82	398.92	314.90	2.267 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	0.00	0.00	0.00	0.00	-90.00	0.00	-9.80	9.80					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-9.80	9.80	9.53	0.27	36.451		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-9.80	9.80	8.81	0.99	9.941		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-9.80	9.80	8.10	1.70	5.755		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-9.80	9.80	7.38	2.42	4.050		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-9.80	9.80	6.66	3.14	3.124		
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-9.80	9.80	5.95	3.85	2.543	CC, ES	
700.00	699.98	699.98	699.98	2.28	2.29	-157.68	0.00	-9.80	11.39	6.83	4.57	2.495		
800.00	799.84	800.34	800.32	2.64	2.64	-162.62	0.83	-8.25	14.70	9.42	5.27	2.788		
900.00	899.45	900.83	900.67	3.00	3.00	-165.34	3.33	-3.60	18.09	12.12	5.97	3.029		
1,000.00	998.70	1,001.44	1,000.88	3.37	3.36	-166.87	7.49	4.16	21.52	14.85	6.67	3.226		
1,100.00	1,097.47	1,102.17	1,100.85	3.76	3.73	-167.68	13.32	15.03	24.96	17.59	7.37	3.388		
1,200.00	1,195.62	1,203.02	1,200.44	4.18	4.13	-168.03	20.82	29.02	28.41	20.35	8.07	3.522		
1,300.00	1,293.06	1,303.99	1,299.53	4.63	4.54	-168.08	29.99	46.10	31.86	23.09	8.77	3.633		
1,400.00	1,389.64	1,405.08	1,397.99	5.11	4.99	-167.91	40.81	66.27	35.30	25.82	9.48	3.725		
1,500.00	1,485.27	1,506.29	1,495.69	5.63	5.47	-167.58	53.29	89.53	38.73	28.54	10.19	3.800		
1,600.00	1,579.82	1,607.62	1,592.51	6.20	6.00	-167.13	67.41	115.84	42.14	31.23	10.92	3.860		
1,700.00	1,673.17	1,709.06	1,688.32	6.83	6.57	-166.58	83.15	145.18	45.54	33.88	11.66	3.906		
1,800.00	1,765.21	1,810.61	1,783.00	7.51	7.20	-165.95	100.51	177.54	48.93	36.50	12.42	3.938		
1,900.00	1,855.84	1,912.28	1,876.42	8.24	7.88	-165.26	119.46	212.87	52.29	39.08	13.21	3.957		
2,000.00	1,944.94	2,014.05	1,968.46	9.05	8.62	-164.53	140.00	251.14	55.63	41.60	14.04	3.964		
2,100.00	2,032.39	2,115.94	2,058.99	9.91	9.44	-163.75	162.09	292.32	58.96	44.06	14.90	3.958		
2,200.00	2,118.11	2,217.93	2,147.89	10.85	10.32	-162.93	185.71	336.35	62.26	46.45	15.81	3.939		
2,300.00	2,201.97	2,320.02	2,235.05	11.85	11.27	-162.08	210.84	383.19	65.54	48.77	16.77	3.908		
2,400.00	2,283.88	2,422.21	2,320.34	12.93	12.29	-161.21	237.45	432.79	68.80	50.99	17.80	3.865		
2,429.47	2,307.63	2,452.35	2,345.10	13.96	12.61	-160.94	245.57	447.92	69.75	51.63	18.12	3.850		
2,500.00	2,364.26	2,524.24	2,403.44	14.06	13.38	-160.09	265.43	484.93	71.23	52.29	18.95	3.759		
2,600.00	2,444.56	2,624.22	2,484.06	15.22	14.50	-158.70	293.38	537.03	72.55	52.20	20.34	3.566		
2,700.00	2,524.85	2,724.19	2,564.68	16.39	15.63	-157.36	321.33	589.13	73.90	52.09	21.81	3.388		
2,800.00	2,605.14	2,824.17	2,645.30	17.57	16.78	-156.06	349.28	641.23	75.30	51.94	23.36	3.224		
2,900.00	2,685.43	2,924.14	2,725.92	18.76	17.93	-154.82	377.24	693.33	76.73	51.76	24.96	3.074		
3,000.00	2,765.73	3,024.12	2,806.54	19.96	19.10	-153.62	405.19	745.43	78.19	51.56	26.63	2.936		
3,100.00	2,846.02	3,124.10	2,887.17	21.16	20.28	-152.46	433.14	797.53	79.69	51.33	28.36	2.810		
3,200.00	2,926.31	3,224.07	2,967.79	22.37	21.46	-151.35	461.09	849.63	81.22	51.08	30.14	2.695		
3,300.00	3,006.60	3,324.05	3,048.41	23.59	22.64	-150.28	489.04	901.73	82.78	50.81	31.98	2.589		
3,400.00	3,086.90	3,424.03	3,129.03	24.81	23.84	-149.25	516.99	953.82	84.37	50.52	33.86	2.492		
3,500.00	3,167.19	3,524.00	3,209.65	26.03	25.03	-148.25	544.95	1,005.92	85.99	50.21	35.78	2.403		
3,600.00	3,247.48	3,623.98	3,290.27	27.25	26.23	-147.30	572.90	1,058.02	87.62	49.88	37.74	2.322		
3,700.00	3,327.77	3,723.95	3,370.89	28.48	27.43	-146.38	600.85	1,110.12	89.29	49.55	39.74	2.247		
3,800.00	3,408.07	3,823.93	3,451.51	29.71	28.64	-145.49	628.80	1,162.22	90.97	49.20	41.77	2.178		
3,900.00	3,488.36	3,923.91	3,532.13	30.94	29.84	-144.64	656.75	1,214.32	92.68	48.84	43.84	2.114		
4,000.00	3,568.65	4,023.88	3,612.75	32.17	31.05	-143.81	684.71	1,266.42	94.40	48.47	45.93	2.055		
4,100.00	3,648.95	4,123.86	3,693.37	33.41	32.26	-143.02	712.66	1,318.52	96.15	48.10	48.05	2.001		
4,200.00	3,729.24	4,223.83	3,773.99	34.64	33.48	-142.25	740.61	1,370.62	97.91	47.72	50.19	1.951		
4,300.00	3,809.53	4,323.81	3,854.61	35.88	34.69	-141.52	768.56	1,422.72	99.69	47.33	52.35	1.904		
4,400.00	3,889.82	4,423.79	3,935.23	37.12	35.91	-140.80	796.51	1,474.82	101.48	46.94	54.54	1.861		
4,500.00	3,970.12	4,523.76	4,015.85	38.36	37.12	-140.12	824.46	1,526.91	103.29	46.55	56.74	1.820		
4,600.00	4,050.41	4,623.74	4,096.47	39.60	38.34	-139.45	852.42	1,579.01	105.12	46.15	58.96	1.783		
4,700.00	4,130.70	4,723.71	4,177.09	40.84	39.56	-138.81	880.37	1,631.11	106.95	45.76	61.20	1.748		
4,800.00	4,210.99	4,823.69	4,257.71	42.08	40.78	-138.19	908.32	1,683.21	108.80	45.36	63.45	1.715		
4,900.00	4,291.29	4,923.67	4,338.33	43.32	42.00	-137.60	936.27	1,735.31	110.67	44.96	65.71	1.684		
5,000.00	4,371.58	5,023.64	4,418.95	44.57	43.22	-137.02	964.22	1,787.41	112.54	44.55	67.99	1.655		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,123.62	4,499.57	45.81	44.44	-136.46	992.17	1,839.51	114.43	44.15	70.28	1.628		
5,200.00	4,532.16	5,223.59	4,580.19	47.05	45.66	-135.92	1,020.13	1,891.61	116.32	43.75	72.57	1.603		
5,300.00	4,612.46	5,323.57	4,660.81	48.30	46.88	-135.39	1,048.08	1,943.71	118.23	43.35	74.88	1.579		
5,400.00	4,692.75	5,423.55	4,741.43	49.54	48.11	-134.89	1,076.03	1,995.81	120.15	42.95	77.20	1.556		
5,500.00	4,773.04	5,523.52	4,822.05	50.79	49.33	-134.40	1,103.98	2,047.90	122.07	42.55	79.52	1.535		
5,600.00	4,853.34	5,623.50	4,902.67	52.03	50.55	-133.92	1,131.93	2,100.00	124.01	42.15	81.85	1.515		
5,700.00	4,933.63	5,723.47	4,983.29	53.28	51.78	-133.46	1,159.88	2,152.10	125.95	41.76	84.19	1.496 Level 3		
5,800.00	5,013.92	5,823.45	5,063.91	54.53	53.00	-133.01	1,187.84	2,204.20	127.90	41.36	86.53	1.478 Level 3		
5,900.00	5,094.21	5,923.43	5,144.53	55.77	54.23	-132.58	1,215.79	2,256.30	129.86	40.97	88.89	1.461 Level 3		
6,000.00	5,174.51	6,023.40	5,225.15	57.02	55.45	-132.16	1,243.74	2,308.40	131.82	40.58	91.24	1.445 Level 3		
6,100.00	5,254.80	6,123.38	5,305.77	58.27	56.68	-131.75	1,271.69	2,360.50	133.79	40.19	93.60	1.429 Level 3		
6,200.00	5,335.09	6,223.36	5,386.39	59.52	57.90	-131.35	1,299.64	2,412.60	135.77	39.80	95.97	1.415 Level 3		
6,300.00	5,415.38	6,323.33	5,467.01	60.76	59.13	-130.97	1,327.59	2,464.70	137.75	39.42	98.34	1.401 Level 3		
6,400.00	5,495.68	6,423.31	5,547.63	62.01	60.36	-130.59	1,355.55	2,516.80	139.75	39.03	100.71	1.388 Level 3		
6,500.00	5,575.97	6,523.28	5,628.25	63.26	61.58	-130.23	1,383.50	2,568.90	141.74	38.65	103.09	1.375 Level 3		
6,600.00	5,656.26	6,623.26	5,708.87	64.51	62.81	-129.88	1,411.45	2,620.99	143.74	38.27	105.47	1.363 Level 3		
6,700.00	5,736.55	6,723.24	5,789.49	65.76	64.04	-129.53	1,439.40	2,673.09	145.75	37.90	107.85	1.351 Level 3		
6,800.00	5,816.85	6,823.21	5,870.11	67.01	65.27	-129.20	1,467.35	2,725.19	147.76	37.52	110.24	1.340 Level 3		
6,900.00	5,897.14	6,923.19	5,950.73	68.26	66.49	-128.87	1,495.30	2,777.29	149.78	37.15	112.63	1.330 Level 3		
7,000.00	5,977.43	7,023.16	6,031.35	69.50	67.72	-128.56	1,523.26	2,829.39	151.80	36.78	115.02	1.320 Level 3		
7,100.00	6,057.72	7,123.14	6,111.97	70.75	68.95	-128.25	1,551.21	2,881.49	153.83	36.41	117.42	1.310 Level 3		
7,200.00	6,138.02	7,223.12	6,192.59	72.00	70.18	-127.95	1,579.16	2,933.59	155.86	36.05	119.81	1.301 Level 3		
7,300.00	6,218.31	7,323.09	6,273.21	73.25	71.41	-127.65	1,607.11	2,985.69	157.89	35.68	122.21	1.292 Level 3		
7,400.00	6,298.60	7,423.07	6,353.83	74.50	72.63	-127.37	1,635.06	3,037.79	159.93	35.32	124.61	1.283 Level 3		
7,500.00	6,378.90	7,523.04	6,434.45	75.75	73.86	-127.09	1,663.01	3,089.89	161.98	34.96	127.01	1.275 Level 3		
7,600.00	6,459.19	7,623.02	6,515.07	77.00	75.09	-126.82	1,690.97	3,141.99	164.02	34.61	129.42	1.267 Level 3		
7,700.00	6,539.48	7,723.00	6,595.69	78.25	76.32	-126.56	1,718.92	3,194.08	166.07	34.25	131.82	1.260 Level 3		
7,800.00	6,619.77	7,822.97	6,676.31	79.50	77.55	-126.30	1,746.87	3,246.18	168.13	33.90	134.23	1.253 Level 3		
7,900.00	6,700.07	7,922.95	6,756.93	80.75	78.78	-126.05	1,774.82	3,298.28	170.18	33.55	136.63	1.246 Level 2		
8,000.00	6,780.36	8,022.92	6,837.55	82.00	80.01	-125.80	1,802.77	3,350.38	172.24	33.20	139.04	1.239 Level 2		
8,100.00	6,860.65	8,122.90	6,918.17	83.25	81.24	-125.56	1,830.72	3,402.48	174.31	32.85	141.45	1.232 Level 2		
8,200.00	6,940.94	8,222.88	6,998.79	84.50	82.47	-125.33	1,858.68	3,454.58	176.37	32.51	143.86	1.226 Level 2		
8,300.00	7,021.24	8,338.68	7,093.77	85.76	83.84	-125.17	1,882.88	3,515.93	178.40	32.18	146.27	1.223 Level 2, SF		
8,400.00	7,101.53	8,450.85	7,187.87	87.01	85.01	-136.10	1,884.47	3,576.63	164.45	33.05	131.39	1.252 Level 3		
8,500.00	7,181.82	8,549.14	7,269.21	88.26	85.85	-150.73	1,867.92	3,629.05	154.07	43.67	110.40	1.396 Level 3		
8,536.19	7,210.88	8,580.74	7,294.72	88.71	86.07	-156.89	1,859.11	3,645.47	152.93	51.22	101.72	1.504		
8,605.60	7,266.61	8,635.50	7,337.83	89.58	86.41	-168.71	1,839.92	3,673.21	158.17	70.52	87.64	1.805		
8,650.00	7,302.60	8,667.69	7,362.39	90.13	86.58	177.71	1,826.38	3,689.02	167.20	84.60	82.60	2.024		
8,700.00	7,343.78	8,702.99	7,388.54	90.72	86.75	162.64	1,809.69	3,705.83	181.32	101.15	80.16	2.262		
8,750.00	7,385.32	8,737.41	7,413.17	91.28	86.88	148.19	1,791.59	3,721.65	198.26	119.15	79.11	2.506		
8,800.00	7,426.92	8,771.10	7,436.35	91.81	86.99	134.69	1,772.20	3,736.54	216.89	138.82	78.06	2.778		
8,850.00	7,468.27	8,804.17	7,458.14	92.29	87.08	122.37	1,751.63	3,750.53	236.34	159.90	76.45	3.092		
8,900.00	7,509.04	8,836.71	7,478.56	92.72	87.13	111.37	1,729.97	3,763.63	256.01	181.86	74.15	3.453		
8,950.00	7,548.93	8,868.78	7,497.66	93.10	87.18	101.73	1,707.30	3,775.87	275.43	204.19	71.24	3.866		
9,000.00	7,587.63	8,900.00	7,515.20	93.43	87.20	93.42	1,684.05	3,787.11	294.29	226.56	67.74	4.345		
9,050.00	7,624.85	8,931.79	7,531.94	93.71	87.21	86.27	1,659.24	3,797.82	312.34	248.13	64.21	4.865		
9,100.00	7,660.30	8,962.83	7,547.15	93.93	87.20	80.23	1,634.00	3,807.55	329.38	268.96	60.42	5.451		
9,150.00	7,693.72	8,993.62	7,561.07	94.10	87.18	75.12	1,608.03	3,816.44	345.29	288.58	56.70	6.089		
9,200.00	7,724.85	9,024.18	7,573.72	94.23	87.14	70.83	1,581.40	3,824.51	359.93	306.67	53.26	6.758		
9,250.00	7,753.45	9,050.00	7,583.47	94.30	87.10	67.33	1,558.32	3,830.72	373.26	323.47	49.79	7.496		
9,300.00	7,779.31	9,084.77	7,595.19	94.34	87.03	64.27	1,526.44	3,838.18	385.09	337.01	48.08	8.009		
9,350.00	7,802.23	9,114.86	7,604.01	94.33	86.96	61.82	1,498.24	3,843.77	395.47	348.67	46.80	8.451		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	9,150.00	7,612.72	94.28	86.88	59.79	1,464.64	3,849.28	404.37	358.02	46.35	8.724		
9,450.00	7,838.57	9,174.71	7,617.80	94.20	86.80	58.27	1,440.68	3,852.47	411.58	363.92	47.66	8.635		
9,500.00	7,851.72	9,200.00	7,622.09	94.10	86.72	57.11	1,415.90	3,855.16	417.29	366.59	50.70	8.231		
9,550.00	7,861.37	9,234.27	7,626.44	93.96	86.61	56.25	1,382.02	3,857.85	421.29	368.18	53.11	7.933		
9,600.00	7,867.46	9,264.00	7,628.83	93.81	86.50	55.74	1,352.43	3,859.29	423.68	366.45	57.23	7.403		
9,650.00	7,869.94	9,293.70	7,629.92	93.64	86.39	55.56	1,322.75	3,859.90	424.42	362.38	62.04	6.841		
9,659.14	7,870.00	9,312.13	7,630.00	93.60	86.32	55.56	1,320.63	3,859.94	424.35	360.52	63.83	6.648		
9,700.00	7,870.00	9,336.69	7,630.00	93.46	86.22	55.56	1,279.77	3,859.80	424.35	360.95	63.40	6.694		
9,800.00	7,870.00	9,436.69	7,630.00	93.11	85.85	55.56	1,179.77	3,859.47	424.35	362.21	62.13	6.830		
9,900.00	7,870.00	9,536.69	7,630.00	92.77	85.49	55.56	1,079.77	3,859.13	424.34	363.35	61.00	6.957		
10,000.00	7,870.00	9,636.69	7,630.00	92.46	85.15	55.56	979.77	3,858.79	424.34	364.35	59.99	7.073		
10,100.00	7,870.00	9,736.69	7,630.00	92.16	84.83	55.56	879.77	3,858.46	424.34	365.21	59.13	7.176		
10,200.00	7,870.00	9,836.69	7,630.00	91.87	84.52	55.56	779.77	3,858.12	424.34	365.93	58.41	7.265		
10,300.00	7,870.00	9,936.69	7,630.00	91.60	84.24	55.56	679.77	3,857.79	424.34	366.49	57.85	7.336		
10,400.00	7,870.00	10,036.69	7,630.00	91.34	83.96	55.56	579.77	3,857.45	424.34	366.90	57.44	7.388		
10,500.00	7,870.00	10,136.69	7,630.00	91.11	83.71	55.56	479.77	3,857.11	424.34	367.15	57.19	7.420		
10,600.00	7,870.00	10,236.69	7,630.00	90.88	83.47	55.56	379.77	3,856.78	424.34	367.24	57.10	7.432		
10,700.00	7,870.00	10,336.69	7,630.00	90.67	83.25	55.56	279.77	3,856.44	424.34	367.16	57.17	7.422		
10,800.00	7,870.00	10,436.69	7,630.00	90.48	83.04	55.56	179.77	3,856.11	424.34	366.93	57.41	7.391		
10,900.00	7,870.00	10,536.69	7,630.00	90.31	82.85	55.56	79.77	3,855.77	424.33	366.53	57.80	7.341		
11,000.00	7,870.00	10,636.69	7,630.00	90.15	82.69	55.56	-20.22	3,855.43	424.33	365.98	58.36	7.271		
11,100.00	7,870.00	10,736.69	7,630.00	90.00	82.53	55.56	-120.22	3,855.10	424.33	365.27	59.06	7.185		
11,200.00	7,870.00	10,836.69	7,630.00	89.88	82.40	55.56	-220.22	3,854.76	424.33	364.42	59.91	7.083		
11,300.00	7,870.00	10,936.69	7,630.00	89.77	82.29	55.56	-320.22	3,854.42	424.33	363.43	60.90	6.967		
11,400.00	7,870.00	11,036.69	7,630.00	89.68	82.19	55.56	-420.22	3,854.09	424.33	362.30	62.03	6.841		
11,500.00	7,870.00	11,136.69	7,630.00	89.60	82.12	55.56	-520.22	3,853.75	424.33	361.05	63.28	6.706		
11,600.00	7,870.00	11,236.69	7,630.00	89.55	82.06	55.56	-620.22	3,853.42	424.33	359.68	64.65	6.563		
11,700.00	7,870.00	11,336.69	7,630.00	89.52	82.03	55.56	-720.22	3,853.08	424.33	358.19	66.13	6.416		
11,800.00	7,870.00	11,436.69	7,630.00	89.50	82.02	55.56	-820.22	3,852.74	424.33	356.60	67.72	6.266		
11,900.00	7,870.00	11,536.69	7,630.00	89.51	82.04	55.56	-920.22	3,852.41	424.32	354.92	69.41	6.114		
12,000.00	7,870.00	11,636.69	7,630.00	89.54	82.08	55.56	-1,020.22	3,852.07	424.32	353.14	71.18	5.961		
12,100.00	7,870.00	11,736.69	7,630.00	89.59	82.15	55.56	-1,120.22	3,851.74	424.32	351.28	73.04	5.809		
12,200.00	7,870.00	11,836.69	7,630.00	89.66	82.25	55.56	-1,220.22	3,851.40	424.32	349.34	74.98	5.659		
12,300.00	7,870.00	11,936.69	7,630.00	89.77	82.38	55.56	-1,320.22	3,851.06	424.32	347.33	76.99	5.512		
12,400.00	7,870.00	12,036.69	7,630.00	89.89	82.54	55.56	-1,420.22	3,850.73	424.32	345.26	79.06	5.367		
12,500.00	7,870.00	12,136.69	7,630.00	90.05	82.74	55.56	-1,520.22	3,850.39	424.32	343.12	81.20	5.226		
12,600.00	7,870.00	12,236.69	7,630.00	90.24	82.97	55.56	-1,620.22	3,850.06	424.32	340.93	83.39	5.088		
12,700.00	7,870.00	12,336.69	7,630.00	90.46	83.25	55.55	-1,720.22	3,849.72	424.32	338.68	85.64	4.955		
12,800.00	7,870.00	12,436.69	7,630.00	90.71	83.56	55.55	-1,820.21	3,849.38	424.32	336.39	87.93	4.826		
12,900.00	7,870.00	12,536.69	7,630.00	90.99	83.92	55.55	-1,920.21	3,849.05	424.31	334.05	90.27	4.701		
13,000.00	7,870.00	12,636.69	7,630.00	91.32	84.33	55.55	-2,020.21	3,848.71	424.31	331.67	92.65	4.580		
13,100.00	7,870.00	12,736.69	7,630.00	91.68	84.78	55.55	-2,120.21	3,848.38	424.31	329.25	95.06	4.463		
13,200.00	7,870.00	12,836.69	7,630.00	92.08	85.29	55.55	-2,220.21	3,848.04	424.31	326.80	97.52	4.351		
13,300.00	7,870.00	12,936.69	7,630.00	92.52	85.84	55.55	-2,320.21	3,847.70	424.31	324.31	100.00	4.243		
13,400.00	7,870.00	13,036.69	7,630.00	93.00	86.45	55.55	-2,420.21	3,847.37	424.31	321.79	102.52	4.139		
13,500.00	7,870.00	13,136.69	7,630.00	93.53	87.11	55.55	-2,520.21	3,847.03	424.31	319.25	105.06	4.039		
13,600.00	7,870.00	13,236.69	7,630.00	94.10	87.82	55.55	-2,620.21	3,846.69	424.31	316.68	107.63	3.942		
13,700.00	7,870.00	13,336.69	7,630.00	94.72	88.59	55.55	-2,720.21	3,846.36	424.31	314.08	110.22	3.850		
13,800.00	7,870.00	13,436.69	7,630.00	95.38	89.40	55.55	-2,820.21	3,846.02	424.31	311.47	112.84	3.760		
13,900.00	7,870.00	13,536.69	7,630.00	96.09	90.27	55.55	-2,920.21	3,845.69	424.30	308.83	115.48	3.674		
14,000.00	7,870.00	13,636.69	7,630.00	96.84	91.18	55.55	-3,020.21	3,845.35	424.30	306.17	118.13	3.592		
14,100.00	7,870.00	13,736.69	7,630.00	97.64	92.14	55.55	-3,120.21	3,845.01	424.30	303.49	120.81	3.512		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	13,836.69	7,630.00	98.48	93.14	55.55	-3,220.21	3,844.68	424.30	300.80	123.50	3.436		
14,300.00	7,870.00	13,936.69	7,630.00	99.37	94.18	55.55	-3,320.21	3,844.34	424.30	298.09	126.21	3.362		
14,400.00	7,870.00	14,036.69	7,630.00	100.30	95.26	55.55	-3,420.21	3,844.01	424.30	295.37	128.93	3.291		
14,500.00	7,870.00	14,136.69	7,630.00	101.26	96.38	55.55	-3,520.21	3,843.67	424.30	292.63	131.67	3.222		
14,600.00	7,870.00	14,236.69	7,630.00	102.27	97.53	55.55	-3,620.20	3,843.33	424.30	289.88	134.42	3.156		
14,700.00	7,870.00	14,336.69	7,630.00	103.31	98.72	55.55	-3,720.20	3,843.00	424.30	287.11	137.18	3.093		
14,800.00	7,870.00	14,436.69	7,630.00	104.38	99.93	55.55	-3,820.20	3,842.66	424.30	284.34	139.96	3.032		
14,900.00	7,870.00	14,536.69	7,630.00	105.49	101.17	55.55	-3,920.20	3,842.33	424.29	281.55	142.75	2.972		
15,000.00	7,870.00	14,636.69	7,630.00	106.63	102.44	55.55	-4,020.20	3,841.99	424.29	278.75	145.54	2.915		
15,100.00	7,870.00	14,736.69	7,630.00	107.80	103.73	55.55	-4,120.20	3,841.65	424.29	275.94	148.35	2.860		
15,200.00	7,870.00	14,836.69	7,630.00	109.00	105.05	55.55	-4,220.20	3,841.32	424.29	273.13	151.16	2.807		
15,300.00	7,870.00	14,936.69	7,630.00	110.22	106.38	55.55	-4,320.20	3,840.98	424.29	270.30	153.99	2.755		
15,400.00	7,870.00	15,036.69	7,630.00	111.47	107.73	55.55	-4,420.20	3,840.64	424.29	267.47	156.82	2.706		
15,500.00	7,870.00	15,136.69	7,630.00	112.74	109.11	55.55	-4,520.20	3,840.31	424.29	264.63	159.66	2.657		
15,600.00	7,870.00	15,236.69	7,630.00	114.03	110.49	55.55	-4,620.20	3,839.97	424.29	261.78	162.51	2.611		
15,700.00	7,870.00	15,336.69	7,630.00	115.34	111.90	55.55	-4,720.20	3,839.64	424.29	258.92	165.36	2.566		
15,800.00	7,870.00	15,436.69	7,630.00	116.68	113.31	55.55	-4,820.20	3,839.30	424.28	256.06	168.23	2.522		
15,900.00	7,870.00	15,536.69	7,630.00	118.02	114.75	55.55	-4,920.20	3,838.96	424.28	253.19	171.09	2.480		
16,000.00	7,870.00	15,636.69	7,630.00	119.39	116.19	55.55	-5,020.20	3,838.63	424.28	250.32	173.97	2.439		
16,100.00	7,870.00	15,736.69	7,630.00	120.77	117.65	55.55	-5,120.20	3,838.29	424.28	247.44	176.85	2.399		
16,200.00	7,870.00	15,836.69	7,630.00	122.17	119.11	55.55	-5,220.20	3,837.96	424.28	244.55	179.73	2.361		
16,300.00	7,870.00	15,936.69	7,630.00	123.58	120.59	55.55	-5,320.19	3,837.62	424.28	241.66	182.62	2.323		
16,400.00	7,870.00	16,036.69	7,630.00	125.00	122.08	55.55	-5,420.19	3,837.28	424.28	238.76	185.52	2.287		
16,500.00	7,870.00	16,136.69	7,630.00	126.43	123.58	55.55	-5,520.19	3,836.95	424.28	235.86	188.42	2.252		
16,600.00	7,870.00	16,236.69	7,630.00	127.88	125.08	55.55	-5,620.19	3,836.61	424.28	232.95	191.32	2.218		
16,700.00	7,870.00	16,336.69	7,630.00	129.34	126.60	55.55	-5,720.19	3,836.28	424.28	230.04	194.23	2.184		
16,800.00	7,870.00	16,436.69	7,630.00	130.81	128.12	55.55	-5,820.19	3,835.94	424.27	227.13	197.14	2.152		
16,900.00	7,870.00	16,536.69	7,630.00	132.28	129.65	55.55	-5,920.19	3,835.60	424.27	224.21	200.06	2.121		
17,000.00	7,870.00	16,636.69	7,630.00	133.77	131.19	55.55	-6,020.19	3,835.27	424.27	221.29	202.98	2.090		
17,100.00	7,870.00	16,736.69	7,630.00	135.27	132.73	55.55	-6,120.19	3,834.93	424.27	218.37	205.91	2.061		
17,200.00	7,870.00	16,836.69	7,630.00	136.77	134.28	55.55	-6,220.19	3,834.60	424.27	215.44	208.83	2.032		
17,300.00	7,870.00	16,936.69	7,630.00	138.28	135.84	55.55	-6,320.19	3,834.26	424.27	212.50	211.77	2.003		
17,400.00	7,870.00	17,036.69	7,630.00	139.80	137.40	55.55	-6,420.19	3,833.92	424.27	209.57	214.70	1.976		
17,500.00	7,870.00	17,136.69	7,630.00	141.33	138.97	55.55	-6,520.19	3,833.59	424.27	206.63	217.64	1.949		
17,600.00	7,870.00	17,236.69	7,630.00	142.86	140.54	55.55	-6,620.19	3,833.25	424.27	203.69	220.58	1.923		
17,700.00	7,870.00	17,336.69	7,630.00	144.40	142.12	55.55	-6,720.19	3,832.91	424.27	200.75	223.52	1.898		
17,800.00	7,870.00	17,436.69	7,630.00	145.95	143.71	55.55	-6,820.19	3,832.58	424.26	197.80	226.47	1.873		
17,900.00	7,870.00	17,536.69	7,630.00	147.50	145.29	55.55	-6,920.19	3,832.24	424.26	194.85	229.41	1.849		
18,000.00	7,870.00	17,636.69	7,630.00	149.06	146.89	55.55	-7,020.19	3,831.91	424.26	191.90	232.37	1.826		
18,100.00	7,870.00	17,736.69	7,630.00	150.63	148.49	55.55	-7,120.18	3,831.57	424.26	188.94	235.32	1.803		
18,200.00	7,870.00	17,836.69	7,630.00	152.20	150.09	55.55	-7,220.18	3,831.23	424.26	185.99	238.27	1.781		
18,300.00	7,870.00	17,936.69	7,630.00	153.77	151.69	55.55	-7,320.18	3,830.90	424.26	183.03	241.23	1.759		
18,400.00	7,870.00	18,036.69	7,630.00	155.35	153.30	55.55	-7,420.18	3,830.56	424.26	180.07	244.19	1.737		
18,500.00	7,870.00	18,136.69	7,630.00	156.93	154.91	55.55	-7,520.18	3,830.23	424.26	177.10	247.15	1.717		
18,600.00	7,870.00	18,236.69	7,630.00	158.52	156.53	55.55	-7,620.18	3,829.89	424.26	174.14	250.12	1.696		
18,700.00	7,870.00	18,336.69	7,630.00	160.11	158.15	55.55	-7,720.18	3,829.55	424.26	171.17	253.08	1.676		
18,800.00	7,870.00	18,436.69	7,630.00	161.71	159.77	55.55	-7,820.18	3,829.22	424.25	168.20	256.05	1.657		
18,900.00	7,870.00	18,536.69	7,630.00	163.31	161.40	55.55	-7,920.18	3,828.88	424.25	165.23	259.02	1.638		
19,000.00	7,870.00	18,636.69	7,630.00	164.91	163.03	55.55	-8,020.18	3,828.55	424.25	162.26	261.99	1.619		
19,100.00	7,870.00	18,736.69	7,630.00	166.52	164.66	55.55	-8,120.18	3,828.21	424.25	159.29	264.97	1.601		
19,200.00	7,870.00	18,836.69	7,630.00	168.13	166.30	55.55	-8,220.18	3,827.87	424.25	156.31	267.94	1.583		
19,300.00	7,870.00	18,936.69	7,630.00	169.75	167.94	55.55	-8,320.18	3,827.54	424.25	153.33	270.92	1.566		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	19,020.19	7,630.00	171.10	169.31	55.55	-8,403.69	3,827.26	424.25	150.85	273.40	1.552	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	1.00	-1.00	0.00	0.00	90.00	0.00	10.08	10.08				
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	10.08	10.08	9.81	0.27	36.999	
200.00	200.00	201.00	199.00	0.49	0.50	90.00	0.00	10.08	10.08	9.09	0.99	10.188	
300.00	300.00	301.00	299.00	0.85	0.85	90.00	0.00	10.08	10.08	8.37	1.71	5.907	
400.00	400.00	401.00	399.00	1.21	1.21	90.00	0.00	10.08	10.08	7.66	2.42	4.160	
500.00	500.00	499.00	499.00	1.57	1.56	90.00	0.00	10.08	10.08	6.95	3.13	3.217 CC, ES	
600.00	600.00	598.65	598.63	1.93	1.92	86.51	0.71	11.62	11.65	7.81	3.84	3.031	
700.00	699.98	698.15	697.99	2.28	2.27	18.09	2.86	16.31	14.92	10.38	4.54	3.284	
800.00	799.84	797.54	797.00	2.64	2.63	15.45	6.44	24.11	18.25	13.02	5.24	3.486	
900.00	899.45	896.80	895.54	3.00	3.01	13.88	11.44	35.02	21.61	15.69	5.93	3.646	
1,000.00	998.70	995.96	993.48	3.37	3.40	12.94	17.86	49.00	24.98	18.36	6.62	3.774	
1,100.00	1,097.47	1,095.00	1,090.73	3.76	3.81	12.42	25.68	66.04	28.33	21.02	7.31	3.876	
1,200.00	1,195.62	1,193.92	1,187.16	4.18	4.26	12.19	34.88	86.09	31.67	23.67	8.00	3.958	
1,300.00	1,293.06	1,292.74	1,282.66	4.63	4.75	12.15	45.45	109.13	34.99	26.29	8.70	4.023	
1,400.00	1,389.64	1,391.44	1,377.13	5.11	5.27	12.26	57.38	135.12	38.29	28.89	9.40	4.072	
1,500.00	1,485.27	1,490.04	1,470.45	5.63	5.84	12.48	70.64	164.02	41.56	31.44	10.12	4.108	
1,600.00	1,579.82	1,588.53	1,562.53	6.20	6.46	12.78	85.22	195.79	44.79	33.95	10.84	4.132	
1,700.00	1,673.17	1,686.92	1,653.25	6.83	7.14	13.16	101.09	230.38	48.00	36.42	11.58	4.145	
1,800.00	1,765.21	1,785.20	1,742.53	7.51	7.87	13.60	118.23	267.73	51.16	38.83	12.34	4.147	
1,900.00	1,855.84	1,883.39	1,830.25	8.24	8.66	14.08	136.62	307.81	54.29	41.18	13.12	4.139	
2,000.00	1,944.94	1,981.48	1,916.32	9.05	9.51	14.60	156.23	350.55	57.38	43.46	13.92	4.121	
2,100.00	2,032.39	2,079.47	2,000.66	9.91	10.43	15.15	177.04	395.89	60.43	45.67	14.77	4.093	
2,200.00	2,118.11	2,177.37	2,083.16	10.85	11.42	15.74	199.02	443.79	63.44	47.79	15.64	4.055	
2,300.00	2,201.97	2,275.18	2,163.74	11.85	12.47	16.34	222.14	494.17	66.40	49.83	16.57	4.008	
2,400.00	2,283.88	2,372.90	2,242.31	12.93	13.59	16.98	246.37	546.98	69.31	51.77	17.54	3.952	
2,429.47	2,307.63	2,401.69	2,265.07	13.26	13.92	17.17	253.72	562.99	70.16	52.33	17.84	3.934	
2,500.00	2,364.26	2,471.46	2,319.67	14.06	14.78	17.50	271.83	602.47	72.75	54.13	18.62	3.906	
2,600.00	2,444.56	2,571.38	2,397.73	15.22	16.01	17.89	297.85	659.17	76.63	56.79	19.84	3.862	
2,700.00	2,524.85	2,671.30	2,475.78	16.39	17.27	18.25	323.87	715.87	80.52	59.44	21.08	3.819	
2,800.00	2,605.14	2,771.23	2,553.84	17.57	18.53	18.57	349.88	772.57	84.42	62.07	22.35	3.777	
2,900.00	2,685.43	2,871.15	2,631.90	18.76	19.80	18.86	375.90	829.27	88.31	64.68	23.63	3.737	
3,000.00	2,765.73	2,971.07	2,709.95	19.96	21.08	19.13	401.92	885.97	92.21	67.27	24.93	3.698	
3,100.00	2,846.02	3,071.00	2,788.01	21.16	22.37	19.38	427.94	942.67	96.10	69.86	26.25	3.662	
3,200.00	2,926.31	3,170.92	2,866.07	22.37	23.66	19.60	453.95	999.37	100.00	72.43	27.57	3.627	
3,300.00	3,006.60	3,270.84	2,944.12	23.59	24.95	19.81	479.97	1,056.07	103.91	74.99	28.91	3.594	
3,400.00	3,086.90	3,370.77	3,022.18	24.81	26.25	20.01	505.99	1,112.77	107.81	77.55	30.26	3.563	
3,500.00	3,167.19	3,470.69	3,100.24	26.03	27.55	20.19	532.01	1,169.47	111.71	80.09	31.62	3.533	
3,600.00	3,247.48	3,570.61	3,178.30	27.25	28.86	20.36	558.02	1,226.17	115.62	82.63	32.98	3.505	
3,700.00	3,327.77	3,670.54	3,256.35	28.48	30.17	20.52	584.04	1,282.86	119.52	85.17	34.36	3.479	
3,800.00	3,408.07	3,770.46	3,334.41	29.71	31.48	20.67	610.06	1,339.56	123.43	87.69	35.74	3.454	
3,900.00	3,488.36	3,870.38	3,412.47	30.94	32.79	20.81	636.08	1,396.26	127.34	90.22	37.12	3.430	
4,000.00	3,568.65	3,970.31	3,490.52	32.17	34.10	20.94	662.10	1,452.96	131.24	92.73	38.51	3.408	
4,100.00	3,648.95	4,070.23	3,568.58	33.41	35.41	21.06	688.11	1,509.66	135.15	95.25	39.90	3.387	
4,200.00	3,729.24	4,170.15	3,646.64	34.64	36.73	21.18	714.13	1,566.36	139.06	97.76	41.30	3.367	
4,300.00	3,809.53	4,270.07	3,724.69	35.88	38.05	21.29	740.15	1,623.06	142.97	100.26	42.71	3.348	
4,400.00	3,889.82	4,370.00	3,802.75	37.12	39.36	21.39	766.17	1,679.76	146.88	102.77	44.11	3.330	
4,500.00	3,970.12	4,469.92	3,880.81	38.36	40.68	21.49	792.18	1,736.46	150.79	105.27	45.52	3.312	
4,600.00	4,050.41	4,569.84	3,958.87	39.60	42.00	21.58	818.20	1,793.16	154.70	107.77	46.94	3.296	
4,700.00	4,130.70	4,669.77	4,036.92	40.84	43.32	21.67	844.22	1,849.86	158.62	110.26	48.35	3.280	
4,800.00	4,210.99	4,769.69	4,114.98	42.08	44.64	21.76	870.24	1,906.56	162.53	112.75	49.77	3.265	
4,900.00	4,291.29	4,869.61	4,193.04	43.32	45.97	21.84	896.25	1,963.26	166.44	115.25	51.19	3.251	
5,000.00	4,371.58	4,969.54	4,271.09	44.57	47.29	21.91	922.27	2,019.96	170.35	117.73	52.62	3.238	

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,069.46	4,349.15	45.81	48.61	21.99	948.29	2,076.66	174.27	120.22	54.04	3.225		
5,200.00	4,532.16	5,169.38	4,427.21	47.05	49.93	22.06	974.31	2,133.36	178.18	122.71	55.47	3.212		
5,300.00	4,612.46	5,269.31	4,505.26	48.30	51.26	22.13	1,000.33	2,190.06	182.09	125.19	56.90	3.200		
5,400.00	4,692.75	5,369.23	4,583.32	49.54	52.58	22.19	1,026.34	2,246.76	186.01	127.67	58.33	3.189		
5,500.00	4,773.04	5,469.15	4,661.38	50.79	53.91	22.25	1,052.36	2,303.46	189.92	130.16	59.76	3.178		
5,600.00	4,853.34	5,569.08	4,739.43	52.03	55.23	22.31	1,078.38	2,360.15	193.83	132.64	61.20	3.167		
5,700.00	4,933.63	5,669.00	4,817.49	53.28	56.56	22.37	1,104.40	2,416.85	197.75	135.11	62.63	3.157		
5,800.00	5,013.92	5,768.92	4,895.55	54.53	57.88	22.42	1,130.41	2,473.55	201.66	137.59	64.07	3.147		
5,900.00	5,094.21	5,868.85	4,973.61	55.77	59.21	22.48	1,156.43	2,530.25	205.58	140.07	65.51	3.138		
6,000.00	5,174.51	5,968.77	5,051.66	57.02	60.54	22.53	1,182.45	2,586.95	209.49	142.54	66.95	3.129		
6,100.00	5,254.80	6,068.69	5,129.72	58.27	61.86	22.58	1,208.47	2,643.65	213.41	145.02	68.39	3.120		
6,200.00	5,335.09	6,168.62	5,207.78	59.52	63.19	22.62	1,234.48	2,700.35	217.32	147.49	69.83	3.112		
6,300.00	5,415.38	6,268.54	5,285.83	60.76	64.52	22.67	1,260.50	2,757.05	221.24	149.96	71.27	3.104		
6,400.00	5,495.68	6,368.46	5,363.89	62.01	65.84	22.71	1,286.52	2,813.75	225.15	152.44	72.72	3.096		
6,500.00	5,575.97	6,468.38	5,441.95	63.26	67.17	22.75	1,312.54	2,870.45	229.07	154.91	74.16	3.089		
6,600.00	5,656.26	6,568.31	5,520.00	64.51	68.50	22.80	1,338.55	2,927.15	232.98	157.38	75.61	3.082		
6,700.00	5,736.55	6,668.23	5,598.06	65.76	69.83	22.83	1,364.57	2,983.85	236.90	159.85	77.05	3.075		
6,800.00	5,816.85	6,768.15	5,676.12	67.01	71.15	22.87	1,390.59	3,040.55	240.82	162.32	78.50	3.068		
6,900.00	5,897.14	6,868.08	5,754.18	68.26	72.48	22.91	1,416.61	3,097.25	244.73	164.79	79.95	3.061		
7,000.00	5,977.43	6,968.00	5,832.23	69.50	73.81	22.95	1,442.63	3,153.95	248.65	167.26	81.39	3.055		
7,100.00	6,057.72	7,067.92	5,910.29	70.75	75.14	22.98	1,468.64	3,210.65	252.56	169.72	82.84	3.049		
7,200.00	6,138.02	7,167.85	5,988.35	72.00	76.47	23.01	1,494.66	3,267.35	256.48	172.19	84.29	3.043		
7,300.00	6,218.31	7,267.77	6,066.40	73.25	77.80	23.05	1,520.68	3,324.05	260.40	174.66	85.74	3.037		
7,400.00	6,298.60	7,367.69	6,144.46	74.50	79.12	23.08	1,546.70	3,380.75	264.31	177.12	87.19	3.031		
7,500.00	6,378.90	7,467.62	6,222.52	75.75	80.45	23.11	1,572.71	3,437.44	268.23	179.59	88.64	3.026		
7,600.00	6,459.19	7,567.54	6,300.57	77.00	81.78	23.14	1,598.73	3,494.14	272.15	182.05	90.09	3.021		
7,700.00	6,539.48	7,667.46	6,378.63	78.25	83.11	23.17	1,624.75	3,550.84	276.06	184.52	91.55	3.016		
7,800.00	6,619.77	7,767.39	6,456.69	79.50	84.44	23.20	1,650.77	3,607.54	279.98	186.98	93.00	3.011		
7,900.00	6,700.07	7,867.31	6,534.75	80.75	85.77	23.22	1,676.78	3,664.24	283.90	189.45	94.45	3.006		
8,000.00	6,780.36	7,967.23	6,612.80	82.00	87.10	23.25	1,702.80	3,720.94	287.81	191.91	95.90	3.001		
8,100.00	6,860.65	8,067.16	6,690.86	83.25	88.43	23.28	1,728.82	3,777.64	291.73	194.37	97.36	2.997		
8,200.00	6,940.94	8,167.08	6,768.92	84.50	89.76	23.30	1,754.84	3,834.34	295.65	196.84	98.81	2.992		
8,300.00	7,021.24	8,267.00	6,846.97	85.76	91.09	23.33	1,780.86	3,891.04	299.57	199.30	100.27	2.988		
8,400.00	7,101.53	8,366.92	6,925.03	87.01	92.42	23.35	1,806.87	3,947.74	303.48	201.76	101.72	2.983		
8,500.00	7,181.82	8,466.85	7,003.09	88.26	93.75	23.38	1,832.89	4,004.44	307.40	204.22	103.18	2.979		
8,605.60	7,266.61	8,572.36	7,085.51	89.58	95.15	23.40	1,860.36	4,064.31	311.54	206.82	104.71	2.975		
8,650.00	7,302.60	8,616.69	7,120.14	90.13	95.74	17.45	1,871.91	4,089.47	313.23	208.38	104.85	2.988		
8,700.00	7,343.78	8,666.12	7,158.81	90.72	96.39	9.53	1,884.50	4,117.55	315.09	211.22	103.86	3.034		
8,750.00	7,385.32	8,715.47	7,198.03	91.28	97.04	1.12	1,893.74	4,146.03	317.07	214.45	102.61	3.090		
8,800.00	7,426.92	8,765.39	7,238.21	91.81	97.66	-7.33	1,898.82	4,175.19	319.18	217.79	101.39	3.148		
8,850.00	7,468.27	8,815.89	7,279.07	92.29	98.26	-15.52	1,899.54	4,204.82	321.42	221.16	100.26	3.206		
8,900.00	7,509.04	8,867.00	7,320.32	92.72	98.82	-23.19	1,895.75	4,234.73	323.75	224.50	99.26	3.262		
8,950.00	7,548.93	8,918.72	7,361.63	93.10	99.34	-30.16	1,887.30	4,264.66	326.16	227.75	98.42	3.314		
9,000.00	7,587.63	8,971.07	7,402.64	93.43	99.81	-36.37	1,874.11	4,294.36	328.61	230.86	97.75	3.362		
9,050.00	7,624.85	9,024.04	7,442.98	93.71	100.23	-41.81	1,856.11	4,323.55	331.06	233.80	97.26	3.404		
9,100.00	7,660.30	9,077.63	7,482.25	93.93	100.60	-46.53	1,833.30	4,351.96	333.50	236.55	96.95	3.440		
9,150.00	7,693.72	9,131.83	7,520.05	94.10	100.90	-50.58	1,805.73	4,379.28	335.87	239.06	96.80	3.470		
9,200.00	7,724.85	9,186.61	7,555.95	94.23	101.14	-54.05	1,773.51	4,405.21	338.14	241.33	96.81	3.493		
9,250.00	7,753.45	9,241.95	7,589.53	94.30	101.32	-56.98	1,736.82	4,429.43	340.28	243.30	96.98	3.509		
9,300.00	7,779.31	9,297.80	7,620.35	94.34	101.44	-59.45	1,695.92	4,451.65	342.25	244.94	97.30	3.517		
9,350.00	7,802.23	9,354.11	7,648.03	94.33	101.51	-61.49	1,651.14	4,471.57	344.01	246.22	97.79	3.518		
9,400.00	7,822.03	9,410.83	7,672.18	94.28	101.51	-63.15	1,602.87	4,488.93	345.54	247.09	98.44	3.510		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	9,467.89	7,692.47	94.20	101.46	-64.45	1,551.59	4,503.46	346.80	247.53	99.28	3.493		
9,500.00	7,851.72	9,525.20	7,708.59	94.10	101.37	-65.42	1,497.83	4,514.98	347.79	247.50	100.28	3.468		
9,550.00	7,861.37	9,582.70	7,720.32	93.96	101.25	-66.09	1,442.18	4,523.29	348.47	247.02	101.45	3.435		
9,600.00	7,867.46	9,640.29	7,727.49	93.81	101.09	-66.45	1,385.28	4,528.30	348.84	246.09	102.76	3.395		
9,650.00	7,869.94	9,697.89	7,730.00	93.64	100.90	-66.53	1,327.78	4,529.93	348.90	244.75	104.15	3.350		
9,659.14	7,870.00	9,708.41	7,729.95	93.60	100.87	-66.51	1,317.26	4,529.86	348.88	244.47	104.41	3.341		
9,670.75	7,870.00	9,718.92	7,730.00	93.56	100.83	-66.52	1,306.76	4,529.86	348.89	244.77	104.12	3.351		
9,700.00	7,870.00	9,748.17	7,730.00	93.46	100.73	-66.52	1,277.51	4,529.76	348.89	244.90	103.99	3.355		
9,800.00	7,870.00	9,848.17	7,730.00	93.11	100.40	-66.52	1,177.51	4,529.42	348.89	245.27	103.61	3.367		
9,900.00	7,870.00	9,948.17	7,730.00	92.77	100.09	-66.52	1,077.51	4,529.08	348.88	245.54	103.34	3.376		
10,000.00	7,870.00	10,048.17	7,730.00	92.46	99.79	-66.52	977.51	4,528.74	348.88	245.71	103.18	3.381		
10,100.00	7,870.00	10,148.17	7,730.00	92.16	99.50	-66.52	877.51	4,528.40	348.88	245.76	103.12	3.383		
10,200.00	7,870.00	10,248.17	7,730.00	91.87	99.23	-66.52	777.51	4,528.06	348.88	245.72	103.16	3.382		
10,300.00	7,870.00	10,348.17	7,730.00	91.60	98.97	-66.52	677.51	4,527.73	348.88	245.56	103.31	3.377		
10,400.00	7,870.00	10,448.17	7,730.00	91.34	98.73	-66.52	577.51	4,527.39	348.88	245.31	103.57	3.368		
10,500.00	7,870.00	10,548.17	7,730.00	91.11	98.50	-66.52	477.51	4,527.05	348.88	244.94	103.93	3.357		
10,600.00	7,870.00	10,648.17	7,730.00	90.88	98.28	-66.52	377.51	4,526.71	348.88	244.48	104.40	3.342		
10,700.00	7,870.00	10,748.17	7,730.00	90.67	98.08	-66.52	277.51	4,526.37	348.87	243.91	104.96	3.324		
10,800.00	7,870.00	10,848.17	7,730.00	90.48	97.90	-66.52	177.51	4,526.03	348.87	243.24	105.63	3.303		
10,900.00	7,870.00	10,948.17	7,730.00	90.31	97.73	-66.52	77.51	4,525.69	348.87	242.48	106.39	3.279		
11,000.00	7,870.00	11,048.17	7,730.00	90.15	97.57	-66.52	-22.48	4,525.35	348.87	241.62	107.25	3.253		
11,100.00	7,870.00	11,148.17	7,730.00	90.00	97.43	-66.52	-122.48	4,525.02	348.87	240.66	108.21	3.224		
11,200.00	7,870.00	11,248.17	7,730.00	89.88	97.30	-66.52	-222.48	4,524.68	348.87	239.61	109.25	3.193		
11,300.00	7,870.00	11,348.17	7,730.00	89.77	97.19	-66.52	-322.48	4,524.34	348.87	238.48	110.39	3.160		
11,400.00	7,870.00	11,448.17	7,730.00	89.68	97.10	-66.52	-422.48	4,524.00	348.87	237.25	111.61	3.126		
11,500.00	7,870.00	11,548.17	7,730.00	89.60	97.02	-66.52	-522.48	4,523.66	348.86	235.95	112.92	3.090		
11,600.00	7,870.00	11,648.17	7,730.00	89.55	96.96	-66.52	-622.48	4,523.32	348.86	234.56	114.30	3.052		
11,700.00	7,870.00	11,748.17	7,730.00	89.52	96.91	-66.52	-722.48	4,522.98	348.86	233.10	115.77	3.014		
11,800.00	7,870.00	11,848.17	7,730.00	89.50	96.88	-66.52	-822.48	4,522.64	348.86	231.56	117.30	2.974		
11,900.00	7,870.00	11,948.17	7,730.00	89.51	96.87	-66.52	-922.48	4,522.31	348.86	229.95	118.91	2.934		
12,000.00	7,870.00	12,048.17	7,730.00	89.54	96.88	-66.52	-1,022.48	4,521.97	348.86	228.27	120.59	2.893		
12,100.00	7,870.00	12,148.17	7,730.00	89.59	96.91	-66.52	-1,122.48	4,521.63	348.86	226.52	122.34	2.852		
12,200.00	7,870.00	12,248.17	7,730.00	89.66	96.96	-66.52	-1,222.48	4,521.29	348.86	224.71	124.15	2.810		
12,300.00	7,870.00	12,348.17	7,730.00	89.77	97.03	-66.52	-1,322.48	4,520.95	348.85	222.84	126.01	2.768		
12,400.00	7,870.00	12,448.17	7,730.00	89.89	97.12	-66.52	-1,422.48	4,520.61	348.85	220.91	127.94	2.727		
12,500.00	7,870.00	12,548.17	7,730.00	90.05	97.24	-66.52	-1,522.48	4,520.27	348.85	218.93	129.92	2.685		
12,600.00	7,870.00	12,648.17	7,730.00	90.24	97.38	-66.52	-1,622.48	4,519.94	348.85	216.89	131.96	2.644		
12,700.00	7,870.00	12,748.17	7,730.00	90.46	97.55	-66.52	-1,722.47	4,519.60	348.85	214.81	134.04	2.603		
12,800.00	7,870.00	12,848.17	7,730.00	90.71	97.74	-66.52	-1,822.47	4,519.26	348.85	212.67	136.18	2.562		
12,900.00	7,870.00	12,948.17	7,730.00	90.99	97.96	-66.52	-1,922.47	4,518.92	348.85	210.49	138.36	2.521		
13,000.00	7,870.00	13,048.17	7,730.00	91.32	98.21	-66.52	-2,022.47	4,518.58	348.85	208.26	140.58	2.481		
13,100.00	7,870.00	13,148.17	7,730.00	91.68	98.49	-66.52	-2,122.47	4,518.24	348.84	206.00	142.85	2.442		
13,200.00	7,870.00	13,248.17	7,730.00	92.08	98.80	-66.52	-2,222.47	4,517.90	348.84	203.69	145.15	2.403		
13,300.00	7,870.00	13,348.17	7,730.00	92.52	99.15	-66.52	-2,322.47	4,517.56	348.84	201.35	147.49	2.365		
13,400.00	7,870.00	13,448.17	7,730.00	93.00	99.53	-66.52	-2,422.47	4,517.23	348.84	198.97	149.87	2.328		
13,500.00	7,870.00	13,548.17	7,730.00	93.53	99.94	-66.52	-2,522.47	4,516.89	348.84	196.55	152.29	2.291		
13,600.00	7,870.00	13,648.17	7,730.00	94.10	100.40	-66.52	-2,622.47	4,516.55	348.84	194.11	154.73	2.254		
13,700.00	7,870.00	13,748.17	7,730.00	94.72	100.89	-66.52	-2,722.47	4,516.21	348.84	191.63	157.21	2.219		
13,800.00	7,870.00	13,848.17	7,730.00	95.38	101.42	-66.52	-2,822.47	4,515.87	348.84	189.12	159.72	2.184		
13,900.00	7,870.00	13,948.17	7,730.00	96.09	101.99	-66.52	-2,922.47	4,515.53	348.83	186.58	162.25	2.150		
14,000.00	7,870.00	14,048.17	7,730.00	96.84	102.60	-66.52	-3,022.47	4,515.19	348.83	184.02	164.82	2.116		
14,100.00	7,870.00	14,148.17	7,730.00	97.64	103.25	-66.52	-3,122.47	4,514.85	348.83	181.43	167.41	2.084		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	14,248.17	7,730.00	98.48	103.94	-66.52	-3,222.47	4,514.52	348.83	178.81	170.02	2.052	
14,300.00	7,870.00	14,348.17	7,730.00	99.37	104.67	-66.52	-3,322.47	4,514.18	348.83	176.17	172.66	2.020	
14,400.00	7,870.00	14,448.17	7,730.00	100.30	105.45	-66.52	-3,422.47	4,513.84	348.83	173.51	175.32	1.990	
14,500.00	7,870.00	14,548.17	7,730.00	101.26	106.26	-66.52	-3,522.46	4,513.50	348.83	170.83	178.00	1.960	
14,600.00	7,870.00	14,648.17	7,730.00	102.27	107.11	-66.52	-3,622.46	4,513.16	348.83	168.12	180.70	1.930	
14,700.00	7,870.00	14,748.17	7,730.00	103.31	108.01	-66.52	-3,722.46	4,512.82	348.82	165.40	183.42	1.902	
14,800.00	7,870.00	14,848.17	7,730.00	104.38	108.94	-66.52	-3,822.46	4,512.48	348.82	162.66	186.16	1.874	
14,900.00	7,870.00	14,948.17	7,730.00	105.49	109.90	-66.52	-3,922.46	4,512.15	348.82	159.90	188.92	1.846	
15,000.00	7,870.00	15,048.17	7,730.00	106.63	110.90	-66.52	-4,022.46	4,511.81	348.82	157.12	191.70	1.820	
15,100.00	7,870.00	15,148.17	7,730.00	107.80	111.94	-66.52	-4,122.46	4,511.47	348.82	154.33	194.49	1.794	
15,200.00	7,870.00	15,248.17	7,730.00	109.00	113.00	-66.52	-4,222.46	4,511.13	348.82	151.52	197.30	1.768	
15,300.00	7,870.00	15,348.17	7,730.00	110.22	114.10	-66.52	-4,322.46	4,510.79	348.82	148.70	200.12	1.743	
15,400.00	7,870.00	15,448.17	7,730.00	111.47	115.23	-66.52	-4,422.46	4,510.45	348.82	145.86	202.96	1.719	
15,500.00	7,870.00	15,548.17	7,730.00	112.74	116.38	-66.52	-4,522.46	4,510.11	348.81	143.01	205.81	1.695	
15,600.00	7,870.00	15,648.17	7,730.00	114.03	117.56	-66.52	-4,622.46	4,509.77	348.81	140.14	208.67	1.672	
15,700.00	7,870.00	15,748.17	7,730.00	115.34	118.77	-66.52	-4,722.46	4,509.44	348.81	137.26	211.55	1.649	
15,800.00	7,870.00	15,848.17	7,730.00	116.68	120.00	-66.52	-4,822.46	4,509.10	348.81	134.37	214.44	1.627	
15,900.00	7,870.00	15,948.17	7,730.00	118.02	121.25	-66.52	-4,922.46	4,508.76	348.81	131.47	217.34	1.605	
16,000.00	7,870.00	16,048.17	7,730.00	119.39	122.53	-66.52	-5,022.46	4,508.42	348.81	128.55	220.25	1.584	
16,100.00	7,870.00	16,148.17	7,730.00	120.77	123.82	-66.52	-5,122.46	4,508.08	348.81	125.63	223.18	1.563	
16,200.00	7,870.00	16,248.17	7,730.00	122.17	125.14	-66.52	-5,222.45	4,507.74	348.81	122.69	226.11	1.543	
16,300.00	7,870.00	16,348.17	7,730.00	123.58	126.47	-66.52	-5,322.45	4,507.40	348.80	119.75	229.06	1.523	
16,400.00	7,870.00	16,448.17	7,730.00	125.00	127.81	-66.52	-5,422.45	4,507.07	348.80	116.79	232.01	1.503	
16,500.00	7,870.00	16,548.17	7,730.00	126.43	129.18	-66.52	-5,522.45	4,506.73	348.80	113.83	234.97	1.484 Level 3	
16,600.00	7,870.00	16,648.17	7,730.00	127.88	130.55	-66.52	-5,622.45	4,506.39	348.80	110.86	237.94	1.466 Level 3	
16,700.00	7,870.00	16,748.17	7,730.00	129.34	131.95	-66.51	-5,722.45	4,506.05	348.80	107.88	240.92	1.448 Level 3	
16,800.00	7,870.00	16,848.17	7,730.00	130.81	133.35	-66.51	-5,822.45	4,505.71	348.80	104.89	243.91	1.430 Level 3	
16,900.00	7,870.00	16,948.17	7,730.00	132.28	134.77	-66.51	-5,922.45	4,505.37	348.80	101.89	246.91	1.413 Level 3	
17,000.00	7,870.00	17,048.17	7,730.00	133.77	136.20	-66.51	-6,022.45	4,505.03	348.80	98.88	249.91	1.396 Level 3	
17,100.00	7,870.00	17,148.17	7,730.00	135.27	137.64	-66.51	-6,122.45	4,504.69	348.79	95.87	252.93	1.379 Level 3	
17,200.00	7,870.00	17,248.17	7,730.00	136.77	139.10	-66.51	-6,222.45	4,504.36	348.79	92.85	255.94	1.363 Level 3	
17,300.00	7,870.00	17,348.17	7,730.00	138.28	140.56	-66.51	-6,322.45	4,504.02	348.79	89.82	258.97	1.347 Level 3	
17,400.00	7,870.00	17,448.17	7,730.00	139.80	142.03	-66.51	-6,422.45	4,503.68	348.79	86.79	262.00	1.331 Level 3	
17,500.00	7,870.00	17,548.17	7,730.00	141.33	143.51	-66.51	-6,522.45	4,503.34	348.79	83.75	265.04	1.316 Level 3	
17,600.00	7,870.00	17,648.17	7,730.00	142.86	145.00	-66.51	-6,622.45	4,503.00	348.79	80.70	268.09	1.301 Level 3	
17,700.00	7,870.00	17,748.17	7,730.00	144.40	146.50	-66.51	-6,722.45	4,502.66	348.79	77.65	271.14	1.286 Level 3	
17,800.00	7,870.00	17,848.17	7,730.00	145.95	148.01	-66.51	-6,822.45	4,502.32	348.79	74.59	274.20	1.272 Level 3	
17,900.00	7,870.00	17,948.17	7,730.00	147.50	149.52	-66.51	-6,922.45	4,501.98	348.78	71.53	277.26	1.258 Level 3	
18,000.00	7,870.00	18,048.17	7,730.00	149.06	151.04	-66.51	-7,022.44	4,501.65	348.78	68.46	280.33	1.244 Level 2	
18,100.00	7,870.00	18,148.17	7,730.00	150.63	152.57	-66.51	-7,122.44	4,501.31	348.78	65.38	283.40	1.231 Level 2	
18,200.00	7,870.00	18,248.17	7,730.00	152.20	154.11	-66.51	-7,222.44	4,500.97	348.78	62.30	286.48	1.217 Level 2	
18,300.00	7,870.00	18,348.17	7,730.00	153.77	155.65	-66.51	-7,322.44	4,500.63	348.78	59.22	289.56	1.205 Level 2	
18,400.00	7,870.00	18,448.17	7,730.00	155.35	157.19	-66.51	-7,422.44	4,500.29	348.78	56.13	292.65	1.192 Level 2	
18,500.00	7,870.00	18,548.17	7,730.00	156.93	158.75	-66.51	-7,522.44	4,499.95	348.78	53.03	295.74	1.179 Level 2	
18,600.00	7,870.00	18,648.17	7,730.00	158.52	160.30	-66.51	-7,622.44	4,499.61	348.78	49.94	298.84	1.167 Level 2	
18,700.00	7,870.00	18,748.17	7,730.00	160.11	161.87	-66.51	-7,722.44	4,499.28	348.77	46.83	301.94	1.155 Level 2	
18,800.00	7,870.00	18,848.17	7,730.00	161.71	163.44	-66.51	-7,822.44	4,498.94	348.77	43.73	305.05	1.143 Level 2	
18,900.00	7,870.00	18,948.17	7,730.00	163.31	165.01	-66.51	-7,922.44	4,498.60	348.77	40.61	308.16	1.132 Level 2	
19,000.00	7,870.00	19,048.17	7,730.00	164.91	166.59	-66.51	-8,022.44	4,498.26	348.77	37.50	311.27	1.120 Level 2	
19,100.00	7,870.00	19,148.17	7,730.00	166.52	168.17	-66.51	-8,122.44	4,497.92	348.77	34.38	314.39	1.109 Level 2	
19,200.00	7,870.00	19,248.17	7,730.00	168.13	169.76	-66.51	-8,222.44	4,497.58	348.77	31.26	317.51	1.098 Level 2	
19,300.00	7,870.00	19,348.17	7,730.00	169.75	171.35	-66.51	-8,322.44	4,497.24	348.77	28.13	320.64	1.088 Level 2	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
19,383.51	7,870.00	19,431.68	7,730.00	171.10	172.68	-66.51	-8,405.94	4,496.96	348.77	25.52	323.25	1.079	Level 2, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	-1.00	0.00	0.00	90.00	0.00	20.16	20.16					
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	20.16	20.16	19.89	0.27	73.999		
200.00	200.00	201.00	199.00	0.49	0.50	90.00	0.00	20.16	20.16	19.17	0.99	20.377		
300.00	300.00	301.00	299.00	0.85	0.85	90.00	0.00	20.16	20.16	18.45	1.71	11.815		
400.00	400.00	399.00	399.00	1.21	1.21	90.00	0.00	20.16	20.16	17.74	2.42	8.344 CC, ES		
500.00	500.00	498.33	498.31	1.57	1.56	88.24	0.67	21.71	21.73	18.60	3.13	6.950		
600.00	600.00	597.41	597.25	1.93	1.91	84.19	2.69	26.41	26.60	22.77	3.83	6.938		
700.00	699.98	696.18	695.65	2.28	2.27	16.95	6.04	34.21	33.24	28.71	4.53	7.336		
800.00	799.84	794.72	793.47	2.64	2.65	14.93	10.73	45.10	39.95	34.73	5.22	7.653		
900.00	899.45	893.03	890.60	3.00	3.04	13.71	16.72	59.04	46.67	40.77	5.91	7.901		
1,000.00	998.70	991.12	986.93	3.37	3.46	12.99	24.01	75.98	53.39	46.80	6.59	8.096		
1,100.00	1,097.47	1,088.99	1,082.36	3.76	3.91	12.60	32.58	95.90	60.08	52.79	7.28	8.248		
1,200.00	1,195.62	1,186.63	1,176.79	4.18	4.39	12.43	42.41	118.75	66.72	58.75	7.97	8.368		
1,300.00	1,293.06	1,284.07	1,270.10	4.63	4.92	12.43	53.48	144.48	73.31	64.64	8.67	8.455		
1,400.00	1,389.64	1,381.29	1,362.22	5.11	5.49	12.56	65.76	173.04	79.85	70.47	9.38	8.517		
1,500.00	1,485.27	1,478.31	1,453.03	5.63	6.11	12.78	79.25	204.39	86.32	76.23	10.09	8.556		
1,600.00	1,579.82	1,575.13	1,542.45	6.20	6.78	13.08	93.91	238.47	92.71	81.90	10.81	8.574		
1,700.00	1,673.17	1,671.75	1,630.39	6.83	7.50	13.43	109.72	275.24	99.04	87.48	11.55	8.571		
1,800.00	1,765.21	1,768.17	1,716.75	7.51	8.29	13.84	126.66	314.62	105.28	92.97	12.31	8.549		
1,900.00	1,855.84	1,864.41	1,801.46	8.24	9.13	14.29	144.71	356.56	111.44	98.34	13.10	8.509		
2,000.00	1,944.94	1,960.47	1,884.44	9.05	10.03	14.77	163.83	401.01	117.51	103.60	13.91	8.450		
2,100.00	2,032.39	2,056.34	1,965.59	9.91	11.00	15.28	184.00	447.90	123.49	108.74	14.75	8.373		
2,200.00	2,118.11	2,152.05	2,044.85	10.85	12.02	15.82	205.19	497.17	129.38	113.75	15.63	8.279		
2,300.00	2,201.97	2,247.58	2,122.14	11.85	13.12	16.38	227.38	548.74	135.17	118.62	16.55	8.169		
2,400.00	2,283.88	2,342.96	2,197.39	12.93	14.27	16.96	250.53	602.57	140.85	123.34	17.52	8.041		
2,429.47	2,307.63	2,371.04	2,219.17	13.26	14.62	17.13	257.53	618.85	142.51	124.70	17.81	8.001		
2,500.00	2,364.26	2,438.96	2,271.16	14.06	15.49	17.49	274.80	659.00	147.21	128.65	18.56	7.932		
2,600.00	2,444.56	2,538.69	2,347.08	15.22	16.81	17.92	300.36	718.41	154.52	134.72	19.80	7.805		
2,700.00	2,524.85	2,638.42	2,423.00	16.39	18.13	18.30	325.91	777.81	161.84	140.78	21.06	7.684		
2,800.00	2,605.14	2,738.14	2,498.92	17.57	19.47	18.66	351.46	837.21	169.16	146.81	22.35	7.570		
2,900.00	2,685.43	2,837.87	2,574.83	18.76	20.81	18.98	377.02	896.62	176.49	152.83	23.65	7.461		
3,000.00	2,765.73	2,937.59	2,650.75	19.96	22.16	19.28	402.57	956.02	183.82	158.84	24.98	7.359		
3,100.00	2,846.02	3,037.32	2,726.67	21.16	23.52	19.55	428.12	1,015.43	191.16	164.84	26.32	7.264		
3,200.00	2,926.31	3,137.05	2,802.59	22.37	24.88	19.80	453.68	1,074.83	198.50	170.83	27.67	7.174		
3,300.00	3,006.60	3,236.77	2,878.50	23.59	26.25	20.04	479.23	1,134.24	205.84	176.81	29.04	7.089		
3,400.00	3,086.90	3,336.50	2,954.42	24.81	27.62	20.26	504.78	1,193.64	213.19	182.78	30.41	7.010		
3,500.00	3,167.19	3,436.23	3,030.34	26.03	28.99	20.47	530.34	1,253.04	220.54	188.74	31.80	6.936		
3,600.00	3,247.48	3,535.95	3,106.26	27.25	30.36	20.66	555.89	1,312.45	227.89	194.70	33.19	6.866		
3,700.00	3,327.77	3,635.68	3,182.18	28.48	31.74	20.84	581.45	1,371.85	235.25	200.66	34.59	6.800		
3,800.00	3,408.07	3,735.41	3,258.09	29.71	33.12	21.01	607.00	1,431.26	242.61	206.61	36.00	6.738		
3,900.00	3,488.36	3,835.13	3,334.01	30.94	34.50	21.16	632.55	1,490.66	249.97	212.55	37.42	6.680		
4,000.00	3,568.65	3,934.86	3,409.93	32.17	35.88	21.31	658.11	1,550.06	257.33	218.49	38.84	6.625		
4,100.00	3,648.95	4,034.59	3,485.85	33.41	37.27	21.46	683.66	1,609.47	264.69	224.43	40.27	6.573		
4,200.00	3,729.24	4,134.31	3,561.77	34.64	38.65	21.59	709.21	1,668.87	272.06	230.36	41.70	6.524		
4,300.00	3,809.53	4,234.04	3,637.68	35.88	40.04	21.72	734.77	1,728.28	279.43	236.29	43.13	6.478		
4,400.00	3,889.82	4,333.76	3,713.60	37.12	41.43	21.84	760.32	1,787.68	286.79	242.22	44.58	6.434		
4,500.00	3,970.12	4,433.49	3,789.52	38.36	42.81	21.95	785.87	1,847.09	294.16	248.14	46.02	6.392		
4,600.00	4,050.41	4,533.22	3,865.44	39.60	44.20	22.06	811.43	1,906.49	301.53	254.07	47.47	6.353		
4,700.00	4,130.70	4,632.94	3,941.36	40.84	45.59	22.16	836.98	1,965.89	308.91	259.99	48.92	6.315		
4,800.00	4,210.99	4,732.67	4,017.27	42.08	46.98	22.26	862.53	2,025.30	316.28	265.91	50.37	6.279		
4,900.00	4,291.29	4,832.40	4,093.19	43.32	48.37	22.36	888.09	2,084.70	323.65	271.82	51.83	6.245		
5,000.00	4,371.58	4,932.12	4,169.11	44.57	49.77	22.45	913.64	2,144.11	331.02	277.74	53.28	6.212		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,031.85	4,245.03	45.81	51.16	22.53	939.19	2,203.51	338.40	283.65	54.75	6.181		
5,200.00	4,532.16	5,131.58	4,320.95	47.05	52.55	22.62	964.75	2,262.91	345.77	289.57	56.21	6.152		
5,300.00	4,612.46	5,231.30	4,396.86	48.30	53.94	22.69	990.30	2,322.32	353.15	295.48	57.67	6.123		
5,400.00	4,692.75	5,331.03	4,472.78	49.54	55.34	22.77	1,015.85	2,381.72	360.53	301.39	59.14	6.096		
5,500.00	4,773.04	5,430.76	4,548.70	50.79	56.73	22.84	1,041.41	2,441.13	367.90	307.29	60.61	6.070		
5,600.00	4,853.34	5,530.48	4,624.62	52.03	58.12	22.91	1,066.96	2,500.53	375.28	313.20	62.08	6.045		
5,700.00	4,933.63	5,630.21	4,700.53	53.28	59.52	22.98	1,092.51	2,559.94	382.66	319.11	63.55	6.021		
5,800.00	5,013.92	5,729.93	4,776.45	54.53	60.91	23.04	1,118.07	2,619.34	390.04	325.01	65.03	5.998		
5,900.00	5,094.21	5,829.66	4,852.37	55.77	62.31	23.11	1,143.62	2,678.74	397.42	330.92	66.50	5.976		
6,000.00	5,174.51	5,929.39	4,928.29	57.02	63.70	23.17	1,169.17	2,738.15	404.80	336.82	67.98	5.955		
6,100.00	5,254.80	6,029.11	5,004.21	58.27	65.10	23.22	1,194.73	2,797.55	412.18	342.72	69.46	5.934		
6,200.00	5,335.09	6,128.84	5,080.12	59.52	66.49	23.28	1,220.28	2,856.96	419.56	348.62	70.94	5.915		
6,300.00	5,415.38	6,228.57	5,156.04	60.76	67.89	23.33	1,245.83	2,916.36	426.94	354.52	72.42	5.896		
6,400.00	5,495.68	6,328.29	5,231.96	62.01	69.29	23.39	1,271.39	2,975.77	434.32	360.42	73.90	5.877		
6,500.00	5,575.97	6,428.02	5,307.88	63.26	70.68	23.44	1,296.94	3,035.17	441.70	366.32	75.38	5.860		
6,600.00	5,656.26	6,527.75	5,383.80	64.51	72.08	23.49	1,322.49	3,094.57	449.09	372.22	76.86	5.843		
6,700.00	5,736.55	6,627.47	5,459.71	65.76	73.47	23.53	1,348.05	3,153.98	456.47	378.12	78.35	5.826		
6,800.00	5,816.85	6,727.20	5,535.63	67.01	74.87	23.58	1,373.60	3,213.38	463.85	384.02	79.83	5.810		
6,900.00	5,897.14	6,826.93	5,611.55	68.26	76.27	23.62	1,399.15	3,272.79	471.24	389.92	81.32	5.795		
7,000.00	5,977.43	6,926.65	5,687.47	69.50	77.66	23.66	1,424.71	3,332.19	478.62	395.81	82.81	5.780		
7,100.00	6,057.72	7,026.38	5,763.39	70.75	79.06	23.71	1,450.26	3,391.59	486.00	401.71	84.29	5.766		
7,200.00	6,138.02	7,126.10	5,839.30	72.00	80.46	23.75	1,475.81	3,451.00	493.39	407.61	85.78	5.752		
7,300.00	6,218.31	7,225.83	5,915.22	73.25	81.86	23.79	1,501.37	3,510.40	500.77	413.50	87.27	5.738		
7,400.00	6,298.60	7,325.56	5,991.14	74.50	83.25	23.82	1,526.92	3,569.81	508.15	419.40	88.76	5.725		
7,500.00	6,378.90	7,425.28	6,067.06	75.75	84.65	23.86	1,552.47	3,629.21	515.54	425.29	90.25	5.712		
7,600.00	6,459.19	7,525.01	6,142.98	77.00	86.05	23.90	1,578.03	3,688.62	522.92	431.18	91.74	5.700		
7,700.00	6,539.48	7,624.74	6,218.89	78.25	87.45	23.93	1,603.58	3,748.02	530.31	437.08	93.23	5.688		
7,800.00	6,619.77	7,724.46	6,294.81	79.50	88.84	23.96	1,629.13	3,807.42	537.69	442.97	94.72	5.677		
7,900.00	6,700.07	7,824.19	6,370.73	80.75	90.24	24.00	1,654.69	3,866.83	545.08	448.86	96.21	5.665		
8,000.00	6,780.36	7,923.92	6,446.65	82.00	91.64	24.03	1,680.24	3,926.23	552.46	454.76	97.71	5.654		
8,100.00	6,860.65	8,023.64	6,522.56	83.25	93.04	24.06	1,705.79	3,985.64	559.85	460.65	99.20	5.644		
8,200.00	6,940.94	8,123.37	6,598.48	84.50	94.44	24.09	1,731.35	4,045.04	567.24	466.54	100.69	5.633		
8,300.00	7,021.24	8,223.10	6,674.40	85.76	95.84	24.12	1,756.90	4,104.44	574.62	472.43	102.19	5.623		
8,400.00	7,101.53	8,322.82	6,750.32	87.01	97.23	24.15	1,782.45	4,163.85	582.01	478.32	103.68	5.613		
8,500.00	7,181.82	8,422.55	6,826.24	88.26	98.63	24.18	1,808.01	4,223.25	589.39	484.22	105.18	5.604		
8,605.60	7,266.61	8,527.86	6,906.40	89.58	100.11	24.21	1,834.99	4,285.98	597.19	490.44	106.76	5.594		
8,650.00	7,302.60	8,572.10	6,940.09	90.13	100.73	18.56	1,846.33	4,312.34	600.40	493.27	107.13	5.604		
8,700.00	7,343.78	8,621.62	6,977.78	90.72	101.42	11.26	1,859.02	4,341.84	603.84	496.98	106.87	5.650		
8,750.00	7,385.32	8,670.45	7,014.96	91.28	102.11	3.23	1,871.53	4,370.92	607.22	501.32	105.90	5.734		
8,800.00	7,426.92	8,718.23	7,051.32	91.81	102.78	-5.20	1,883.77	4,399.38	610.70	506.41	104.29	5.856		
8,850.00	7,468.27	8,765.21	7,087.27	92.29	103.43	-13.59	1,894.88	4,427.50	614.54	512.27	102.27	6.009		
8,900.00	7,509.04	8,813.44	7,124.77	92.72	104.09	-21.50	1,902.53	4,456.83	618.84	518.47	100.37	6.166		
8,950.00	7,548.93	8,863.24	7,163.89	93.10	104.74	-28.74	1,906.20	4,487.41	623.56	524.87	98.68	6.319		
9,000.00	7,587.63	8,914.79	7,204.49	93.43	105.39	-35.24	1,905.45	4,519.13	628.66	531.37	97.28	6.462		
9,050.00	7,624.85	8,968.26	7,246.38	93.71	106.01	-41.01	1,899.78	4,551.84	634.08	537.88	96.20	6.591		
9,100.00	7,660.30	9,023.84	7,289.30	93.93	106.59	-46.08	1,888.66	4,585.33	639.74	544.32	95.42	6.704		
9,150.00	7,693.72	9,081.71	7,332.86	94.10	107.13	-50.52	1,871.54	4,619.32	645.55	550.62	94.93	6.800		
9,200.00	7,724.85	9,142.04	7,376.60	94.23	107.62	-54.40	1,847.85	4,653.41	651.40	556.72	94.68	6.880		
9,250.00	7,753.45	9,204.95	7,419.86	94.30	108.05	-57.76	1,817.09	4,687.11	657.16	562.53	94.63	6.945		
9,300.00	7,779.31	9,270.54	7,461.87	94.34	108.38	-60.66	1,778.83	4,719.80	662.69	567.93	94.75	6.994		
9,350.00	7,802.23	9,338.83	7,501.65	94.33	108.64	-63.13	1,732.80	4,750.73	667.83	572.75	95.08	7.024		
9,400.00	7,822.03	9,409.71	7,538.09	94.28	108.80	-65.18	1,679.05	4,779.02	672.44	576.77	95.68	7.028		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	9,482.98	7,569.97	94.20	108.87	-66.84	1,617.94	4,803.73	676.37	579.72	96.65	6.998		
9,500.00	7,851.72	9,558.29	7,596.08	94.10	108.85	-68.10	1,550.30	4,823.90	679.48	581.36	98.11	6.926		
9,550.00	7,861.37	9,635.14	7,615.29	93.96	108.74	-68.96	1,477.42	4,838.66	681.65	581.51	100.13	6.807		
9,600.00	7,867.46	9,712.94	7,626.74	93.81	108.56	-69.43	1,401.03	4,847.35	682.81	580.11	102.69	6.649		
9,650.00	7,869.94	9,787.69	7,630.00	93.64	108.33	-69.52	1,326.43	4,849.65	682.93	577.66	105.27	6.487		
9,659.13	7,870.00	9,803.17	7,630.00	93.60	108.28	-69.51	1,317.30	4,849.61	682.91	577.71	105.20	6.491		
9,659.14	7,870.00	9,796.83	7,630.00	93.60	108.30	-69.51	1,317.30	4,849.61	682.91	577.69	105.22	6.490		
9,700.00	7,870.00	9,837.69	7,630.00	93.46	108.17	-69.51	1,276.43	4,849.48	682.91	577.90	105.01	6.504		
9,800.00	7,870.00	9,937.69	7,630.00	93.11	107.86	-69.51	1,176.44	4,849.14	682.91	578.36	104.55	6.532		
9,900.00	7,870.00	10,037.69	7,630.00	92.77	107.56	-69.51	1,076.44	4,848.80	682.91	578.72	104.19	6.554		
10,000.00	7,870.00	10,137.69	7,630.00	92.46	107.28	-69.51	976.44	4,848.47	682.91	578.97	103.94	6.570		
10,100.00	7,870.00	10,237.69	7,630.00	92.16	107.00	-69.51	876.44	4,848.13	682.91	579.11	103.81	6.579		
10,200.00	7,870.00	10,337.69	7,630.00	91.87	106.74	-69.51	776.44	4,847.79	682.91	579.14	103.77	6.581		
10,300.00	7,870.00	10,437.69	7,630.00	91.60	106.50	-69.51	676.44	4,847.45	682.91	579.06	103.85	6.576		
10,400.00	7,870.00	10,537.69	7,630.00	91.34	106.27	-69.51	576.44	4,847.12	682.91	578.87	104.04	6.564		
10,500.00	7,870.00	10,637.69	7,630.00	91.11	106.05	-69.51	476.44	4,846.78	682.91	578.58	104.33	6.545		
10,600.00	7,870.00	10,737.69	7,630.00	90.88	105.84	-69.51	376.44	4,846.44	682.91	578.18	104.74	6.520		
10,700.00	7,870.00	10,837.69	7,630.00	90.67	105.65	-69.51	276.44	4,846.11	682.91	577.67	105.24	6.489		
10,800.00	7,870.00	10,937.69	7,630.00	90.48	105.47	-69.51	176.44	4,845.77	682.91	577.06	105.85	6.451		
10,900.00	7,870.00	11,037.69	7,630.00	90.31	105.30	-69.51	76.44	4,845.43	682.91	576.34	106.57	6.408		
11,000.00	7,870.00	11,137.69	7,630.00	90.15	105.15	-69.51	-23.56	4,845.09	682.91	575.53	107.38	6.360		
11,100.00	7,870.00	11,237.69	7,630.00	90.00	105.01	-69.51	-123.56	4,844.76	682.91	574.62	108.29	6.306		
11,200.00	7,870.00	11,337.69	7,630.00	89.88	104.89	-69.51	-223.56	4,844.42	682.91	573.61	109.30	6.248		
11,300.00	7,870.00	11,437.69	7,630.00	89.77	104.78	-69.51	-323.56	4,844.08	682.91	572.51	110.40	6.186		
11,400.00	7,870.00	11,537.69	7,630.00	89.68	104.68	-69.51	-423.56	4,843.74	682.91	571.32	111.59	6.120		
11,500.00	7,870.00	11,637.69	7,630.00	89.60	104.60	-69.51	-523.56	4,843.41	682.91	570.04	112.87	6.050		
11,600.00	7,870.00	11,737.69	7,630.00	89.55	104.53	-69.51	-623.55	4,843.07	682.91	568.68	114.23	5.978		
11,700.00	7,870.00	11,837.69	7,630.00	89.52	104.48	-69.51	-723.55	4,842.73	682.91	567.24	115.68	5.904		
11,800.00	7,870.00	11,937.69	7,630.00	89.50	104.44	-69.51	-823.55	4,842.40	682.91	565.72	117.20	5.827		
11,900.00	7,870.00	12,037.69	7,630.00	89.51	104.42	-69.51	-923.55	4,842.06	682.91	564.12	118.79	5.749		
12,000.00	7,870.00	12,137.69	7,630.00	89.54	104.42	-69.51	-1,023.55	4,841.72	682.91	562.45	120.47	5.669		
12,100.00	7,870.00	12,237.69	7,630.00	89.59	104.43	-69.51	-1,123.55	4,841.38	682.91	560.71	122.20	5.588		
12,200.00	7,870.00	12,337.69	7,630.00	89.66	104.46	-69.51	-1,223.55	4,841.05	682.91	558.90	124.01	5.507		
12,300.00	7,870.00	12,437.69	7,630.00	89.77	104.51	-69.51	-1,323.55	4,840.71	682.91	557.03	125.88	5.425		
12,400.00	7,870.00	12,537.69	7,630.00	89.89	104.57	-69.51	-1,423.55	4,840.37	682.91	555.10	127.81	5.343		
12,500.00	7,870.00	12,637.69	7,630.00	90.05	104.66	-69.51	-1,523.55	4,840.04	682.91	553.11	129.80	5.261		
12,600.00	7,870.00	12,737.69	7,630.00	90.24	104.77	-69.51	-1,623.55	4,839.70	682.91	551.07	131.84	5.180		
12,700.00	7,870.00	12,837.69	7,630.00	90.46	104.90	-69.51	-1,723.55	4,839.36	682.91	548.97	133.94	5.099		
12,800.00	7,870.00	12,937.69	7,630.00	90.71	105.05	-69.51	-1,823.55	4,839.02	682.91	546.83	136.09	5.018		
12,900.00	7,870.00	13,037.69	7,630.00	90.99	105.22	-69.51	-1,923.55	4,838.69	682.91	544.63	138.28	4.939		
13,000.00	7,870.00	13,137.69	7,630.00	91.32	105.42	-69.51	-2,023.55	4,838.35	682.91	542.39	140.52	4.860		
13,100.00	7,870.00	13,237.69	7,630.00	91.68	105.64	-69.51	-2,123.55	4,838.01	682.91	540.10	142.81	4.782		
13,200.00	7,870.00	13,337.69	7,630.00	92.08	105.89	-69.51	-2,223.55	4,837.68	682.91	537.78	145.14	4.705		
13,300.00	7,870.00	13,437.69	7,630.00	92.52	106.17	-69.51	-2,323.54	4,837.34	682.91	535.41	147.50	4.630		
13,400.00	7,870.00	13,537.69	7,630.00	93.00	106.47	-69.51	-2,423.54	4,837.00	682.92	533.01	149.91	4.556		
13,500.00	7,870.00	13,637.69	7,630.00	93.53	106.81	-69.51	-2,523.54	4,836.66	682.92	530.57	152.35	4.483		
13,600.00	7,870.00	13,737.69	7,630.00	94.10	107.17	-69.51	-2,623.54	4,836.33	682.92	528.09	154.82	4.411		
13,700.00	7,870.00	13,837.69	7,630.00	94.72	107.57	-69.51	-2,723.54	4,835.99	682.92	525.58	157.33	4.341		
13,800.00	7,870.00	13,937.69	7,630.00	95.38	108.00	-69.51	-2,823.54	4,835.65	682.92	523.05	159.87	4.272		
13,900.00	7,870.00	14,037.69	7,630.00	96.09	108.46	-69.51	-2,923.54	4,835.32	682.92	520.48	162.44	4.204		
14,000.00	7,870.00	14,137.69	7,630.00	96.84	108.96	-69.51	-3,023.54	4,834.98	682.92	517.88	165.03	4.138		
14,100.00	7,870.00	14,237.69	7,630.00	97.64	109.49	-69.51	-3,123.54	4,834.64	682.92	515.26	167.66	4.073		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	14,337.69	7,630.00	98.48	110.06	-69.51	-3,223.54	4,834.30	682.92	512.61	170.31	4.010		
14,300.00	7,870.00	14,437.69	7,630.00	99.37	110.66	-69.51	-3,323.54	4,833.97	682.92	509.94	172.98	3.948		
14,400.00	7,870.00	14,537.69	7,630.00	100.30	111.30	-69.51	-3,423.54	4,833.63	682.92	507.24	175.68	3.887		
14,500.00	7,870.00	14,637.69	7,630.00	101.26	111.98	-69.51	-3,523.54	4,833.29	682.92	504.52	178.40	3.828		
14,600.00	7,870.00	14,737.69	7,630.00	102.27	112.70	-69.51	-3,623.54	4,832.96	682.92	501.78	181.14	3.770		
14,700.00	7,870.00	14,837.69	7,630.00	103.31	113.45	-69.51	-3,723.54	4,832.62	682.92	499.02	183.90	3.713		
14,800.00	7,870.00	14,937.69	7,630.00	104.38	114.24	-69.51	-3,823.54	4,832.28	682.92	496.23	186.68	3.658		
14,900.00	7,870.00	15,037.69	7,630.00	105.49	115.07	-69.51	-3,923.54	4,831.94	682.92	493.44	189.48	3.604		
15,000.00	7,870.00	15,137.69	7,630.00	106.63	115.93	-69.51	-4,023.54	4,831.61	682.92	490.62	192.30	3.551		
15,100.00	7,870.00	15,237.69	7,630.00	107.80	116.82	-69.51	-4,123.53	4,831.27	682.92	487.78	195.13	3.500		
15,200.00	7,870.00	15,337.69	7,630.00	109.00	117.76	-69.51	-4,223.53	4,830.93	682.92	484.93	197.99	3.449		
15,300.00	7,870.00	15,437.69	7,630.00	110.22	118.72	-69.51	-4,323.53	4,830.59	682.92	482.07	200.85	3.400		
15,400.00	7,870.00	15,537.69	7,630.00	111.47	119.72	-69.51	-4,423.53	4,830.26	682.92	479.18	203.73	3.352		
15,500.00	7,870.00	15,637.69	7,630.00	112.74	120.74	-69.51	-4,523.53	4,829.92	682.92	476.29	206.63	3.305		
15,600.00	7,870.00	15,737.69	7,630.00	114.03	121.80	-69.51	-4,623.53	4,829.58	682.92	473.38	209.54	3.259		
15,700.00	7,870.00	15,837.69	7,630.00	115.34	122.89	-69.51	-4,723.53	4,829.25	682.92	470.46	212.46	3.214		
15,800.00	7,870.00	15,937.69	7,630.00	116.68	124.00	-69.51	-4,823.53	4,828.91	682.92	467.52	215.40	3.171		
15,900.00	7,870.00	16,037.69	7,630.00	118.02	125.14	-69.51	-4,923.53	4,828.57	682.92	464.57	218.35	3.128		
16,000.00	7,870.00	16,137.69	7,630.00	119.39	126.31	-69.51	-5,023.53	4,828.23	682.92	461.61	221.30	3.086		
16,100.00	7,870.00	16,237.69	7,630.00	120.77	127.50	-69.51	-5,123.53	4,827.90	682.92	458.64	224.28	3.045		
16,200.00	7,870.00	16,337.69	7,630.00	122.17	128.71	-69.51	-5,223.53	4,827.56	682.92	455.66	227.26	3.005		
16,300.00	7,870.00	16,437.69	7,630.00	123.58	129.95	-69.51	-5,323.53	4,827.22	682.92	452.67	230.25	2.966		
16,400.00	7,870.00	16,537.69	7,630.00	125.00	131.21	-69.51	-5,423.53	4,826.89	682.92	449.67	233.25	2.928		
16,500.00	7,870.00	16,637.69	7,630.00	126.43	132.48	-69.51	-5,523.53	4,826.55	682.92	446.66	236.26	2.891		
16,600.00	7,870.00	16,737.69	7,630.00	127.88	133.78	-69.51	-5,623.53	4,826.21	682.92	443.64	239.28	2.854		
16,700.00	7,870.00	16,837.69	7,630.00	129.34	135.09	-69.51	-5,723.53	4,825.87	682.92	440.61	242.31	2.818		
16,800.00	7,870.00	16,937.69	7,630.00	130.81	136.42	-69.51	-5,823.52	4,825.54	682.92	437.57	245.35	2.783		
16,900.00	7,870.00	17,037.69	7,630.00	132.28	137.76	-69.51	-5,923.52	4,825.20	682.92	434.53	248.39	2.749		
17,000.00	7,870.00	17,137.69	7,630.00	133.77	139.12	-69.51	-6,023.52	4,824.86	682.92	431.47	251.45	2.716		
17,100.00	7,870.00	17,237.69	7,630.00	135.27	140.49	-69.51	-6,123.52	4,824.53	682.92	428.41	254.51	2.683		
17,200.00	7,870.00	17,337.69	7,630.00	136.77	141.88	-69.51	-6,223.52	4,824.19	682.92	425.34	257.58	2.651		
17,300.00	7,870.00	17,437.69	7,630.00	138.28	143.28	-69.51	-6,323.52	4,823.85	682.92	422.27	260.65	2.620		
17,400.00	7,870.00	17,537.69	7,630.00	139.80	144.69	-69.51	-6,423.52	4,823.51	682.92	419.18	263.74	2.589		
17,500.00	7,870.00	17,637.69	7,630.00	141.33	146.12	-69.51	-6,523.52	4,823.18	682.92	416.09	266.83	2.559		
17,600.00	7,870.00	17,737.69	7,630.00	142.86	147.55	-69.51	-6,623.52	4,822.84	682.92	413.00	269.92	2.530		
17,700.00	7,870.00	17,837.69	7,630.00	144.40	149.00	-69.51	-6,723.52	4,822.50	682.92	409.90	273.02	2.501		
17,800.00	7,870.00	17,937.69	7,630.00	145.95	150.46	-69.51	-6,823.52	4,822.17	682.92	406.79	276.13	2.473		
17,900.00	7,870.00	18,037.69	7,630.00	147.50	151.92	-69.51	-6,923.52	4,821.83	682.92	403.67	279.25	2.446		
18,000.00	7,870.00	18,137.69	7,630.00	149.06	153.40	-69.51	-7,023.52	4,821.49	682.92	400.56	282.37	2.419		
18,100.00	7,870.00	18,237.69	7,630.00	150.63	154.88	-69.51	-7,123.52	4,821.15	682.92	397.43	285.49	2.392		
18,200.00	7,870.00	18,337.69	7,630.00	152.20	156.37	-69.51	-7,223.52	4,820.82	682.92	394.30	288.62	2.366		
18,300.00	7,870.00	18,437.69	7,630.00	153.77	157.87	-69.51	-7,323.52	4,820.48	682.92	391.17	291.76	2.341		
18,400.00	7,870.00	18,537.69	7,630.00	155.35	159.38	-69.51	-7,423.52	4,820.14	682.92	388.03	294.90	2.316		
18,500.00	7,870.00	18,637.69	7,630.00	156.93	160.89	-69.51	-7,523.52	4,819.81	682.92	384.88	298.04	2.291		
18,600.00	7,870.00	18,737.69	7,630.00	158.52	162.41	-69.51	-7,623.51	4,819.47	682.92	381.73	301.19	2.267		
18,700.00	7,870.00	18,837.69	7,630.00	160.11	163.94	-69.51	-7,723.51	4,819.13	682.92	378.58	304.34	2.244		
18,800.00	7,870.00	18,937.69	7,630.00	161.71	165.48	-69.51	-7,823.51	4,818.79	682.92	375.42	307.50	2.221		
18,900.00	7,870.00	19,037.69	7,630.00	163.31	167.02	-69.51	-7,923.51	4,818.46	682.92	372.26	310.66	2.198		
19,000.00	7,870.00	19,137.69	7,630.00	164.91	168.56	-69.51	-8,023.51	4,818.12	682.92	369.09	313.83	2.176		
19,100.00	7,870.00	19,237.69	7,630.00	166.52	170.11	-69.51	-8,123.51	4,817.78	682.92	365.92	317.00	2.154		
19,200.00	7,870.00	19,337.69	7,630.00	168.13	171.67	-69.51	-8,223.51	4,817.44	682.92	362.75	320.17	2.133		
19,300.00	7,870.00	19,437.69	7,630.00	169.75	173.23	-69.51	-8,323.51	4,817.11	682.92	359.57	323.35	2.112		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,308.36	7,870.00	19,446.05	7,630.00	169.88	173.36	-69.51	-8,331.87	4,817.08	682.92	359.31	323.62	2.110	
19,383.51	7,870.00	19,518.56	7,630.00	171.10	174.50	-69.51	-8,404.38	4,816.84	682.93	356.58	326.35	2.093 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	1.00	-1.00	0.00	0.00	90.00	0.00	30.24	30.24				
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	30.24	30.24	29.97	0.27	110.998	
200.00	200.00	201.00	199.00	0.49	0.50	90.00	0.00	30.24	30.24	29.25	0.99	30.565	
300.00	300.00	299.00	299.00	0.85	0.85	90.00	0.00	30.24	30.24	28.54	1.70	17.797 CC, ES	
400.00	400.00	398.00	397.98	1.21	1.20	88.88	0.62	31.80	31.82	29.41	2.41	13.203	
500.00	500.00	496.76	496.60	1.57	1.55	86.06	2.51	36.51	36.67	33.56	3.12	11.759	
600.00	600.00	595.05	594.53	1.93	1.91	82.74	5.65	44.33	44.91	41.09	3.83	11.739	
700.00	699.98	692.87	691.63	2.28	2.29	16.34	10.01	55.20	54.92	50.40	4.52	12.150	
800.00	799.84	790.34	787.95	2.64	2.68	14.79	15.58	69.09	64.98	59.78	5.21	12.484	
900.00	899.45	887.49	883.38	3.00	3.10	13.85	22.35	85.95	75.04	69.15	5.89	12.739	
1,000.00	998.70	984.32	977.83	3.37	3.56	13.31	30.28	105.74	85.05	78.48	6.58	12.933	
1,100.00	1,097.47	1,080.82	1,071.19	3.76	4.04	13.03	39.37	128.39	95.01	87.74	7.26	13.080	
1,200.00	1,195.62	1,177.02	1,163.38	4.18	4.57	12.95	49.58	153.87	104.89	96.93	7.95	13.188	
1,300.00	1,293.06	1,272.90	1,254.31	4.63	5.14	13.00	60.91	182.10	114.68	106.02	8.65	13.255	
1,400.00	1,389.64	1,368.49	1,343.89	5.11	5.76	13.17	73.32	213.05	124.37	115.01	9.36	13.292	
1,500.00	1,485.27	1,463.79	1,432.04	5.63	6.43	13.41	86.79	246.64	133.96	123.88	10.07	13.300	
1,600.00	1,579.82	1,558.80	1,518.68	6.20	7.15	13.72	101.31	282.82	143.43	132.63	10.80	13.280	
1,700.00	1,673.17	1,653.53	1,603.73	6.83	7.92	14.08	116.83	321.53	152.78	141.24	11.55	13.234	
1,800.00	1,765.21	1,747.99	1,687.12	7.51	8.75	14.49	133.35	362.71	162.01	149.70	12.31	13.162	
1,900.00	1,855.84	1,842.19	1,768.77	8.24	9.64	14.93	150.83	406.29	171.11	158.01	13.10	13.065	
2,000.00	1,944.94	1,936.13	1,848.62	9.05	10.59	15.40	169.24	452.21	180.07	166.16	13.91	12.943	
2,100.00	2,032.39	2,029.82	1,926.60	9.91	11.59	15.90	188.57	500.41	188.89	174.13	14.76	12.797	
2,200.00	2,118.11	2,123.27	2,002.65	10.85	12.66	16.42	208.79	550.81	197.56	181.92	15.65	12.627	
2,300.00	2,201.97	2,216.49	2,076.70	11.85	13.78	16.96	229.86	603.35	206.09	189.51	16.57	12.434	
2,400.00	2,283.88	2,309.48	2,148.70	12.93	14.97	17.52	251.77	657.97	214.46	196.91	17.55	12.219	
2,429.47	2,307.63	2,337.51	2,170.04	13.26	15.33	17.70	258.54	674.85	216.88	199.01	17.87	12.136	
2,500.00	2,364.26	2,407.79	2,223.43	14.06	16.27	18.17	275.55	717.26	222.49	203.73	18.76	11.862	
2,600.00	2,444.56	2,507.44	2,299.14	15.22	17.61	18.81	299.67	777.39	230.46	210.42	20.05	11.497	
2,700.00	2,524.85	2,607.09	2,374.86	16.39	18.96	19.40	323.79	837.53	238.47	217.10	21.37	11.160	
2,800.00	2,605.14	2,706.74	2,450.57	17.57	20.31	19.95	347.90	897.66	246.49	223.77	22.72	10.848	
2,900.00	2,685.43	2,806.39	2,526.28	18.76	21.68	20.47	372.02	957.80	254.54	230.44	24.11	10.559	
3,000.00	2,765.73	2,906.04	2,601.99	19.96	23.05	20.95	396.14	1,017.93	262.61	237.10	25.51	10.293	
3,100.00	2,846.02	3,005.69	2,677.70	21.16	24.42	21.41	420.26	1,078.07	270.69	243.75	26.94	10.047	
3,200.00	2,926.31	3,105.34	2,753.41	22.37	25.80	21.84	444.38	1,138.20	278.79	250.40	28.39	9.819	
3,300.00	3,006.60	3,204.99	2,829.13	23.59	27.18	22.25	468.50	1,198.34	286.91	257.05	29.86	9.608	
3,400.00	3,086.90	3,304.64	2,904.84	24.81	28.57	22.63	492.62	1,258.47	295.04	263.69	31.35	9.411	
3,500.00	3,167.19	3,404.29	2,980.55	26.03	29.96	22.99	516.74	1,318.61	303.18	270.33	32.85	9.229	
3,600.00	3,247.48	3,503.94	3,056.26	27.25	31.35	23.34	540.85	1,378.74	311.33	276.96	34.37	9.059	
3,700.00	3,327.77	3,603.59	3,131.97	28.48	32.74	23.66	564.97	1,438.88	319.50	283.60	35.90	8.900	
3,800.00	3,408.07	3,703.24	3,207.68	29.71	34.13	23.97	589.09	1,499.01	327.67	290.23	37.44	8.752	
3,900.00	3,488.36	3,802.89	3,283.39	30.94	35.52	24.27	613.21	1,559.14	335.85	296.86	38.99	8.613	
4,000.00	3,568.65	3,902.54	3,359.11	32.17	36.92	24.55	637.33	1,619.28	344.04	303.49	40.55	8.483	
4,100.00	3,648.95	4,002.19	3,434.82	33.41	38.32	24.82	661.45	1,679.41	352.24	310.11	42.13	8.361	
4,200.00	3,729.24	4,101.84	3,510.53	34.64	39.71	25.07	685.57	1,739.55	360.45	316.74	43.71	8.247	
4,300.00	3,809.53	4,201.49	3,586.24	35.88	41.11	25.32	709.69	1,799.68	368.66	323.36	45.30	8.139	
4,400.00	3,889.82	4,301.14	3,661.95	37.12	42.51	25.55	733.80	1,859.82	376.88	329.98	46.90	8.037	
4,500.00	3,970.12	4,400.79	3,737.66	38.36	43.91	25.78	757.92	1,919.95	385.10	336.60	48.50	7.940	
4,600.00	4,050.41	4,500.44	3,813.37	39.60	45.31	25.99	782.04	1,980.09	393.33	343.22	50.11	7.849	
4,700.00	4,130.70	4,600.09	3,889.09	40.84	46.72	26.20	806.16	2,040.22	401.57	349.84	51.73	7.763	
4,800.00	4,210.99	4,700.26	3,964.80	42.08	48.13	26.39	830.28	2,100.36	409.81	356.46	53.35	7.681	
4,900.00	4,291.29	4,800.61	4,040.51	43.32	49.54	26.58	854.40	2,160.49	418.06	363.07	54.99	7.603	
5,000.00	4,371.58	4,900.96	4,116.22	44.57	50.95	26.77	878.52	2,220.63	426.31	369.68	56.63	7.529	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,451.87	4,998.69	4,191.93	45.81	52.33	26.94	902.64	2,280.76	434.56	376.31	58.25	7.460		
5,200.00	4,532.16	5,101.66	4,267.64	47.05	53.78	27.11	926.75	2,340.90	442.82	382.90	59.92	7.391		
5,300.00	4,612.46	5,197.99	4,343.36	48.30	55.14	27.27	950.87	2,401.03	451.08	389.54	61.54	7.330		
5,400.00	4,692.75	5,297.64	4,419.07	49.54	56.54	27.43	974.99	2,461.17	459.35	396.16	63.19	7.270		
5,500.00	4,773.04	5,397.29	4,494.78	50.79	57.95	27.58	999.11	2,521.30	467.61	402.77	64.84	7.212		
5,600.00	4,853.34	5,496.94	4,570.49	52.03	59.35	27.73	1,023.23	2,581.44	475.89	409.39	66.50	7.156		
5,700.00	4,933.63	5,603.41	4,646.20	53.28	60.85	27.87	1,047.35	2,641.57	484.16	415.95	68.21	7.098		
5,800.00	5,013.92	5,696.24	4,721.91	54.53	62.16	28.00	1,071.47	2,701.71	492.44	422.61	69.82	7.053		
5,900.00	5,094.21	5,804.11	4,797.62	55.77	63.69	28.14	1,095.59	2,761.84	500.72	429.16	71.56	6.998		
6,000.00	5,174.51	5,904.46	4,873.34	57.02	65.10	28.26	1,119.71	2,821.98	509.00	435.77	73.23	6.951		
6,100.00	5,254.80	6,004.81	4,949.05	58.27	66.52	28.39	1,143.82	2,882.11	517.29	442.38	74.91	6.905		
6,200.00	5,335.09	6,094.84	5,024.76	59.52	67.79	28.51	1,167.94	2,942.25	525.57	449.06	76.51	6.869		
6,300.00	5,415.38	6,194.49	5,100.47	60.76	69.20	28.62	1,192.06	3,002.38	533.86	455.68	78.19	6.828		
6,400.00	5,495.68	6,294.14	5,176.18	62.01	70.60	28.73	1,216.18	3,062.52	542.15	462.29	79.87	6.788		
6,500.00	5,575.97	6,406.21	5,251.89	63.26	72.19	28.84	1,240.30	3,122.65	550.45	468.80	81.65	6.742		
6,600.00	5,656.26	6,506.56	5,327.61	64.51	73.60	28.95	1,264.42	3,182.79	558.74	475.41	83.34	6.705		
6,700.00	5,736.55	6,606.91	5,403.32	65.76	75.02	29.05	1,288.54	3,242.92	567.04	482.01	85.03	6.669		
6,800.00	5,816.85	6,692.74	5,479.03	67.01	76.23	29.15	1,312.66	3,303.05	575.34	488.73	86.61	6.643		
6,900.00	5,897.14	6,792.39	5,554.74	68.26	77.64	29.25	1,336.77	3,363.19	583.64	495.34	88.30	6.610		
7,000.00	5,977.43	6,907.96	5,630.45	69.50	79.27	29.34	1,360.89	3,423.32	591.94	501.83	90.12	6.569		
7,100.00	6,057.72	7,008.31	5,706.16	70.75	80.69	29.43	1,385.01	3,483.46	600.25	508.43	91.82	6.538		
7,200.00	6,138.02	7,108.66	5,781.87	72.00	82.11	29.52	1,409.13	3,543.59	608.55	515.04	93.52	6.507		
7,300.00	6,218.31	7,191.00	5,857.59	73.25	83.27	29.61	1,433.25	3,603.73	616.86	521.79	95.07	6.488		
7,400.00	6,298.60	7,290.65	5,933.30	74.50	84.68	29.69	1,457.37	3,663.86	625.17	528.40	96.77	6.460		
7,500.00	6,378.90	7,390.30	6,009.01	75.75	86.09	29.77	1,481.49	3,724.00	633.48	535.01	98.47	6.433		
7,600.00	6,459.19	7,489.95	6,084.72	77.00	87.50	29.85	1,505.61	3,784.13	641.79	541.62	100.17	6.407		
7,700.00	6,539.48	7,589.60	6,160.43	78.25	88.91	29.93	1,529.72	3,844.27	650.10	548.23	101.87	6.381		
7,800.00	6,619.77	7,689.25	6,236.14	79.50	90.32	30.01	1,553.84	3,904.40	658.41	554.84	103.58	6.357		
7,900.00	6,700.07	7,788.90	6,311.85	80.75	91.73	30.08	1,577.96	3,964.54	666.73	561.45	105.28	6.333		
8,000.00	6,780.36	7,888.55	6,387.57	82.00	93.13	30.15	1,602.08	4,024.67	675.04	568.06	106.99	6.310		
8,100.00	6,860.65	7,988.20	6,463.28	83.25	94.54	30.23	1,626.20	4,084.81	683.36	574.67	108.69	6.287		
8,200.00	6,940.94	8,087.85	6,538.99	84.50	95.95	30.29	1,650.32	4,144.94	691.68	581.28	110.40	6.265		
8,300.00	7,021.24	8,187.50	6,614.70	85.76	97.36	30.36	1,674.44	4,205.08	699.99	587.89	112.11	6.244		
8,400.00	7,101.53	8,287.15	6,690.41	87.01	98.77	30.43	1,698.56	4,265.21	708.31	594.50	113.82	6.223		
8,500.00	7,181.82	8,386.80	6,766.12	88.26	100.18	30.49	1,722.67	4,325.35	716.63	601.11	115.53	6.203		
8,605.60	7,266.61	8,492.02	6,846.07	89.58	101.67	30.56	1,748.14	4,388.85	725.42	608.09	117.34	6.182		
8,650.00	7,302.60	8,536.26	6,879.68	90.13	102.29	24.97	1,758.85	4,415.54	728.85	611.02	117.83	6.185		
8,700.00	7,343.78	8,585.83	6,917.34	90.72	102.99	17.77	1,770.85	4,445.46	732.08	614.31	117.77	6.216		
8,750.00	7,385.32	8,634.77	6,954.53	91.28	103.69	9.85	1,782.69	4,474.99	734.73	617.68	117.04	6.277		
8,800.00	7,426.92	8,682.72	6,990.96	91.81	104.37	1.54	1,794.30	4,503.93	736.93	621.25	115.67	6.371		
8,850.00	7,468.27	8,729.31	7,026.35	92.29	105.02	-6.81	1,805.57	4,532.04	738.90	625.21	113.69	6.499		
8,900.00	7,509.04	8,774.18	7,060.44	92.72	105.66	-14.88	1,816.43	4,559.11	740.91	629.76	111.16	6.666		
8,950.00	7,548.93	8,816.99	7,092.97	93.10	106.26	-22.42	1,826.80	4,584.95	743.31	635.14	108.17	6.872		
9,000.00	7,587.63	8,857.41	7,123.69	93.43	106.84	-29.29	1,836.58	4,609.34	746.43	641.56	104.87	7.117		
9,050.00	7,624.85	8,895.15	7,152.36	93.71	107.37	-35.38	1,845.71	4,632.12	750.67	649.21	101.46	7.399		
9,100.00	7,660.30	8,929.91	7,178.76	93.93	107.86	-40.66	1,854.13	4,653.09	756.38	658.22	98.17	7.705		
9,150.00	7,693.72	8,961.42	7,202.71	94.10	108.31	-45.10	1,861.75	4,672.11	763.93	668.65	95.28	8.018		
9,200.00	7,724.85	8,989.45	7,224.01	94.23	108.70	-48.68	1,868.54	4,689.02	773.61	680.53	93.08	8.312		
9,250.00	7,753.45	9,013.79	7,242.49	94.30	109.05	-51.39	1,874.43	4,703.71	785.65	693.83	91.81	8.557		
9,300.00	7,779.31	9,034.24	7,258.03	94.34	109.34	-53.22	1,879.38	4,716.05	800.20	708.54	91.66	8.730		
9,350.00	7,802.23	9,050.66	7,270.51	94.33	109.57	-54.17	1,883.35	4,725.96	817.31	724.66	92.66	8.821		
9,400.00	7,822.03	9,062.91	7,279.82	94.28	109.74	-54.23	1,886.32	4,733.35	836.95	742.22	94.73	8.835		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	9,070.91	7,285.89	94.20	109.86	-53.40	1,888.25	4,738.18	858.98	761.28	97.70	8.792		
9,500.00	7,851.72	9,074.59	7,288.69	94.10	109.91	-51.69	1,889.15	4,740.40	883.17	781.84	101.33	8.716		
9,550.00	7,861.37	9,073.93	7,288.19	93.96	109.90	-49.16	1,888.99	4,740.00	909.22	803.86	105.36	8.629		
9,600.00	7,867.46	9,068.93	7,284.39	93.81	109.83	-45.87	1,887.77	4,736.99	936.79	827.20	109.59	8.548		
9,650.00	7,869.94	9,059.63	7,277.32	93.64	109.70	-41.92	1,885.52	4,731.37	965.47	851.65	113.82	8.482		
9,659.14	7,870.00	9,057.47	7,275.68	93.60	109.67	-41.14	1,885.00	4,730.07	970.80	856.22	114.58	8.473		
9,700.00	7,870.00	10,209.98	7,870.00	93.46	115.73	-90.06	1,275.27	5,199.43	989.68	892.17	97.51	10.150		
9,800.00	7,870.00	10,309.98	7,870.00	93.11	115.43	-90.06	1,175.27	5,199.10	989.68	893.21	96.48	10.258		
9,900.00	7,870.00	10,409.98	7,870.00	92.77	115.15	-90.06	1,075.27	5,198.76	989.69	894.12	95.57	10.356		
10,000.00	7,870.00	10,509.98	7,870.00	92.46	114.88	-90.06	975.27	5,198.43	989.69	894.91	94.77	10.443		
10,100.00	7,870.00	10,609.98	7,870.00	92.16	114.63	-90.06	875.27	5,198.09	989.69	895.57	94.12	10.515		
10,200.00	7,870.00	10,709.98	7,870.00	91.87	114.38	-90.06	775.27	5,197.76	989.69	896.10	93.59	10.575		
10,300.00	7,870.00	10,809.98	7,870.00	91.60	114.15	-90.06	675.27	5,197.42	989.69	896.50	93.19	10.620		
10,400.00	7,870.00	10,909.98	7,870.00	91.34	113.93	-90.06	575.28	5,197.08	989.69	896.77	92.92	10.651		
10,500.00	7,870.00	11,009.98	7,870.00	91.11	113.72	-90.06	475.28	5,196.75	989.70	896.91	92.79	10.666		
10,600.00	7,870.00	11,109.98	7,870.00	90.88	113.53	-90.06	375.28	5,196.41	989.70	896.91	92.79	10.666		
10,700.00	7,870.00	11,209.98	7,870.00	90.67	113.35	-90.06	275.28	5,196.08	989.70	896.78	92.92	10.651		
10,800.00	7,870.00	11,309.98	7,870.00	90.48	113.18	-90.06	175.28	5,195.74	989.70	896.51	93.19	10.620		
10,900.00	7,870.00	11,409.98	7,870.00	90.31	113.02	-90.06	75.28	5,195.41	989.70	896.11	93.60	10.574		
11,000.00	7,870.00	11,509.98	7,870.00	90.15	112.88	-90.06	-24.72	5,195.07	989.71	895.57	94.13	10.514		
11,100.00	7,870.00	11,609.98	7,870.00	90.00	112.74	-90.06	-124.72	5,194.74	989.71	894.91	94.79	10.441		
11,200.00	7,870.00	11,709.98	7,870.00	89.88	112.63	-90.06	-224.72	5,194.40	989.71	894.12	95.58	10.354		
11,300.00	7,870.00	11,809.98	7,870.00	89.77	112.52	-90.06	-324.72	5,194.07	989.71	893.22	96.49	10.257		
11,400.00	7,870.00	11,909.98	7,870.00	89.68	112.43	-90.06	-424.72	5,193.73	989.71	892.19	97.52	10.148		
11,500.00	7,870.00	12,009.98	7,870.00	89.60	112.35	-90.06	-524.72	5,193.39	989.71	891.04	98.68	10.030		
11,600.00	7,870.00	12,109.98	7,870.00	89.55	112.28	-90.06	-624.72	5,193.06	989.72	889.78	99.93	9.904		
11,700.00	7,870.00	12,209.98	7,870.00	89.52	112.23	-90.06	-724.72	5,192.72	989.72	888.41	101.31	9.770		
11,800.00	7,870.00	12,309.98	7,870.00	89.50	112.19	-90.06	-824.72	5,192.39	989.72	886.94	102.78	9.630		
11,900.00	7,870.00	12,409.98	7,870.00	89.51	112.17	-90.06	-924.72	5,192.05	989.72	885.37	104.35	9.485		
12,000.00	7,870.00	12,509.98	7,870.00	89.54	112.16	-90.06	-1,024.72	5,191.72	989.72	883.71	106.01	9.336		
12,100.00	7,870.00	12,609.98	7,870.00	89.59	112.17	-90.06	-1,124.72	5,191.38	989.72	881.96	107.76	9.184		
12,200.00	7,870.00	12,709.98	7,870.00	89.66	112.19	-90.06	-1,224.71	5,191.05	989.73	880.12	109.61	9.030		
12,300.00	7,870.00	12,809.98	7,870.00	89.77	112.23	-90.06	-1,324.71	5,190.71	989.73	878.20	111.53	8.874		
12,400.00	7,870.00	12,909.98	7,870.00	89.89	112.29	-90.06	-1,424.71	5,190.37	989.73	876.20	113.53	8.718		
12,500.00	7,870.00	13,009.98	7,870.00	90.05	112.36	-90.06	-1,524.71	5,190.04	989.73	874.13	115.60	8.561		
12,600.00	7,870.00	13,109.98	7,870.00	90.24	112.46	-90.06	-1,624.71	5,189.70	989.73	871.99	117.75	8.406		
12,700.00	7,870.00	13,209.98	7,870.00	90.46	112.57	-90.06	-1,724.71	5,189.37	989.74	869.78	119.96	8.251		
12,800.00	7,870.00	13,309.98	7,870.00	90.71	112.70	-90.06	-1,824.71	5,189.03	989.74	867.51	122.22	8.098		
12,900.00	7,870.00	13,409.98	7,870.00	90.99	112.85	-90.06	-1,924.71	5,188.70	989.74	865.18	124.55	7.946		
13,000.00	7,870.00	13,509.98	7,870.00	91.32	113.02	-90.06	-2,024.71	5,188.36	989.74	862.80	126.94	7.797		
13,100.00	7,870.00	13,609.98	7,870.00	91.68	113.21	-90.06	-2,124.71	5,188.03	989.74	860.36	129.38	7.650		
13,200.00	7,870.00	13,709.98	7,870.00	92.08	113.42	-90.06	-2,224.71	5,187.69	989.74	857.88	131.87	7.506		
13,300.00	7,870.00	13,809.98	7,870.00	92.52	113.66	-90.06	-2,324.71	5,187.35	989.75	855.35	134.40	7.364		
13,400.00	7,870.00	13,909.98	7,870.00	93.00	113.92	-90.06	-2,424.71	5,187.02	989.75	852.77	136.98	7.225		
13,500.00	7,870.00	14,009.98	7,870.00	93.53	114.21	-90.06	-2,524.71	5,186.68	989.75	850.15	139.60	7.090		
13,600.00	7,870.00	14,109.98	7,870.00	94.10	114.52	-90.06	-2,624.71	5,186.35	989.75	847.49	142.26	6.957		
13,700.00	7,870.00	14,209.98	7,870.00	94.72	114.86	-90.06	-2,724.71	5,186.01	989.75	844.79	144.96	6.828		
13,800.00	7,870.00	14,309.98	7,870.00	95.38	115.22	-90.06	-2,824.71	5,185.68	989.76	842.06	147.69	6.701		
13,900.00	7,870.00	14,409.98	7,870.00	96.09	115.61	-90.06	-2,924.71	5,185.34	989.76	839.30	150.46	6.578		
14,000.00	7,870.00	14,509.98	7,870.00	96.84	116.04	-90.06	-3,024.70	5,185.01	989.76	836.50	153.26	6.458		
14,100.00	7,870.00	14,609.98	7,870.00	97.64	116.49	-90.06	-3,124.70	5,184.67	989.76	833.68	156.09	6.341		
14,200.00	7,870.00	14,709.98	7,870.00	98.48	116.97	-90.06	-3,224.70	5,184.33	989.76	830.82	158.94	6.227		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,870.00	14,809.98	7,870.00	99.37	117.49	-90.06	-3,324.70	5,184.00	989.76	827.94	161.82	6.116		
14,400.00	7,870.00	14,909.98	7,870.00	100.30	118.04	-90.06	-3,424.70	5,183.66	989.77	825.03	164.73	6.008		
14,500.00	7,870.00	15,009.98	7,870.00	101.26	118.62	-90.06	-3,524.70	5,183.33	989.77	822.10	167.66	5.903		
14,600.00	7,870.00	15,109.98	7,870.00	102.27	119.23	-90.06	-3,624.70	5,182.99	989.77	819.15	170.62	5.801		
14,700.00	7,870.00	15,209.98	7,870.00	103.31	119.87	-90.06	-3,724.70	5,182.66	989.77	816.18	173.60	5.702		
14,800.00	7,870.00	15,309.98	7,870.00	104.38	120.55	-90.06	-3,824.70	5,182.32	989.77	813.18	176.59	5.605		
14,900.00	7,870.00	15,409.98	7,870.00	105.49	121.26	-90.06	-3,924.70	5,181.99	989.78	810.16	179.61	5.511		
15,000.00	7,870.00	15,509.98	7,870.00	106.63	122.01	-90.06	-4,024.70	5,181.65	989.78	807.13	182.65	5.419		
15,100.00	7,870.00	15,609.98	7,870.00	107.80	122.79	-90.06	-4,124.70	5,181.31	989.78	804.08	185.70	5.330		
15,200.00	7,870.00	15,709.98	7,870.00	109.00	123.60	-90.06	-4,224.70	5,180.98	989.78	801.01	188.77	5.243		
15,300.00	7,870.00	15,809.98	7,870.00	110.22	124.45	-90.06	-4,324.70	5,180.64	989.78	797.93	191.85	5.159		
15,400.00	7,870.00	15,909.98	7,870.00	111.47	125.32	-90.06	-4,424.70	5,180.31	989.78	794.83	194.96	5.077		
15,500.00	7,870.00	16,009.98	7,870.00	112.74	126.23	-90.06	-4,524.70	5,179.97	989.79	791.72	198.07	4.997		
15,600.00	7,870.00	16,109.98	7,870.00	114.03	127.17	-90.06	-4,624.70	5,179.64	989.79	788.59	201.20	4.919		
15,700.00	7,870.00	16,209.98	7,870.00	115.34	128.14	-90.06	-4,724.70	5,179.30	989.79	785.45	204.34	4.844		
15,800.00	7,870.00	16,309.98	7,870.00	116.68	129.14	-90.06	-4,824.69	5,178.97	989.79	782.29	207.50	4.770		
15,900.00	7,870.00	16,409.98	7,870.00	118.02	130.16	-90.06	-4,924.69	5,178.63	989.79	779.13	210.66	4.698		
16,000.00	7,870.00	16,509.98	7,870.00	119.39	131.22	-90.06	-5,024.69	5,178.30	989.80	775.95	213.84	4.629		
16,100.00	7,870.00	16,609.98	7,870.00	120.77	132.30	-90.06	-5,124.69	5,177.96	989.80	772.76	217.03	4.561		
16,200.00	7,870.00	16,709.98	7,870.00	122.17	133.40	-90.06	-5,224.69	5,177.62	989.80	769.57	220.23	4.494		
16,300.00	7,870.00	16,809.98	7,870.00	123.58	134.53	-90.06	-5,324.69	5,177.29	989.80	766.36	223.44	4.430		
16,400.00	7,870.00	16,909.98	7,870.00	125.00	135.69	-90.06	-5,424.69	5,176.95	989.80	763.14	226.66	4.367		
16,500.00	7,870.00	17,009.98	7,870.00	126.43	136.86	-90.06	-5,524.69	5,176.62	989.80	759.91	229.89	4.305		
16,600.00	7,870.00	17,109.98	7,870.00	127.88	138.06	-90.06	-5,624.69	5,176.28	989.81	756.67	233.13	4.246		
16,700.00	7,870.00	17,209.98	7,870.00	129.34	139.28	-90.06	-5,724.69	5,175.95	989.81	753.43	236.38	4.187		
16,800.00	7,870.00	17,309.98	7,870.00	130.81	140.52	-90.06	-5,824.69	5,175.61	989.81	750.18	239.63	4.131		
16,900.00	7,870.00	17,409.98	7,870.00	132.28	141.78	-90.06	-5,924.69	5,175.28	989.81	746.92	242.89	4.075		
17,000.00	7,870.00	17,509.98	7,870.00	133.77	143.05	-90.06	-6,024.69	5,174.94	989.81	743.65	246.16	4.021		
17,100.00	7,870.00	17,609.98	7,870.00	135.27	144.34	-90.06	-6,124.69	5,174.60	989.81	740.37	249.44	3.968		
17,200.00	7,870.00	17,709.98	7,870.00	136.77	145.65	-90.06	-6,224.69	5,174.27	989.82	737.09	252.73	3.917		
17,300.00	7,870.00	17,809.98	7,870.00	138.28	146.98	-90.06	-6,324.69	5,173.93	989.82	733.80	256.02	3.866		
17,400.00	7,870.00	17,909.98	7,870.00	139.80	148.32	-90.06	-6,424.69	5,173.60	989.82	730.51	259.31	3.817		
17,500.00	7,870.00	18,009.98	7,870.00	141.33	149.67	-90.06	-6,524.69	5,173.26	989.82	727.20	262.62	3.769		
17,600.00	7,870.00	18,109.98	7,870.00	142.86	151.04	-90.06	-6,624.68	5,172.93	989.82	723.90	265.93	3.722		
17,700.00	7,870.00	18,209.98	7,870.00	144.40	152.42	-90.06	-6,724.68	5,172.59	989.83	720.58	269.24	3.676		
17,800.00	7,870.00	18,309.98	7,870.00	145.95	153.81	-90.06	-6,824.68	5,172.26	989.83	717.26	272.56	3.632		
17,900.00	7,870.00	18,409.98	7,870.00	147.50	155.21	-90.06	-6,924.68	5,171.92	989.83	713.94	275.89	3.588		
18,000.00	7,870.00	18,509.98	7,870.00	149.06	156.63	-90.06	-7,024.68	5,171.58	989.83	710.61	279.22	3.545		
18,100.00	7,870.00	18,609.98	7,870.00	150.63	158.06	-90.06	-7,124.68	5,171.25	989.83	707.28	282.56	3.503		
18,200.00	7,870.00	18,709.98	7,870.00	152.20	159.49	-90.06	-7,224.68	5,170.91	989.83	703.94	285.90	3.462		
18,300.00	7,870.00	18,809.98	7,870.00	153.77	160.94	-90.06	-7,324.68	5,170.58	989.84	700.59	289.24	3.422		
18,400.00	7,870.00	18,909.98	7,870.00	155.35	162.39	-90.06	-7,424.68	5,170.24	989.84	697.25	292.59	3.383		
18,500.00	7,870.00	19,009.98	7,870.00	156.93	163.86	-90.06	-7,524.68	5,169.91	989.84	693.89	295.95	3.345		
18,600.00	7,870.00	19,109.98	7,870.00	158.52	165.33	-90.06	-7,624.68	5,169.57	989.84	690.54	299.30	3.307		
18,700.00	7,870.00	19,209.98	7,870.00	160.11	166.81	-90.06	-7,724.68	5,169.24	989.84	687.18	302.67	3.270		
18,800.00	7,870.00	19,309.98	7,870.00	161.71	168.30	-90.06	-7,824.68	5,168.90	989.85	683.81	306.03	3.234		
18,900.00	7,870.00	19,409.98	7,870.00	163.31	169.80	-90.06	-7,924.68	5,168.56	989.85	680.44	309.40	3.199		
19,000.00	7,870.00	19,509.98	7,870.00	164.91	171.30	-90.06	-8,024.68	5,168.23	989.85	677.07	312.78	3.165		
19,100.00	7,870.00	19,609.98	7,870.00	166.52	172.81	-90.06	-8,124.68	5,167.89	989.85	673.70	316.15	3.131		
19,200.00	7,870.00	19,709.98	7,870.00	168.13	174.33	-90.06	-8,224.68	5,167.56	989.85	670.32	319.53	3.098		
19,300.00	7,870.00	19,809.98	7,870.00	169.75	175.85	-90.06	-8,324.68	5,167.22	989.85	666.94	322.92	3.065		
19,383.51	7,870.00	19,893.49	7,870.00	171.10	177.13	-90.06	-8,408.18	5,166.94	989.86	664.11	325.74	3.039 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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	-1.00	0.00	0.00	90.00	0.00	40.04	40.04					
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	40.04	40.04	39.77	0.27	146.970		
200.00	200.00	199.00	199.00	0.49	0.49	90.00	0.00	40.04	40.04	39.06	0.98	40.765 CC, ES		
300.00	300.00	297.68	297.67	0.85	0.84	89.19	0.59	41.60	41.62	39.93	1.69	24.572		
400.00	400.00	396.12	395.97	1.21	1.20	87.07	2.37	46.32	46.48	44.07	2.41	19.320		
500.00	500.00	494.10	493.59	1.57	1.56	84.37	5.33	54.15	54.68	51.56	3.12	17.546		
600.00	600.00	591.40	590.18	1.93	1.94	81.74	9.44	65.01	66.28	62.46	3.82	17.336		
700.00	699.98	688.06	685.70	2.28	2.33	15.90	14.67	78.83	79.62	75.11	4.52	17.634		
800.00	799.84	784.29	780.25	2.64	2.76	14.66	21.00	95.58	92.98	87.78	5.20	17.889		
900.00	899.45	880.10	873.73	3.00	3.21	13.91	28.41	115.20	106.29	100.41	5.88	18.074		
1,000.00	998.70	975.50	966.06	3.37	3.71	13.48	36.89	137.62	119.52	112.96	6.57	18.201		
1,100.00	1,097.47	1,070.49	1,057.15	3.76	4.23	13.26	46.41	162.80	132.66	125.41	7.24	18.310		
1,200.00	1,195.62	1,165.09	1,146.93	4.18	4.81	13.21	56.94	190.66	145.67	137.73	7.94	18.342		
1,300.00	1,293.06	1,259.30	1,235.32	4.63	5.42	13.28	68.47	221.15	158.55	149.91	8.64	18.350		
1,400.00	1,389.64	1,353.13	1,322.25	5.11	6.09	13.44	80.97	254.21	171.29	161.94	9.35	18.327		
1,500.00	1,485.27	1,446.60	1,407.63	5.63	6.80	13.67	94.41	289.77	183.87	173.81	10.06	18.272		
1,600.00	1,579.82	1,539.72	1,491.42	6.20	7.57	13.96	108.77	327.76	196.29	185.49	10.79	18.187		
1,700.00	1,673.17	1,632.48	1,573.53	6.83	8.39	14.29	124.03	368.12	208.53	196.99	11.54	18.073		
1,800.00	1,765.21	1,724.91	1,653.91	7.51	9.26	14.67	140.17	410.79	220.59	208.29	12.30	17.929		
1,900.00	1,855.84	1,817.01	1,732.51	8.24	10.19	15.07	157.14	455.70	232.47	219.38	13.09	17.757		
2,000.00	1,944.94	1,908.80	1,809.26	9.05	11.17	15.50	174.94	502.78	244.15	230.25	13.91	17.556		
2,100.00	2,032.39	2,000.28	1,884.11	9.91	12.21	15.96	193.54	551.97	255.64	240.88	14.75	17.328		
2,200.00	2,118.11	2,091.46	1,957.00	10.85	13.31	16.44	212.91	603.20	266.91	251.28	15.64	17.070		
2,300.00	2,201.97	2,182.36	2,027.90	11.85	14.47	16.93	233.02	656.40	277.98	261.42	16.56	16.785		
2,400.00	2,283.88	2,272.98	2,096.76	12.93	15.68	17.45	253.86	711.51	288.83	271.30	17.53	16.474		
2,429.47	2,307.63	2,299.64	2,116.65	13.26	16.04	17.60	260.13	728.11	291.99	274.16	17.83	16.380		
2,500.00	2,364.26	2,363.26	2,163.46	14.06	16.95	17.97	275.37	768.41	300.28	281.74	18.54	16.193		
2,600.00	2,444.56	2,459.09	2,232.63	15.22	18.34	18.41	298.82	830.43	314.00	294.27	19.73	15.913		
2,700.00	2,524.85	2,558.09	2,303.98	16.39	19.80	18.82	323.09	894.63	327.91	306.88	21.03	15.589		
2,800.00	2,605.14	2,657.09	2,375.33	17.57	21.27	19.20	347.36	958.83	341.84	319.48	22.36	15.288		
2,900.00	2,685.43	2,756.09	2,446.68	18.76	22.75	19.54	371.63	1,023.03	355.79	332.08	23.71	15.008		
3,000.00	2,765.73	2,855.09	2,518.02	19.96	24.23	19.86	395.90	1,087.23	369.74	344.67	25.07	14.748		
3,100.00	2,846.02	2,954.09	2,589.37	21.16	25.72	20.16	420.17	1,151.43	383.71	357.26	26.45	14.505		
3,200.00	2,926.31	3,053.09	2,660.72	22.37	27.22	20.43	444.45	1,215.63	397.68	369.84	27.85	14.280		
3,300.00	3,006.60	3,152.09	2,732.07	23.59	28.71	20.69	468.72	1,279.83	411.67	382.41	29.26	14.071		
3,400.00	3,086.90	3,251.09	2,803.41	24.81	30.22	20.93	492.99	1,344.03	425.66	394.98	30.68	13.875		
3,500.00	3,167.19	3,350.10	2,874.76	26.03	31.72	21.15	517.26	1,408.23	439.66	407.55	32.11	13.693		
3,600.00	3,247.48	3,449.10	2,946.11	27.25	33.22	21.37	541.53	1,472.43	453.66	420.11	33.55	13.523		
3,700.00	3,327.77	3,548.10	3,017.46	28.48	34.73	21.56	565.80	1,536.63	467.67	432.68	35.00	13.364		
3,800.00	3,408.07	3,647.10	3,088.81	29.71	36.24	21.75	590.07	1,600.83	481.69	445.23	36.45	13.215		
3,900.00	3,488.36	3,746.10	3,160.15	30.94	37.75	21.93	614.35	1,665.03	495.71	457.79	37.91	13.074		
4,000.00	3,568.65	3,845.10	3,231.50	32.17	39.26	22.09	638.62	1,729.23	509.73	470.35	39.38	12.943		
4,100.00	3,648.95	3,944.10	3,302.85	33.41	40.78	22.25	662.89	1,793.43	523.76	482.90	40.86	12.819		
4,200.00	3,729.24	4,043.10	3,374.20	34.64	42.29	22.40	687.16	1,857.63	537.79	495.45	42.34	12.702		
4,300.00	3,809.53	4,142.11	3,445.54	35.88	43.81	22.54	711.43	1,921.83	551.82	508.00	43.82	12.592		
4,400.00	3,889.82	4,241.11	3,516.89	37.12	45.32	22.68	735.70	1,986.03	565.86	520.55	45.31	12.488		
4,500.00	3,970.12	4,340.11	3,588.24	38.36	46.84	22.80	759.98	2,050.23	579.90	533.10	46.81	12.390		
4,600.00	4,050.41	4,439.11	3,659.59	39.60	48.36	22.93	784.25	2,114.43	593.95	545.65	48.30	12.296		
4,700.00	4,130.70	4,538.11	3,730.93	40.84	49.88	23.04	808.52	2,178.63	607.99	558.19	49.80	12.208		
4,800.00	4,210.99	4,637.11	3,802.28	42.08	51.40	23.15	832.79	2,242.83	622.04	570.74	51.31	12.124		
4,900.00	4,291.29	4,736.11	3,873.63	43.32	52.92	23.26	857.06	2,307.03	636.09	583.28	52.82	12.044		
5,000.00	4,371.58	4,835.11	3,944.98	44.57	54.44	23.36	881.33	2,371.23	650.15	595.82	54.33	11.968		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,934.11	4,016.32	45.81	55.96	23.46	905.60	2,435.43	664.20	608.36	55.84	11.895		
5,200.00	4,532.16	5,033.12	4,087.67	47.05	57.48	23.55	929.88	2,499.63	678.26	620.91	57.35	11.826		
5,300.00	4,612.46	5,132.12	4,159.02	48.30	59.00	23.64	954.15	2,563.83	692.32	633.45	58.87	11.760		
5,400.00	4,692.75	5,231.12	4,230.37	49.54	60.52	23.73	978.42	2,628.03	706.38	645.99	60.39	11.697		
5,500.00	4,773.04	5,330.12	4,301.72	50.79	62.05	23.81	1,002.69	2,692.23	720.44	658.53	61.91	11.637		
5,600.00	4,853.34	5,429.12	4,373.06	52.03	63.57	23.89	1,026.96	2,756.43	734.50	671.07	63.44	11.579		
5,700.00	4,933.63	5,528.12	4,444.41	53.28	65.09	23.97	1,051.23	2,820.63	748.57	683.61	64.96	11.523		
5,800.00	5,013.92	5,627.12	4,515.76	54.53	66.62	24.04	1,075.51	2,884.83	762.63	696.14	66.49	11.470		
5,900.00	5,094.21	5,726.12	4,587.11	55.77	68.14	24.11	1,099.78	2,949.03	776.70	708.68	68.02	11.419		
6,000.00	5,174.51	5,825.13	4,658.45	57.02	69.66	24.18	1,124.05	3,013.23	790.77	721.22	69.55	11.370		
6,100.00	5,254.80	5,924.13	4,729.80	58.27	71.19	24.25	1,148.32	3,077.43	804.84	733.76	71.08	11.323		
6,200.00	5,335.09	6,023.13	4,801.15	59.52	72.71	24.31	1,172.59	3,141.63	818.91	746.29	72.61	11.278		
6,300.00	5,415.38	6,122.13	4,872.50	60.76	74.23	24.37	1,196.86	3,205.83	832.98	758.83	74.15	11.234		
6,400.00	5,495.68	6,221.13	4,943.84	62.01	75.76	24.43	1,221.13	3,270.03	847.05	771.37	75.68	11.192		
6,500.00	5,575.97	6,320.13	5,015.19	63.26	77.28	24.49	1,245.41	3,334.23	861.12	783.90	77.22	11.152		
6,600.00	5,656.26	6,419.13	5,086.54	64.51	78.81	24.54	1,269.68	3,398.43	875.20	796.44	78.76	11.113		
6,700.00	5,736.55	6,518.13	5,157.89	65.76	80.33	24.60	1,293.95	3,462.63	889.27	808.97	80.30	11.075		
6,800.00	5,816.85	6,617.13	5,229.23	67.01	81.86	24.65	1,318.22	3,526.83	903.34	821.51	81.84	11.039		
6,900.00	5,897.14	6,716.14	5,300.58	68.26	83.38	24.70	1,342.49	3,591.03	917.42	834.04	83.38	11.003		
7,000.00	5,977.43	6,815.14	5,371.93	69.50	84.91	24.75	1,366.76	3,655.23	931.50	846.58	84.92	10.969		
7,100.00	6,057.72	6,914.14	5,443.28	70.75	86.44	24.80	1,391.04	3,719.43	945.57	859.11	86.46	10.937		
7,200.00	6,138.02	7,013.14	5,514.63	72.00	87.96	24.84	1,415.31	3,783.63	959.65	871.65	88.00	10.905		
7,300.00	6,218.31	7,112.14	5,585.97	73.25	89.49	24.89	1,439.58	3,847.83	973.73	884.18	89.55	10.874		
7,400.00	6,298.60	7,211.14	5,657.32	74.50	91.01	24.93	1,463.85	3,912.03	987.81	896.72	91.09	10.844		
7,500.00	6,378.90	7,310.14	5,728.67	75.75	92.54	24.98	1,488.12	3,976.23	1,001.89	909.25	92.64	10.815		
7,600.00	6,459.19	7,409.14	5,800.02	77.00	94.06	25.02	1,512.39	4,040.43	1,015.97	921.78	94.18	10.787		
7,700.00	6,539.48	7,508.15	5,871.36	78.25	95.59	25.06	1,536.66	4,104.63	1,030.05	934.32	95.73	10.760		
7,800.00	6,619.77	7,607.15	5,942.71	79.50	97.12	25.10	1,560.94	4,168.83	1,044.13	946.85	97.28	10.733		
7,900.00	6,700.07	7,706.15	6,014.06	80.75	98.64	25.13	1,585.21	4,233.03	1,058.21	959.38	98.83	10.708		
8,000.00	6,780.36	7,805.15	6,085.41	82.00	100.17	25.17	1,609.48	4,297.23	1,072.29	971.92	100.38	10.683		
8,100.00	6,860.65	7,904.15	6,156.75	83.25	101.70	25.21	1,633.75	4,361.43	1,086.38	984.45	101.93	10.659		
8,200.00	6,940.94	8,003.15	6,228.10	84.50	103.22	25.24	1,658.02	4,425.63	1,100.46	996.98	103.48	10.635		
8,300.00	7,021.24	8,102.15	6,299.45	85.76	104.75	25.28	1,682.29	4,489.83	1,114.54	1,009.52	105.03	10.612		
8,400.00	7,101.53	8,201.15	6,370.80	87.01	106.28	25.31	1,706.57	4,554.03	1,128.63	1,022.05	106.58	10.590		
8,500.00	7,181.82	8,300.16	6,442.15	88.26	107.80	25.34	1,730.84	4,618.23	1,142.71	1,034.58	108.13	10.568		
8,605.60	7,266.61	8,404.70	6,517.49	89.58	109.42	25.38	1,756.47	4,686.03	1,157.58	1,047.82	109.77	10.546		
8,650.00	7,302.60	8,448.64	6,549.15	90.13	110.09	20.11	1,767.24	4,714.52	1,163.72	1,053.43	110.29	10.552		
8,700.00	7,343.78	8,502.15	6,584.62	90.72	110.92	13.41	1,779.31	4,746.44	1,170.35	1,059.85	110.50	10.591		
8,750.00	7,385.32	8,546.43	6,619.63	91.28	111.60	6.13	1,791.21	4,777.93	1,176.68	1,066.46	110.23	10.675		
8,800.00	7,426.92	8,606.01	6,653.90	91.81	112.52	-1.40	1,802.87	4,808.78	1,182.79	1,073.12	109.67	10.785		
8,850.00	7,468.27	8,640.18	6,687.19	92.29	113.05	-8.87	1,814.20	4,838.73	1,188.76	1,080.21	108.55	10.952		
8,900.00	7,509.04	8,684.64	6,719.23	92.72	113.73	-15.96	1,825.10	4,867.56	1,194.73	1,087.56	107.17	11.148		
8,950.00	7,548.93	8,727.04	6,749.79	93.10	114.39	-22.49	1,835.49	4,895.06	1,200.88	1,095.36	105.52	11.381		
9,000.00	7,587.63	8,767.05	6,778.62	93.43	115.00	-28.32	1,845.30	4,921.00	1,207.38	1,103.73	103.64	11.649		
9,050.00	7,624.85	8,804.37	6,805.52	93.71	115.58	-33.41	1,854.45	4,945.20	1,214.42	1,112.78	101.64	11.948		
9,100.00	7,660.30	8,838.72	6,830.27	93.93	116.11	-37.75	1,862.87	4,967.48	1,222.21	1,122.60	99.62	12.269		
9,150.00	7,693.72	8,869.83	6,852.69	94.10	116.59	-41.36	1,870.50	4,987.65	1,230.94	1,133.26	97.68	12.601		
9,200.00	7,724.85	8,902.54	6,872.61	94.23	117.09	-44.25	1,877.28	5,005.57	1,240.76	1,144.78	95.98	12.927		
9,250.00	7,753.45	8,921.42	6,889.87	94.30	117.38	-46.46	1,883.15	5,021.11	1,251.82	1,157.27	94.54	13.241		
9,300.00	7,779.31	8,941.50	6,904.35	94.34	117.69	-48.00	1,888.07	5,034.13	1,264.21	1,170.65	93.56	13.513		
9,350.00	7,802.23	8,957.57	6,915.93	94.33	117.94	-48.89	1,892.01	5,044.55	1,277.99	1,184.91	93.07	13.731		
9,400.00	7,822.03	8,969.50	6,924.53	94.28	118.13	-49.14	1,894.94	5,052.29	1,293.16	1,200.02	93.14	13.885		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,977.20	6,930.07	94.20	118.25	-48.78	1,896.82	5,057.28	1,309.67	1,215.92	93.75	13.970		
9,500.00	7,851.72	8,980.61	6,932.53	94.10	118.30	-47.84	1,897.66	5,059.49	1,327.43	1,232.55	94.88	13.990		
9,550.00	7,861.37	8,979.70	6,931.87	93.96	118.28	-46.34	1,897.44	5,058.90	1,346.29	1,249.81	96.48	13.954		
9,600.00	7,867.46	8,974.48	6,928.11	93.81	118.20	-44.33	1,896.16	5,055.52	1,366.04	1,267.59	98.45	13.875		
9,650.00	7,869.94	8,964.99	6,921.27	93.64	118.06	-41.87	1,893.83	5,049.36	1,386.46	1,285.76	100.71	13.767		
9,659.14	7,870.00	8,962.80	6,919.70	93.60	118.02	-41.37	1,893.29	5,047.94	1,390.25	1,289.10	101.14	13.745		
9,700.00	7,870.00	10,118.11	7,480.00	93.46	125.02	-73.81	1,274.08	5,549.39	1,394.97	1,288.12	106.85	13.055		
9,800.00	7,870.00	10,218.11	7,480.00	93.11	124.75	-73.81	1,174.08	5,549.05	1,394.97	1,288.70	106.27	13.126		
9,900.00	7,870.00	10,318.11	7,480.00	92.77	124.48	-73.81	1,074.08	5,548.71	1,394.97	1,289.17	105.80	13.185		
10,000.00	7,870.00	10,418.11	7,480.00	92.46	124.22	-73.81	974.08	5,548.38	1,394.97	1,289.53	105.44	13.230		
10,100.00	7,870.00	10,518.11	7,480.00	92.16	123.98	-73.81	874.08	5,548.04	1,394.98	1,289.78	105.19	13.261		
10,200.00	7,870.00	10,618.11	7,480.00	91.87	123.75	-73.81	774.08	5,547.70	1,394.98	1,289.92	105.06	13.278		
10,300.00	7,870.00	10,718.11	7,480.00	91.60	123.52	-73.81	674.08	5,547.37	1,394.98	1,289.95	105.03	13.282		
10,400.00	7,870.00	10,818.11	7,480.00	91.34	123.31	-73.81	574.08	5,547.03	1,394.98	1,289.86	105.12	13.271		
10,500.00	7,870.00	10,918.11	7,480.00	91.11	123.11	-73.81	474.09	5,546.69	1,394.98	1,289.67	105.31	13.246		
10,600.00	7,870.00	11,018.11	7,480.00	90.88	122.92	-73.81	374.09	5,546.36	1,394.98	1,289.36	105.62	13.208		
10,700.00	7,870.00	11,118.11	7,480.00	90.67	122.75	-73.81	274.09	5,546.02	1,394.98	1,288.94	106.04	13.155		
10,800.00	7,870.00	11,218.11	7,480.00	90.48	122.58	-73.81	174.09	5,545.68	1,394.98	1,288.42	106.56	13.090		
10,900.00	7,870.00	11,318.11	7,480.00	90.31	122.43	-73.81	74.09	5,545.35	1,394.98	1,287.78	107.20	13.013		
11,000.00	7,870.00	11,418.11	7,480.00	90.15	122.28	-73.81	-25.91	5,545.01	1,394.98	1,287.04	107.94	12.924		
11,100.00	7,870.00	11,518.11	7,480.00	90.00	122.15	-73.81	-125.91	5,544.67	1,394.98	1,286.20	108.78	12.824		
11,200.00	7,870.00	11,618.11	7,480.00	89.88	122.03	-73.81	-225.91	5,544.34	1,394.98	1,285.26	109.72	12.714		
11,300.00	7,870.00	11,718.11	7,480.00	89.77	121.92	-73.81	-325.91	5,544.00	1,394.98	1,284.22	110.76	12.595		
11,400.00	7,870.00	11,818.11	7,480.00	89.68	121.82	-73.81	-425.91	5,543.66	1,394.98	1,283.09	111.90	12.467		
11,500.00	7,870.00	11,918.11	7,480.00	89.60	121.74	-73.81	-525.91	5,543.33	1,394.98	1,281.86	113.12	12.332		
11,600.00	7,870.00	12,018.11	7,480.00	89.55	121.66	-73.81	-625.91	5,542.99	1,394.98	1,280.54	114.44	12.190		
11,700.00	7,870.00	12,118.11	7,480.00	89.52	121.60	-73.81	-725.91	5,542.65	1,394.98	1,279.14	115.84	12.042		
11,800.00	7,870.00	12,218.11	7,480.00	89.50	121.55	-73.81	-825.91	5,542.32	1,394.99	1,277.65	117.33	11.889		
11,900.00	7,870.00	12,318.11	7,480.00	89.51	121.51	-73.81	-925.91	5,541.98	1,394.99	1,276.09	118.90	11.733		
12,000.00	7,870.00	12,418.11	7,480.00	89.54	121.49	-73.81	-1,025.91	5,541.64	1,394.99	1,274.45	120.54	11.573		
12,100.00	7,870.00	12,518.11	7,480.00	89.59	121.48	-73.81	-1,125.91	5,541.31	1,394.99	1,272.73	122.26	11.410		
12,200.00	7,870.00	12,618.11	7,480.00	89.66	121.48	-73.81	-1,225.91	5,540.97	1,394.99	1,270.94	124.05	11.246		
12,300.00	7,870.00	12,718.11	7,480.00	89.77	121.50	-73.81	-1,325.90	5,540.63	1,394.99	1,269.09	125.90	11.080		
12,400.00	7,870.00	12,818.11	7,480.00	89.89	121.53	-73.81	-1,425.90	5,540.30	1,394.99	1,267.17	127.82	10.914		
12,500.00	7,870.00	12,918.11	7,480.00	90.05	121.58	-73.81	-1,525.90	5,539.96	1,394.99	1,265.19	129.80	10.747		
12,600.00	7,870.00	13,018.11	7,480.00	90.24	121.64	-73.81	-1,625.90	5,539.62	1,394.99	1,263.14	131.85	10.581		
12,700.00	7,870.00	13,118.11	7,480.00	90.46	121.72	-73.81	-1,725.90	5,539.29	1,394.99	1,261.05	133.94	10.415		
12,800.00	7,870.00	13,218.11	7,480.00	90.71	121.81	-73.81	-1,825.90	5,538.95	1,394.99	1,258.90	136.09	10.250		
12,900.00	7,870.00	13,318.11	7,480.00	90.99	121.92	-73.81	-1,925.90	5,538.61	1,394.99	1,256.69	138.30	10.087		
13,000.00	7,870.00	13,418.11	7,480.00	91.32	122.04	-73.81	-2,025.90	5,538.28	1,394.99	1,254.44	140.55	9.925		
13,100.00	7,870.00	13,518.11	7,480.00	91.68	122.19	-73.81	-2,125.90	5,537.94	1,394.99	1,252.15	142.85	9.766		
13,200.00	7,870.00	13,618.11	7,480.00	92.08	122.35	-73.81	-2,225.90	5,537.60	1,394.99	1,249.80	145.19	9.608		
13,300.00	7,870.00	13,718.11	7,480.00	92.52	122.53	-73.81	-2,325.90	5,537.27	1,394.99	1,247.42	147.57	9.453		
13,400.00	7,870.00	13,818.11	7,480.00	93.00	122.73	-73.81	-2,425.90	5,536.93	1,394.99	1,245.00	150.00	9.300		
13,500.00	7,870.00	13,918.11	7,480.00	93.53	122.95	-73.81	-2,525.90	5,536.59	1,394.99	1,242.53	152.46	9.150		
13,600.00	7,870.00	14,018.11	7,480.00	94.10	123.19	-73.81	-2,625.90	5,536.26	1,395.00	1,240.04	154.96	9.002		
13,700.00	7,870.00	14,118.11	7,480.00	94.72	123.45	-73.81	-2,725.90	5,535.92	1,395.00	1,237.50	157.49	8.858		
13,800.00	7,870.00	14,218.11	7,480.00	95.38	123.73	-73.81	-2,825.90	5,535.58	1,395.00	1,234.94	160.06	8.715		
13,900.00	7,870.00	14,318.11	7,480.00	96.09	124.04	-73.81	-2,925.90	5,535.24	1,395.00	1,232.34	162.66	8.576		
14,000.00	7,870.00	14,418.11	7,480.00	96.84	124.37	-73.81	-3,025.89	5,534.91	1,395.00	1,229.71	165.29	8.440		
14,100.00	7,870.00	14,518.11	7,480.00	97.64	124.73	-73.81	-3,125.89	5,534.57	1,395.00	1,227.05	167.94	8.306		
14,200.00	7,870.00	14,618.11	7,480.00	98.48	125.11	-73.81	-3,225.89	5,534.23	1,395.00	1,224.37	170.63	8.176		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,870.00	14,718.11	7,480.00	99.37	125.52	-73.81	-3,325.89	5,533.90	1,395.00	1,221.66	173.34	8.048		
14,400.00	7,870.00	14,818.11	7,480.00	100.30	125.95	-73.81	-3,425.89	5,533.56	1,395.00	1,218.93	176.07	7.923		
14,500.00	7,870.00	14,918.11	7,480.00	101.26	126.41	-73.81	-3,525.89	5,533.22	1,395.00	1,216.17	178.83	7.801		
14,600.00	7,870.00	15,018.11	7,480.00	102.27	126.90	-73.81	-3,625.89	5,532.89	1,395.00	1,213.39	181.61	7.681		
14,700.00	7,870.00	15,118.11	7,480.00	103.31	127.42	-73.81	-3,725.89	5,532.55	1,395.00	1,210.58	184.42	7.564		
14,800.00	7,870.00	15,218.11	7,480.00	104.38	127.96	-73.81	-3,825.89	5,532.21	1,395.00	1,207.76	187.24	7.450		
14,900.00	7,870.00	15,318.11	7,480.00	105.49	128.54	-73.81	-3,925.89	5,531.88	1,395.00	1,204.92	190.08	7.339		
15,000.00	7,870.00	15,418.11	7,480.00	106.63	129.14	-73.81	-4,025.89	5,531.54	1,395.00	1,202.06	192.95	7.230		
15,100.00	7,870.00	15,518.11	7,480.00	107.80	129.78	-73.81	-4,125.89	5,531.20	1,395.00	1,199.18	195.83	7.124		
15,200.00	7,870.00	15,618.11	7,480.00	109.00	130.45	-73.81	-4,225.89	5,530.87	1,395.00	1,196.28	198.72	7.020		
15,300.00	7,870.00	15,718.11	7,480.00	110.22	131.14	-73.81	-4,325.89	5,530.53	1,395.00	1,193.37	201.64	6.918		
15,400.00	7,870.00	15,818.11	7,480.00	111.47	131.87	-73.81	-4,425.89	5,530.19	1,395.01	1,190.44	204.57	6.819		
15,500.00	7,870.00	15,918.11	7,480.00	112.74	132.63	-73.81	-4,525.89	5,529.86	1,395.01	1,187.50	207.51	6.723		
15,600.00	7,870.00	16,018.11	7,480.00	114.03	133.42	-73.81	-4,625.89	5,529.52	1,395.01	1,184.54	210.47	6.628		
15,700.00	7,870.00	16,118.11	7,480.00	115.34	134.23	-73.81	-4,725.89	5,529.18	1,395.01	1,181.57	213.44	6.536		
15,800.00	7,870.00	16,218.11	7,480.00	116.68	135.08	-73.81	-4,825.88	5,528.85	1,395.01	1,178.58	216.43	6.446		
15,900.00	7,870.00	16,318.11	7,480.00	118.02	135.96	-73.81	-4,925.88	5,528.51	1,395.01	1,175.58	219.43	6.358		
16,000.00	7,870.00	16,418.11	7,480.00	119.39	136.87	-73.81	-5,025.88	5,528.17	1,395.01	1,172.57	222.44	6.271		
16,100.00	7,870.00	16,518.11	7,480.00	120.77	137.80	-73.81	-5,125.88	5,527.84	1,395.01	1,169.55	225.46	6.187		
16,200.00	7,870.00	16,618.11	7,480.00	122.17	138.77	-73.81	-5,225.88	5,527.50	1,395.01	1,166.52	228.49	6.105		
16,300.00	7,870.00	16,718.11	7,480.00	123.58	139.76	-73.81	-5,325.88	5,527.16	1,395.01	1,163.47	231.54	6.025		
16,400.00	7,870.00	16,818.11	7,480.00	125.00	140.78	-73.81	-5,425.88	5,526.83	1,395.01	1,160.42	234.59	5.946		
16,500.00	7,870.00	16,918.11	7,480.00	126.43	141.82	-73.81	-5,525.88	5,526.49	1,395.01	1,157.35	237.66	5.870		
16,600.00	7,870.00	17,018.11	7,480.00	127.88	142.89	-73.81	-5,625.88	5,526.15	1,395.01	1,154.28	240.73	5.795		
16,700.00	7,870.00	17,118.11	7,480.00	129.34	143.98	-73.81	-5,725.88	5,525.82	1,395.01	1,151.19	243.82	5.722		
16,800.00	7,870.00	17,218.11	7,480.00	130.81	145.09	-73.81	-5,825.88	5,525.48	1,395.01	1,148.10	246.91	5.650		
16,900.00	7,870.00	17,318.11	7,480.00	132.28	146.23	-73.81	-5,925.88	5,525.14	1,395.01	1,145.00	250.01	5.580		
17,000.00	7,870.00	17,418.11	7,480.00	133.77	147.39	-73.81	-6,025.88	5,524.81	1,395.01	1,141.89	253.12	5.511		
17,100.00	7,870.00	17,518.11	7,480.00	135.27	148.57	-73.81	-6,125.88	5,524.47	1,395.02	1,138.77	256.24	5.444		
17,200.00	7,870.00	17,618.11	7,480.00	136.77	149.78	-73.81	-6,225.88	5,524.13	1,395.02	1,135.65	259.37	5.379		
17,300.00	7,870.00	17,718.11	7,480.00	138.28	151.00	-73.81	-6,325.88	5,523.80	1,395.02	1,132.52	262.50	5.314		
17,400.00	7,870.00	17,818.11	7,480.00	139.80	152.23	-73.81	-6,425.88	5,523.46	1,395.02	1,129.38	265.64	5.252		
17,500.00	7,870.00	17,918.11	7,480.00	141.33	153.49	-73.81	-6,525.88	5,523.12	1,395.02	1,126.23	268.79	5.190		
17,600.00	7,870.00	18,018.11	7,480.00	142.86	154.77	-73.81	-6,625.87	5,522.79	1,395.02	1,123.08	271.94	5.130		
17,700.00	7,870.00	18,118.11	7,480.00	144.40	156.06	-73.81	-6,725.87	5,522.45	1,395.02	1,119.92	275.10	5.071		
17,800.00	7,870.00	18,218.11	7,480.00	145.95	157.36	-73.81	-6,825.87	5,522.11	1,395.02	1,116.75	278.27	5.013		
17,900.00	7,870.00	18,318.11	7,480.00	147.50	158.68	-73.81	-6,925.87	5,521.78	1,395.02	1,113.58	281.44	4.957		
18,000.00	7,870.00	18,418.11	7,480.00	149.06	160.02	-73.81	-7,025.87	5,521.44	1,395.02	1,110.40	284.62	4.901		
18,100.00	7,870.00	18,518.11	7,480.00	150.63	161.37	-73.81	-7,125.87	5,521.10	1,395.02	1,107.22	287.80	4.847		
18,200.00	7,870.00	18,618.11	7,480.00	152.20	162.73	-73.81	-7,225.87	5,520.77	1,395.02	1,104.03	290.99	4.794		
18,300.00	7,870.00	18,718.11	7,480.00	153.77	164.10	-73.81	-7,325.87	5,520.43	1,395.02	1,100.83	294.19	4.742		
18,400.00	7,870.00	18,818.11	7,480.00	155.35	165.49	-73.81	-7,425.87	5,520.09	1,395.02	1,097.64	297.39	4.691		
18,500.00	7,870.00	18,918.11	7,480.00	156.93	166.89	-73.81	-7,525.87	5,519.76	1,395.02	1,094.43	300.59	4.641		
18,600.00	7,870.00	19,018.11	7,480.00	158.52	168.30	-73.81	-7,625.87	5,519.42	1,395.02	1,091.22	303.80	4.592		
18,700.00	7,870.00	19,118.11	7,480.00	160.11	169.72	-73.81	-7,725.87	5,519.08	1,395.02	1,088.01	307.01	4.544		
18,800.00	7,870.00	19,218.11	7,480.00	161.71	171.15	-73.81	-7,825.87	5,518.74	1,395.02	1,084.79	310.23	4.497		
18,900.00	7,870.00	19,318.11	7,480.00	163.31	172.59	-73.81	-7,925.87	5,518.41	1,395.03	1,081.57	313.46	4.450		
19,000.00	7,870.00	19,418.11	7,480.00	164.91	174.03	-73.81	-8,025.87	5,518.07	1,395.03	1,078.34	316.68	4.405		
19,100.00	7,870.00	19,518.11	7,480.00	166.52	175.49	-73.81	-8,125.87	5,517.73	1,395.03	1,075.11	319.91	4.361		
19,200.00	7,870.00	19,618.11	7,480.00	168.13	176.96	-73.81	-8,225.87	5,517.40	1,395.03	1,071.88	323.15	4.317		
19,300.00	7,870.00	19,718.11	7,480.00	169.75	178.43	-73.81	-8,325.87	5,517.06	1,395.03	1,068.64	326.39	4.274		
19,383.51	7,870.00	19,801.62	7,480.00	171.10	179.67	-73.81	-8,409.37	5,516.78	1,395.03	1,065.93	329.09	4.239 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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	90.42	-0.36	50.12	50.12					
100.00	100.00	99.00	99.00	0.13	0.13	90.42	-0.36	50.12	50.12	49.85	0.27	187.364	CC, ES	
200.00	200.00	197.36	197.34	0.49	0.48	89.79	0.19	51.68	51.71	50.73	0.98	52.727		
300.00	300.00	295.48	295.32	0.85	0.84	88.10	1.87	56.40	56.55	54.86	1.70	33.328		
400.00	400.00	393.14	392.62	1.21	1.21	85.86	4.65	64.24	64.72	62.31	2.41	26.838		
500.00	500.00	490.12	488.91	1.57	1.59	83.54	8.51	75.11	76.26	73.14	3.12	24.419		
600.00	600.00	586.20	583.87	1.93	1.99	81.42	13.41	88.91	91.18	87.35	3.83	23.810		
700.00	699.98	681.52	677.53	2.28	2.42	15.97	19.31	105.55	107.78	103.26	4.52	23.848		
800.00	799.84	776.32	770.06	2.64	2.88	14.94	26.22	125.00	124.35	119.15	5.20	23.916		
900.00	899.45	870.62	861.36	3.00	3.38	14.31	34.10	147.21	140.84	134.96	5.88	23.945		
1,000.00	998.70	964.43	951.37	3.37	3.91	13.95	42.94	172.09	157.21	150.65	6.56	23.962		
1,100.00	1,097.47	1,057.76	1,040.02	3.76	4.48	13.78	52.70	199.59	173.44	166.19	7.25	23.926		
1,200.00	1,195.62	1,150.63	1,127.24	4.18	5.10	13.74	63.37	229.65	189.50	181.56	7.94	23.860		
1,300.00	1,293.06	1,243.04	1,212.96	4.63	5.76	13.82	74.92	262.18	205.38	196.74	8.64	23.768		
1,400.00	1,389.64	1,335.02	1,297.12	5.11	6.47	13.97	87.33	297.13	221.06	211.72	9.35	23.648		
1,500.00	1,485.27	1,426.56	1,379.66	5.63	7.22	14.19	100.57	334.42	236.54	226.48	10.07	23.498		
1,600.00	1,579.82	1,517.69	1,460.53	6.20	8.03	14.46	114.62	374.00	251.81	241.01	10.80	23.320		
1,700.00	1,673.17	1,608.42	1,539.68	6.83	8.89	14.77	129.46	415.79	266.84	255.30	11.55	23.112		
1,800.00	1,765.21	1,698.75	1,617.05	7.51	9.80	15.12	145.06	459.72	281.64	269.33	12.31	22.873		
1,900.00	1,855.84	1,788.71	1,692.60	8.24	10.77	15.49	161.39	505.73	296.20	283.10	13.10	22.603		
2,000.00	1,944.94	1,878.30	1,768.28	9.05	11.79	15.89	178.45	553.76	310.51	296.59	13.92	22.302		
2,100.00	2,032.39	1,967.54	1,838.05	9.91	12.86	16.32	196.19	603.73	324.56	309.79	14.77	21.971		
2,200.00	2,118.11	2,056.44	1,907.87	10.85	13.99	16.76	214.60	655.58	338.34	322.69	15.66	21.611		
2,300.00	2,201.97	2,145.01	1,975.70	11.85	15.17	17.22	233.65	709.25	351.86	335.28	16.58	21.221		
2,400.00	2,283.88	2,233.27	2,041.51	12.93	16.40	17.70	253.32	764.66	365.09	347.54	17.55	20.803		
2,429.47	2,307.63	2,259.22	2,060.51	13.26	16.77	17.84	259.24	781.32	368.94	351.10	17.84	20.675		
2,500.00	2,364.26	2,324.86	2,107.99	14.06	17.73	18.23	274.40	824.04	378.71	360.06	18.65	20.311		
2,600.00	2,444.56	2,423.79	2,179.34	15.22	19.20	18.78	297.33	888.61	392.88	372.93	19.95	19.697		
2,700.00	2,524.85	2,522.71	2,250.69	16.39	20.67	19.29	320.25	953.18	407.08	385.80	21.28	19.132		
2,800.00	2,605.14	2,621.63	2,322.03	17.57	22.15	19.77	343.18	1,017.76	421.31	398.67	22.64	18.612		
2,900.00	2,685.43	2,720.56	2,393.38	18.76	23.64	20.22	366.11	1,082.33	435.57	411.54	24.02	18.133		
3,000.00	2,765.73	2,819.48	2,464.73	19.96	25.14	20.63	389.03	1,146.90	449.85	424.42	25.43	17.692		
3,100.00	2,846.02	2,918.40	2,536.08	21.16	26.64	21.02	411.96	1,211.48	464.15	437.30	26.85	17.285		
3,200.00	2,926.31	3,017.33	2,607.43	22.37	28.14	21.39	434.88	1,276.05	478.47	450.18	28.30	16.910		
3,300.00	3,006.60	3,116.25	2,678.78	23.59	29.65	21.74	457.81	1,340.62	492.82	463.06	29.76	16.562		
3,400.00	3,086.90	3,215.17	2,750.13	24.81	31.15	22.06	480.73	1,405.19	507.17	475.94	31.23	16.239		
3,500.00	3,167.19	3,314.10	2,821.47	26.03	32.66	22.37	503.66	1,469.77	521.55	488.83	32.72	15.940		
3,600.00	3,247.48	3,413.02	2,892.82	27.25	34.18	22.67	526.59	1,534.34	535.94	501.72	34.22	15.661		
3,700.00	3,327.77	3,511.94	2,964.17	28.48	35.69	22.94	549.51	1,598.91	550.34	514.60	35.73	15.401		
3,800.00	3,408.07	3,610.87	3,035.52	29.71	37.21	23.21	572.44	1,663.49	564.75	527.49	37.26	15.159		
3,900.00	3,488.36	3,709.79	3,106.87	30.94	38.72	23.46	595.36	1,728.06	579.17	540.39	38.79	14.932		
4,000.00	3,568.65	3,808.71	3,178.22	32.17	40.24	23.69	618.29	1,792.63	593.61	553.28	40.33	14.719		
4,100.00	3,648.95	3,907.64	3,249.57	33.41	41.76	23.92	641.21	1,857.21	608.05	566.17	41.88	14.519		
4,200.00	3,729.24	4,006.56	3,320.91	34.64	43.28	24.14	664.14	1,921.78	622.50	579.07	43.44	14.332		
4,300.00	3,809.53	4,105.49	3,392.26	35.88	44.80	24.34	687.06	1,986.35	636.96	591.97	45.00	14.155		
4,400.00	3,889.82	4,204.41	3,463.61	37.12	46.32	24.54	709.99	2,050.92	651.43	604.86	46.57	13.989		
4,500.00	3,970.12	4,303.33	3,534.96	38.36	47.84	24.73	732.92	2,115.50	665.91	617.76	48.15	13.831		
4,600.00	4,050.41	4,402.26	3,606.31	39.60	49.37	24.91	755.84	2,180.07	680.39	630.66	49.73	13.682		
4,700.00	4,130.70	4,501.18	3,677.66	40.84	50.89	25.08	778.77	2,244.64	694.88	643.57	51.31	13.542		
4,800.00	4,210.99	4,600.10	3,749.01	42.08	52.41	25.25	801.69	2,309.22	709.37	656.47	52.91	13.408		
4,900.00	4,291.29	4,700.97	3,820.35	43.32	53.97	25.41	824.62	2,373.79	723.87	669.36	54.52	13.278		
5,000.00	4,371.58	4,797.95	3,891.70	44.57	55.46	25.56	847.54	2,438.36	738.38	682.28	56.10	13.161		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,903.13	3,963.05	45.81	57.08	25.71	870.47	2,502.93	752.89	695.13	57.76	13.035		
5,200.00	4,532.16	5,004.20	4,034.40	47.05	58.64	25.85	893.40	2,567.51	767.41	708.02	59.38	12.923		
5,300.00	4,612.46	5,094.72	4,105.75	48.30	60.04	25.98	916.32	2,632.08	781.93	721.00	60.93	12.833		
5,400.00	4,692.75	5,206.36	4,177.10	49.54	61.76	26.11	939.25	2,696.65	796.45	733.80	62.65	12.714		
5,500.00	4,773.04	5,292.57	4,248.45	50.79	63.09	26.24	962.17	2,761.23	810.98	746.81	64.16	12.639		
5,600.00	4,853.34	5,408.51	4,319.79	52.03	64.88	26.36	985.10	2,825.80	825.51	759.59	65.92	12.523		
5,700.00	4,933.63	5,509.59	4,391.14	53.28	66.44	26.48	1,008.02	2,890.37	840.04	772.48	67.56	12.434		
5,800.00	5,013.92	5,589.34	4,462.49	54.53	67.67	26.59	1,030.95	2,954.94	854.58	785.54	69.04	12.378		
5,900.00	5,094.21	5,688.26	4,533.84	55.77	69.20	26.70	1,053.87	3,019.52	869.12	798.45	70.67	12.299		
6,000.00	5,174.51	5,787.18	4,605.19	57.02	70.73	26.81	1,076.80	3,084.09	883.67	811.37	72.30	12.222		
6,100.00	5,254.80	5,886.11	4,676.54	58.27	72.25	26.91	1,099.73	3,148.66	898.22	824.28	73.94	12.149		
6,200.00	5,335.09	5,985.03	4,747.89	59.52	73.78	27.01	1,122.65	3,213.24	912.77	837.19	75.57	12.078		
6,300.00	5,415.38	6,083.96	4,819.23	60.76	75.31	27.11	1,145.58	3,277.81	927.32	850.11	77.21	12.010		
6,400.00	5,495.68	6,182.88	4,890.58	62.01	76.84	27.20	1,168.50	3,342.38	941.87	863.02	78.85	11.945		
6,500.00	5,575.97	6,281.80	4,961.93	63.26	78.37	27.29	1,191.43	3,406.95	956.43	875.94	80.50	11.882		
6,600.00	5,656.26	6,380.73	5,033.28	64.51	79.89	27.38	1,214.35	3,471.53	970.99	888.85	82.14	11.821		
6,700.00	5,736.55	6,479.65	5,104.63	65.76	81.42	27.47	1,237.28	3,536.10	985.55	901.77	83.79	11.763		
6,800.00	5,816.85	6,578.57	5,175.98	67.01	82.95	27.55	1,260.21	3,600.67	1,000.12	914.68	85.43	11.706		
6,900.00	5,897.14	6,677.50	5,247.33	68.26	84.48	27.63	1,283.13	3,665.25	1,014.68	927.60	87.08	11.652		
7,000.00	5,977.43	6,776.42	5,318.67	69.50	86.01	27.71	1,306.06	3,729.82	1,029.25	940.52	88.73	11.599		
7,100.00	6,057.72	6,875.34	5,390.02	70.75	87.54	27.79	1,328.98	3,794.39	1,043.82	953.44	90.39	11.548		
7,200.00	6,138.02	6,974.27	5,461.37	72.00	89.07	27.86	1,351.91	3,858.96	1,058.39	966.35	92.04	11.499		
7,300.00	6,218.31	7,073.19	5,532.72	73.25	90.60	27.93	1,374.83	3,923.54	1,072.97	979.27	93.70	11.452		
7,400.00	6,298.60	7,172.11	5,604.07	74.50	92.13	28.00	1,397.76	3,988.11	1,087.54	992.19	95.35	11.406		
7,500.00	6,378.90	7,271.04	5,675.42	75.75	93.66	28.07	1,420.68	4,052.68	1,102.12	1,005.11	97.01	11.361		
7,600.00	6,459.19	7,369.96	5,746.77	77.00	95.19	28.14	1,443.61	4,117.26	1,116.70	1,018.03	98.67	11.318		
7,700.00	6,539.48	7,468.88	5,818.11	78.25	96.72	28.20	1,466.54	4,181.83	1,131.28	1,030.95	100.33	11.276		
7,800.00	6,619.77	7,567.81	5,889.46	79.50	98.24	28.26	1,489.46	4,246.40	1,145.86	1,043.87	101.99	11.235		
7,900.00	6,700.07	7,666.73	5,960.81	80.75	99.77	28.33	1,512.39	4,310.97	1,160.44	1,056.79	103.65	11.196		
8,000.00	6,780.36	7,765.66	6,032.16	82.00	101.30	28.39	1,535.31	4,375.55	1,175.02	1,069.71	105.31	11.157		
8,100.00	6,860.65	7,864.58	6,103.51	83.25	102.83	28.44	1,558.24	4,440.12	1,189.61	1,082.63	106.98	11.120		
8,200.00	6,940.94	7,963.50	6,174.86	84.50	104.36	28.50	1,581.16	4,504.69	1,204.19	1,095.55	108.64	11.084		
8,300.00	7,021.24	8,062.43	6,246.21	85.76	105.89	28.56	1,604.09	4,569.27	1,218.78	1,108.47	110.31	11.049		
8,400.00	7,101.53	8,161.35	6,317.55	87.01	107.42	28.61	1,627.01	4,633.84	1,233.37	1,121.40	111.97	11.015		
8,500.00	7,181.82	8,260.27	6,388.90	88.26	108.95	28.66	1,649.94	4,698.41	1,247.96	1,134.32	113.64	10.982		
8,605.60	7,266.61	8,364.73	6,464.24	89.58	110.57	28.72	1,674.15	4,766.60	1,263.37	1,147.96	115.40	10.948		
8,650.00	7,302.60	8,408.66	6,495.93	90.13	111.25	23.47	1,684.33	4,795.27	1,269.63	1,153.65	115.98	10.947		
8,700.00	7,343.78	8,457.92	6,531.46	90.72	112.01	16.80	1,695.75	4,827.43	1,276.16	1,159.92	116.24	10.979		
8,750.00	7,385.32	8,506.60	6,566.57	91.28	112.76	9.53	1,707.03	4,859.20	1,282.13	1,166.05	116.08	11.045		
8,800.00	7,426.92	8,554.32	6,600.99	91.81	113.50	2.00	1,718.09	4,890.35	1,287.60	1,172.08	115.52	11.146		
8,850.00	7,468.27	8,600.73	6,634.46	92.29	114.22	-5.49	1,728.84	4,920.65	1,292.66	1,178.10	114.56	11.284		
8,900.00	7,509.04	8,645.47	6,666.72	92.72	114.91	-12.62	1,739.21	4,949.85	1,297.43	1,184.19	113.24	11.458		
8,950.00	7,548.93	8,688.19	6,697.54	93.10	115.57	-19.21	1,749.11	4,977.74	1,302.06	1,190.48	111.58	11.669		
9,000.00	7,587.63	8,728.59	6,728.67	93.43	116.20	-25.14	1,758.47	5,004.11	1,306.75	1,197.09	109.66	11.917		
9,050.00	7,624.85	8,766.34	6,753.90	93.71	116.78	-30.35	1,767.22	5,028.75	1,311.67	1,204.16	107.52	12.200		
9,100.00	7,660.30	8,801.15	6,779.01	93.93	117.32	-34.86	1,775.29	5,051.48	1,317.04	1,211.80	105.25	12.514		
9,150.00	7,693.72	8,832.78	6,801.82	94.10	117.81	-38.67	1,782.62	5,072.12	1,323.04	1,220.11	102.93	12.853		
9,200.00	7,724.85	8,860.97	6,822.15	94.23	118.25	-41.82	1,789.15	5,090.52	1,329.86	1,229.18	100.68	13.209		
9,250.00	7,753.45	8,885.51	6,839.85	94.30	118.63	-44.32	1,794.84	5,106.54	1,337.66	1,239.06	98.60	13.567		
9,300.00	7,779.31	8,906.21	6,854.78	94.34	118.95	-46.19	1,799.64	5,120.05	1,346.56	1,249.77	96.79	13.912		
9,350.00	7,802.23	8,922.92	6,866.83	94.33	119.21	-47.45	1,803.51	5,130.96	1,356.66	1,261.30	95.36	14.227		
9,400.00	7,822.03	8,935.50	6,875.91	94.28	119.40	-48.11	1,806.43	5,139.17	1,368.00	1,273.62	94.37	14.495		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,943.87	6,881.95	94.20	119.53	-48.21	1,808.37	5,144.63	1,380.57	1,286.68	93.89	14.704		
9,500.00	7,851.72	8,947.96	6,884.90	94.10	119.59	-47.74	1,809.31	5,147.30	1,394.34	1,300.41	93.93	14.844		
9,550.00	7,861.37	8,947.73	6,884.73	93.96	119.59	-46.75	1,809.26	5,147.16	1,409.19	1,314.71	94.48	14.915		
9,600.00	7,867.46	8,943.20	6,881.46	93.81	119.52	-45.26	1,808.21	5,144.20	1,424.98	1,329.50	95.49	14.923		
9,650.00	7,869.94	8,934.39	6,875.11	93.64	119.38	-43.32	1,806.17	5,138.44	1,441.53	1,344.64	96.89	14.878		
9,659.14	7,870.00	8,932.32	6,873.62	93.60	119.35	-42.92	1,805.69	5,137.10	1,444.61	1,347.43	97.18	14.865		
9,700.00	7,870.00	8,922.76	6,866.72	93.46	119.20	-42.53	1,803.47	5,130.85	1,458.93	1,360.30	98.63	14.792		
9,800.00	7,870.00	8,899.37	6,849.85	93.11	118.84	-41.58	1,798.05	5,115.58	1,497.84	1,394.90	102.94	14.550		
9,900.00	7,870.00	8,875.97	6,832.97	92.77	118.48	-40.63	1,792.63	5,100.31	1,541.91	1,433.89	108.02	14.274		
10,000.00	7,870.00	8,852.58	6,816.10	92.46	118.12	-39.68	1,787.21	5,085.04	1,590.71	1,477.22	113.48	14.017		
10,100.00	7,870.00	8,829.18	6,799.23	92.16	117.76	-38.74	1,781.79	5,069.77	1,643.81	1,524.75	119.06	13.807		
10,200.00	7,870.00	8,805.79	6,782.35	91.87	117.39	-37.81	1,776.36	5,054.50	1,700.82	1,576.27	124.55	13.656		
10,300.00	7,870.00	11,108.63	7,730.00	91.60	131.54	-85.32	672.85	5,907.39	1,705.34	1,606.11	99.23	17.185		
10,400.00	7,870.00	11,208.63	7,730.00	91.34	131.34	-85.32	572.85	5,907.05	1,705.34	1,606.28	99.06	17.215		
10,500.00	7,870.00	11,308.63	7,730.00	91.11	131.15	-85.32	472.85	5,906.72	1,705.34	1,606.34	99.00	17.225		
10,600.00	7,870.00	11,408.63	7,730.00	90.88	130.97	-85.32	372.85	5,906.38	1,705.34	1,606.26	99.08	17.211		
10,700.00	7,870.00	11,508.63	7,730.00	90.67	130.80	-85.32	272.85	5,906.04	1,705.34	1,606.06	99.28	17.176		
10,800.00	7,870.00	11,608.63	7,730.00	90.48	130.64	-85.32	172.85	5,905.70	1,705.34	1,605.73	99.61	17.120		
10,900.00	7,870.00	11,708.63	7,730.00	90.31	130.50	-85.32	72.86	5,905.37	1,705.34	1,605.28	100.06	17.043		
11,000.00	7,870.00	11,808.63	7,730.00	90.15	130.36	-85.32	-27.14	5,905.03	1,705.34	1,604.71	100.63	16.947		
11,100.00	7,870.00	11,908.63	7,730.00	90.00	130.23	-85.32	-127.14	5,904.69	1,705.34	1,604.02	101.32	16.831		
11,200.00	7,870.00	12,008.63	7,730.00	89.88	130.12	-85.32	-227.14	5,904.35	1,705.34	1,603.21	102.13	16.698		
11,300.00	7,870.00	12,108.63	7,730.00	89.77	130.01	-85.32	-327.14	5,904.01	1,705.34	1,602.29	103.05	16.549		
11,400.00	7,870.00	12,208.63	7,730.00	89.68	129.92	-85.32	-427.14	5,903.68	1,705.34	1,601.25	104.08	16.384		
11,500.00	7,870.00	12,308.63	7,730.00	89.60	129.84	-85.32	-527.14	5,903.34	1,705.34	1,600.11	105.22	16.207		
11,600.00	7,870.00	12,408.63	7,730.00	89.55	129.77	-85.32	-627.14	5,903.00	1,705.34	1,598.86	106.47	16.017		
11,700.00	7,870.00	12,508.63	7,730.00	89.52	129.71	-85.32	-727.14	5,902.66	1,705.33	1,597.52	107.82	15.817		
11,800.00	7,870.00	12,608.63	7,730.00	89.50	129.66	-85.32	-827.14	5,902.32	1,705.33	1,596.07	109.26	15.608		
11,900.00	7,870.00	12,708.63	7,730.00	89.51	129.62	-85.32	-927.14	5,901.99	1,705.33	1,594.54	110.80	15.391		
12,000.00	7,870.00	12,808.63	7,730.00	89.54	129.60	-85.32	-1,027.14	5,901.65	1,705.33	1,592.90	112.43	15.168		
12,100.00	7,870.00	12,908.63	7,730.00	89.59	129.59	-85.32	-1,127.14	5,901.31	1,705.33	1,591.19	114.14	14.941		
12,200.00	7,870.00	13,008.63	7,730.00	89.66	129.59	-85.32	-1,227.14	5,900.97	1,705.33	1,589.39	115.94	14.709		
12,300.00	7,870.00	13,108.63	7,730.00	89.77	129.60	-85.32	-1,327.14	5,900.63	1,705.33	1,587.52	117.81	14.475		
12,400.00	7,870.00	13,208.63	7,730.00	89.89	129.63	-85.32	-1,427.14	5,900.30	1,705.33	1,585.57	119.76	14.240		
12,500.00	7,870.00	13,308.63	7,730.00	90.05	129.67	-85.32	-1,527.14	5,899.96	1,705.33	1,583.55	121.78	14.004		
12,600.00	7,870.00	13,408.63	7,730.00	90.24	129.72	-85.32	-1,627.13	5,899.62	1,705.33	1,581.47	123.86	13.768		
12,700.00	7,870.00	13,508.63	7,730.00	90.46	129.79	-85.32	-1,727.13	5,899.28	1,705.33	1,579.32	126.01	13.533		
12,800.00	7,870.00	13,608.63	7,730.00	90.71	129.87	-85.32	-1,827.13	5,898.95	1,705.33	1,577.11	128.22	13.300		
12,900.00	7,870.00	13,708.63	7,730.00	90.99	129.97	-85.32	-1,927.13	5,898.61	1,705.33	1,574.84	130.49	13.069		
13,000.00	7,870.00	13,808.63	7,730.00	91.32	130.08	-85.32	-2,027.13	5,898.27	1,705.33	1,572.51	132.81	12.840		
13,100.00	7,870.00	13,908.63	7,730.00	91.68	130.20	-85.32	-2,127.13	5,897.93	1,705.33	1,570.14	135.19	12.614		
13,200.00	7,870.00	14,008.63	7,730.00	92.08	130.35	-85.32	-2,227.13	5,897.59	1,705.33	1,567.71	137.61	12.392		
13,300.00	7,870.00	14,108.63	7,730.00	92.52	130.51	-85.32	-2,327.13	5,897.26	1,705.33	1,565.24	140.08	12.174		
13,400.00	7,870.00	14,208.63	7,730.00	93.00	130.68	-85.32	-2,427.13	5,896.92	1,705.33	1,562.73	142.60	11.959		
13,500.00	7,870.00	14,308.63	7,730.00	93.53	130.88	-85.32	-2,527.13	5,896.58	1,705.32	1,560.17	145.16	11.748		
13,600.00	7,870.00	14,408.63	7,730.00	94.10	131.09	-85.32	-2,627.13	5,896.24	1,705.32	1,557.57	147.75	11.542		
13,700.00	7,870.00	14,508.63	7,730.00	94.72	131.32	-85.32	-2,727.13	5,895.90	1,705.32	1,554.94	150.39	11.340		
13,800.00	7,870.00	14,608.63	7,730.00	95.38	131.57	-85.32	-2,827.13	5,895.57	1,705.32	1,552.27	153.06	11.142		
13,900.00	7,870.00	14,708.63	7,730.00	96.09	131.84	-85.32	-2,927.13	5,895.23	1,705.32	1,549.56	155.76	10.948		
14,000.00	7,870.00	14,808.63	7,730.00	96.84	132.13	-85.32	-3,027.13	5,894.89	1,705.32	1,546.82	158.50	10.759		
14,100.00	7,870.00	14,908.63	7,730.00	97.64	132.45	-85.32	-3,127.13	5,894.55	1,705.32	1,544.06	161.26	10.575		
14,200.00	7,870.00	15,008.63	7,730.00	98.48	132.78	-85.32	-3,227.13	5,894.21	1,705.32	1,541.26	164.06	10.394		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,870.00	15,108.63	7,730.00	99.37	133.14	-85.32	-3,327.13	5,893.88	1,705.32	1,538.44	166.88	10.219		
14,400.00	7,870.00	15,208.63	7,730.00	100.30	133.52	-85.32	-3,427.12	5,893.54	1,705.32	1,535.59	169.73	10.047		
14,500.00	7,870.00	15,308.63	7,730.00	101.26	133.92	-85.32	-3,527.12	5,893.20	1,705.32	1,532.71	172.61	9.880		
14,600.00	7,870.00	15,408.63	7,730.00	102.27	134.34	-85.32	-3,627.12	5,892.86	1,705.32	1,529.81	175.51	9.717		
14,700.00	7,870.00	15,508.63	7,730.00	103.31	134.80	-85.32	-3,727.12	5,892.53	1,705.32	1,526.89	178.43	9.557		
14,800.00	7,870.00	15,608.63	7,730.00	104.38	135.27	-85.32	-3,827.12	5,892.19	1,705.32	1,523.95	181.37	9.402		
14,900.00	7,870.00	15,708.63	7,730.00	105.49	135.78	-85.32	-3,927.12	5,891.85	1,705.32	1,520.98	184.33	9.251		
15,000.00	7,870.00	15,808.63	7,730.00	106.63	136.30	-85.32	-4,027.12	5,891.51	1,705.32	1,518.00	187.32	9.104		
15,100.00	7,870.00	15,908.63	7,730.00	107.80	136.86	-85.32	-4,127.12	5,891.17	1,705.32	1,515.00	190.32	8.960		
15,200.00	7,870.00	16,008.63	7,730.00	109.00	137.44	-85.32	-4,227.12	5,890.84	1,705.31	1,511.98	193.33	8.821		
15,300.00	7,870.00	16,108.63	7,730.00	110.22	138.05	-85.32	-4,327.12	5,890.50	1,705.31	1,508.94	196.37	8.684		
15,400.00	7,870.00	16,208.63	7,730.00	111.47	138.69	-85.32	-4,427.12	5,890.16	1,705.31	1,505.89	199.42	8.551		
15,500.00	7,870.00	16,308.63	7,730.00	112.74	139.35	-85.32	-4,527.12	5,889.82	1,705.31	1,502.82	202.49	8.422		
15,600.00	7,870.00	16,408.63	7,730.00	114.03	140.05	-85.32	-4,627.12	5,889.48	1,705.31	1,499.74	205.57	8.296		
15,700.00	7,870.00	16,508.63	7,730.00	115.34	140.77	-85.32	-4,727.12	5,889.15	1,705.31	1,496.65	208.66	8.172		
15,800.00	7,870.00	16,608.63	7,730.00	116.68	141.52	-85.32	-4,827.12	5,888.81	1,705.31	1,493.54	211.77	8.053		
15,900.00	7,870.00	16,708.63	7,730.00	118.02	142.29	-85.32	-4,927.12	5,888.47	1,705.31	1,490.42	214.90	7.936		
16,000.00	7,870.00	16,808.63	7,730.00	119.39	143.10	-85.32	-5,027.12	5,888.13	1,705.31	1,487.28	218.03	7.821		
16,100.00	7,870.00	16,908.63	7,730.00	120.77	143.93	-85.32	-5,127.12	5,887.79	1,705.31	1,484.13	221.17	7.710		
16,200.00	7,870.00	17,008.63	7,730.00	122.17	144.79	-85.32	-5,227.11	5,887.46	1,705.31	1,480.98	224.33	7.602		
16,300.00	7,870.00	17,108.63	7,730.00	123.58	145.67	-85.32	-5,327.11	5,887.12	1,705.31	1,477.81	227.50	7.496		
16,400.00	7,870.00	17,208.63	7,730.00	125.00	146.59	-85.32	-5,427.11	5,886.78	1,705.31	1,474.63	230.68	7.393		
16,500.00	7,870.00	17,308.63	7,730.00	126.43	147.52	-85.32	-5,527.11	5,886.44	1,705.31	1,471.44	233.87	7.292		
16,600.00	7,870.00	17,408.63	7,730.00	127.88	148.49	-85.32	-5,627.11	5,886.10	1,705.31	1,468.24	237.06	7.193		
16,700.00	7,870.00	17,508.63	7,730.00	129.34	149.48	-85.32	-5,727.11	5,885.77	1,705.31	1,465.04	240.27	7.097		
16,800.00	7,870.00	17,608.63	7,730.00	130.81	150.49	-85.32	-5,827.11	5,885.43	1,705.31	1,461.82	243.49	7.004		
16,900.00	7,870.00	17,708.63	7,730.00	132.28	151.53	-85.32	-5,927.11	5,885.09	1,705.30	1,458.59	246.71	6.912		
17,000.00	7,870.00	17,808.63	7,730.00	133.77	152.59	-85.32	-6,027.11	5,884.75	1,705.30	1,455.36	249.94	6.823		
17,100.00	7,870.00	17,908.63	7,730.00	135.27	153.67	-85.32	-6,127.11	5,884.42	1,705.30	1,452.12	253.18	6.735		
17,200.00	7,870.00	18,008.63	7,730.00	136.77	154.78	-85.32	-6,227.11	5,884.08	1,705.30	1,448.87	256.43	6.650		
17,300.00	7,870.00	18,108.63	7,730.00	138.28	155.90	-85.32	-6,327.11	5,883.74	1,705.30	1,445.62	259.68	6.567		
17,400.00	7,870.00	18,208.63	7,730.00	139.80	157.05	-85.32	-6,427.11	5,883.40	1,705.30	1,442.36	262.95	6.485		
17,500.00	7,870.00	18,308.63	7,730.00	141.33	158.21	-85.32	-6,527.11	5,883.06	1,705.30	1,439.09	266.21	6.406		
17,600.00	7,870.00	18,408.63	7,730.00	142.86	159.40	-85.32	-6,627.11	5,882.73	1,705.30	1,435.81	269.49	6.328		
17,700.00	7,870.00	18,508.63	7,730.00	144.40	160.60	-85.32	-6,727.11	5,882.39	1,705.30	1,432.53	272.77	6.252		
17,800.00	7,870.00	18,608.63	7,730.00	145.95	161.82	-85.32	-6,827.11	5,882.05	1,705.30	1,429.24	276.06	6.177		
17,900.00	7,870.00	18,708.63	7,730.00	147.50	163.06	-85.32	-6,927.10	5,881.71	1,705.30	1,425.95	279.35	6.105		
18,000.00	7,870.00	18,808.63	7,730.00	149.06	164.32	-85.32	-7,027.10	5,881.37	1,705.30	1,422.65	282.65	6.033		
18,100.00	7,870.00	18,908.63	7,730.00	150.63	165.59	-85.32	-7,127.10	5,881.04	1,705.30	1,419.34	285.95	5.964		
18,200.00	7,870.00	19,008.63	7,730.00	152.20	166.87	-85.32	-7,227.10	5,880.70	1,705.30	1,416.03	289.26	5.895		
18,300.00	7,870.00	19,108.63	7,730.00	153.77	168.18	-85.32	-7,327.10	5,880.36	1,705.30	1,412.72	292.58	5.829		
18,400.00	7,870.00	19,208.63	7,730.00	155.35	169.49	-85.32	-7,427.10	5,880.02	1,705.30	1,409.40	295.90	5.763		
18,500.00	7,870.00	19,308.63	7,730.00	156.93	170.82	-85.32	-7,527.10	5,879.68	1,705.30	1,406.08	299.22	5.699		
18,600.00	7,870.00	19,408.63	7,730.00	158.52	172.16	-85.32	-7,627.10	5,879.35	1,705.30	1,402.75	302.55	5.636		
18,700.00	7,870.00	19,508.63	7,730.00	160.11	173.51	-85.32	-7,727.10	5,879.01	1,705.29	1,399.41	305.88	5.575		
18,800.00	7,870.00	19,608.63	7,730.00	161.71	174.88	-85.32	-7,827.10	5,878.67	1,705.29	1,396.08	309.22	5.515		
18,900.00	7,870.00	19,708.63	7,730.00	163.31	176.26	-85.32	-7,927.10	5,878.33	1,705.29	1,392.73	312.56	5.456		
19,000.00	7,870.00	19,808.63	7,730.00	164.91	177.64	-85.32	-8,027.10	5,878.00	1,705.29	1,389.39	315.90	5.398		
19,100.00	7,870.00	19,908.63	7,730.00	166.52	179.04	-85.32	-8,127.10	5,877.66	1,705.29	1,386.04	319.25	5.342		
19,200.00	7,870.00	20,008.63	7,730.00	168.13	180.45	-85.32	-8,227.10	5,877.32	1,705.29	1,382.69	322.61	5.286		
19,300.00	7,870.00	20,108.63	7,730.00	169.75	181.87	-85.32	-8,327.10	5,876.98	1,705.29	1,379.33	325.96	5.232		
19,383.51	7,870.00	20,192.13	7,730.00	171.10	183.06	-85.32	-8,410.60	5,876.70	1,705.29	1,376.52	328.77	5.187 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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	1.00	0.00	0.00	-89.48	0.73	-80.08	80.08				
100.00	100.00	101.00	101.00	0.13	0.14	-89.48	0.73	-80.08	80.08	79.81	0.27	293.953	
200.00	200.00	201.00	201.00	0.49	0.50	-89.48	0.73	-80.08	80.08	79.09	0.99	80.944	
300.00	300.00	301.00	301.00	0.85	0.85	-89.48	0.73	-80.08	80.08	78.38	1.71	46.934	
400.00	400.00	401.00	401.00	1.21	1.21	-89.48	0.73	-80.08	80.08	77.66	2.42	33.048	
500.00	500.00	501.00	501.00	1.57	1.57	-89.48	0.73	-80.08	80.08	76.94	3.14	25.503	
600.00	600.00	601.00	601.00	1.93	1.93	-89.48	0.73	-80.08	80.08	76.23	3.86	20.762	CC, ES
700.00	699.98	700.98	700.98	2.28	2.29	-153.84	0.73	-80.08	81.65	77.08	4.57	17.868	
800.00	799.84	800.84	800.84	2.64	2.65	-155.33	0.73	-80.08	86.38	81.09	5.28	16.357	
900.00	899.45	900.45	900.45	3.00	3.00	-157.47	0.73	-80.08	94.37	88.37	5.99	15.744	
1,000.00	998.70	1,000.30	999.70	3.37	3.36	-159.92	0.73	-80.08	105.74	99.02	6.71	15.755	
1,100.00	1,097.47	1,101.53	1,098.47	3.76	3.72	-162.38	0.73	-80.08	120.56	113.13	7.44	16.212	
1,200.00	1,195.62	1,203.38	1,196.62	4.18	4.09	-164.66	0.73	-80.08	138.89	130.72	8.17	17.008	
1,300.00	1,293.06	1,305.94	1,294.06	4.63	4.46	-166.68	0.73	-80.08	160.72	151.82	8.90	18.056	
1,400.00	1,389.64	1,390.64	1,390.64	5.11	4.76	-168.41	0.73	-80.08	186.03	176.46	9.57	19.431	
1,500.00	1,485.27	1,491.83	1,491.82	5.63	5.12	-169.71	1.89	-79.18	213.67	203.36	10.31	20.725	
1,600.00	1,579.82	1,594.36	1,594.21	6.20	5.49	-170.35	5.94	-76.04	241.91	230.86	11.05	21.891	
1,700.00	1,673.17	1,697.70	1,697.17	6.83	5.86	-170.50	12.94	-70.61	270.65	258.85	11.80	22.940	
1,800.00	1,765.21	1,801.84	1,800.52	7.51	6.24	-170.29	22.96	-62.83	299.85	287.29	12.56	23.882	
1,900.00	1,855.84	1,906.74	1,904.10	8.24	6.63	-169.82	36.05	-52.68	329.49	316.16	13.33	24.724	
2,000.00	1,944.94	2,012.39	2,007.73	9.05	7.04	-169.14	52.25	-40.11	359.56	345.45	14.11	25.474	
2,100.00	2,032.39	2,118.76	2,111.24	9.91	7.47	-168.29	71.59	-25.10	390.09	375.16	14.93	26.127	
2,200.00	2,118.11	2,225.84	2,214.45	10.85	7.94	-167.32	94.12	-7.62	421.07	405.29	15.78	26.686	
2,300.00	2,201.97	2,333.59	2,317.15	11.85	8.45	-166.24	119.86	12.35	452.53	435.86	16.67	27.147	
2,400.00	2,283.88	2,442.00	2,419.18	12.93	9.00	-165.07	148.81	34.81	484.47	466.86	17.61	27.506	
2,429.47	2,307.63	2,474.07	2,449.08	13.26	9.17	-164.71	157.95	41.91	493.99	476.08	17.90	27.590	
2,500.00	2,364.26	2,551.32	2,520.57	14.06	9.60	-163.93	181.07	59.84	516.14	497.51	18.62	27.714	
2,600.00	2,444.56	2,662.18	2,621.74	15.22	10.26	-162.67	216.88	87.62	545.28	525.57	19.71	27.661	
2,700.00	2,524.85	2,757.42	2,707.91	16.39	10.87	-161.59	248.93	112.49	573.25	552.40	20.84	27.503	
2,800.00	2,605.14	2,852.88	2,794.28	17.57	11.50	-160.60	281.06	137.42	601.39	579.37	22.01	27.321	
2,900.00	2,685.43	2,948.35	2,880.64	18.76	12.15	-159.71	313.19	162.35	629.68	606.46	23.22	27.122	
3,000.00	2,765.73	3,043.81	2,967.01	19.96	12.81	-158.88	345.32	187.28	658.10	633.64	24.45	26.913	
3,100.00	2,846.02	3,139.27	3,053.38	21.16	13.49	-158.13	377.45	212.21	686.63	660.92	25.72	26.700	
3,200.00	2,926.31	3,234.74	3,139.75	22.37	14.17	-157.43	409.58	237.14	715.27	688.26	27.01	26.484	
3,300.00	3,006.60	3,330.20	3,226.11	23.59	14.87	-156.79	441.71	262.07	744.00	715.68	28.32	26.271	
3,400.00	3,086.90	3,425.66	3,312.48	24.81	15.57	-156.20	473.84	286.99	772.80	743.15	29.65	26.061	
3,500.00	3,167.19	3,521.12	3,398.85	26.03	16.28	-155.65	505.97	311.92	801.68	770.68	31.01	25.856	
3,600.00	3,247.48	3,616.59	3,485.22	27.25	16.99	-155.14	538.10	336.85	830.62	798.25	32.37	25.658	
3,700.00	3,327.77	3,712.05	3,571.59	28.48	17.72	-154.66	570.23	361.78	859.62	825.87	33.76	25.466	
3,800.00	3,408.07	3,807.51	3,657.95	29.71	18.44	-154.21	602.36	386.71	888.67	853.52	35.15	25.281	
3,900.00	3,488.36	3,902.98	3,744.32	30.94	19.17	-153.79	634.49	411.64	917.77	881.21	36.56	25.103	
4,000.00	3,568.65	4,001.56	3,830.69	32.17	19.93	-153.40	666.62	436.57	946.91	908.91	38.00	24.919	
4,100.00	3,648.95	4,106.10	3,917.06	33.41	20.74	-153.03	698.75	461.50	976.09	936.60	39.49	24.719	
4,200.00	3,729.24	4,189.37	4,003.43	34.64	21.38	-152.68	730.88	486.42	1,005.30	964.46	40.85	24.613	
4,300.00	3,809.53	4,284.83	4,089.79	35.88	22.13	-152.35	763.01	511.35	1,034.55	992.26	42.29	24.463	
4,400.00	3,889.82	4,380.29	4,176.16	37.12	22.87	-152.04	795.14	536.28	1,063.82	1,020.08	43.74	24.319	
4,500.00	3,970.12	4,475.75	4,262.53	38.36	23.62	-151.74	827.27	561.21	1,093.13	1,047.92	45.20	24.182	
4,600.00	4,050.41	4,571.22	4,348.90	39.60	24.37	-151.46	859.40	586.14	1,122.45	1,075.78	46.67	24.051	
4,700.00	4,130.70	4,666.68	4,435.27	40.84	25.12	-151.20	891.53	611.07	1,151.81	1,103.66	48.14	23.925	
4,800.00	4,210.99	4,762.14	4,521.63	42.08	25.88	-150.95	923.66	636.00	1,181.18	1,131.56	49.62	23.805	
4,900.00	4,291.29	4,857.61	4,608.00	43.32	26.63	-150.71	955.79	660.92	1,210.57	1,159.47	51.10	23.690	
5,000.00	4,371.58	4,953.07	4,694.37	44.57	27.39	-150.48	987.92	685.85	1,239.98	1,187.39	52.59	23.580	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	5,048.53	4,780.74	45.81	28.14	-150.26	1,020.05	710.78	1,269.41	1,215.33	54.08	23.474		
5,200.00	4,532.16	5,143.99	4,867.11	47.05	28.90	-150.05	1,052.18	735.71	1,298.85	1,243.28	55.57	23.373		
5,300.00	4,612.46	5,239.46	4,953.47	48.30	29.66	-149.85	1,084.31	760.64	1,328.31	1,271.24	57.07	23.276		
5,400.00	4,692.75	5,334.92	5,039.84	49.54	30.42	-149.66	1,116.44	785.57	1,357.79	1,299.22	58.57	23.182		
5,500.00	4,773.04	5,430.38	5,126.21	50.79	31.19	-149.48	1,148.57	810.50	1,387.27	1,327.20	60.07	23.093		
5,600.00	4,853.34	5,525.85	5,212.58	52.03	31.95	-149.31	1,180.70	835.42	1,416.77	1,355.19	61.58	23.006		
5,700.00	4,933.63	5,621.31	5,298.94	53.28	32.71	-149.14	1,212.83	860.35	1,446.28	1,383.19	63.09	22.924		
5,800.00	5,013.92	5,716.77	5,385.31	54.53	33.48	-148.98	1,244.96	885.28	1,475.80	1,411.20	64.60	22.844		
5,900.00	5,094.21	5,812.24	5,471.68	55.77	34.24	-148.82	1,277.09	910.21	1,505.33	1,439.21	66.12	22.767		
6,000.00	5,174.51	5,907.70	5,558.05	57.02	35.01	-148.68	1,309.22	935.14	1,534.87	1,467.24	67.64	22.693		
6,100.00	5,254.80	6,003.16	5,644.42	58.27	35.77	-148.53	1,341.35	960.07	1,564.42	1,495.27	69.15	22.622		
6,200.00	5,335.09	6,101.38	5,730.78	59.52	36.56	-148.40	1,373.48	985.00	1,593.98	1,523.29	70.69	22.547		
6,300.00	5,415.38	6,205.91	5,817.15	60.76	37.40	-148.26	1,405.61	1,009.92	1,623.55	1,551.27	72.28	22.462		
6,400.00	5,495.68	6,289.55	5,903.52	62.01	38.07	-148.13	1,437.74	1,034.85	1,653.12	1,579.40	73.72	22.424		
6,500.00	5,575.97	6,385.01	5,989.89	63.26	38.84	-148.01	1,469.87	1,059.78	1,682.70	1,607.45	75.25	22.362		
6,600.00	5,656.26	6,480.48	6,076.26	64.51	39.61	-147.89	1,501.99	1,084.71	1,712.29	1,635.51	76.78	22.302		
6,700.00	5,736.55	6,575.94	6,162.62	65.76	40.38	-147.78	1,534.12	1,109.64	1,741.88	1,663.58	78.31	22.245		
6,800.00	5,816.85	6,671.40	6,248.99	67.01	41.15	-147.67	1,566.25	1,134.57	1,771.48	1,691.65	79.84	22.189		
6,900.00	5,897.14	6,766.86	6,335.36	68.26	41.92	-147.56	1,598.38	1,159.50	1,801.09	1,719.72	81.37	22.135		
7,000.00	5,977.43	6,862.33	6,421.73	69.50	42.69	-147.45	1,630.51	1,184.42	1,830.70	1,747.80	82.90	22.083		
7,100.00	6,057.72	6,957.79	6,508.10	70.75	43.46	-147.35	1,662.64	1,209.35	1,860.32	1,775.89	84.44	22.032		
7,200.00	6,138.02	7,053.25	6,594.46	72.00	44.23	-147.26	1,694.77	1,234.28	1,889.94	1,803.97	85.97	21.983		
7,300.00	6,218.31	7,148.72	6,680.83	73.25	45.00	-147.16	1,726.90	1,259.21	1,919.57	1,832.06	87.51	21.936		
7,400.00	6,298.60	7,244.18	6,767.20	74.50	45.77	-147.07	1,759.03	1,284.14	1,949.20	1,860.16	89.05	21.890		
7,500.00	6,378.90	7,339.64	6,853.57	75.75	46.54	-146.98	1,791.16	1,309.07	1,978.84	1,888.26	90.58	21.845		
7,600.00	6,459.19	7,466.70	6,970.20	77.00	47.51	-147.04	1,828.19	1,342.71	2,008.08	1,915.77	92.31	21.753		
7,700.00	6,539.48	7,613.64	7,110.68	78.25	48.25	-148.06	1,838.49	1,383.12	2,035.02	1,942.11	92.91	21.903		
7,800.00	6,619.77	7,738.52	7,228.82	79.50	48.53	-149.69	1,817.79	1,417.00	2,060.48	1,968.18	92.30	22.324		
7,900.00	6,700.07	7,837.08	7,317.33	80.75	48.54	-151.41	1,782.94	1,442.31	2,086.06	1,994.84	91.22	22.867		
8,000.00	6,780.36	7,912.66	7,380.58	82.00	48.45	-152.94	1,745.82	1,460.36	2,113.11	2,023.00	90.11	23.450		
8,100.00	6,860.65	7,970.59	7,425.57	83.25	48.32	-154.23	1,711.69	1,473.18	2,142.54	2,053.45	89.09	24.048		
8,200.00	6,940.94	8,015.55	7,458.07	84.50	48.18	-155.29	1,682.04	1,482.42	2,174.88	2,086.70	88.18	24.663		
8,300.00	7,021.24	8,050.00	7,481.41	85.76	48.07	-156.13	1,657.59	1,489.04	2,210.38	2,123.01	87.37	25.298		
8,400.00	7,101.53	8,079.61	7,500.31	87.01	47.95	-156.86	1,635.44	1,494.40	2,249.16	2,162.61	86.55	25.986		
8,500.00	7,181.82	8,100.00	7,512.67	88.26	47.87	-157.38	1,619.61	1,497.90	2,291.21	2,205.36	85.85	26.690		
8,605.60	7,266.61	8,123.32	7,526.14	89.58	47.77	-157.98	1,600.95	1,501.70	2,339.07	2,254.12	84.96	27.532		
8,650.00	7,302.60	8,131.67	7,530.78	90.13	47.73	-166.41	1,594.14	1,503.01	2,360.22	2,275.61	84.62	27.893		
8,700.00	7,343.78	8,150.00	7,540.64	90.72	47.65	-176.72	1,578.94	1,505.79	2,384.60	2,300.54	84.06	28.367		
8,750.00	7,385.32	8,150.00	7,540.64	91.28	47.65	173.03	1,578.94	1,505.79	2,409.27	2,325.31	83.97	28.694		
8,800.00	7,426.92	8,166.66	7,549.18	91.81	47.57	162.37	1,564.85	1,508.20	2,434.05	2,350.53	83.52	29.143		
8,850.00	7,468.27	8,180.18	7,555.83	92.29	47.50	152.10	1,553.22	1,510.07	2,458.71	2,375.53	83.19	29.557		
8,900.00	7,509.04	8,200.00	7,565.09	92.72	47.40	142.32	1,535.89	1,512.68	2,483.03	2,400.29	82.74	30.010		
8,950.00	7,548.93	8,200.00	7,565.09	93.10	47.40	133.68	1,535.89	1,512.68	2,506.80	2,424.00	82.80	30.276		
9,000.00	7,587.63	8,224.82	7,575.87	93.43	47.27	125.55	1,513.74	1,515.70	2,529.72	2,447.41	82.31	30.733		
9,050.00	7,624.85	8,250.00	7,585.85	93.71	47.14	118.36	1,490.79	1,518.49	2,551.77	2,469.92	81.85	31.175		
9,100.00	7,660.30	8,250.00	7,585.85	93.93	47.14	112.35	1,490.79	1,518.49	2,572.63	2,490.58	82.05	31.355		
9,150.00	7,693.72	8,274.04	7,594.46	94.10	47.01	106.89	1,468.48	1,520.89	2,592.18	2,510.48	81.70	31.727		
9,200.00	7,724.85	8,300.00	7,602.75	94.23	46.86	102.17	1,443.99	1,523.19	2,610.34	2,528.99	81.35	32.088		
9,250.00	7,753.45	8,300.00	7,602.75	94.30	46.86	98.33	1,443.99	1,523.19	2,626.87	2,545.17	81.70	32.151		
9,300.00	7,779.31	8,326.34	7,610.06	94.34	46.71	94.91	1,418.77	1,525.20	2,641.67	2,560.23	81.44	32.437		
9,350.00	7,802.23	8,350.00	7,615.67	94.33	46.58	92.08	1,395.84	1,526.74	2,654.71	2,573.42	81.29	32.657		
9,400.00	7,822.03	8,350.00	7,615.67	94.28	46.58	89.85	1,395.84	1,526.74	2,665.89	2,584.06	81.83	32.580		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,380.60	7,621.57	94.20	46.40	87.98	1,365.85	1,528.33	2,674.95	2,593.35	81.60	32.781		
9,500.00	7,851.72	8,400.00	7,624.51	94.10	46.28	86.59	1,346.70	1,529.11	2,682.04	2,600.32	81.72	32.818		
9,550.00	7,861.37	8,417.41	7,626.61	93.96	46.18	85.61	1,329.42	1,529.66	2,687.04	2,605.08	81.96	32.784		
9,600.00	7,867.46	8,435.90	7,628.30	93.81	46.07	85.03	1,311.01	1,530.08	2,689.92	2,607.70	82.22	32.716		
9,650.00	7,869.94	8,450.00	7,629.19	93.64	45.98	84.84	1,296.95	1,530.29	2,690.67	2,608.01	82.65	32.553		
9,659.14	7,870.00	8,450.00	7,629.19	93.60	45.98	84.84	1,296.95	1,530.29	2,690.59	2,607.77	82.81	32.489		
9,700.00	7,870.00	8,481.00	7,630.00	93.46	45.79	84.86	1,265.96	1,530.42	2,690.19	2,607.56	82.63	32.557		
9,719.92	7,870.00	8,482.79	7,630.00	93.39	45.78	84.86	1,267.74	1,530.42	2,690.10	2,607.08	83.02	32.404		
9,800.00	7,870.00	8,559.30	7,630.00	93.11	45.34	84.86	1,187.66	1,530.15	2,690.10	2,607.95	82.15	32.747		
9,900.00	7,870.00	8,659.30	7,630.00	92.77	44.78	84.86	1,087.66	1,529.81	2,690.10	2,608.95	81.16	33.147		
10,000.00	7,870.00	8,759.30	7,630.00	92.46	44.26	84.86	987.66	1,529.47	2,690.10	2,609.80	80.31	33.497		
10,100.00	7,870.00	8,859.30	7,630.00	92.16	43.77	84.86	887.66	1,529.14	2,690.10	2,610.50	79.61	33.792		
10,200.00	7,870.00	8,959.30	7,630.00	91.87	43.30	84.86	787.66	1,528.80	2,690.11	2,611.04	79.06	34.026		
10,300.00	7,870.00	9,059.30	7,630.00	91.60	42.87	84.86	687.66	1,528.46	2,690.11	2,611.44	78.67	34.195		
10,400.00	7,870.00	9,159.30	7,630.00	91.34	42.46	84.86	587.66	1,528.12	2,690.11	2,611.67	78.43	34.297		
10,500.00	7,870.00	9,259.30	7,630.00	91.11	42.08	84.86	487.66	1,527.78	2,690.11	2,611.75	78.36	34.331		
10,600.00	7,870.00	9,359.30	7,630.00	90.88	41.73	84.86	387.66	1,527.44	2,690.11	2,611.67	78.44	34.294		
10,700.00	7,870.00	9,459.30	7,630.00	90.67	41.39	84.86	287.66	1,527.11	2,690.11	2,611.43	78.69	34.188		
10,800.00	7,870.00	9,559.30	7,630.00	90.48	41.08	84.86	187.67	1,526.77	2,690.11	2,611.03	79.09	34.015		
10,900.00	7,870.00	9,659.30	7,630.00	90.31	40.79	84.86	87.67	1,526.43	2,690.11	2,610.47	79.64	33.779		
11,000.00	7,870.00	9,759.30	7,630.00	90.15	40.52	84.86	-12.33	1,526.09	2,690.11	2,609.77	80.34	33.482		
11,100.00	7,870.00	9,859.30	7,630.00	90.00	40.26	84.86	-112.33	1,525.75	2,690.12	2,608.92	81.20	33.131		
11,200.00	7,870.00	9,959.30	7,630.00	89.88	40.03	84.86	-212.33	1,525.41	2,690.12	2,607.93	82.19	32.730		
11,300.00	7,870.00	10,059.30	7,630.00	89.77	39.84	84.86	-312.33	1,525.08	2,690.12	2,606.80	83.32	32.286		
11,400.00	7,870.00	10,159.30	7,630.00	89.68	40.52	84.86	-412.33	1,524.74	2,690.12	2,605.53	84.59	31.803		
11,500.00	7,870.00	10,259.30	7,630.00	89.60	41.52	84.86	-512.33	1,524.40	2,690.12	2,604.15	85.97	31.290		
11,600.00	7,870.00	10,359.30	7,630.00	89.55	42.55	84.86	-612.33	1,524.06	2,690.12	2,602.64	87.48	30.751		
11,700.00	7,870.00	10,459.30	7,630.00	89.52	43.62	84.86	-712.33	1,523.72	2,690.12	2,601.02	89.10	30.191		
11,800.00	7,870.00	10,559.30	7,630.00	89.50	44.72	84.86	-812.33	1,523.38	2,690.12	2,599.29	90.83	29.617		
11,900.00	7,870.00	10,659.30	7,630.00	89.51	45.85	84.86	-912.33	1,523.04	2,690.12	2,597.46	92.66	29.032		
12,000.00	7,870.00	10,759.30	7,630.00	89.54	47.02	84.86	-1,012.33	1,522.71	2,690.13	2,595.54	94.59	28.441		
12,100.00	7,870.00	10,859.30	7,630.00	89.59	48.21	84.86	-1,112.33	1,522.37	2,690.13	2,593.53	96.60	27.848		
12,200.00	7,870.00	10,959.30	7,630.00	89.66	49.43	84.86	-1,212.33	1,522.03	2,690.13	2,591.43	98.70	27.256		
12,300.00	7,870.00	11,059.30	7,630.00	89.77	50.68	84.86	-1,312.33	1,521.69	2,690.13	2,589.25	100.88	26.668		
12,400.00	7,870.00	11,159.30	7,630.00	89.89	51.96	84.86	-1,412.33	1,521.35	2,690.13	2,587.00	103.13	26.086		
12,500.00	7,870.00	11,259.30	7,630.00	90.05	53.25	84.86	-1,512.33	1,521.01	2,690.13	2,584.68	105.45	25.512		
12,600.00	7,870.00	11,359.30	7,630.00	90.24	54.57	84.86	-1,612.32	1,520.68	2,690.13	2,582.30	107.83	24.947		
12,700.00	7,870.00	11,459.30	7,630.00	90.46	55.92	84.86	-1,712.32	1,520.34	2,690.13	2,579.85	110.28	24.394		
12,800.00	7,870.00	11,559.30	7,630.00	90.71	57.28	84.86	-1,812.32	1,520.00	2,690.13	2,577.35	112.78	23.853		
12,900.00	7,870.00	11,659.30	7,630.00	90.99	58.66	84.86	-1,912.32	1,519.66	2,690.14	2,574.80	115.34	23.324		
13,000.00	7,870.00	11,759.30	7,630.00	91.32	60.05	84.86	-2,012.32	1,519.32	2,690.14	2,572.19	117.94	22.809		
13,100.00	7,870.00	11,859.30	7,630.00	91.68	61.46	84.86	-2,112.32	1,518.98	2,690.14	2,569.54	120.59	22.307		
13,200.00	7,870.00	11,959.30	7,630.00	92.08	62.89	84.86	-2,212.32	1,518.65	2,690.14	2,566.85	123.29	21.820		
13,300.00	7,870.00	12,059.30	7,630.00	92.52	64.34	84.86	-2,312.32	1,518.31	2,690.14	2,564.12	126.02	21.346		
13,400.00	7,870.00	12,159.30	7,630.00	93.00	65.79	84.86	-2,412.32	1,517.97	2,690.14	2,561.34	128.80	20.887		
13,500.00	7,870.00	12,259.30	7,630.00	93.53	67.26	84.86	-2,512.32	1,517.63	2,690.14	2,558.54	131.61	20.441		
13,600.00	7,870.00	12,359.30	7,630.00	94.10	68.75	84.86	-2,612.32	1,517.29	2,690.14	2,555.69	134.45	20.009		
13,700.00	7,870.00	12,459.30	7,630.00	94.72	70.24	84.86	-2,712.32	1,516.95	2,690.14	2,552.82	137.32	19.590		
13,800.00	7,870.00	12,559.30	7,630.00	95.38	71.75	84.86	-2,812.32	1,516.61	2,690.15	2,549.92	140.23	19.184		
13,900.00	7,870.00	12,659.30	7,630.00	96.09	73.26	84.86	-2,912.32	1,516.28	2,690.15	2,546.99	143.16	18.791		
14,000.00	7,870.00	12,759.30	7,630.00	96.84	74.79	84.86	-3,012.32	1,515.94	2,690.15	2,544.03	146.12	18.411		
14,100.00	7,870.00	12,859.30	7,630.00	97.64	76.32	84.86	-3,112.32	1,515.60	2,690.15	2,541.05	149.10	18.043		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	12,959.30	7,630.00	98.48	77.86	84.86	-3,212.32	1,515.26	2,690.15	2,538.05	152.10	17.686		
14,300.00	7,870.00	13,059.30	7,630.00	99.37	79.42	84.86	-3,312.31	1,514.92	2,690.15	2,535.02	155.13	17.341		
14,400.00	7,870.00	13,159.30	7,630.00	100.30	80.98	84.86	-3,412.31	1,514.58	2,690.15	2,531.98	158.18	17.007		
14,500.00	7,870.00	13,259.30	7,630.00	101.26	82.54	84.86	-3,512.31	1,514.25	2,690.15	2,528.91	161.24	16.684		
14,600.00	7,870.00	13,359.30	7,630.00	102.27	84.12	84.86	-3,612.31	1,513.91	2,690.15	2,525.83	164.33	16.371		
14,700.00	7,870.00	13,459.30	7,630.00	103.31	85.70	84.86	-3,712.31	1,513.57	2,690.15	2,522.73	167.43	16.067		
14,800.00	7,870.00	13,559.30	7,630.00	104.38	87.29	84.86	-3,812.31	1,513.23	2,690.16	2,519.61	170.55	15.774		
14,900.00	7,870.00	13,659.30	7,630.00	105.49	88.88	84.86	-3,912.31	1,512.89	2,690.16	2,516.48	173.68	15.489		
15,000.00	7,870.00	13,759.30	7,630.00	106.63	90.48	84.86	-4,012.31	1,512.55	2,690.16	2,513.33	176.83	15.213		
15,100.00	7,870.00	13,859.30	7,630.00	107.80	92.09	84.86	-4,112.31	1,512.22	2,690.16	2,510.17	179.99	14.946		
15,200.00	7,870.00	13,959.30	7,630.00	109.00	93.70	84.86	-4,212.31	1,511.88	2,690.16	2,506.99	183.17	14.687		
15,300.00	7,870.00	14,059.30	7,630.00	110.22	95.31	84.86	-4,312.31	1,511.54	2,690.16	2,503.81	186.35	14.436		
15,400.00	7,870.00	14,159.30	7,630.00	111.47	96.93	84.86	-4,412.31	1,511.20	2,690.16	2,500.61	189.55	14.192		
15,500.00	7,870.00	14,259.30	7,630.00	112.74	98.56	84.86	-4,512.31	1,510.86	2,690.16	2,497.40	192.77	13.956		
15,600.00	7,870.00	14,359.30	7,630.00	114.03	100.19	84.86	-4,612.31	1,510.52	2,690.16	2,494.18	195.99	13.726		
15,700.00	7,870.00	14,459.30	7,630.00	115.34	101.82	84.86	-4,712.31	1,510.18	2,690.17	2,490.95	199.22	13.504		
15,800.00	7,870.00	14,559.30	7,630.00	116.68	103.46	84.86	-4,812.31	1,509.85	2,690.17	2,487.71	202.46	13.287		
15,900.00	7,870.00	14,659.30	7,630.00	118.02	105.10	84.86	-4,912.31	1,509.51	2,690.17	2,484.46	205.71	13.077		
16,000.00	7,870.00	14,759.30	7,630.00	119.39	106.75	84.86	-5,012.31	1,509.17	2,690.17	2,481.20	208.97	12.873		
16,100.00	7,870.00	14,859.30	7,630.00	120.77	108.40	84.86	-5,112.30	1,508.83	2,690.17	2,477.93	212.24	12.675		
16,200.00	7,870.00	14,959.30	7,630.00	122.17	110.05	84.86	-5,212.30	1,508.49	2,690.17	2,474.66	215.51	12.483		
16,300.00	7,870.00	15,059.30	7,630.00	123.58	111.71	84.86	-5,312.30	1,508.15	2,690.17	2,471.37	218.80	12.295		
16,400.00	7,870.00	15,159.30	7,630.00	125.00	113.37	84.86	-5,412.30	1,507.82	2,690.17	2,468.08	222.09	12.113		
16,500.00	7,870.00	15,259.30	7,630.00	126.43	115.03	84.86	-5,512.30	1,507.48	2,690.17	2,464.79	225.39	11.936		
16,600.00	7,870.00	15,359.30	7,630.00	127.88	116.69	84.86	-5,612.30	1,507.14	2,690.18	2,461.48	228.69	11.763		
16,700.00	7,870.00	15,459.30	7,630.00	129.34	118.36	84.86	-5,712.30	1,506.80	2,690.18	2,458.17	232.00	11.595		
16,800.00	7,870.00	15,559.30	7,630.00	130.81	120.03	84.86	-5,812.30	1,506.46	2,690.18	2,454.86	235.32	11.432		
16,900.00	7,870.00	15,659.30	7,630.00	132.28	121.70	84.86	-5,912.30	1,506.12	2,690.18	2,451.54	238.64	11.273		
17,000.00	7,870.00	15,759.30	7,630.00	133.77	123.38	84.86	-6,012.30	1,505.79	2,690.18	2,448.21	241.97	11.118		
17,100.00	7,870.00	15,859.30	7,630.00	135.27	125.06	84.86	-6,112.30	1,505.45	2,690.18	2,444.88	245.31	10.967		
17,200.00	7,870.00	15,959.30	7,630.00	136.77	126.74	84.86	-6,212.30	1,505.11	2,690.18	2,441.54	248.64	10.819		
17,300.00	7,870.00	16,059.30	7,630.00	138.28	128.42	84.86	-6,312.30	1,504.77	2,690.18	2,438.19	251.99	10.676		
17,400.00	7,870.00	16,159.30	7,630.00	139.80	130.10	84.86	-6,412.30	1,504.43	2,690.18	2,434.85	255.34	10.536		
17,500.00	7,870.00	16,259.30	7,630.00	141.33	131.79	84.86	-6,512.30	1,504.09	2,690.19	2,431.49	258.69	10.399		
17,600.00	7,870.00	16,359.30	7,630.00	142.86	133.48	84.86	-6,612.30	1,503.75	2,690.19	2,428.14	262.05	10.266		
17,700.00	7,870.00	16,459.30	7,630.00	144.40	135.17	84.86	-6,712.30	1,503.42	2,690.19	2,424.77	265.41	10.136		
17,800.00	7,870.00	16,559.30	7,630.00	145.95	136.86	84.86	-6,812.29	1,503.08	2,690.19	2,421.41	268.78	10.009		
17,900.00	7,870.00	16,659.30	7,630.00	147.50	138.55	84.86	-6,912.29	1,502.74	2,690.19	2,418.04	272.15	9.885		
18,000.00	7,870.00	16,759.30	7,630.00	149.06	140.25	84.86	-7,012.29	1,502.40	2,690.19	2,414.67	275.52	9.764		
18,100.00	7,870.00	16,859.30	7,630.00	150.63	141.95	84.86	-7,112.29	1,502.06	2,690.19	2,411.29	278.90	9.646		
18,200.00	7,870.00	16,959.30	7,630.00	152.20	143.65	84.86	-7,212.29	1,501.72	2,690.19	2,407.91	282.28	9.530		
18,300.00	7,870.00	17,059.30	7,630.00	153.77	145.35	84.86	-7,312.29	1,501.39	2,690.19	2,404.52	285.67	9.417		
18,400.00	7,870.00	17,159.30	7,630.00	155.35	147.05	84.86	-7,412.29	1,501.05	2,690.20	2,401.14	289.06	9.307		
18,500.00	7,870.00	17,259.30	7,630.00	156.93	148.75	84.86	-7,512.29	1,500.71	2,690.20	2,397.75	292.45	9.199		
18,600.00	7,870.00	17,359.30	7,630.00	158.52	150.46	84.86	-7,612.29	1,500.37	2,690.20	2,394.35	295.84	9.093		
18,700.00	7,870.00	17,459.30	7,630.00	160.11	152.16	84.86	-7,712.29	1,500.03	2,690.20	2,390.96	299.24	8.990		
18,800.00	7,870.00	17,559.30	7,630.00	161.71	153.87	84.86	-7,812.29	1,499.69	2,690.20	2,387.56	302.64	8.889		
18,900.00	7,870.00	17,659.30	7,630.00	163.31	155.58	84.86	-7,912.29	1,499.36	2,690.20	2,384.16	306.04	8.790		
19,000.00	7,870.00	17,759.30	7,630.00	164.91	157.29	84.86	-8,012.29	1,499.02	2,690.20	2,380.75	309.45	8.693		
19,100.00	7,870.00	17,859.30	7,630.00	166.52	159.00	84.86	-8,112.29	1,498.68	2,690.20	2,377.34	312.86	8.599		
19,200.00	7,870.00	17,959.30	7,630.00	168.13	160.71	84.86	-8,212.29	1,498.34	2,690.20	2,373.93	316.27	8.506		
19,300.00	7,870.00	18,059.30	7,630.00	169.75	162.42	84.86	-8,312.29	1,498.00	2,690.20	2,370.52	319.68	8.415		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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-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
19,383.51	7,870.00	18,142.81	7,630.00	171.10	163.86	84.86	-8,395.79	1,497.72	2,690.21	2,367.67	322.53	8.341 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	48.56	1,788.18	2,025.47	8,180.79					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	48.56	1,788.18	2,025.47	8,086.47	8,007.13	79.34	101.923		
200.00	200.00	16,236.00	7,569.74	0.49	158.98	48.56	1,788.18	2,025.47	7,992.29	7,912.79	79.50	100.527		
300.00	300.00	16,236.00	7,569.74	0.85	158.98	48.56	1,788.18	2,025.47	7,898.25	7,818.56	79.69	99.118		
400.00	400.00	16,236.00	7,569.74	1.21	158.98	48.56	1,788.18	2,025.47	7,804.36	7,724.47	79.88	97.696		
500.00	500.00	16,236.00	7,569.74	1.57	158.98	48.56	1,788.18	2,025.47	7,710.62	7,630.52	80.10	96.262		
600.00	600.00	16,236.00	7,569.74	1.93	158.98	48.56	1,788.18	2,025.47	7,617.04	7,536.71	80.33	94.817		
700.00	699.98	16,236.00	7,569.74	2.28	158.98	-16.78	1,788.18	2,025.47	7,523.04	7,442.46	80.58	93.358		
800.00	799.84	16,236.00	7,569.74	2.64	158.98	-18.62	1,788.18	2,025.47	7,428.09	7,347.26	80.83	91.897		
900.00	899.45	16,236.00	7,569.74	3.00	158.98	-20.89	1,788.18	2,025.47	7,332.27	7,251.21	81.06	90.455		
1,000.00	998.70	16,236.00	7,569.74	3.37	158.98	-23.73	1,788.18	2,025.47	7,235.66	7,154.39	81.27	89.033		
1,100.00	1,097.47	16,236.00	7,569.74	3.76	158.98	-27.37	1,788.18	2,025.47	7,138.36	7,056.90	81.46	87.634		
1,200.00	1,195.62	16,236.00	7,569.74	4.18	158.98	-32.15	1,788.18	2,025.47	7,040.45	6,958.83	81.62	86.260		
1,300.00	1,293.06	16,236.00	7,569.74	4.63	158.98	-38.58	1,788.18	2,025.47	6,942.03	6,860.27	81.75	84.913		
1,400.00	1,389.64	16,236.00	7,569.74	5.11	158.98	-47.41	1,788.18	2,025.47	6,843.20	6,761.34	81.86	83.594		
1,500.00	1,485.27	16,236.00	7,569.74	5.63	158.98	-59.52	1,788.18	2,025.47	6,744.06	6,662.12	81.94	82.305		
1,600.00	1,579.82	16,236.00	7,569.74	6.20	158.98	-75.31	1,788.18	2,025.47	6,644.74	6,562.75	81.99	81.047		
1,700.00	1,673.17	16,236.00	7,569.74	6.83	158.98	-93.42	1,788.18	2,025.47	6,545.33	6,463.33	82.00	79.820		
1,800.00	1,765.21	16,236.00	7,569.74	7.51	158.98	-110.63	1,788.18	2,025.47	6,445.97	6,363.98	81.98	78.626		
1,900.00	1,855.84	16,236.00	7,569.74	8.24	158.98	-124.53	1,788.18	2,025.47	6,346.77	6,264.84	81.93	77.464		
2,000.00	1,944.94	16,236.00	7,569.74	9.05	158.98	-134.82	1,788.18	2,025.47	6,247.87	6,166.02	81.85	76.334		
2,100.00	2,032.39	16,236.00	7,569.74	9.91	158.98	-142.29	1,788.18	2,025.47	6,149.41	6,067.67	81.74	75.235		
2,200.00	2,118.11	16,236.00	7,569.74	10.85	158.98	-147.77	1,788.18	2,025.47	6,051.53	5,969.93	81.59	74.168		
2,300.00	2,201.97	16,236.00	7,569.74	11.85	158.98	-151.90	1,788.18	2,025.47	5,954.37	5,872.95	81.42	73.129		
2,400.00	2,283.88	16,236.00	7,569.74	12.93	158.98	-155.07	1,788.18	2,025.47	5,858.11	5,776.88	81.23	72.118		
2,429.47	2,307.63	16,236.00	7,569.74	13.26	158.98	-155.87	1,788.18	2,025.47	5,829.94	5,748.77	81.17	71.828		
2,500.00	2,364.26	16,236.00	7,569.74	14.06	158.98	-155.87	1,788.18	2,025.47	5,762.66	5,681.63	81.03	71.120		
2,600.00	2,444.56	16,236.00	7,569.74	15.22	158.98	-155.87	1,788.18	2,025.47	5,667.41	5,586.56	80.85	70.102		
2,700.00	2,524.85	16,236.00	7,569.74	16.39	158.98	-155.87	1,788.18	2,025.47	5,572.32	5,491.64	80.67	69.072		
2,800.00	2,605.14	16,236.00	7,569.74	17.57	158.98	-155.87	1,788.18	2,025.47	5,477.41	5,396.89	80.51	68.030		
2,900.00	2,685.43	16,236.00	7,569.74	18.76	158.98	-155.87	1,788.18	2,025.47	5,382.68	5,302.31	80.37	66.976		
3,000.00	2,765.73	16,236.00	7,569.74	19.96	158.98	-155.87	1,788.18	2,025.47	5,288.14	5,207.91	80.23	65.911		
3,100.00	2,846.02	16,236.00	7,569.74	21.16	158.98	-155.87	1,788.18	2,025.47	5,193.81	5,113.70	80.11	64.835		
3,200.00	2,926.31	16,236.00	7,569.74	22.37	158.98	-155.87	1,788.18	2,025.47	5,099.70	5,019.70	80.00	63.749		
3,300.00	3,006.60	16,236.00	7,569.74	23.59	158.98	-155.87	1,788.18	2,025.47	5,005.81	4,925.91	79.90	62.653		
3,400.00	3,086.90	16,236.00	7,569.74	24.81	158.98	-155.87	1,788.18	2,025.47	4,912.17	4,832.35	79.81	61.546		
3,500.00	3,167.19	16,236.00	7,569.74	26.03	158.98	-155.87	1,788.18	2,025.47	4,818.78	4,739.04	79.74	60.430		
3,600.00	3,247.48	16,236.00	7,569.74	27.25	158.98	-155.87	1,788.18	2,025.47	4,725.66	4,645.97	79.69	59.303		
3,700.00	3,327.77	16,236.00	7,569.74	28.48	158.98	-155.87	1,788.18	2,025.47	4,632.83	4,553.18	79.65	58.166		
3,800.00	3,408.07	16,236.00	7,569.74	29.71	158.98	-155.87	1,788.18	2,025.47	4,540.30	4,460.67	79.63	57.019		
3,900.00	3,488.36	16,236.00	7,569.74	30.94	158.98	-155.87	1,788.18	2,025.47	4,448.10	4,368.47	79.63	55.861		
4,000.00	3,568.65	16,236.00	7,569.74	32.17	158.98	-155.87	1,788.18	2,025.47	4,356.24	4,276.59	79.65	54.692		
4,100.00	3,648.95	16,236.00	7,569.74	33.41	158.98	-155.87	1,788.18	2,025.47	4,264.74	4,185.05	79.70	53.511		
4,200.00	3,729.24	16,236.00	7,569.74	34.64	158.98	-155.87	1,788.18	2,025.47	4,173.64	4,093.87	79.77	52.318		
4,300.00	3,809.53	16,236.00	7,569.74	35.88	158.98	-155.87	1,788.18	2,025.47	4,082.95	4,003.07	79.88	51.112		
4,400.00	3,889.82	16,236.00	7,569.74	37.12	158.98	-155.87	1,788.18	2,025.47	3,992.71	3,912.69	80.03	49.893		
4,500.00	3,970.12	16,236.00	7,569.74	38.36	158.98	-155.87	1,788.18	2,025.47	3,902.95	3,822.74	80.21	48.660		
4,600.00	4,050.41	16,236.00	7,569.74	39.60	158.98	-155.87	1,788.18	2,025.47	3,813.69	3,733.25	80.44	47.411		
4,700.00	4,130.70	16,236.00	7,569.74	40.84	158.98	-155.87	1,788.18	2,025.47	3,724.98	3,644.26	80.72	46.146		
4,800.00	4,210.99	16,236.00	7,569.74	42.08	158.98	-155.87	1,788.18	2,025.47	3,636.85	3,555.79	81.06	44.864		
4,900.00	4,291.29	16,236.00	7,569.74	43.32	158.98	-155.87	1,788.18	2,025.47	3,549.36	3,467.88	81.47	43.565		
5,000.00	4,371.58	16,236.00	7,569.74	44.57	158.98	-155.87	1,788.18	2,025.47	3,462.54	3,380.58	81.96	42.248		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	16,236.00	7,569.74	45.81	158.98	-155.87	1,788.18	2,025.47	3,376.45	3,293.92	82.53	40.912		
5,200.00	4,532.16	16,236.00	7,569.74	47.05	158.98	-155.87	1,788.18	2,025.47	3,291.15	3,207.95	83.20	39.557		
5,300.00	4,612.46	16,236.00	7,569.74	48.30	158.98	-155.87	1,788.18	2,025.47	3,206.69	3,122.71	83.98	38.183		
5,400.00	4,692.75	16,236.00	7,569.74	49.54	158.98	-155.87	1,788.18	2,025.47	3,123.16	3,038.27	84.89	36.792		
5,500.00	4,773.04	16,236.00	7,569.74	50.79	158.98	-155.87	1,788.18	2,025.47	3,040.62	2,954.68	85.94	35.382		
5,600.00	4,853.34	16,236.00	7,569.74	52.03	158.98	-155.87	1,788.18	2,025.47	2,959.15	2,872.01	87.14	33.958		
5,700.00	4,933.63	16,236.00	7,569.74	53.28	158.98	-155.87	1,788.18	2,025.47	2,878.86	2,790.33	88.52	32.520		
5,800.00	5,013.92	16,236.00	7,569.74	54.53	158.98	-155.87	1,788.18	2,025.47	2,799.83	2,709.73	90.10	31.073		
5,900.00	5,094.21	16,236.00	7,569.74	55.77	158.98	-155.87	1,788.18	2,025.47	2,722.18	2,630.29	91.90	29.621		
6,000.00	5,174.51	16,236.00	7,569.74	57.02	158.98	-155.87	1,788.18	2,025.47	2,646.04	2,552.11	93.93	28.169		
6,100.00	5,254.80	16,236.00	7,569.74	58.27	158.98	-155.87	1,788.18	2,025.47	2,571.53	2,475.30	96.23	26.724		
6,200.00	5,335.09	16,236.00	7,569.74	59.52	158.98	-155.87	1,788.18	2,025.47	2,498.80	2,400.00	98.80	25.292		
6,300.00	5,415.38	16,236.00	7,569.74	60.76	158.98	-155.87	1,788.18	2,025.47	2,428.01	2,326.34	101.67	23.882		
6,400.00	5,495.68	16,236.00	7,569.74	62.01	158.98	-155.87	1,788.18	2,025.47	2,359.34	2,254.48	104.85	22.501		
6,500.00	5,575.97	16,236.00	7,569.74	63.26	158.98	-155.87	1,788.18	2,025.47	2,292.97	2,184.60	108.37	21.159		
6,600.00	5,656.26	16,236.00	7,569.74	64.51	158.98	-155.87	1,788.18	2,025.47	2,229.11	2,116.89	112.22	19.864		
6,700.00	5,736.55	16,236.00	7,569.74	65.76	158.98	-155.87	1,788.18	2,025.47	2,167.99	2,051.58	116.41	18.624		
6,800.00	5,816.85	16,236.00	7,569.74	67.01	158.98	-155.87	1,788.18	2,025.47	2,109.84	1,988.90	120.94	17.446		
6,900.00	5,897.14	16,236.00	7,569.74	68.26	158.98	-155.87	1,788.18	2,025.47	2,054.91	1,929.12	125.79	16.336		
7,000.00	5,977.43	16,236.00	7,569.74	69.50	158.98	-155.87	1,788.18	2,025.47	2,003.47	1,872.53	130.94	15.301		
7,100.00	6,057.72	16,236.00	7,569.74	70.75	158.98	-155.87	1,788.18	2,025.47	1,955.79	1,819.43	136.36	14.343		
7,200.00	6,138.02	16,236.00	7,569.74	72.00	158.98	-155.87	1,788.18	2,025.47	1,912.16	1,770.16	142.00	13.466		
7,300.00	6,218.31	16,236.00	7,569.74	73.25	158.98	-155.87	1,788.18	2,025.47	1,872.86	1,725.05	147.81	12.671		
7,400.00	6,298.60	16,236.00	7,569.74	74.50	158.98	-155.87	1,788.18	2,025.47	1,838.16	1,684.44	153.72	11.958		
7,500.00	6,378.90	16,236.00	7,569.74	75.75	158.98	-155.87	1,788.18	2,025.47	1,808.33	1,648.69	159.65	11.327		
7,600.00	6,459.19	16,236.00	7,569.74	77.00	158.98	-155.87	1,788.18	2,025.47	1,783.62	1,618.11	165.51	10.776		
7,700.00	6,539.48	16,236.00	7,569.74	78.25	158.98	-155.87	1,788.18	2,025.47	1,764.24	1,593.01	171.23	10.303		
7,800.00	6,619.77	16,236.00	7,569.74	79.50	158.98	-155.87	1,788.18	2,025.47	1,750.37	1,573.66	176.70	9.906		
7,900.00	6,700.07	16,236.00	7,569.74	80.75	158.98	-155.87	1,788.18	2,025.47	1,742.13	1,560.27	181.86	9.580		
7,993.82	6,775.40	16,236.00	7,569.74	81.93	158.98	-155.87	1,788.18	2,025.47	1,739.60	1,553.27	186.33	9.336 CC		
8,000.00	6,780.36	16,236.00	7,569.74	82.00	158.98	-155.87	1,788.18	2,025.47	1,739.61	1,553.00	186.61	9.322		
8,100.00	6,860.65	16,236.00	7,569.74	83.25	158.98	-155.87	1,788.18	2,025.47	1,742.84	1,551.94	190.90	9.130 ES		
8,200.00	6,940.94	16,233.59	7,569.75	84.50	158.94	-155.80	1,790.59	2,025.52	1,751.78	1,557.08	194.70	8.997		
8,300.00	7,021.24	16,205.91	7,569.90	85.76	158.46	-154.92	1,818.26	2,026.01	1,766.09	1,567.87	198.22	8.910		
8,400.00	7,101.53	16,178.05	7,570.04	87.01	157.97	-154.04	1,846.12	2,026.51	1,785.46	1,584.22	201.24	8.872 SF		
8,500.00	7,181.82	16,148.61	7,570.15	88.26	157.46	-153.11	1,875.56	2,027.04	1,809.72	1,605.94	203.78	8.881		
8,605.60	7,266.61	16,117.95	7,570.19	89.58	156.93	-152.15	1,906.21	2,027.60	1,840.42	1,634.49	205.93	8.937		
8,650.00	7,302.60	16,106.95	7,570.18	90.13	156.74	-159.15	1,917.21	2,027.80	1,855.00	1,648.31	206.69	8.975		
8,700.00	7,343.78	16,098.88	7,570.17	90.72	156.60	-167.88	1,925.28	2,027.95	1,872.82	1,665.36	207.46	9.027		
8,750.00	7,385.32	16,095.50	7,570.16	91.28	156.54	-177.28	1,928.66	2,028.02	1,892.01	1,683.87	208.13	9.090		
8,800.00	7,426.92	16,096.56	7,570.17	91.81	156.56	172.97	1,927.60	2,028.00	1,912.40	1,703.70	208.70	9.163		
8,850.00	7,468.27	16,102.10	7,570.18	92.29	156.65	163.18	1,922.06	2,027.89	1,933.79	1,724.63	209.17	9.245		
8,900.00	7,509.04	16,112.13	7,570.19	92.72	156.83	153.65	1,912.02	2,027.71	1,955.97	1,746.43	209.54	9.335		
8,950.00	7,548.93	16,126.48	7,570.19	93.10	157.08	144.60	1,897.68	2,027.44	1,978.66	1,768.83	209.83	9.430		
9,000.00	7,587.63	16,144.98	7,570.16	93.43	157.40	136.16	1,879.18	2,027.11	2,001.60	1,791.55	210.05	9.529		
9,050.00	7,624.85	16,167.48	7,570.09	93.71	157.79	128.41	1,856.69	2,026.70	2,024.49	1,814.28	210.21	9.631		
9,100.00	7,660.30	16,193.47	7,569.96	93.93	158.24	121.37	1,830.70	2,026.23	2,047.04	1,836.70	210.33	9.732		
9,150.00	7,693.72	16,222.76	7,569.81	94.10	158.75	115.04	1,801.42	2,025.71	2,068.96	1,858.52	210.44	9.832		
9,200.00	7,724.85	16,236.00	7,569.74	94.23	158.98	109.79	1,788.18	2,025.47	2,090.04	1,879.34	210.71	9.919		
9,250.00	7,753.45	16,236.00	7,569.74	94.30	158.98	105.40	1,788.18	2,025.47	2,110.47	1,899.37	211.09	9.998		
9,300.00	7,779.31	16,236.00	7,569.74	94.34	158.98	101.53	1,788.18	2,025.47	2,130.14	1,918.67	211.47	10.073		
9,350.00	7,802.23	16,236.00	7,569.74	94.33	158.98	98.15	1,788.18	2,025.47	2,148.93	1,937.10	211.83	10.145		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	16,236.00	7,569.74	94.28	158.98	95.20	1,788.18	2,025.47	2,166.71	1,954.54	212.17	10.212		
9,450.00	7,838.57	16,236.00	7,569.74	94.20	158.98	92.67	1,788.18	2,025.47	2,183.39	1,970.89	212.50	10.275		
9,500.00	7,851.72	16,236.00	7,569.74	94.10	158.98	90.53	1,788.18	2,025.47	2,198.86	1,986.05	212.81	10.332		
9,550.00	7,861.37	16,236.00	7,569.74	93.96	158.98	88.76	1,788.18	2,025.47	2,213.03	1,999.92	213.11	10.384		
9,600.00	7,867.46	16,236.00	7,569.74	93.81	158.98	87.35	1,788.18	2,025.47	2,225.82	2,012.43	213.39	10.431		
9,650.00	7,869.94	16,236.00	7,569.74	93.64	158.98	86.28	1,788.18	2,025.47	2,237.15	2,023.50	213.65	10.471		
9,659.14	7,870.00	16,236.00	7,569.74	93.60	158.98	86.12	1,788.18	2,025.47	2,239.06	2,025.37	213.69	10.478		
9,700.00	7,870.00	16,236.00	7,569.74	93.46	158.98	86.12	1,788.18	2,025.47	2,247.83	2,033.97	213.86	10.511		
9,800.00	7,870.00	16,236.00	7,569.74	93.11	158.98	86.12	1,788.18	2,025.47	2,272.27	2,058.20	214.07	10.615		
9,900.00	7,870.00	16,236.00	7,569.74	92.77	158.98	86.12	1,788.18	2,025.47	2,300.79	2,086.82	213.98	10.753		
10,000.00	7,870.00	16,236.00	7,569.74	92.46	158.98	86.12	1,788.18	2,025.47	2,333.26	2,119.65	213.61	10.923		
10,100.00	7,870.00	16,236.00	7,569.74	92.16	158.98	86.12	1,788.18	2,025.47	2,369.50	2,156.52	212.98	11.125		
10,200.00	7,870.00	16,236.00	7,569.74	91.87	158.98	86.12	1,788.18	2,025.47	2,409.35	2,197.23	212.12	11.358		
10,300.00	7,870.00	16,236.00	7,569.74	91.60	158.98	86.12	1,788.18	2,025.47	2,452.64	2,241.59	211.05	11.621		
10,400.00	7,870.00	16,236.00	7,569.74	91.34	158.98	86.12	1,788.18	2,025.47	2,499.17	2,289.38	209.79	11.913		
10,500.00	7,870.00	16,236.00	7,569.74	91.11	158.98	86.12	1,788.18	2,025.47	2,548.79	2,340.41	208.38	12.232		
10,600.00	7,870.00	16,236.00	7,569.74	90.88	158.98	86.12	1,788.18	2,025.47	2,601.30	2,394.47	206.83	12.577		
10,700.00	7,870.00	16,236.00	7,569.74	90.67	158.98	86.12	1,788.18	2,025.47	2,656.54	2,451.37	205.17	12.948		
10,800.00	7,870.00	16,236.00	7,569.74	90.48	158.98	86.12	1,788.18	2,025.47	2,714.34	2,510.92	203.41	13.344		
10,900.00	7,870.00	16,236.00	7,569.74	90.31	158.98	86.12	1,788.18	2,025.47	2,774.54	2,572.95	201.59	13.763		
11,000.00	7,870.00	16,236.00	7,569.74	90.15	158.98	86.12	1,788.18	2,025.47	2,836.99	2,637.27	199.72	14.205		
11,100.00	7,870.00	16,236.00	7,569.74	90.00	158.98	86.12	1,788.18	2,025.47	2,901.55	2,703.74	197.81	14.669		
11,200.00	7,870.00	16,236.00	7,569.74	89.88	158.98	86.12	1,788.18	2,025.47	2,968.07	2,772.19	195.87	15.153		
11,300.00	7,870.00	16,236.00	7,569.74	89.77	158.98	86.12	1,788.18	2,025.47	3,036.42	2,842.49	193.93	15.657		
11,400.00	7,870.00	16,236.00	7,569.74	89.68	158.98	86.12	1,788.18	2,025.47	3,106.49	2,914.51	191.99	16.181		
11,500.00	7,870.00	16,236.00	7,569.74	89.60	158.98	86.12	1,788.18	2,025.47	3,178.17	2,988.12	190.05	16.723		
11,600.00	7,870.00	16,236.00	7,569.74	89.55	158.98	86.12	1,788.18	2,025.47	3,251.34	3,063.21	188.13	17.282		
11,700.00	7,870.00	16,236.00	7,569.74	89.52	158.98	86.12	1,788.18	2,025.47	3,325.90	3,139.67	186.23	17.859		
11,800.00	7,870.00	16,236.00	7,569.74	89.50	158.98	86.12	1,788.18	2,025.47	3,401.77	3,217.41	184.36	18.451		
11,900.00	7,870.00	16,236.00	7,569.74	89.51	158.98	86.12	1,788.18	2,025.47	3,478.87	3,296.34	182.53	19.059		
12,000.00	7,870.00	16,236.00	7,569.74	89.54	158.98	86.12	1,788.18	2,025.47	3,557.10	3,376.38	180.72	19.682		
12,100.00	7,870.00	16,236.00	7,569.74	89.59	158.98	86.12	1,788.18	2,025.47	3,636.40	3,457.44	178.96	20.320		
12,200.00	7,870.00	16,236.00	7,569.74	89.66	158.98	86.12	1,788.18	2,025.47	3,716.70	3,539.46	177.23	20.971		
12,300.00	7,870.00	16,236.00	7,569.74	89.77	158.98	86.12	1,788.18	2,025.47	3,797.93	3,622.38	175.55	21.635		
12,400.00	7,870.00	16,236.00	7,569.74	89.89	158.98	86.12	1,788.18	2,025.47	3,880.04	3,706.14	173.91	22.311		
12,500.00	7,870.00	16,236.00	7,569.74	90.05	158.98	86.12	1,788.18	2,025.47	3,962.98	3,790.67	172.31	23.000		
12,600.00	7,870.00	16,236.00	7,569.74	90.24	158.98	86.12	1,788.18	2,025.47	4,046.68	3,875.93	170.75	23.700		
12,700.00	7,870.00	16,236.00	7,569.74	90.46	158.98	86.12	1,788.18	2,025.47	4,131.11	3,961.88	169.23	24.411		
12,800.00	7,870.00	16,236.00	7,569.74	90.71	158.98	86.12	1,788.18	2,025.47	4,216.22	4,048.46	167.76	25.133		
12,900.00	7,870.00	16,236.00	7,569.74	90.99	158.98	86.12	1,788.18	2,025.47	4,301.97	4,135.64	166.33	25.865		
13,000.00	7,870.00	16,236.00	7,569.74	91.32	158.98	86.12	1,788.18	2,025.47	4,388.32	4,223.39	164.94	26.606		
13,100.00	7,870.00	16,236.00	7,569.74	91.68	158.98	86.12	1,788.18	2,025.47	4,475.25	4,311.66	163.59	27.357		
13,200.00	7,870.00	16,236.00	7,569.74	92.08	158.98	86.12	1,788.18	2,025.47	4,562.71	4,400.43	162.28	28.117		
13,300.00	7,870.00	16,236.00	7,569.74	92.52	158.98	86.12	1,788.18	2,025.47	4,650.67	4,489.67	161.00	28.886		
13,400.00	7,870.00	16,236.00	7,569.74	93.00	158.98	86.12	1,788.18	2,025.47	4,739.11	4,579.34	159.77	29.662		
13,500.00	7,870.00	16,236.00	7,569.74	93.53	158.98	86.12	1,788.18	2,025.47	4,828.00	4,669.43	158.57	30.447		
13,600.00	7,870.00	16,236.00	7,569.74	94.10	158.98	86.12	1,788.18	2,025.47	4,917.32	4,759.91	157.41	31.239		
13,700.00	7,870.00	16,236.00	7,569.74	94.72	158.98	86.12	1,788.18	2,025.47	5,007.04	4,850.76	156.28	32.038		
13,800.00	7,870.00	16,236.00	7,569.74	95.38	158.98	86.12	1,788.18	2,025.47	5,097.15	4,941.96	155.19	32.845		
13,900.00	7,870.00	16,236.00	7,569.74	96.09	158.98	86.12	1,788.18	2,025.47	5,187.62	5,033.49	154.13	33.658		
14,000.00	7,870.00	16,236.00	7,569.74	96.84	158.98	86.12	1,788.18	2,025.47	5,278.43	5,125.33	153.10	34.477		
14,100.00	7,870.00	16,236.00	7,569.74	97.64	158.98	86.12	1,788.18	2,025.47	5,369.57	5,217.47	152.10	35.303		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	16,236.00	7,569.74	98.48	158.98	86.12	1,788.18	2,025.47	5,461.02	5,309.88	151.13	36.134		
14,300.00	7,870.00	16,236.00	7,569.74	99.37	158.98	86.12	1,788.18	2,025.47	5,552.76	5,402.57	150.19	36.971		
14,400.00	7,870.00	16,236.00	7,569.74	100.30	158.98	86.12	1,788.18	2,025.47	5,644.79	5,495.50	149.28	37.813		
14,500.00	7,870.00	16,236.00	7,569.74	101.26	158.98	86.12	1,788.18	2,025.47	5,737.08	5,588.68	148.40	38.661		
14,600.00	7,870.00	16,236.00	7,569.74	102.27	158.98	86.12	1,788.18	2,025.47	5,829.62	5,682.08	147.54	39.513		
14,700.00	7,870.00	16,236.00	7,569.74	103.31	158.98	86.12	1,788.18	2,025.47	5,922.41	5,775.71	146.70	40.370		
14,800.00	7,870.00	16,236.00	7,569.74	104.38	158.98	86.12	1,788.18	2,025.47	6,015.43	5,869.54	145.89	41.232		
14,900.00	7,870.00	16,236.00	7,569.74	105.49	158.98	86.12	1,788.18	2,025.47	6,108.67	5,963.56	145.11	42.098		
15,000.00	7,870.00	16,236.00	7,569.74	106.63	158.98	86.12	1,788.18	2,025.47	6,202.12	6,057.77	144.34	42.968		
15,100.00	7,870.00	16,236.00	7,569.74	107.80	158.98	86.12	1,788.18	2,025.47	6,295.77	6,152.17	143.60	43.842		
15,200.00	7,870.00	16,236.00	7,569.74	109.00	158.98	86.12	1,788.18	2,025.47	6,389.61	6,246.73	142.88	44.720		
15,300.00	7,870.00	16,236.00	7,569.74	110.22	158.98	86.12	1,788.18	2,025.47	6,483.64	6,341.46	142.18	45.602		
15,400.00	7,870.00	16,236.00	7,569.74	111.47	158.98	86.12	1,788.18	2,025.47	6,577.84	6,436.34	141.50	46.486		
15,500.00	7,870.00	16,236.00	7,569.74	112.74	158.98	86.12	1,788.18	2,025.47	6,672.22	6,531.38	140.84	47.375		
15,600.00	7,870.00	16,236.00	7,569.74	114.03	158.98	86.12	1,788.18	2,025.47	6,766.75	6,626.55	140.20	48.266		
15,700.00	7,870.00	16,236.00	7,569.74	115.34	158.98	86.12	1,788.18	2,025.47	6,861.44	6,721.87	139.57	49.161		
15,800.00	7,870.00	16,236.00	7,569.74	116.68	158.98	86.12	1,788.18	2,025.47	6,956.28	6,817.31	138.96	50.058		
15,900.00	7,870.00	16,236.00	7,569.74	118.02	158.98	86.12	1,788.18	2,025.47	7,051.26	6,912.89	138.37	50.958		
16,000.00	7,870.00	16,236.00	7,569.74	119.39	158.98	86.12	1,788.18	2,025.47	7,146.38	7,008.58	137.80	51.861		
16,100.00	7,870.00	16,236.00	7,569.74	120.77	158.98	86.12	1,788.18	2,025.47	7,241.63	7,104.39	137.24	52.766		
16,200.00	7,870.00	16,236.00	7,569.74	122.17	158.98	86.12	1,788.18	2,025.47	7,337.00	7,200.30	136.70	53.674		
16,300.00	7,870.00	16,236.00	7,569.74	123.58	158.98	86.12	1,788.18	2,025.47	7,432.50	7,296.33	136.17	54.584		
16,400.00	7,870.00	16,236.00	7,569.74	125.00	158.98	86.12	1,788.18	2,025.47	7,528.11	7,392.46	135.65	55.496		
16,500.00	7,870.00	16,236.00	7,569.74	126.43	158.98	86.12	1,788.18	2,025.47	7,623.84	7,488.69	135.15	56.410		
16,600.00	7,870.00	16,236.00	7,569.74	127.88	158.98	86.12	1,788.18	2,025.47	7,719.67	7,585.01	134.66	57.326		
16,700.00	7,870.00	16,236.00	7,569.74	129.34	158.98	86.12	1,788.18	2,025.47	7,815.61	7,681.42	134.19	58.244		
16,800.00	7,870.00	16,236.00	7,569.74	130.81	158.98	86.12	1,788.18	2,025.47	7,911.65	7,777.93	133.73	59.163		
16,900.00	7,870.00	16,236.00	7,569.74	132.28	158.98	86.12	1,788.18	2,025.47	8,007.79	7,874.51	133.28	60.085		
17,000.00	7,870.00	16,236.00	7,569.74	133.77	158.98	86.12	1,788.18	2,025.47	8,104.02	7,971.18	132.84	61.008		
17,100.00	7,870.00	16,236.00	7,569.74	135.27	158.98	86.12	1,788.18	2,025.47	8,200.34	8,067.93	132.41	61.932		
17,200.00	7,870.00	16,236.00	7,569.74	136.77	158.98	86.12	1,788.18	2,025.47	8,296.75	8,164.75	131.99	62.858		
17,300.00	7,870.00	16,236.00	7,569.74	138.28	158.98	86.12	1,788.18	2,025.47	8,393.24	8,261.65	131.59	63.785		
17,400.00	7,870.00	16,236.00	7,569.74	139.80	158.98	86.12	1,788.18	2,025.47	8,489.81	8,358.62	131.19	64.713		
17,500.00	7,870.00	16,236.00	7,569.74	141.33	158.98	86.12	1,788.18	2,025.47	8,586.46	8,455.66	130.81	65.642		
17,600.00	7,870.00	16,236.00	7,569.74	142.86	158.98	86.12	1,788.18	2,025.47	8,683.19	8,552.76	130.43	66.573		
17,700.00	7,870.00	16,236.00	7,569.74	144.40	158.98	86.12	1,788.18	2,025.47	8,779.99	8,649.93	130.07	67.505		
17,800.00	7,870.00	16,236.00	7,569.74	145.95	158.98	86.12	1,788.18	2,025.47	8,876.86	8,747.15	129.71	68.437		
17,900.00	7,870.00	16,236.00	7,569.74	147.50	158.98	86.12	1,788.18	2,025.47	8,973.80	8,844.44	129.36	69.371		
18,000.00	7,870.00	16,236.00	7,569.74	149.06	158.98	86.12	1,788.18	2,025.47	9,070.81	8,941.79	129.02	70.305		
18,100.00	7,870.00	16,236.00	7,569.74	150.63	158.98	86.12	1,788.18	2,025.47	9,167.88	9,039.19	128.69	71.240		
18,200.00	7,870.00	16,236.00	7,569.74	152.20	158.98	86.12	1,788.18	2,025.47	9,265.01	9,136.64	128.37	72.175		
18,300.00	7,870.00	16,236.00	7,569.74	153.77	158.98	86.12	1,788.18	2,025.47	9,362.21	9,234.15	128.05	73.112		
18,400.00	7,870.00	16,236.00	7,569.74	155.35	158.98	86.12	1,788.18	2,025.47	9,459.46	9,331.71	127.75	74.049		
18,500.00	7,870.00	16,236.00	7,569.74	156.93	158.98	86.12	1,788.18	2,025.47	9,556.77	9,429.32	127.45	74.986		
18,600.00	7,870.00	16,236.00	7,569.74	158.52	158.98	86.12	1,788.18	2,025.47	9,654.13	9,526.97	127.16	75.924		
18,700.00	7,870.00	16,236.00	7,569.74	160.11	158.98	86.12	1,788.18	2,025.47	9,751.55	9,624.68	126.87	76.862		
18,800.00	7,870.00	16,236.00	7,569.74	161.71	158.98	86.12	1,788.18	2,025.47	9,849.02	9,722.42	126.59	77.801		
18,900.00	7,870.00	16,236.00	7,569.74	163.31	158.98	86.12	1,788.18	2,025.47	9,946.53	9,820.21	126.32	78.740		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	38.17	1,782.50	1,400.95	8,152.21					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	38.17	1,782.50	1,400.95	8,056.20	7,977.50	78.70	102.371		
200.00	200.00	16,659.00	7,678.61	0.49	161.70	38.17	1,782.50	1,400.95	7,960.29	7,881.53	78.76	101.071		
300.00	300.00	16,659.00	7,678.61	0.85	161.70	38.17	1,782.50	1,400.95	7,864.48	7,785.65	78.83	99.759		
400.00	400.00	16,659.00	7,678.61	1.21	161.70	38.17	1,782.50	1,400.95	7,768.78	7,689.86	78.92	98.437		
500.00	500.00	16,659.00	7,678.61	1.57	161.70	38.17	1,782.50	1,400.95	7,673.19	7,594.17	79.02	97.104		
600.00	600.00	16,659.00	7,678.61	1.93	161.70	38.17	1,782.50	1,400.95	7,577.71	7,498.58	79.13	95.761		
700.00	699.98	16,659.00	7,678.61	2.28	161.70	-28.71	1,782.50	1,400.95	7,481.90	7,402.64	79.25	94.405		
800.00	799.84	16,659.00	7,678.61	2.64	161.70	-32.49	1,782.50	1,400.95	7,385.34	7,305.97	79.37	93.047		
900.00	899.45	16,659.00	7,678.61	3.00	161.70	-37.22	1,782.50	1,400.95	7,288.15	7,208.67	79.48	91.701		
1,000.00	998.70	16,659.00	7,678.61	3.37	161.70	-43.20	1,782.50	1,400.95	7,190.40	7,110.83	79.56	90.371		
1,100.00	1,097.47	16,659.00	7,678.61	3.76	161.70	-50.80	1,782.50	1,400.95	7,092.20	7,012.56	79.63	89.059		
1,200.00	1,195.62	16,659.00	7,678.61	4.18	161.70	-60.37	1,782.50	1,400.95	6,993.65	6,913.96	79.68	87.766		
1,300.00	1,293.06	16,659.00	7,678.61	4.63	161.70	-72.01	1,782.50	1,400.95	6,894.86	6,815.14	79.71	86.494		
1,400.00	1,389.64	16,659.00	7,678.61	5.11	161.70	-85.20	1,782.50	1,400.95	6,795.94	6,716.22	79.72	85.244		
1,500.00	1,485.27	16,659.00	7,678.61	5.63	161.70	-98.72	1,782.50	1,400.95	6,697.01	6,617.30	79.71	84.016		
1,600.00	1,579.82	16,659.00	7,678.61	6.20	161.70	-111.16	1,782.50	1,400.95	6,598.19	6,518.51	79.68	82.810		
1,700.00	1,673.17	16,659.00	7,678.61	6.83	161.70	-121.66	1,782.50	1,400.95	6,499.61	6,419.99	79.63	81.627		
1,800.00	1,765.21	16,659.00	7,678.61	7.51	161.70	-130.09	1,782.50	1,400.95	6,401.41	6,321.85	79.56	80.465		
1,900.00	1,855.84	16,659.00	7,678.61	8.24	161.70	-136.74	1,782.50	1,400.95	6,303.72	6,224.25	79.47	79.322		
2,000.00	1,944.94	16,659.00	7,678.61	9.05	161.70	-141.97	1,782.50	1,400.95	6,206.69	6,127.32	79.37	78.198		
2,100.00	2,032.39	16,659.00	7,678.61	9.91	161.70	-146.12	1,782.50	1,400.95	6,110.47	6,031.21	79.26	77.089		
2,200.00	2,118.11	16,659.00	7,678.61	10.85	161.70	-149.45	1,782.50	1,400.95	6,015.23	5,936.07	79.16	75.993		
2,300.00	2,201.97	16,659.00	7,678.61	11.85	161.70	-152.17	1,782.50	1,400.95	5,921.12	5,842.07	79.05	74.905		
2,400.00	2,283.88	16,659.00	7,678.61	12.93	161.70	-154.41	1,782.50	1,400.95	5,828.32	5,749.37	78.95	73.823		
2,429.47	2,307.63	16,659.00	7,678.61	13.26	161.70	-155.00	1,782.50	1,400.95	5,801.24	5,722.32	78.92	73.509		
2,500.00	2,364.26	16,659.00	7,678.61	14.06	161.70	-155.00	1,782.50	1,400.95	5,736.68	5,657.81	78.87	72.733		
2,600.00	2,444.56	16,659.00	7,678.61	15.22	161.70	-155.00	1,782.50	1,400.95	5,645.39	5,566.55	78.83	71.610		
2,700.00	2,524.85	16,659.00	7,678.61	16.39	161.70	-155.00	1,782.50	1,400.95	5,554.39	5,475.57	78.82	70.466		
2,800.00	2,605.14	16,659.00	7,678.61	17.57	161.70	-155.00	1,782.50	1,400.95	5,463.71	5,384.87	78.84	69.302		
2,900.00	2,685.43	16,659.00	7,678.61	18.76	161.70	-155.00	1,782.50	1,400.95	5,373.36	5,294.47	78.88	68.118		
3,000.00	2,765.73	16,659.00	7,678.61	19.96	161.70	-155.00	1,782.50	1,400.95	5,283.36	5,204.40	78.96	66.915		
3,100.00	2,846.02	16,659.00	7,678.61	21.16	161.70	-155.00	1,782.50	1,400.95	5,193.72	5,114.66	79.06	65.695		
3,200.00	2,926.31	16,659.00	7,678.61	22.37	161.70	-155.00	1,782.50	1,400.95	5,104.47	5,025.27	79.19	64.457		
3,300.00	3,006.60	16,659.00	7,678.61	23.59	161.70	-155.00	1,782.50	1,400.95	5,015.62	4,936.26	79.36	63.202		
3,400.00	3,086.90	16,659.00	7,678.61	24.81	161.70	-155.00	1,782.50	1,400.95	4,927.20	4,847.64	79.56	61.930		
3,500.00	3,167.19	16,659.00	7,678.61	26.03	161.70	-155.00	1,782.50	1,400.95	4,839.23	4,759.43	79.80	60.641		
3,600.00	3,247.48	16,659.00	7,678.61	27.25	161.70	-155.00	1,782.50	1,400.95	4,751.74	4,671.66	80.08	59.336		
3,700.00	3,327.77	16,659.00	7,678.61	28.48	161.70	-155.00	1,782.50	1,400.95	4,664.75	4,584.34	80.41	58.014		
3,800.00	3,408.07	16,659.00	7,678.61	29.71	161.70	-155.00	1,782.50	1,400.95	4,578.29	4,497.51	80.78	56.676		
3,900.00	3,488.36	16,659.00	7,678.61	30.94	161.70	-155.00	1,782.50	1,400.95	4,492.40	4,411.19	81.20	55.322		
4,000.00	3,568.65	16,659.00	7,678.61	32.17	161.70	-155.00	1,782.50	1,400.95	4,407.10	4,325.41	81.69	53.951		
4,100.00	3,648.95	16,659.00	7,678.61	33.41	161.70	-155.00	1,782.50	1,400.95	4,322.43	4,240.20	82.23	52.565		
4,200.00	3,729.24	16,659.00	7,678.61	34.64	161.70	-155.00	1,782.50	1,400.95	4,238.42	4,155.58	82.84	51.163		
4,300.00	3,809.53	16,659.00	7,678.61	35.88	161.70	-155.00	1,782.50	1,400.95	4,155.13	4,071.60	83.53	49.747		
4,400.00	3,889.82	16,659.00	7,678.61	37.12	161.70	-155.00	1,782.50	1,400.95	4,072.59	3,988.30	84.29	48.316		
4,500.00	3,970.12	16,659.00	7,678.61	38.36	161.70	-155.00	1,782.50	1,400.95	3,990.84	3,905.70	85.14	46.873		
4,600.00	4,050.41	16,659.00	7,678.61	39.60	161.70	-155.00	1,782.50	1,400.95	3,909.95	3,823.86	86.09	45.418		
4,700.00	4,130.70	16,659.00	7,678.61	40.84	161.70	-155.00	1,782.50	1,400.95	3,829.96	3,742.82	87.14	43.953		
4,800.00	4,210.99	16,659.00	7,678.61	42.08	161.70	-155.00	1,782.50	1,400.95	3,750.92	3,662.63	88.30	42.480		
4,900.00	4,291.29	16,659.00	7,678.61	43.32	161.70	-155.00	1,782.50	1,400.95	3,672.91	3,583.34	89.58	41.002		
5,000.00	4,371.58	16,659.00	7,678.61	44.57	161.70	-155.00	1,782.50	1,400.95	3,595.99	3,505.01	90.99	39.521		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	16,659.00	7,678.61	45.81	161.70	-155.00	1,782.50	1,400.95	3,520.23	3,427.70	92.54	38.042		
5,200.00	4,532.16	16,659.00	7,678.61	47.05	161.70	-155.00	1,782.50	1,400.95	3,445.71	3,351.48	94.23	36.566		
5,300.00	4,612.46	16,659.00	7,678.61	48.30	161.70	-155.00	1,782.50	1,400.95	3,372.50	3,276.42	96.08	35.099		
5,400.00	4,692.75	16,659.00	7,678.61	49.54	161.70	-155.00	1,782.50	1,400.95	3,300.70	3,202.60	98.10	33.646		
5,500.00	4,773.04	16,659.00	7,678.61	50.79	161.70	-155.00	1,782.50	1,400.95	3,230.40	3,130.11	100.29	32.209		
5,600.00	4,853.34	16,659.00	7,678.61	52.03	161.70	-155.00	1,782.50	1,400.95	3,161.70	3,059.04	102.67	30.796		
5,700.00	4,933.63	16,659.00	7,678.61	53.28	161.70	-155.00	1,782.50	1,400.95	3,094.71	2,989.48	105.23	29.410		
5,800.00	5,013.92	16,659.00	7,678.61	54.53	161.70	-155.00	1,782.50	1,400.95	3,029.54	2,921.56	107.98	28.056		
5,900.00	5,094.21	16,659.00	7,678.61	55.77	161.70	-155.00	1,782.50	1,400.95	2,966.31	2,855.37	110.93	26.740		
6,000.00	5,174.51	16,659.00	7,678.61	57.02	161.70	-155.00	1,782.50	1,400.95	2,905.14	2,791.06	114.08	25.465		
6,100.00	5,254.80	16,659.00	7,678.61	58.27	161.70	-155.00	1,782.50	1,400.95	2,846.17	2,728.74	117.43	24.238		
6,200.00	5,335.09	16,659.00	7,678.61	59.52	161.70	-155.00	1,782.50	1,400.95	2,789.55	2,668.58	120.97	23.060		
6,300.00	5,415.38	16,659.00	7,678.61	60.76	161.70	-155.00	1,782.50	1,400.95	2,735.40	2,610.71	124.70	21.936		
6,400.00	5,495.68	16,659.00	7,678.61	62.01	161.70	-155.00	1,782.50	1,400.95	2,683.90	2,555.29	128.60	20.869		
6,500.00	5,575.97	16,659.00	7,678.61	63.26	161.70	-155.00	1,782.50	1,400.95	2,635.18	2,502.50	132.68	19.862		
6,600.00	5,656.26	16,659.00	7,678.61	64.51	161.70	-155.00	1,782.50	1,400.95	2,589.41	2,452.51	136.90	18.915		
6,700.00	5,736.55	16,659.00	7,678.61	65.76	161.70	-155.00	1,782.50	1,400.95	2,546.74	2,405.50	141.25	18.031		
6,800.00	5,816.85	16,659.00	7,678.61	67.01	161.70	-155.00	1,782.50	1,400.95	2,507.34	2,361.64	145.70	17.209		
6,900.00	5,897.14	16,659.00	7,678.61	68.26	161.70	-155.00	1,782.50	1,400.95	2,471.36	2,321.14	150.23	16.451		
7,000.00	5,977.43	16,659.00	7,678.61	69.50	161.70	-155.00	1,782.50	1,400.95	2,438.95	2,284.16	154.80	15.756		
7,100.00	6,057.72	16,659.00	7,678.61	70.75	161.70	-155.00	1,782.50	1,400.95	2,410.26	2,250.88	159.38	15.123		
7,200.00	6,138.02	16,659.00	7,678.61	72.00	161.70	-155.00	1,782.50	1,400.95	2,385.42	2,221.49	163.93	14.551		
7,300.00	6,218.31	16,659.00	7,678.61	73.25	161.70	-155.00	1,782.50	1,400.95	2,364.55	2,196.13	168.42	14.039		
7,400.00	6,298.60	16,659.00	7,678.61	74.50	161.70	-155.00	1,782.50	1,400.95	2,347.76	2,174.95	172.81	13.586		
7,500.00	6,378.90	16,659.00	7,678.61	75.75	161.70	-155.00	1,782.50	1,400.95	2,335.13	2,158.07	177.06	13.189		
7,600.00	6,459.19	16,659.00	7,678.61	77.00	161.70	-155.00	1,782.50	1,400.95	2,326.74	2,145.61	181.12	12.846		
7,700.00	6,539.48	16,659.00	7,678.61	78.25	161.70	-155.00	1,782.50	1,400.95	2,322.62	2,137.64	184.98	12.556		
7,745.67	6,576.15	16,659.00	7,678.61	78.82	161.70	-155.00	1,782.50	1,400.95	2,322.17	2,135.51	186.67	12.440 CC		
7,800.00	6,619.77	16,659.00	7,678.61	79.50	161.70	-155.00	1,782.50	1,400.95	2,322.81	2,134.21	188.60	12.316 ES		
7,900.00	6,700.07	16,659.00	7,678.61	80.75	161.70	-155.00	1,782.50	1,400.95	2,327.29	2,135.34	191.95	12.124		
8,000.00	6,780.36	16,659.00	7,678.61	82.00	161.70	-155.00	1,782.50	1,400.95	2,336.06	2,141.04	195.02	11.979		
8,100.00	6,860.65	16,659.00	7,678.61	83.25	161.70	-155.00	1,782.50	1,400.95	2,349.05	2,151.26	197.79	11.877		
8,200.00	6,940.94	16,659.00	7,678.61	84.50	161.70	-155.00	1,782.50	1,400.95	2,366.20	2,165.95	200.25	11.816		
8,300.00	7,021.24	16,655.63	7,678.57	85.76	161.64	-154.92	1,785.87	1,400.93	2,387.41	2,184.99	202.42	11.794 SF		
8,400.00	7,101.53	16,630.68	7,678.28	87.01	161.20	-154.32	1,810.82	1,400.74	2,412.43	2,207.99	204.44	11.800		
8,500.00	7,181.82	16,605.92	7,677.98	88.26	160.77	-153.73	1,835.58	1,400.56	2,441.04	2,234.86	206.18	11.839		
8,605.60	7,266.61	16,580.17	7,677.73	89.58	160.32	-153.12	1,861.33	1,400.38	2,475.00	2,267.28	207.72	11.915		
8,650.00	7,302.60	16,570.83	7,677.65	90.13	160.16	-160.37	1,870.67	1,400.31	2,490.54	2,282.24	208.30	11.957		
8,700.00	7,343.78	16,564.20	7,677.61	90.72	160.05	-169.28	1,877.29	1,400.27	2,509.07	2,300.17	208.91	12.010		
8,750.00	7,385.32	16,561.81	7,677.59	91.28	160.01	-178.78	1,879.69	1,400.25	2,528.58	2,319.11	209.47	12.071		
8,800.00	7,426.92	16,563.73	7,677.60	91.81	160.04	171.46	1,877.77	1,400.26	2,548.91	2,338.93	209.99	12.138		
8,850.00	7,468.27	16,570.01	7,677.65	92.29	160.15	161.76	1,871.49	1,400.31	2,569.88	2,359.43	210.45	12.211		
8,900.00	7,509.04	16,580.66	7,677.73	92.72	160.33	152.41	1,860.83	1,400.38	2,591.28	2,380.41	210.86	12.289		
8,950.00	7,548.93	16,595.68	7,677.87	93.10	160.59	143.62	1,845.82	1,400.49	2,612.88	2,401.65	211.23	12.370		
9,000.00	7,587.63	16,615.00	7,678.09	93.43	160.93	135.50	1,826.50	1,400.63	2,634.46	2,422.90	211.56	12.452		
9,050.00	7,624.85	16,638.02	7,678.36	93.71	161.33	128.12	1,803.48	1,400.80	2,655.75	2,443.89	211.86	12.535		
9,100.00	7,660.30	16,659.00	7,678.61	93.93	161.70	121.58	1,782.50	1,400.95	2,676.52	2,464.34	212.18	12.615		
9,150.00	7,693.72	16,659.00	7,678.61	94.10	161.70	116.14	1,782.50	1,400.95	2,696.73	2,484.11	212.62	12.683		
9,200.00	7,724.85	16,659.00	7,678.61	94.23	161.70	111.34	1,782.50	1,400.95	2,716.33	2,503.28	213.05	12.750		
9,250.00	7,753.45	16,659.00	7,678.61	94.30	161.70	107.11	1,782.50	1,400.95	2,735.18	2,521.71	213.47	12.813		
9,300.00	7,779.31	16,659.00	7,678.61	94.34	161.70	103.41	1,782.50	1,400.95	2,753.15	2,539.28	213.87	12.873		
9,350.00	7,802.23	16,659.00	7,678.61	94.33	161.70	100.19	1,782.50	1,400.95	2,770.14	2,555.87	214.27	12.928		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	16,659.00	7,678.61	94.28	161.70	97.41	1,782.50	1,400.95	2,786.01	2,571.36	214.65	12.979		
9,450.00	7,838.57	16,659.00	7,678.61	94.20	161.70	95.05	1,782.50	1,400.95	2,800.69	2,585.66	215.03	13.025		
9,500.00	7,851.72	16,659.00	7,678.61	94.10	161.70	93.07	1,782.50	1,400.95	2,814.07	2,598.67	215.39	13.065		
9,550.00	7,861.37	16,659.00	7,678.61	93.96	161.70	91.47	1,782.50	1,400.95	2,826.07	2,610.32	215.75	13.099		
9,600.00	7,867.46	16,659.00	7,678.61	93.81	161.70	90.22	1,782.50	1,400.95	2,836.61	2,620.52	216.09	13.127		
9,650.00	7,869.94	16,659.00	7,678.61	93.64	161.70	89.32	1,782.50	1,400.95	2,845.64	2,629.23	216.41	13.149		
9,659.14	7,870.00	16,659.00	7,678.61	93.60	161.70	89.20	1,782.50	1,400.95	2,847.12	2,630.65	216.47	13.152		
9,700.00	7,870.00	16,659.00	7,678.61	93.46	161.70	89.20	1,782.50	1,400.95	2,853.92	2,637.21	216.71	13.169		
9,800.00	7,870.00	16,659.00	7,678.61	93.11	161.70	89.20	1,782.50	1,400.95	2,872.93	2,655.76	217.17	13.229		
9,900.00	7,870.00	16,659.00	7,678.61	92.77	161.70	89.20	1,782.50	1,400.95	2,895.28	2,677.83	217.45	13.315		
10,000.00	7,870.00	16,659.00	7,678.61	92.46	161.70	89.20	1,782.50	1,400.95	2,920.88	2,703.34	217.54	13.427		
10,100.00	7,870.00	16,659.00	7,678.61	92.16	161.70	89.20	1,782.50	1,400.95	2,949.64	2,732.19	217.45	13.565		
10,200.00	7,870.00	16,659.00	7,678.61	91.87	161.70	89.20	1,782.50	1,400.95	2,981.49	2,764.29	217.20	13.727		
10,300.00	7,870.00	16,659.00	7,678.61	91.60	161.70	89.20	1,782.50	1,400.95	3,016.32	2,799.53	216.78	13.914		
10,400.00	7,870.00	16,659.00	7,678.61	91.34	161.70	89.20	1,782.50	1,400.95	3,054.02	2,837.80	216.22	14.125		
10,500.00	7,870.00	16,659.00	7,678.61	91.11	161.70	89.20	1,782.50	1,400.95	3,094.50	2,878.98	215.52	14.358		
10,600.00	7,870.00	16,659.00	7,678.61	90.88	161.70	89.20	1,782.50	1,400.95	3,137.65	2,922.95	214.70	14.614		
10,700.00	7,870.00	16,659.00	7,678.61	90.67	161.70	89.20	1,782.50	1,400.95	3,183.35	2,969.59	213.76	14.892		
10,800.00	7,870.00	16,659.00	7,678.61	90.48	161.70	89.20	1,782.50	1,400.95	3,231.50	3,018.78	212.72	15.191		
10,900.00	7,870.00	16,659.00	7,678.61	90.31	161.70	89.20	1,782.50	1,400.95	3,281.99	3,070.40	211.59	15.511		
11,000.00	7,870.00	16,659.00	7,678.61	90.15	161.70	89.20	1,782.50	1,400.95	3,334.72	3,124.34	210.38	15.851		
11,100.00	7,870.00	16,659.00	7,678.61	90.00	161.70	89.20	1,782.50	1,400.95	3,389.58	3,180.47	209.11	16.210		
11,200.00	7,870.00	16,659.00	7,678.61	89.88	161.70	89.20	1,782.50	1,400.95	3,446.47	3,238.69	207.77	16.588		
11,300.00	7,870.00	16,659.00	7,678.61	89.77	161.70	89.20	1,782.50	1,400.95	3,505.29	3,298.89	206.39	16.983		
11,400.00	7,870.00	16,659.00	7,678.61	89.68	161.70	89.20	1,782.50	1,400.95	3,565.94	3,360.96	204.98	17.397		
11,500.00	7,870.00	16,659.00	7,678.61	89.60	161.70	89.20	1,782.50	1,400.95	3,628.33	3,424.81	203.53	17.827		
11,600.00	7,870.00	16,659.00	7,678.61	89.55	161.70	89.20	1,782.50	1,400.95	3,692.38	3,490.33	202.05	18.274		
11,700.00	7,870.00	16,659.00	7,678.61	89.52	161.70	89.20	1,782.50	1,400.95	3,758.00	3,557.44	200.56	18.737		
11,800.00	7,870.00	16,659.00	7,678.61	89.50	161.70	89.20	1,782.50	1,400.95	3,825.11	3,626.05	199.06	19.215		
11,900.00	7,870.00	16,659.00	7,678.61	89.51	161.70	89.20	1,782.50	1,400.95	3,893.63	3,696.07	197.56	19.709		
12,000.00	7,870.00	16,659.00	7,678.61	89.54	161.70	89.20	1,782.50	1,400.95	3,963.49	3,767.43	196.06	20.216		
12,100.00	7,870.00	16,659.00	7,678.61	89.59	161.70	89.20	1,782.50	1,400.95	4,034.62	3,840.06	194.56	20.738		
12,200.00	7,870.00	16,659.00	7,678.61	89.66	161.70	89.20	1,782.50	1,400.95	4,106.95	3,913.88	193.06	21.273		
12,300.00	7,870.00	16,659.00	7,678.61	89.77	161.70	89.20	1,782.50	1,400.95	4,180.42	3,988.84	191.58	21.820		
12,400.00	7,870.00	16,659.00	7,678.61	89.89	161.70	89.20	1,782.50	1,400.95	4,254.97	4,064.86	190.12	22.381		
12,500.00	7,870.00	16,659.00	7,678.61	90.05	161.70	89.20	1,782.50	1,400.95	4,330.55	4,141.89	188.67	22.954		
12,600.00	7,870.00	16,659.00	7,678.61	90.24	161.70	89.20	1,782.50	1,400.95	4,407.10	4,219.87	187.23	23.538		
12,700.00	7,870.00	16,659.00	7,678.61	90.46	161.70	89.20	1,782.50	1,400.95	4,484.58	4,298.76	185.82	24.134		
12,800.00	7,870.00	16,659.00	7,678.61	90.71	161.70	89.20	1,782.50	1,400.95	4,562.93	4,378.50	184.43	24.740		
12,900.00	7,870.00	16,659.00	7,678.61	90.99	161.70	89.20	1,782.50	1,400.95	4,642.11	4,459.05	183.07	25.358		
13,000.00	7,870.00	16,659.00	7,678.61	91.32	161.70	89.20	1,782.50	1,400.95	4,722.09	4,540.36	181.72	25.985		
13,100.00	7,870.00	16,659.00	7,678.61	91.68	161.70	89.20	1,782.50	1,400.95	4,802.81	4,622.41	180.40	26.623		
13,200.00	7,870.00	16,659.00	7,678.61	92.08	161.70	89.20	1,782.50	1,400.95	4,884.25	4,705.14	179.11	27.270		
13,300.00	7,870.00	16,659.00	7,678.61	92.52	161.70	89.20	1,782.50	1,400.95	4,966.36	4,788.52	177.84	27.926		
13,400.00	7,870.00	16,659.00	7,678.61	93.00	161.70	89.20	1,782.50	1,400.95	5,049.12	4,872.53	176.60	28.591		
13,500.00	7,870.00	16,659.00	7,678.61	93.53	161.70	89.20	1,782.50	1,400.95	5,132.50	4,957.12	175.38	29.265		
13,600.00	7,870.00	16,659.00	7,678.61	94.10	161.70	89.20	1,782.50	1,400.95	5,216.46	5,042.27	174.19	29.947		
13,700.00	7,870.00	16,659.00	7,678.61	94.72	161.70	89.20	1,782.50	1,400.95	5,300.97	5,127.95	173.02	30.637		
13,800.00	7,870.00	16,659.00	7,678.61	95.38	161.70	89.20	1,782.50	1,400.95	5,386.02	5,214.13	171.88	31.335		
13,900.00	7,870.00	16,659.00	7,678.61	96.09	161.70	89.20	1,782.50	1,400.95	5,471.57	5,300.80	170.77	32.041		
14,000.00	7,870.00	16,659.00	7,678.61	96.84	161.70	89.20	1,782.50	1,400.95	5,557.60	5,387.92	169.68	32.754		
14,100.00	7,870.00	16,659.00	7,678.61	97.64	161.70	89.20	1,782.50	1,400.95	5,644.10	5,475.48	168.61	33.473		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	16,659.00	7,678.61	98.48	161.70	89.20	1,782.50	1,400.95	5,731.03	5,563.46	167.57	34.200		
14,300.00	7,870.00	16,659.00	7,678.61	99.37	161.70	89.20	1,782.50	1,400.95	5,818.39	5,651.83	166.56	34.933		
14,400.00	7,870.00	16,659.00	7,678.61	100.30	161.70	89.20	1,782.50	1,400.95	5,906.14	5,740.58	165.57	35.673		
14,500.00	7,870.00	16,659.00	7,678.61	101.26	161.70	89.20	1,782.50	1,400.95	5,994.28	5,829.68	164.60	36.418		
14,600.00	7,870.00	16,659.00	7,678.61	102.27	161.70	89.20	1,782.50	1,400.95	6,082.79	5,919.14	163.65	37.170		
14,700.00	7,870.00	16,659.00	7,678.61	103.31	161.70	89.20	1,782.50	1,400.95	6,171.64	6,008.92	162.72	37.927		
14,800.00	7,870.00	16,659.00	7,678.61	104.38	161.70	89.20	1,782.50	1,400.95	6,260.83	6,099.01	161.82	38.690		
14,900.00	7,870.00	16,659.00	7,678.61	105.49	161.70	89.20	1,782.50	1,400.95	6,350.35	6,189.41	160.94	39.458		
15,000.00	7,870.00	16,659.00	7,678.61	106.63	161.70	89.20	1,782.50	1,400.95	6,440.17	6,280.09	160.08	40.231		
15,100.00	7,870.00	16,659.00	7,678.61	107.80	161.70	89.20	1,782.50	1,400.95	6,530.29	6,371.05	159.24	41.009		
15,200.00	7,870.00	16,659.00	7,678.61	109.00	161.70	89.20	1,782.50	1,400.95	6,620.69	6,462.28	158.42	41.792		
15,300.00	7,870.00	16,659.00	7,678.61	110.22	161.70	89.20	1,782.50	1,400.95	6,711.37	6,553.75	157.62	42.580		
15,400.00	7,870.00	16,659.00	7,678.61	111.47	161.70	89.20	1,782.50	1,400.95	6,802.31	6,645.47	156.84	43.372		
15,500.00	7,870.00	16,659.00	7,678.61	112.74	161.70	89.20	1,782.50	1,400.95	6,893.49	6,737.42	156.07	44.169		
15,600.00	7,870.00	16,659.00	7,678.61	114.03	161.70	89.20	1,782.50	1,400.95	6,984.92	6,829.60	155.33	44.969		
15,700.00	7,870.00	16,659.00	7,678.61	115.34	161.70	89.20	1,782.50	1,400.95	7,076.58	6,921.98	154.60	45.774		
15,800.00	7,870.00	16,659.00	7,678.61	116.68	161.70	89.20	1,782.50	1,400.95	7,168.47	7,014.58	153.89	46.582		
15,900.00	7,870.00	16,659.00	7,678.61	118.02	161.70	89.20	1,782.50	1,400.95	7,260.56	7,107.37	153.19	47.395		
16,000.00	7,870.00	16,659.00	7,678.61	119.39	161.70	89.20	1,782.50	1,400.95	7,352.87	7,200.35	152.52	48.211		
16,100.00	7,870.00	16,659.00	7,678.61	120.77	161.70	89.20	1,782.50	1,400.95	7,445.37	7,293.52	151.85	49.030		
16,200.00	7,870.00	16,659.00	7,678.61	122.17	161.70	89.20	1,782.50	1,400.95	7,538.07	7,386.86	151.21	49.853		
16,300.00	7,870.00	16,659.00	7,678.61	123.58	161.70	89.20	1,782.50	1,400.95	7,630.95	7,480.37	150.58	50.679		
16,400.00	7,870.00	16,659.00	7,678.61	125.00	161.70	89.20	1,782.50	1,400.95	7,724.00	7,574.05	149.96	51.508		
16,500.00	7,870.00	16,659.00	7,678.61	126.43	161.70	89.20	1,782.50	1,400.95	7,817.23	7,667.88	149.36	52.340		
16,600.00	7,870.00	16,659.00	7,678.61	127.88	161.70	89.20	1,782.50	1,400.95	7,910.63	7,761.86	148.77	53.175		
16,700.00	7,870.00	16,659.00	7,678.61	129.34	161.70	89.20	1,782.50	1,400.95	8,004.18	7,855.99	148.19	54.013		
16,800.00	7,870.00	16,659.00	7,678.61	130.81	161.70	89.20	1,782.50	1,400.95	8,097.89	7,950.26	147.63	54.853		
16,900.00	7,870.00	16,659.00	7,678.61	132.28	161.70	89.20	1,782.50	1,400.95	8,191.74	8,044.66	147.08	55.696		
17,000.00	7,870.00	16,659.00	7,678.61	133.77	161.70	89.20	1,782.50	1,400.95	8,285.74	8,139.20	146.54	56.542		
17,100.00	7,870.00	16,659.00	7,678.61	135.27	161.70	89.20	1,782.50	1,400.95	8,379.88	8,233.87	146.02	57.390		
17,200.00	7,870.00	16,659.00	7,678.61	136.77	161.70	89.20	1,782.50	1,400.95	8,474.16	8,328.65	145.50	58.240		
17,300.00	7,870.00	16,659.00	7,678.61	138.28	161.70	89.20	1,782.50	1,400.95	8,568.56	8,423.56	145.00	59.092		
17,400.00	7,870.00	16,659.00	7,678.61	139.80	161.70	89.20	1,782.50	1,400.95	8,663.09	8,518.58	144.51	59.947		
17,500.00	7,870.00	16,659.00	7,678.61	141.33	161.70	89.20	1,782.50	1,400.95	8,757.74	8,613.71	144.03	60.804		
17,600.00	7,870.00	16,659.00	7,678.61	142.86	161.70	89.20	1,782.50	1,400.95	8,852.51	8,708.94	143.56	61.662		
17,700.00	7,870.00	16,659.00	7,678.61	144.40	161.70	89.20	1,782.50	1,400.95	8,947.39	8,804.28	143.11	62.523		
17,800.00	7,870.00	16,659.00	7,678.61	145.95	161.70	89.20	1,782.50	1,400.95	9,042.38	8,899.72	142.66	63.385		
17,900.00	7,870.00	16,659.00	7,678.61	147.50	161.70	89.20	1,782.50	1,400.95	9,137.48	8,995.26	142.22	64.249		
18,000.00	7,870.00	16,659.00	7,678.61	149.06	161.70	89.20	1,782.50	1,400.95	9,232.68	9,090.89	141.79	65.115		
18,100.00	7,870.00	16,659.00	7,678.61	150.63	161.70	89.20	1,782.50	1,400.95	9,327.98	9,186.61	141.37	65.982		
18,200.00	7,870.00	16,659.00	7,678.61	152.20	161.70	89.20	1,782.50	1,400.95	9,423.39	9,282.42	140.96	66.851		
18,300.00	7,870.00	16,659.00	7,678.61	153.77	161.70	89.20	1,782.50	1,400.95	9,518.88	9,378.32	140.56	67.721		
18,400.00	7,870.00	16,659.00	7,678.61	155.35	161.70	89.20	1,782.50	1,400.95	9,614.47	9,474.30	140.17	68.592		
18,500.00	7,870.00	16,659.00	7,678.61	156.93	161.70	89.20	1,782.50	1,400.95	9,710.14	9,570.36	139.78	69.465		
18,600.00	7,870.00	16,659.00	7,678.61	158.52	161.70	89.20	1,782.50	1,400.95	9,805.90	9,666.49	139.41	70.339		
18,700.00	7,870.00	16,659.00	7,678.61	160.11	161.70	89.20	1,782.50	1,400.95	9,901.75	9,762.71	139.04	71.214		
18,800.00	7,870.00	16,659.00	7,678.61	161.71	161.70	89.20	1,782.50	1,400.95	9,997.67	9,858.99	138.68	72.091		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	42.04	1,780.17	1,604.95	8,295.75					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	42.04	1,780.17	1,604.95	8,200.07	8,122.89	77.18	106.252		
200.00	200.00	16,530.00	7,789.95	0.49	159.85	42.04	1,780.17	1,604.95	8,104.49	8,027.22	77.27	104.892		
300.00	300.00	16,530.00	7,789.95	0.85	159.85	42.04	1,780.17	1,604.95	8,009.01	7,931.65	77.37	103.519		
400.00	400.00	16,530.00	7,789.95	1.21	159.85	42.04	1,780.17	1,604.95	7,913.65	7,836.17	77.48	102.134		
500.00	500.00	16,530.00	7,789.95	1.57	159.85	42.04	1,780.17	1,604.95	7,818.41	7,740.80	77.61	100.737		
600.00	600.00	16,530.00	7,789.95	1.93	159.85	42.04	1,780.17	1,604.95	7,723.29	7,645.53	77.75	99.330		
700.00	699.98	16,530.00	7,789.95	2.28	159.85	-24.30	1,780.17	1,604.95	7,627.80	7,549.89	77.91	97.908		
800.00	799.84	16,530.00	7,789.95	2.64	159.85	-27.41	1,780.17	1,604.95	7,531.51	7,453.45	78.06	96.484		
900.00	899.45	16,530.00	7,789.95	3.00	159.85	-31.32	1,780.17	1,604.95	7,434.52	7,356.32	78.20	95.075		
1,000.00	998.70	16,530.00	7,789.95	3.37	159.85	-36.32	1,780.17	1,604.95	7,336.91	7,258.60	78.32	93.684		
1,100.00	1,097.47	16,530.00	7,789.95	3.76	159.85	-42.80	1,780.17	1,604.95	7,238.79	7,160.37	78.42	92.313		
1,200.00	1,195.62	16,530.00	7,789.95	4.18	159.85	-51.28	1,780.17	1,604.95	7,140.24	7,061.75	78.49	90.965		
1,300.00	1,293.06	16,530.00	7,789.95	4.63	159.85	-62.22	1,780.17	1,604.95	7,041.39	6,962.84	78.55	89.641		
1,400.00	1,389.64	16,530.00	7,789.95	5.11	159.85	-75.70	1,780.17	1,604.95	6,942.33	6,863.74	78.59	88.342		
1,500.00	1,485.27	16,530.00	7,789.95	5.63	159.85	-90.76	1,780.17	1,604.95	6,843.18	6,764.59	78.60	87.068		
1,600.00	1,579.82	16,530.00	7,789.95	6.20	159.85	-105.51	1,780.17	1,604.95	6,744.07	6,665.48	78.58	85.822		
1,700.00	1,673.17	16,530.00	7,789.95	6.83	159.85	-118.26	1,780.17	1,604.95	6,645.11	6,566.56	78.55	84.601		
1,800.00	1,765.21	16,530.00	7,789.95	7.51	159.85	-128.41	1,780.17	1,604.95	6,546.43	6,467.95	78.49	83.407		
1,900.00	1,855.84	16,530.00	7,789.95	8.24	159.85	-136.22	1,780.17	1,604.95	6,448.18	6,369.78	78.41	82.238		
2,000.00	1,944.94	16,530.00	7,789.95	9.05	159.85	-142.19	1,780.17	1,604.95	6,350.50	6,272.19	78.31	81.093		
2,100.00	2,032.39	16,530.00	7,789.95	9.91	159.85	-146.81	1,780.17	1,604.95	6,253.52	6,175.33	78.20	79.970		
2,200.00	2,118.11	16,530.00	7,789.95	10.85	159.85	-150.43	1,780.17	1,604.95	6,157.42	6,079.34	78.08	78.865		
2,300.00	2,201.97	16,530.00	7,789.95	11.85	159.85	-153.33	1,780.17	1,604.95	6,062.34	5,984.40	77.95	77.776		
2,400.00	2,283.88	16,530.00	7,789.95	12.93	159.85	-155.68	1,780.17	1,604.95	5,968.46	5,890.64	77.82	76.699		
2,429.47	2,307.63	16,530.00	7,789.95	13.26	159.85	-156.28	1,780.17	1,604.95	5,941.04	5,863.27	77.77	76.388		
2,500.00	2,364.26	16,530.00	7,789.95	14.06	159.85	-156.28	1,780.17	1,604.95	5,875.64	5,797.95	77.70	75.621		
2,600.00	2,444.56	16,530.00	7,789.95	15.22	159.85	-156.28	1,780.17	1,604.95	5,783.12	5,705.51	77.61	74.511		
2,700.00	2,524.85	16,530.00	7,789.95	16.39	159.85	-156.28	1,780.17	1,604.95	5,690.85	5,613.30	77.55	73.381		
2,800.00	2,605.14	16,530.00	7,789.95	17.57	159.85	-156.28	1,780.17	1,604.95	5,598.84	5,521.33	77.51	72.232		
2,900.00	2,685.43	16,530.00	7,789.95	18.76	159.85	-156.28	1,780.17	1,604.95	5,507.12	5,429.62	77.50	71.064		
3,000.00	2,765.73	16,530.00	7,789.95	19.96	159.85	-156.28	1,780.17	1,604.95	5,415.68	5,338.18	77.50	69.879		
3,100.00	2,846.02	16,530.00	7,789.95	21.16	159.85	-156.28	1,780.17	1,604.95	5,324.56	5,247.03	77.53	68.677		
3,200.00	2,926.31	16,530.00	7,789.95	22.37	159.85	-156.28	1,780.17	1,604.95	5,233.75	5,156.17	77.58	67.458		
3,300.00	3,006.60	16,530.00	7,789.95	23.59	159.85	-156.28	1,780.17	1,604.95	5,143.29	5,065.63	77.67	66.224		
3,400.00	3,086.90	16,530.00	7,789.95	24.81	159.85	-156.28	1,780.17	1,604.95	5,053.19	4,975.42	77.77	64.973		
3,500.00	3,167.19	16,530.00	7,789.95	26.03	159.85	-156.28	1,780.17	1,604.95	4,963.47	4,885.56	77.91	63.707		
3,600.00	3,247.48	16,530.00	7,789.95	27.25	159.85	-156.28	1,780.17	1,604.95	4,874.15	4,796.07	78.08	62.425		
3,700.00	3,327.77	16,530.00	7,789.95	28.48	159.85	-156.28	1,780.17	1,604.95	4,785.25	4,706.97	78.28	61.127		
3,800.00	3,408.07	16,530.00	7,789.95	29.71	159.85	-156.28	1,780.17	1,604.95	4,696.80	4,618.27	78.52	59.813		
3,900.00	3,488.36	16,530.00	7,789.95	30.94	159.85	-156.28	1,780.17	1,604.95	4,608.82	4,530.01	78.81	58.484		
4,000.00	3,568.65	16,530.00	7,789.95	32.17	159.85	-156.28	1,780.17	1,604.95	4,521.33	4,442.20	79.13	57.138		
4,100.00	3,648.95	16,530.00	7,789.95	33.41	159.85	-156.28	1,780.17	1,604.95	4,434.38	4,354.88	79.50	55.775		
4,200.00	3,729.24	16,530.00	7,789.95	34.64	159.85	-156.28	1,780.17	1,604.95	4,347.99	4,268.06	79.93	54.397		
4,300.00	3,809.53	16,530.00	7,789.95	35.88	159.85	-156.28	1,780.17	1,604.95	4,262.20	4,181.78	80.42	53.002		
4,400.00	3,889.82	16,530.00	7,789.95	37.12	159.85	-156.28	1,780.17	1,604.95	4,177.03	4,096.07	80.97	51.590		
4,500.00	3,970.12	16,530.00	7,789.95	38.36	159.85	-156.28	1,780.17	1,604.95	4,092.54	4,010.96	81.58	50.163		
4,600.00	4,050.41	16,530.00	7,789.95	39.60	159.85	-156.28	1,780.17	1,604.95	4,008.76	3,926.48	82.28	48.721		
4,700.00	4,130.70	16,530.00	7,789.95	40.84	159.85	-156.28	1,780.17	1,604.95	3,925.74	3,842.68	83.06	47.264		
4,800.00	4,210.99	16,530.00	7,789.95	42.08	159.85	-156.28	1,780.17	1,604.95	3,843.53	3,759.60	83.93	45.793		
4,900.00	4,291.29	16,530.00	7,789.95	43.32	159.85	-156.28	1,780.17	1,604.95	3,762.18	3,677.28	84.90	44.311		
5,000.00	4,371.58	16,530.00	7,789.95	44.57	159.85	-156.28	1,780.17	1,604.95	3,681.75	3,595.77	85.99	42.818		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	16,530.00	7,789.95	45.81	159.85	-156.28	1,780.17	1,604.95	3,602.31	3,515.12	87.19	41.317		
5,200.00	4,532.16	16,530.00	7,789.95	47.05	159.85	-156.28	1,780.17	1,604.95	3,523.90	3,435.39	88.52	39.810		
5,300.00	4,612.46	16,530.00	7,789.95	48.30	159.85	-156.28	1,780.17	1,604.95	3,446.62	3,356.63	89.99	38.302		
5,400.00	4,692.75	16,530.00	7,789.95	49.54	159.85	-156.28	1,780.17	1,604.95	3,370.53	3,278.92	91.60	36.795		
5,500.00	4,773.04	16,530.00	7,789.95	50.79	159.85	-156.28	1,780.17	1,604.95	3,295.72	3,202.33	93.38	35.293		
5,600.00	4,853.34	16,530.00	7,789.95	52.03	159.85	-156.28	1,780.17	1,604.95	3,222.27	3,126.94	95.33	33.802		
5,700.00	4,933.63	16,530.00	7,789.95	53.28	159.85	-156.28	1,780.17	1,604.95	3,150.29	3,052.83	97.46	32.325		
5,800.00	5,013.92	16,530.00	7,789.95	54.53	159.85	-156.28	1,780.17	1,604.95	3,079.87	2,980.10	99.77	30.869		
5,900.00	5,094.21	16,530.00	7,789.95	55.77	159.85	-156.28	1,780.17	1,604.95	3,011.13	2,908.84	102.29	29.438		
6,000.00	5,174.51	16,530.00	7,789.95	57.02	159.85	-156.28	1,780.17	1,604.95	2,944.18	2,839.17	105.00	28.039		
6,100.00	5,254.80	16,530.00	7,789.95	58.27	159.85	-156.28	1,780.17	1,604.95	2,879.14	2,771.21	107.93	26.676		
6,200.00	5,335.09	16,530.00	7,789.95	59.52	159.85	-156.28	1,780.17	1,604.95	2,816.16	2,705.08	111.07	25.354		
6,300.00	5,415.38	16,530.00	7,789.95	60.76	159.85	-156.28	1,780.17	1,604.95	2,755.36	2,640.94	114.43	24.080		
6,400.00	5,495.68	16,530.00	7,789.95	62.01	159.85	-156.28	1,780.17	1,604.95	2,696.91	2,578.92	117.99	22.857		
6,500.00	5,575.97	16,530.00	7,789.95	63.26	159.85	-156.28	1,780.17	1,604.95	2,640.95	2,519.18	121.76	21.689		
6,600.00	5,656.26	16,530.00	7,789.95	64.51	159.85	-156.28	1,780.17	1,604.95	2,587.64	2,461.90	125.73	20.580		
6,700.00	5,736.55	16,530.00	7,789.95	65.76	159.85	-156.28	1,780.17	1,604.95	2,537.16	2,407.27	129.89	19.533		
6,800.00	5,816.85	16,530.00	7,789.95	67.01	159.85	-156.28	1,780.17	1,604.95	2,489.67	2,355.46	134.21	18.550		
6,900.00	5,897.14	16,530.00	7,789.95	68.26	159.85	-156.28	1,780.17	1,604.95	2,445.35	2,306.67	138.68	17.633		
7,000.00	5,977.43	16,530.00	7,789.95	69.50	159.85	-156.28	1,780.17	1,604.95	2,404.37	2,261.10	143.27	16.782		
7,100.00	6,057.72	16,530.00	7,789.95	70.75	159.85	-156.28	1,780.17	1,604.95	2,366.92	2,218.97	147.95	15.998		
7,200.00	6,138.02	16,530.00	7,789.95	72.00	159.85	-156.28	1,780.17	1,604.95	2,333.15	2,180.46	152.69	15.281		
7,300.00	6,218.31	16,530.00	7,789.95	73.25	159.85	-156.28	1,780.17	1,604.95	2,303.23	2,145.79	157.44	14.630		
7,400.00	6,298.60	16,530.00	7,789.95	74.50	159.85	-156.28	1,780.17	1,604.95	2,277.31	2,115.15	162.16	14.043		
7,500.00	6,378.90	16,530.00	7,789.95	75.75	159.85	-156.28	1,780.17	1,604.95	2,255.54	2,088.71	166.82	13.521		
7,600.00	6,459.19	16,530.00	7,789.95	77.00	159.85	-156.28	1,780.17	1,604.95	2,238.02	2,066.65	171.37	13.060		
7,700.00	6,539.48	16,530.00	7,789.95	78.25	159.85	-156.28	1,780.17	1,604.95	2,224.86	2,049.10	175.76	12.658		
7,800.00	6,619.77	16,530.00	7,789.95	79.50	159.85	-156.28	1,780.17	1,604.95	2,216.14	2,036.18	179.96	12.315		
7,900.00	6,700.07	16,530.00	7,789.95	80.75	159.85	-156.28	1,780.17	1,604.95	2,211.92	2,027.99	183.92	12.026		
7,943.58	6,735.05	16,530.00	7,789.95	81.30	159.85	-156.28	1,780.17	1,604.95	2,211.49	2,025.92	185.57	11.917 CC		
8,000.00	6,780.36	16,530.00	7,789.95	82.00	159.85	-156.28	1,780.17	1,604.95	2,212.21	2,024.59	187.62	11.791 ES		
8,100.00	6,860.65	16,530.00	7,789.95	83.25	159.85	-156.28	1,780.17	1,604.95	2,217.01	2,026.00	191.02	11.606		
8,200.00	6,940.94	16,530.00	7,789.95	84.50	159.85	-156.28	1,780.17	1,604.95	2,226.31	2,032.20	194.10	11.470		
8,300.00	7,021.24	16,530.00	7,789.95	85.76	159.85	-156.28	1,780.17	1,604.95	2,240.03	2,043.17	196.85	11.379		
8,400.00	7,101.53	16,530.00	7,789.95	87.01	159.85	-156.28	1,780.17	1,604.95	2,258.10	2,058.83	199.27	11.332		
8,500.00	7,181.82	16,530.00	7,789.95	88.26	159.85	-156.28	1,780.17	1,604.95	2,280.41	2,079.07	201.34	11.326 SF		
8,605.60	7,266.61	16,530.00	7,789.95	89.58	159.85	-156.28	1,780.17	1,604.95	2,308.45	2,105.29	203.17	11.362		
8,650.00	7,302.60	16,530.00	7,789.95	90.13	159.85	-163.48	1,780.17	1,604.95	2,321.62	2,117.76	203.86	11.388		
8,700.00	7,343.78	16,530.43	7,789.94	90.72	159.86	-172.24	1,779.74	1,604.96	2,337.41	2,132.78	204.63	11.423		
8,750.00	7,385.32	16,527.31	7,790.04	91.28	159.80	178.64	1,782.85	1,604.84	2,354.08	2,148.65	205.43	11.459		
8,800.00	7,426.92	16,528.55	7,790.00	91.81	159.82	169.27	1,781.62	1,604.89	2,371.48	2,165.32	206.16	11.503		
8,850.00	7,468.27	16,534.12	7,789.82	92.29	159.92	159.96	1,776.05	1,605.11	2,389.48	2,182.63	206.84	11.552		
8,900.00	7,509.04	16,530.00	7,789.95	92.72	159.85	151.36	1,780.17	1,604.95	2,407.92	2,200.32	207.60	11.599		
8,950.00	7,548.93	16,530.00	7,789.95	93.10	159.85	143.29	1,780.17	1,604.95	2,426.65	2,218.36	208.29	11.650		
9,000.00	7,587.63	16,530.00	7,789.95	93.43	159.85	135.94	1,780.17	1,604.95	2,445.53	2,236.58	208.95	11.704		
9,050.00	7,624.85	16,530.00	7,789.95	93.71	159.85	129.32	1,780.17	1,604.95	2,464.41	2,254.81	209.60	11.758		
9,100.00	7,660.30	16,530.00	7,789.95	93.93	159.85	123.42	1,780.17	1,604.95	2,483.14	2,272.93	210.21	11.812		
9,150.00	7,693.72	16,530.00	7,789.95	94.10	159.85	118.18	1,780.17	1,604.95	2,501.60	2,290.79	210.81	11.867		
9,200.00	7,724.85	16,530.00	7,789.95	94.23	159.85	113.53	1,780.17	1,604.95	2,519.64	2,308.27	211.37	11.920		
9,250.00	7,753.45	16,530.00	7,789.95	94.30	159.85	109.43	1,780.17	1,604.95	2,537.14	2,325.23	211.92	11.972		
9,300.00	7,779.31	16,530.00	7,789.95	94.34	159.85	105.82	1,780.17	1,604.95	2,553.99	2,341.55	212.44	12.022		
9,350.00	7,802.23	16,530.00	7,789.95	94.33	159.85	102.66	1,780.17	1,604.95	2,570.06	2,357.12	212.93	12.070		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	16,530.00	7,789.95	94.28	159.85	99.93	1,780.17	1,604.95	2,585.24	2,371.84	213.40	12.114		
9,450.00	7,838.57	16,530.00	7,789.95	94.20	159.85	97.58	1,780.17	1,604.95	2,599.45	2,385.60	213.85	12.155		
9,500.00	7,851.72	16,530.00	7,789.95	94.10	159.85	95.60	1,780.17	1,604.95	2,612.58	2,398.31	214.27	12.193		
9,550.00	7,861.37	16,530.00	7,789.95	93.96	159.85	93.97	1,780.17	1,604.95	2,624.57	2,409.89	214.67	12.226		
9,600.00	7,867.46	16,530.00	7,789.95	93.81	159.85	92.68	1,780.17	1,604.95	2,635.32	2,420.27	215.04	12.255		
9,650.00	7,869.94	16,530.00	7,789.95	93.64	159.85	91.72	1,780.17	1,604.95	2,644.77	2,429.39	215.38	12.279		
9,659.14	7,870.00	16,530.00	7,789.95	93.60	159.85	91.58	1,780.17	1,604.95	2,646.35	2,430.91	215.44	12.283		
9,700.00	7,870.00	16,530.00	7,789.95	93.46	159.85	91.58	1,780.17	1,604.95	2,653.64	2,437.95	215.69	12.303		
9,800.00	7,870.00	16,530.00	7,789.95	93.11	159.85	91.58	1,780.17	1,604.95	2,674.01	2,457.88	216.13	12.372		
9,900.00	7,870.00	16,530.00	7,789.95	92.77	159.85	91.58	1,780.17	1,604.95	2,697.95	2,481.58	216.36	12.470		
10,000.00	7,870.00	16,530.00	7,789.95	92.46	159.85	91.58	1,780.17	1,604.95	2,725.34	2,508.96	216.38	12.595		
10,100.00	7,870.00	16,530.00	7,789.95	92.16	159.85	91.58	1,780.17	1,604.95	2,756.09	2,539.89	216.19	12.748		
10,200.00	7,870.00	16,530.00	7,789.95	91.87	159.85	91.58	1,780.17	1,604.95	2,790.09	2,574.27	215.82	12.928		
10,300.00	7,870.00	16,530.00	7,789.95	91.60	159.85	91.58	1,780.17	1,604.95	2,827.21	2,611.94	215.27	13.133		
10,400.00	7,870.00	16,530.00	7,789.95	91.34	159.85	91.58	1,780.17	1,604.95	2,867.35	2,652.80	214.55	13.364		
10,500.00	7,870.00	16,530.00	7,789.95	91.11	159.85	91.58	1,780.17	1,604.95	2,910.37	2,696.68	213.69	13.619		
10,600.00	7,870.00	16,530.00	7,789.95	90.88	159.85	91.58	1,780.17	1,604.95	2,956.15	2,743.45	212.70	13.898		
10,700.00	7,870.00	16,530.00	7,789.95	90.67	159.85	91.58	1,780.17	1,604.95	3,004.56	2,792.97	211.58	14.200		
10,800.00	7,870.00	16,530.00	7,789.95	90.48	159.85	91.58	1,780.17	1,604.95	3,055.47	2,845.11	210.37	14.525		
10,900.00	7,870.00	16,530.00	7,789.95	90.31	159.85	91.58	1,780.17	1,604.95	3,108.77	2,899.72	209.06	14.870		
11,000.00	7,870.00	16,530.00	7,789.95	90.15	159.85	91.58	1,780.17	1,604.95	3,164.34	2,956.66	207.68	15.237		
11,100.00	7,870.00	16,530.00	7,789.95	90.00	159.85	91.58	1,780.17	1,604.95	3,222.05	3,015.82	206.23	15.623		
11,200.00	7,870.00	16,530.00	7,789.95	89.88	159.85	91.58	1,780.17	1,604.95	3,281.79	3,077.06	204.73	16.030		
11,300.00	7,870.00	16,530.00	7,789.95	89.77	159.85	91.58	1,780.17	1,604.95	3,343.46	3,140.26	203.20	16.454		
11,400.00	7,870.00	16,530.00	7,789.95	89.68	159.85	91.58	1,780.17	1,604.95	3,406.94	3,205.32	201.63	16.897		
11,500.00	7,870.00	16,530.00	7,789.95	89.60	159.85	91.58	1,780.17	1,604.95	3,472.15	3,272.11	200.04	17.358		
11,600.00	7,870.00	16,530.00	7,789.95	89.55	159.85	91.58	1,780.17	1,604.95	3,538.98	3,340.55	198.43	17.835		
11,700.00	7,870.00	16,530.00	7,789.95	89.52	159.85	91.58	1,780.17	1,604.95	3,607.35	3,410.53	196.82	18.328		
11,800.00	7,870.00	16,530.00	7,789.95	89.50	159.85	91.58	1,780.17	1,604.95	3,677.16	3,481.95	195.20	18.837		
11,900.00	7,870.00	16,530.00	7,789.95	89.51	159.85	91.58	1,780.17	1,604.95	3,748.34	3,554.74	193.60	19.362		
12,000.00	7,870.00	16,530.00	7,789.95	89.54	159.85	91.58	1,780.17	1,604.95	3,820.81	3,628.82	192.00	19.901		
12,100.00	7,870.00	16,530.00	7,789.95	89.59	159.85	91.58	1,780.17	1,604.95	3,894.50	3,704.10	190.41	20.453		
12,200.00	7,870.00	16,530.00	7,789.95	89.66	159.85	91.58	1,780.17	1,604.95	3,969.35	3,780.51	188.84	21.020		
12,300.00	7,870.00	16,530.00	7,789.95	89.77	159.85	91.58	1,780.17	1,604.95	4,045.28	3,857.99	187.29	21.599		
12,400.00	7,870.00	16,530.00	7,789.95	89.89	159.85	91.58	1,780.17	1,604.95	4,122.24	3,936.48	185.76	22.192		
12,500.00	7,870.00	16,530.00	7,789.95	90.05	159.85	91.58	1,780.17	1,604.95	4,200.17	4,015.91	184.25	22.796		
12,600.00	7,870.00	16,530.00	7,789.95	90.24	159.85	91.58	1,780.17	1,604.95	4,279.01	4,096.24	182.77	23.412		
12,700.00	7,870.00	16,530.00	7,789.95	90.46	159.85	91.58	1,780.17	1,604.95	4,358.73	4,177.41	181.32	24.039		
12,800.00	7,870.00	16,530.00	7,789.95	90.71	159.85	91.58	1,780.17	1,604.95	4,439.26	4,259.37	179.89	24.677		
12,900.00	7,870.00	16,530.00	7,789.95	90.99	159.85	91.58	1,780.17	1,604.95	4,520.58	4,342.08	178.50	25.326		
13,000.00	7,870.00	16,530.00	7,789.95	91.32	159.85	91.58	1,780.17	1,604.95	4,602.63	4,425.50	177.13	25.985		
13,100.00	7,870.00	16,530.00	7,789.95	91.68	159.85	91.58	1,780.17	1,604.95	4,685.37	4,509.59	175.79	26.653		
13,200.00	7,870.00	16,530.00	7,789.95	92.08	159.85	91.58	1,780.17	1,604.95	4,768.78	4,594.30	174.48	27.331		
13,300.00	7,870.00	16,530.00	7,789.95	92.52	159.85	91.58	1,780.17	1,604.95	4,852.82	4,679.62	173.20	28.018		
13,400.00	7,870.00	16,530.00	7,789.95	93.00	159.85	91.58	1,780.17	1,604.95	4,937.45	4,765.50	171.95	28.714		
13,500.00	7,870.00	16,530.00	7,789.95	93.53	159.85	91.58	1,780.17	1,604.95	5,022.65	4,851.91	170.73	29.418		
13,600.00	7,870.00	16,530.00	7,789.95	94.10	159.85	91.58	1,780.17	1,604.95	5,108.38	4,938.84	169.54	30.131		
13,700.00	7,870.00	16,530.00	7,789.95	94.72	159.85	91.58	1,780.17	1,604.95	5,194.62	5,026.24	168.38	30.851		
13,800.00	7,870.00	16,530.00	7,789.95	95.38	159.85	91.58	1,780.17	1,604.95	5,281.35	5,114.10	167.24	31.579		
13,900.00	7,870.00	16,530.00	7,789.95	96.09	159.85	91.58	1,780.17	1,604.95	5,368.54	5,202.40	166.14	32.314		
14,000.00	7,870.00	16,530.00	7,789.95	96.84	159.85	91.58	1,780.17	1,604.95	5,456.17	5,291.11	165.06	33.056		
14,100.00	7,870.00	16,530.00	7,789.95	97.64	159.85	91.58	1,780.17	1,604.95	5,544.21	5,380.21	164.01	33.805		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	16,530.00	7,789.95	98.48	159.85	91.58	1,780.17	1,604.95	5,632.66	5,469.68	162.98	34.560		
14,300.00	7,870.00	16,530.00	7,789.95	99.37	159.85	91.58	1,780.17	1,604.95	5,721.49	5,559.51	161.98	35.322		
14,400.00	7,870.00	16,530.00	7,789.95	100.30	159.85	91.58	1,780.17	1,604.95	5,810.68	5,649.67	161.01	36.089		
14,500.00	7,870.00	16,530.00	7,789.95	101.26	159.85	91.58	1,780.17	1,604.95	5,900.22	5,740.16	160.06	36.863		
14,600.00	7,870.00	16,530.00	7,789.95	102.27	159.85	91.58	1,780.17	1,604.95	5,990.08	5,830.95	159.13	37.642		
14,700.00	7,870.00	16,530.00	7,789.95	103.31	159.85	91.58	1,780.17	1,604.95	6,080.27	5,922.04	158.23	38.427		
14,800.00	7,870.00	16,530.00	7,789.95	104.38	159.85	91.58	1,780.17	1,604.95	6,170.75	6,013.41	157.35	39.217		
14,900.00	7,870.00	16,530.00	7,789.95	105.49	159.85	91.58	1,780.17	1,604.95	6,261.53	6,105.04	156.49	40.012		
15,000.00	7,870.00	16,530.00	7,789.95	106.63	159.85	91.58	1,780.17	1,604.95	6,352.58	6,196.93	155.66	40.812		
15,100.00	7,870.00	16,530.00	7,789.95	107.80	159.85	91.58	1,780.17	1,604.95	6,443.90	6,289.06	154.84	41.616		
15,200.00	7,870.00	16,530.00	7,789.95	109.00	159.85	91.58	1,780.17	1,604.95	6,535.48	6,381.43	154.05	42.425		
15,300.00	7,870.00	16,530.00	7,789.95	110.22	159.85	91.58	1,780.17	1,604.95	6,627.29	6,474.02	153.27	43.239		
15,400.00	7,870.00	16,530.00	7,789.95	111.47	159.85	91.58	1,780.17	1,604.95	6,719.34	6,566.83	152.52	44.057		
15,500.00	7,870.00	16,530.00	7,789.95	112.74	159.85	91.58	1,780.17	1,604.95	6,811.62	6,659.84	151.78	44.878		
15,600.00	7,870.00	16,530.00	7,789.95	114.03	159.85	91.58	1,780.17	1,604.95	6,904.11	6,753.04	151.06	45.704		
15,700.00	7,870.00	16,530.00	7,789.95	115.34	159.85	91.58	1,780.17	1,604.95	6,996.80	6,846.44	150.36	46.533		
15,800.00	7,870.00	16,530.00	7,789.95	116.68	159.85	91.58	1,780.17	1,604.95	7,089.70	6,940.02	149.68	47.366		
15,900.00	7,870.00	16,530.00	7,789.95	118.02	159.85	91.58	1,780.17	1,604.95	7,182.78	7,033.77	149.01	48.203		
16,000.00	7,870.00	16,530.00	7,789.95	119.39	159.85	91.58	1,780.17	1,604.95	7,276.05	7,127.69	148.36	49.043		
16,100.00	7,870.00	16,530.00	7,789.95	120.77	159.85	91.58	1,780.17	1,604.95	7,369.49	7,221.77	147.73	49.886		
16,200.00	7,870.00	16,530.00	7,789.95	122.17	159.85	91.58	1,780.17	1,604.95	7,463.11	7,316.00	147.11	50.732		
16,300.00	7,870.00	16,530.00	7,789.95	123.58	159.85	91.58	1,780.17	1,604.95	7,556.89	7,410.38	146.51	51.581		
16,400.00	7,870.00	16,530.00	7,789.95	125.00	159.85	91.58	1,780.17	1,604.95	7,650.83	7,504.91	145.92	52.433		
16,500.00	7,870.00	16,530.00	7,789.95	126.43	159.85	91.58	1,780.17	1,604.95	7,744.91	7,599.57	145.34	53.287		
16,600.00	7,870.00	16,530.00	7,789.95	127.88	159.85	91.58	1,780.17	1,604.95	7,839.15	7,694.37	144.78	54.145		
16,700.00	7,870.00	16,530.00	7,789.95	129.34	159.85	91.58	1,780.17	1,604.95	7,933.52	7,789.29	144.23	55.005		
16,800.00	7,870.00	16,530.00	7,789.95	130.81	159.85	91.58	1,780.17	1,604.95	8,028.04	7,884.34	143.70	55.867		
16,900.00	7,870.00	16,530.00	7,789.95	132.28	159.85	91.58	1,780.17	1,604.95	8,122.68	7,979.50	143.18	56.732		
17,000.00	7,870.00	16,530.00	7,789.95	133.77	159.85	91.58	1,780.17	1,604.95	8,217.45	8,074.78	142.67	57.598		
17,100.00	7,870.00	16,530.00	7,789.95	135.27	159.85	91.58	1,780.17	1,604.95	8,312.34	8,170.17	142.17	58.467		
17,200.00	7,870.00	16,530.00	7,789.95	136.77	159.85	91.58	1,780.17	1,604.95	8,407.35	8,265.67	141.68	59.339		
17,300.00	7,870.00	16,530.00	7,789.95	138.28	159.85	91.58	1,780.17	1,604.95	8,502.48	8,361.27	141.21	60.212		
17,400.00	7,870.00	16,530.00	7,789.95	139.80	159.85	91.58	1,780.17	1,604.95	8,597.71	8,456.97	140.75	61.087		
17,500.00	7,870.00	16,530.00	7,789.95	141.33	159.85	91.58	1,780.17	1,604.95	8,693.06	8,552.76	140.29	61.963		
17,600.00	7,870.00	16,530.00	7,789.95	142.86	159.85	91.58	1,780.17	1,604.95	8,788.50	8,648.65	139.85	62.842		
17,700.00	7,870.00	16,530.00	7,789.95	144.40	159.85	91.58	1,780.17	1,604.95	8,884.05	8,744.63	139.42	63.722		
17,800.00	7,870.00	16,530.00	7,789.95	145.95	159.85	91.58	1,780.17	1,604.95	8,979.70	8,840.70	139.00	64.604		
17,900.00	7,870.00	16,530.00	7,789.95	147.50	159.85	91.58	1,780.17	1,604.95	9,075.43	8,936.85	138.58	65.487		
18,000.00	7,870.00	16,530.00	7,789.95	149.06	159.85	91.58	1,780.17	1,604.95	9,171.26	9,033.08	138.18	66.371		
18,100.00	7,870.00	16,530.00	7,789.95	150.63	159.85	91.58	1,780.17	1,604.95	9,267.18	9,129.39	137.79	67.257		
18,200.00	7,870.00	16,530.00	7,789.95	152.20	159.85	91.58	1,780.17	1,604.95	9,363.18	9,225.78	137.40	68.145		
18,300.00	7,870.00	16,530.00	7,789.95	153.77	159.85	91.58	1,780.17	1,604.95	9,459.27	9,322.24	137.02	69.033		
18,400.00	7,870.00	16,530.00	7,789.95	155.35	159.85	91.58	1,780.17	1,604.95	9,555.43	9,418.77	136.66	69.923		
18,500.00	7,870.00	16,530.00	7,789.95	156.93	159.85	91.58	1,780.17	1,604.95	9,651.67	9,515.38	136.30	70.814		
18,600.00	7,870.00	16,530.00	7,789.95	158.52	159.85	91.58	1,780.17	1,604.95	9,747.99	9,612.05	135.95	71.705		
18,700.00	7,870.00	16,530.00	7,789.95	160.11	159.85	91.58	1,780.17	1,604.95	9,844.39	9,708.79	135.60	72.598		
18,800.00	7,870.00	16,530.00	7,789.95	161.71	159.85	91.58	1,780.17	1,604.95	9,940.85	9,805.59	135.26	73.492		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-54.92	787.25	-1,120.81	1,369.71					
100.00	100.00	84.57	84.57	0.13	0.13	-54.92	787.28	-1,120.96	1,369.81	1,369.55	0.27	5,122.761		
200.00	200.00	179.59	179.59	0.49	0.28	-54.93	787.39	-1,121.47	1,370.32	1,369.54	0.77	1,768.265 ES		
300.00	300.00	276.71	276.70	0.85	0.62	-54.94	787.62	-1,122.25	1,371.11	1,369.64	1.47	931.079		
400.00	400.00	375.00	374.99	1.21	0.97	-54.94	788.05	-1,123.14	1,372.11	1,369.92	2.18	628.480		
500.00	500.00	481.03	481.02	1.57	1.35	-54.95	788.43	-1,123.92	1,372.91	1,369.99	2.92	469.920		
600.00	600.00	561.17	561.15	1.93	1.64	-54.96	788.74	-1,124.58	1,373.88	1,370.32	3.57	385.108		
700.00	699.98	615.13	615.07	2.28	1.84	-118.73	789.86	-1,126.03	1,378.26	1,374.14	4.12	334.832		
800.00	799.84	654.00	653.85	2.64	1.98	-118.60	791.93	-1,127.88	1,388.09	1,383.48	4.61	301.330		
900.00	899.45	725.30	724.73	3.00	2.24	-118.45	798.27	-1,132.24	1,402.53	1,397.31	5.22	268.924		
1,000.00	998.70	797.91	796.61	3.37	2.52	-118.26	807.11	-1,137.36	1,421.04	1,415.20	5.84	243.395		
1,100.00	1,097.47	878.98	876.70	3.76	2.83	-118.12	817.89	-1,143.80	1,442.58	1,436.08	6.50	221.775		
1,200.00	1,195.62	963.71	960.27	4.18	3.18	-118.03	829.93	-1,150.93	1,466.68	1,459.48	7.21	203.543		
1,300.00	1,293.06	1,068.20	1,063.22	4.63	3.61	-118.07	845.46	-1,159.79	1,492.88	1,484.87	8.01	186.279		
1,400.00	1,389.64	1,172.65	1,166.18	5.11	4.06	-118.16	861.45	-1,166.96	1,519.68	1,510.83	8.85	171.638		
1,500.00	1,485.27	1,270.41	1,262.63	5.63	4.48	-118.31	875.85	-1,173.79	1,548.02	1,538.32	9.70	159.602		
1,600.00	1,579.82	1,360.52	1,351.59	6.20	4.86	-118.47	888.68	-1,180.33	1,578.13	1,567.58	10.54	149.684		
1,700.00	1,673.17	1,500.90	1,490.52	6.83	5.45	-119.17	906.98	-1,188.57	1,608.22	1,596.57	11.64	138.106		
1,800.00	1,765.21	1,590.68	1,579.46	7.51	5.82	-119.47	918.37	-1,192.98	1,639.55	1,626.99	12.56	130.540		
1,900.00	1,855.84	1,674.50	1,662.54	8.24	6.17	-119.75	928.59	-1,197.51	1,673.08	1,659.60	13.48	124.098		
2,000.00	1,944.94	1,753.27	1,740.65	9.05	6.49	-120.04	937.20	-1,202.82	1,709.25	1,694.84	14.41	118.610		
2,100.00	2,032.39	1,841.39	1,828.07	9.91	6.86	-120.49	946.10	-1,209.50	1,747.98	1,732.57	15.41	113.412		
2,200.00	2,118.11	1,938.21	1,924.12	10.85	7.25	-121.04	956.63	-1,215.55	1,788.28	1,771.79	16.49	108.428		
2,300.00	2,201.97	2,026.40	2,011.57	11.85	7.62	-121.46	966.74	-1,220.80	1,830.95	1,813.38	17.57	104.224		
2,400.00	2,283.88	2,124.67	2,109.07	12.93	8.02	-122.02	978.09	-1,225.49	1,875.08	1,856.35	18.72	100.141		
2,429.47	2,307.63	2,148.36	2,132.57	13.26	8.12	-122.11	980.87	-1,226.54	1,888.49	1,869.45	19.05	99.157		
2,500.00	2,364.26	2,200.84	2,184.63	14.06	8.33	-122.86	987.11	-1,228.88	1,921.08	1,901.29	19.79	97.069		
2,600.00	2,444.56	2,273.57	2,256.74	15.22	8.63	-123.87	995.89	-1,232.36	1,968.19	1,947.36	20.83	94.472		
2,700.00	2,524.85	2,353.53	2,336.06	16.39	8.96	-124.95	1,005.10	-1,236.48	2,016.10	1,994.19	21.90	92.044		
2,800.00	2,605.14	2,431.46	2,413.40	17.57	9.28	-125.98	1,013.65	-1,240.74	2,064.72	2,041.77	22.95	89.968		
2,900.00	2,685.43	2,519.77	2,501.01	18.76	9.64	-127.09	1,023.76	-1,245.22	2,113.79	2,089.74	24.05	87.909		
3,000.00	2,765.73	2,607.85	2,588.42	19.96	10.00	-128.14	1,033.80	-1,249.35	2,163.10	2,137.97	25.13	86.073		
3,100.00	2,846.02	2,695.60	2,675.58	21.16	10.36	-129.16	1,043.25	-1,253.31	2,212.65	2,186.45	26.20	84.447		
3,200.00	2,926.31	2,784.20	2,763.54	22.37	10.71	-130.13	1,053.17	-1,256.88	2,262.41	2,235.14	27.27	82.963		
3,300.00	3,006.60	2,866.43	2,845.17	23.59	11.05	-130.99	1,062.64	-1,259.96	2,312.47	2,284.17	28.30	81.723		
3,400.00	3,086.90	2,957.74	2,935.90	24.81	11.41	-131.92	1,072.38	-1,263.30	2,362.70	2,333.34	29.36	80.478		
3,500.00	3,167.19	3,009.57	2,987.41	26.03	11.62	-132.45	1,077.67	-1,265.53	2,413.72	2,383.54	30.18	79.988		
3,600.00	3,247.48	3,061.26	3,038.74	27.25	11.83	-132.95	1,083.09	-1,268.24	2,465.96	2,434.99	30.98	79.606		
3,700.00	3,327.77	3,109.24	3,086.31	28.48	12.03	-133.40	1,088.59	-1,271.26	2,519.55	2,487.81	31.74	79.379		
3,800.00	3,408.07	3,176.23	3,152.62	29.71	12.31	-134.00	1,096.84	-1,276.06	2,574.24	2,541.62	32.62	78.920		
3,900.00	3,488.36	3,269.12	3,244.59	30.94	12.71	-134.81	1,108.11	-1,282.67	2,629.22	2,595.56	33.66	78.115		
4,000.00	3,568.65	3,371.88	3,346.53	32.17	13.13	-135.69	1,119.16	-1,289.36	2,683.78	2,649.03	34.74	77.248		
4,100.00	3,648.95	3,497.70	3,471.53	33.41	13.64	-136.73	1,131.77	-1,295.99	2,737.53	2,701.57	35.96	76.132		
4,200.00	3,729.24	3,565.43	3,538.80	34.64	13.91	-137.26	1,138.98	-1,299.11	2,791.15	2,754.34	36.80	75.836		
4,300.00	3,809.53	3,624.18	3,597.09	35.88	14.15	-137.69	1,145.71	-1,302.09	2,845.48	2,807.89	37.59	75.696		
4,400.00	3,889.82	3,687.18	3,659.53	37.12	14.41	-138.14	1,153.31	-1,305.70	2,900.62	2,862.22	38.40	75.540		
4,500.00	3,970.12	3,765.74	3,737.40	38.36	14.74	-138.68	1,162.51	-1,310.51	2,956.25	2,916.95	39.30	75.217		
4,600.00	4,050.41	3,870.51	3,841.44	39.60	15.17	-139.41	1,173.36	-1,316.43	3,011.53	2,971.17	40.37	74.605		
4,700.00	4,130.70	3,945.21	3,915.65	40.84	15.47	-139.92	1,180.84	-1,320.49	3,066.87	3,025.65	41.22	74.404		
4,800.00	4,210.99	4,011.55	3,981.52	42.08	15.74	-140.35	1,187.82	-1,324.29	3,122.66	3,080.64	42.01	74.325		
4,900.00	4,291.29	4,155.59	4,124.80	43.32	16.30	-141.29	1,200.64	-1,331.20	3,177.60	3,134.30	43.30	73.386		
5,000.00	4,371.58	4,227.21	4,196.16	44.57	16.58	-141.75	1,206.03	-1,334.21	3,232.35	3,188.25	44.10	73.300		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,287.65	4,256.30	45.81	16.81	-142.12	1,211.35	-1,337.00	3,287.69	3,242.87	44.82	73.346		
5,200.00	4,532.16	4,348.13	4,316.43	47.05	17.05	-142.47	1,217.07	-1,340.12	3,343.67	3,298.12	45.55	73.405		
5,300.00	4,612.46	4,416.24	4,384.11	48.30	17.33	-142.86	1,223.62	-1,343.96	3,400.21	3,353.88	46.33	73.398		
5,400.00	4,692.75	4,489.96	4,457.34	49.54	17.62	-143.26	1,231.02	-1,348.24	3,457.05	3,409.91	47.14	73.338		
5,500.00	4,773.04	4,555.08	4,521.99	50.79	17.89	-143.60	1,237.66	-1,352.21	3,514.26	3,466.37	47.89	73.385		
5,600.00	4,853.34	4,624.15	4,590.55	52.03	18.17	-143.95	1,244.77	-1,356.65	3,571.87	3,523.21	48.66	73.400		
5,700.00	4,933.63	4,740.67	4,706.12	53.28	18.65	-144.51	1,257.68	-1,363.91	3,629.57	3,579.77	49.79	72.894		
5,800.00	5,013.92	4,868.37	4,832.61	54.53	19.19	-145.05	1,274.22	-1,369.74	3,685.94	3,634.91	51.03	72.230		
5,900.00	5,094.21	4,939.95	4,903.48	55.77	19.49	-145.33	1,283.89	-1,372.71	3,742.17	3,690.31	51.85	72.168		
6,000.00	5,174.51	4,995.65	4,958.57	57.02	19.73	-145.54	1,291.64	-1,375.30	3,798.87	3,746.32	52.55	72.284		
6,100.00	5,254.80	5,090.12	5,052.01	58.27	20.13	-145.89	1,304.72	-1,379.98	3,855.94	3,802.38	53.55	72.005		
6,200.00	5,335.09	5,186.41	5,147.53	59.52	20.52	-146.27	1,316.14	-1,384.24	3,912.57	3,858.03	54.53	71.746		
6,300.00	5,415.38	5,267.31	5,227.87	60.76	20.85	-146.59	1,324.91	-1,387.68	3,969.14	3,913.75	55.39	71.661		
6,400.00	5,495.68	5,350.83	5,310.80	62.01	21.19	-146.92	1,334.14	-1,391.21	4,025.78	3,969.52	56.26	71.556		
6,500.00	5,575.97	5,420.94	5,380.40	63.26	21.48	-147.17	1,342.15	-1,394.19	4,082.52	4,025.48	57.04	71.575		
6,600.00	5,656.26	5,481.58	5,440.50	64.51	21.73	-147.38	1,349.63	-1,396.99	4,139.64	4,081.90	57.75	71.685		
6,700.00	5,736.55	5,534.57	5,493.00	65.76	21.95	-147.56	1,356.38	-1,399.75	4,197.31	4,138.91	58.40	71.873		
6,800.00	5,816.85	5,618.12	5,575.75	67.01	22.30	-147.83	1,366.88	-1,404.45	4,255.36	4,196.08	59.29	71.777		
6,900.00	5,897.14	5,695.11	5,652.10	68.26	22.62	-148.09	1,375.76	-1,408.62	4,313.32	4,253.22	60.11	71.760		
7,000.00	5,977.43	5,731.00	5,687.74	69.50	22.76	-148.22	1,379.60	-1,410.62	4,371.66	4,311.06	60.60	72.137		
7,100.00	6,057.72	5,787.28	5,743.56	70.75	23.00	-148.40	1,385.83	-1,414.19	4,430.57	4,369.32	61.25	72.332		
7,200.00	6,138.02	5,830.69	5,786.52	72.00	23.18	-148.54	1,391.09	-1,417.46	4,490.35	4,428.55	61.80	72.656		
7,300.00	6,218.31	5,925.32	5,880.13	73.25	23.59	-148.82	1,402.86	-1,424.78	4,550.37	4,487.60	62.78	72.486		
7,400.00	6,298.60	6,044.24	5,998.03	74.50	24.08	-149.19	1,416.09	-1,432.91	4,609.68	4,545.76	63.92	72.113		
7,500.00	6,378.90	6,111.31	6,064.59	75.75	24.36	-149.39	1,423.11	-1,437.36	4,668.97	4,604.32	64.65	72.221		
7,600.00	6,459.19	6,165.28	6,118.12	77.00	24.58	-149.56	1,428.78	-1,441.18	4,728.67	4,663.40	65.27	72.451		
7,700.00	6,539.48	6,222.59	6,174.93	78.25	24.82	-149.73	1,434.92	-1,445.52	4,788.80	4,722.89	65.91	72.653		
7,800.00	6,619.77	6,298.65	6,250.28	79.50	25.14	-149.94	1,443.36	-1,451.59	4,849.28	4,782.56	66.71	72.688		
7,900.00	6,700.07	6,436.42	6,386.93	80.75	25.70	-150.33	1,457.72	-1,461.57	4,909.28	4,841.28	68.00	72.195		
8,000.00	6,780.36	6,640.53	6,589.58	82.00	26.53	-150.88	1,479.25	-1,472.74	4,968.03	4,898.24	69.79	71.184		
8,100.00	6,860.65	6,716.80	6,665.46	83.25	26.83	-151.09	1,486.26	-1,475.84	5,025.63	4,955.06	70.57	71.214		
8,200.00	6,940.94	6,778.50	6,726.90	84.50	27.07	-151.27	1,491.34	-1,478.46	5,083.46	5,012.23	71.23	71.368		
8,300.00	7,021.24	6,841.88	6,790.00	85.76	27.31	-151.45	1,496.47	-1,481.37	5,141.62	5,069.72	71.90	71.513		
8,400.00	7,101.53	6,915.82	6,863.62	87.01	27.60	-151.65	1,502.36	-1,484.97	5,200.05	5,127.41	72.64	71.587		
8,500.00	7,181.82	7,009.23	6,956.74	88.26	27.95	-151.93	1,508.24	-1,489.24	5,258.39	5,184.89	73.50	71.540		
8,605.60	7,266.61	7,090.64	7,037.99	89.58	28.24	-152.18	1,512.03	-1,492.79	5,319.97	5,245.71	74.26	71.636		
8,650.00	7,302.60	7,120.54	7,067.85	90.13	28.34	-161.29	1,512.68	-1,494.08	5,346.05	5,271.52	74.53	71.727		
8,700.00	7,343.78	7,154.41	7,101.69	90.72	28.45	-172.10	1,512.73	-1,495.52	5,375.62	5,300.80	74.81	71.853		
8,750.00	7,385.32	7,157.00	7,104.28	91.28	28.46	176.79	1,512.70	-1,495.63	5,405.28	5,330.41	74.87	72.192		
8,800.00	7,426.92	7,157.00	7,104.28	91.81	28.46	165.63	1,512.70	-1,495.63	5,434.97	5,360.08	74.89	72.571		
8,850.00	7,468.27	7,157.00	7,104.28	92.29	28.46	154.80	1,512.70	-1,495.63	5,464.45	5,389.57	74.88	72.973		
8,900.00	7,509.04	7,190.88	7,138.08	92.72	28.55	144.72	1,511.48	-1,497.39	5,493.02	5,417.98	75.04	73.202		
8,950.00	7,548.93	7,199.26	7,146.43	93.10	28.57	135.41	1,510.91	-1,497.93	5,521.18	5,446.14	75.03	73.584		
9,000.00	7,587.63	7,207.48	7,154.60	93.43	28.60	127.04	1,510.25	-1,498.49	5,548.44	5,473.43	75.01	73.973		
9,050.00	7,624.85	7,246.00	7,192.74	93.71	28.70	119.81	1,505.84	-1,501.63	5,575.01	5,499.89	75.11	74.221		
9,100.00	7,660.30	7,246.00	7,192.74	93.93	28.70	113.28	1,505.84	-1,501.63	5,599.76	5,524.74	75.02	74.642		
9,150.00	7,693.72	7,246.00	7,192.74	94.10	28.70	107.59	1,505.84	-1,501.63	5,623.14	5,548.22	74.92	75.052		
9,200.00	7,724.85	7,246.00	7,192.74	94.23	28.70	102.66	1,505.84	-1,501.63	5,645.00	5,570.17	74.82	75.445		
9,250.00	7,753.45	7,246.00	7,192.74	94.30	28.70	98.43	1,505.84	-1,501.63	5,665.17	5,590.45	74.72	75.814		
9,300.00	7,779.31	7,246.00	7,192.74	94.34	28.70	94.83	1,505.84	-1,501.63	5,683.54	5,608.91	74.63	76.152		
9,350.00	7,802.23	7,246.00	7,192.74	94.33	28.70	91.80	1,505.84	-1,501.63	5,699.98	5,625.42	74.56	76.453		
9,400.00	7,822.03	7,246.00	7,192.74	94.28	28.70	89.29	1,505.84	-1,501.63	5,714.37	5,639.88	74.49	76.710		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,246.00	7,192.74	94.20	28.70	87.26	1,505.84	-1,501.63	5,726.63	5,652.18	74.45	76.919		
9,500.00	7,851.72	7,278.49	7,224.62	94.10	28.77	85.98	1,500.50	-1,504.85	5,736.35	5,661.78	74.57	76.926		
9,550.00	7,861.37	7,283.46	7,229.48	93.96	28.78	84.87	1,499.56	-1,505.38	5,744.01	5,669.41	74.60	77.000		
9,600.00	7,867.46	7,287.74	7,233.64	93.81	28.79	84.15	1,498.73	-1,505.85	5,749.36	5,674.70	74.65	77.016		
9,650.00	7,869.94	7,291.24	7,237.06	93.64	28.79	83.82	1,498.03	-1,506.24	5,752.35	5,677.62	74.73	76.973		
9,659.14	7,870.00	7,291.80	7,237.59	93.60	28.80	83.80	1,497.92	-1,506.30	5,752.64	5,677.89	74.75	76.958		
9,700.00	7,870.00	7,294.25	7,239.98	93.46	28.80	83.82	1,497.42	-1,506.58	5,753.92	5,679.09	74.83	76.890		
9,800.00	7,870.00	7,300.58	7,246.12	93.11	28.81	83.88	1,496.09	-1,507.30	5,758.24	5,683.18	75.06	76.715		
9,900.00	7,870.00	8,195.06	7,887.53	92.77	29.16	90.28	945.92	-1,548.14	5,758.82	5,684.65	74.17	77.644		
10,000.00	7,870.00	8,249.80	7,901.37	92.46	29.20	90.42	892.98	-1,547.00	5,756.54	5,682.26	74.28	77.495		
10,100.00	7,870.00	8,294.07	7,910.28	92.16	29.26	90.51	849.62	-1,546.50	5,755.21	5,680.73	74.48	77.270		
10,200.00	7,870.00	8,412.36	7,924.52	91.87	29.54	90.65	732.27	-1,545.89	5,754.52	5,680.01	74.51	77.232		
10,300.00	7,870.00	8,612.29	7,928.78	91.60	30.41	90.70	532.44	-1,543.59	5,753.60	5,678.96	74.63	77.090		
10,400.00	7,870.00	8,671.00	7,928.59	91.34	30.73	90.69	473.74	-1,542.42	5,751.19	5,676.10	75.10	76.584		
10,500.00	7,870.00	8,671.00	7,928.59	91.11	30.73	90.69	473.74	-1,542.42	5,749.90	5,674.30	75.60	76.057		
10,562.58	7,870.00	8,709.33	7,928.14	90.96	30.97	90.69	435.41	-1,542.21	5,749.51	5,673.54	75.97	75.683		
10,600.00	7,870.00	8,719.55	7,927.99	90.88	31.04	90.69	425.19	-1,542.27	5,749.60	5,673.43	76.17	75.482		
10,700.00	7,870.00	8,760.00	7,927.22	90.67	31.29	90.68	384.76	-1,542.99	5,750.76	5,673.99	76.77	74.906		
10,800.00	7,870.00	8,760.00	7,927.22	90.48	31.29	90.68	384.76	-1,542.99	5,753.14	5,675.78	77.35	74.374		
10,900.00	7,870.00	8,815.79	7,926.63	90.31	31.69	90.67	329.01	-1,544.96	5,756.52	5,678.44	78.08	73.727		
11,000.00	7,870.00	9,133.93	7,938.74	90.15	34.36	90.79	11.27	-1,552.34	5,758.36	5,678.26	80.10	71.890		
11,100.00	7,870.00	9,256.83	7,941.11	90.00	35.57	90.82	-111.60	-1,552.82	5,758.45	5,676.87	81.58	70.583		
11,200.00	7,870.00	9,405.22	7,943.56	89.88	37.14	90.84	-259.97	-1,552.38	5,757.83	5,674.39	83.45	69.000		
11,300.00	7,870.00	9,521.40	7,945.73	89.77	38.45	90.86	-376.13	-1,551.44	5,756.71	5,671.48	85.23	67.542		
11,400.00	7,870.00	9,629.68	7,947.32	89.68	39.73	90.88	-484.39	-1,550.26	5,755.31	5,668.24	87.07	66.102		
11,500.00	7,870.00	9,740.00	7,948.00	89.60	41.07	90.89	-594.70	-1,548.69	5,753.53	5,664.50	89.03	64.622		
11,600.00	7,870.00	9,792.18	7,948.08	89.55	41.73	90.89	-646.87	-1,548.09	5,752.18	5,661.74	90.44	63.604		
11,681.69	7,870.00	9,829.00	7,948.24	89.52	42.20	90.89	-683.69	-1,548.11	5,751.90	5,660.36	91.54	62.834		
11,700.00	7,870.00	9,833.33	7,948.27	89.52	42.25	90.89	-688.02	-1,548.13	5,751.93	5,660.19	91.74	62.698		
11,800.00	7,870.00	9,923.86	7,949.33	89.50	43.42	90.90	-778.54	-1,548.72	5,752.26	5,658.58	93.68	61.403		
11,900.00	7,870.00	10,032.17	7,950.40	89.51	44.86	90.91	-886.84	-1,549.48	5,752.65	5,656.73	95.92	59.971		
12,000.00	7,870.00	10,139.77	7,950.36	89.54	46.31	90.91	-994.44	-1,549.92	5,752.71	5,654.47	98.24	58.559		
12,100.00	7,870.00	10,217.30	7,949.11	89.59	47.38	90.90	-1,071.96	-1,550.45	5,753.03	5,652.83	100.20	57.416		
12,200.00	7,870.00	10,304.86	7,948.83	89.66	48.60	90.89	-1,159.51	-1,551.38	5,753.74	5,651.38	102.36	56.213		
12,300.00	7,870.00	10,430.50	7,948.51	89.77	50.39	90.89	-1,285.15	-1,552.46	5,754.26	5,649.12	105.14	54.728		
12,400.00	7,870.00	10,554.03	7,947.62	89.89	52.18	90.88	-1,408.68	-1,553.00	5,754.34	5,646.36	107.98	53.291		
12,500.00	7,870.00	10,686.81	7,947.49	90.05	54.14	90.88	-1,541.45	-1,553.06	5,754.09	5,643.03	111.06	51.811		
12,600.00	7,870.00	10,840.34	7,951.39	90.24	56.45	90.92	-1,694.92	-1,551.34	5,752.53	5,637.94	114.59	50.201		
12,700.00	7,870.00	10,899.00	7,952.07	90.46	57.34	90.93	-1,753.57	-1,550.81	5,751.29	5,634.74	116.56	49.344		
12,800.00	7,870.00	12,800.00	7,951.30	90.71	86.63	90.92	-1,912.85	-1,548.99	5,749.76	5,602.57	147.19	39.064		
12,900.00	7,870.00	11,136.56	7,950.83	90.99	60.99	90.92	-1,991.10	-1,547.72	5,747.84	5,625.16	122.68	46.852		
13,000.00	7,870.00	11,293.57	7,953.86	91.32	63.44	90.95	-2,148.03	-1,544.35	5,745.16	5,618.61	126.54	45.400		
13,100.00	7,870.00	11,344.00	7,954.85	91.68	64.24	90.96	-2,198.45	-1,543.66	5,743.26	5,614.79	128.48	44.703		
13,200.00	7,870.00	11,428.28	7,955.84	92.08	65.57	90.97	-2,282.72	-1,542.99	5,742.09	5,611.04	131.05	43.816		
13,300.00	7,870.00	11,558.61	7,957.05	92.52	67.64	90.98	-2,413.03	-1,540.77	5,739.95	5,605.42	134.54	42.664		
13,400.00	7,870.00	11,611.00	7,958.33	93.00	68.48	90.99	-2,465.40	-1,540.13	5,738.43	5,601.88	136.55	42.024		
13,500.00	7,870.00	11,800.75	7,960.06	93.53	71.53	91.01	-2,655.11	-1,537.39	5,736.78	5,595.51	141.27	40.607		
13,600.00	7,870.00	11,879.00	7,958.45	94.10	72.80	90.99	-2,733.32	-1,535.76	5,734.31	5,590.48	143.84	39.867		
13,700.00	7,870.00	11,939.71	7,956.39	94.72	73.78	90.97	-2,793.99	-1,534.77	5,732.32	5,586.27	146.06	39.248		
13,800.00	7,870.00	11,968.00	7,955.32	95.38	74.24	90.96	-2,822.26	-1,534.49	5,731.22	5,583.60	147.62	38.823		
13,849.49	7,870.00	11,997.31	7,954.21	95.73	74.72	90.95	-2,851.55	-1,534.43	5,731.01	5,582.30	148.71	38.539		
13,900.00	7,870.00	12,012.25	7,953.68	96.09	74.96	90.95	-2,866.47	-1,534.53	5,731.17	5,581.66	149.50	38.335		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	12,057.00	7,952.25	96.84	75.69	90.93	-2,911.19	-1,535.40	5,732.47	5,581.08	151.39	37.865		
14,100.00	7,870.00	12,091.89	7,951.21	97.64	76.26	90.92	-2,946.05	-1,536.44	5,734.78	5,581.71	153.07	37.466		
14,200.00	7,870.00	12,161.17	7,949.15	98.48	77.38	90.90	-3,015.27	-1,538.76	5,737.75	5,582.29	155.46	36.909		
14,300.00	7,870.00	12,222.93	7,947.96	99.37	78.38	90.89	-3,076.96	-1,541.20	5,741.34	5,583.64	157.69	36.408		
14,400.00	7,870.00	12,404.16	7,946.00	100.30	81.35	90.87	-3,258.09	-1,546.98	5,743.86	5,581.35	162.51	35.344		
14,500.00	7,870.00	12,625.52	7,952.36	101.26	85.00	90.93	-3,479.31	-1,549.58	5,744.06	5,575.78	168.28	34.134		
14,600.00	7,870.00	12,680.00	7,955.27	102.27	85.91	90.96	-3,533.70	-1,550.37	5,745.08	5,574.63	170.45	33.705		
14,700.00	7,870.00	12,708.57	7,956.73	103.31	86.38	90.97	-3,562.23	-1,551.08	5,747.00	5,574.97	172.04	33.406		
14,800.00	7,870.00	12,770.00	7,958.58	104.38	87.40	90.99	-3,623.60	-1,553.02	5,749.84	5,575.50	174.34	32.980		
14,900.00	7,870.00	12,877.48	7,958.88	105.49	89.18	91.00	-3,731.01	-1,556.73	5,752.96	5,575.29	177.67	32.380		
15,000.00	7,870.00	12,998.12	7,958.04	106.63	91.18	90.99	-3,851.58	-1,560.65	5,755.88	5,574.58	181.30	31.747		
15,100.00	7,870.00	15,100.00	7,953.72	107.80	126.37	90.94	-4,024.77	-1,564.94	5,758.07	5,539.64	218.43	26.361		
15,200.00	7,870.00	13,289.00	7,952.70	109.00	96.05	90.93	-4,142.32	-1,566.46	5,758.97	5,569.22	189.75	30.351		
15,300.00	7,870.00	13,349.95	7,953.33	110.22	97.07	90.94	-4,203.27	-1,567.48	5,760.33	5,568.24	192.09	29.987		
15,400.00	7,870.00	13,643.22	7,957.64	111.47	102.02	90.98	-4,496.46	-1,567.77	5,759.63	5,559.92	199.72	28.839		
15,500.00	7,870.00	13,746.36	7,961.86	112.74	103.78	91.02	-4,599.50	-1,566.30	5,757.95	5,554.87	203.08	28.354		
15,600.00	7,870.00	13,928.00	7,966.56	114.03	106.87	91.07	-4,781.02	-1,561.78	5,754.86	5,546.65	208.21	27.640		
15,700.00	7,870.00	13,981.68	7,967.30	115.34	107.79	91.08	-4,834.66	-1,560.04	5,751.69	5,541.22	210.48	27.327		
15,800.00	7,870.00	14,017.00	7,968.03	116.68	108.39	91.09	-4,869.97	-1,559.62	5,750.04	5,537.73	212.32	27.082		
15,900.00	7,870.00	14,055.67	7,968.94	118.02	109.05	91.10	-4,908.63	-1,559.59	5,749.50	5,535.28	214.21	26.840		
15,914.93	7,870.00	14,063.96	7,969.13	118.23	109.19	91.10	-4,916.91	-1,559.61	5,749.49	5,534.93	214.55	26.797		
16,000.00	7,870.00	14,113.25	7,970.31	119.39	110.03	91.11	-4,966.19	-1,559.92	5,749.77	5,533.23	216.53	26.554		
16,100.00	7,870.00	14,190.96	7,971.97	120.77	111.35	91.13	-5,043.88	-1,560.78	5,750.58	5,531.26	219.32	26.220		
16,200.00	7,870.00	14,282.85	7,972.94	122.17	112.92	91.14	-5,135.76	-1,562.07	5,751.67	5,529.23	222.44	25.857		
16,300.00	7,870.00	14,354.06	7,973.35	123.58	114.13	91.14	-5,206.95	-1,563.30	5,753.07	5,528.00	225.07	25.561		
16,400.00	7,870.00	14,549.58	7,978.65	125.00	117.47	91.19	-5,402.38	-1,565.09	5,753.53	5,522.86	230.67	24.943		
16,500.00	7,870.00	14,640.00	7,980.33	126.43	119.02	91.21	-5,492.78	-1,564.92	5,753.09	5,519.31	233.78	24.609		
16,529.23	7,870.00	14,668.92	7,980.63	126.86	119.52	91.21	-5,521.70	-1,564.90	5,752.98	5,518.22	234.75	24.507		
16,600.00	7,870.00	14,690.50	7,980.97	127.88	119.88	91.21	-5,543.28	-1,565.09	5,753.40	5,517.45	235.95	24.384		
16,700.00	7,870.00	14,730.00	7,981.85	129.34	120.56	91.22	-5,582.76	-1,565.92	5,755.04	5,517.21	237.83	24.198		
16,800.00	7,870.00	15,026.44	7,989.50	130.81	125.64	91.30	-5,879.01	-1,567.93	5,755.50	5,509.63	245.87	23.409		
16,900.00	7,870.00	15,086.00	7,989.84	132.28	126.67	91.30	-5,938.57	-1,567.65	5,754.64	5,506.35	248.28	23.178		
17,000.00	7,870.00	17,000.00	7,992.92	133.77	159.72	91.33	-6,104.92	-1,566.11	5,753.40	5,469.98	283.42	20.300		
17,100.00	7,870.00	15,295.08	7,993.63	135.27	130.27	91.34	-6,147.59	-1,565.54	5,751.97	5,496.72	255.25	22.535		
17,161.62	7,870.00	15,311.08	7,993.80	136.19	130.55	91.34	-6,163.59	-1,565.53	5,751.73	5,495.49	256.24	22.447		
17,200.00	7,870.00	15,321.04	7,993.88	136.77	130.72	91.34	-6,173.56	-1,565.58	5,751.82	5,494.97	256.85	22.394		
17,300.00	7,870.00	15,639.20	7,999.15	138.28	136.22	91.40	-6,491.57	-1,561.43	5,749.78	5,484.40	265.38	21.666		
17,400.00	7,870.00	15,719.66	8,000.63	139.80	137.61	91.41	-6,571.98	-1,559.17	5,746.67	5,478.34	268.34	21.416		
17,500.00	7,870.00	15,816.49	8,004.12	141.33	139.29	91.45	-6,668.71	-1,556.52	5,743.69	5,472.02	271.67	21.142		
17,600.00	7,870.00	15,893.71	8,007.47	142.86	140.64	91.48	-6,745.83	-1,554.65	5,741.03	5,466.48	274.55	20.910		
17,700.00	7,870.00	16,071.56	8,013.61	144.40	143.73	91.55	-6,923.48	-1,548.98	5,737.39	5,457.62	279.78	20.507		
17,800.00	7,870.00	16,109.36	8,014.68	145.95	144.39	91.56	-6,961.25	-1,547.85	5,734.11	5,452.35	281.76	20.351		
17,900.00	7,870.00	16,155.00	8,016.36	147.50	145.18	91.57	-7,006.85	-1,546.95	5,731.85	5,447.95	283.89	20.190		
18,000.00	7,870.00	16,202.69	8,018.30	149.06	146.01	91.59	-7,054.49	-1,546.45	5,730.52	5,444.46	286.06	20.033		
18,100.00	7,870.00	18,100.00	8,022.03	150.63	178.95	91.63	-7,157.97	-1,545.84	5,729.70	5,408.98	320.72	17.865		
18,200.00	7,870.00	16,438.37	8,025.35	152.20	150.10	91.66	-7,290.05	-1,544.24	5,728.15	5,434.40	293.75	19.500		
18,300.00	7,870.00	16,528.48	8,026.04	153.77	151.67	91.67	-7,380.15	-1,543.19	5,726.68	5,429.75	296.93	19.286		
18,400.00	7,870.00	16,601.00	8,025.59	155.35	152.93	91.67	-7,452.66	-1,542.58	5,725.50	5,425.81	299.69	19.105		
18,495.16	7,870.00	16,645.55	8,025.31	156.86	153.70	91.66	-7,497.21	-1,542.51	5,725.05	5,423.34	301.70	18.976		
18,500.00	7,870.00	16,647.63	8,025.31	156.93	153.73	91.66	-7,499.29	-1,542.52	5,725.05	5,423.25	301.80	18.970		
18,600.00	7,870.00	16,690.00	8,025.59	158.52	154.47	91.67	-7,541.66	-1,542.88	5,725.60	5,421.81	303.78	18.848		
18,700.00	7,870.00	16,746.87	8,026.29	160.11	155.45	91.67	-7,598.52	-1,543.86	5,727.02	5,420.91	306.11	18.709		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	16,918.01	8,029.53	161.71	158.42	91.71	-7,769.60	-1,546.45	5,728.28	5,416.96	311.32	18.400	
18,900.00	7,870.00	17,060.35	8,034.40	163.31	160.89	91.75	-7,911.85	-1,547.23	5,728.64	5,412.84	315.81	18.140	
19,000.00	7,870.00	17,167.42	8,036.25	164.91	162.75	91.77	-8,018.91	-1,547.23	5,728.36	5,408.95	319.41	17.934	
19,091.37	7,870.00	17,241.93	8,036.87	166.38	164.05	91.78	-8,093.41	-1,547.31	5,728.18	5,406.05	322.13	17.782	
19,100.00	7,870.00	17,247.14	8,036.89	166.52	164.14	91.78	-8,098.62	-1,547.33	5,728.18	5,405.84	322.34	17.771	
19,200.00	7,870.00	17,313.00	8,036.77	168.13	165.28	91.78	-8,164.48	-1,547.84	5,728.59	5,403.67	324.92	17.631	
19,300.00	7,870.00	17,464.42	8,033.90	169.75	167.91	91.75	-8,315.86	-1,548.73	5,728.78	5,399.15	329.63	17.380	
19,383.51	7,870.00	17,546.00	8,031.39	171.10	169.33	91.72	-8,397.41	-1,548.83	5,728.52	5,396.08	332.44	17.232 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 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		
0.00	0.00	0.00	0.00	0.00	0.00	-54.67	787.25	-1,110.74	1,361.48					
100.00	100.00	96.03	96.03	0.13	0.14	-54.67	787.07	-1,110.56	1,361.20	1,360.92	0.28	4,880.964		
200.00	200.00	196.65	196.64	0.49	0.41	-54.68	786.58	-1,110.11	1,360.56	1,359.65	0.91	1,501.579		
300.00	300.00	292.26	292.26	0.85	0.76	-54.68	786.30	-1,109.84	1,360.15	1,358.55	1.61	846.310		
400.00	400.00	392.31	392.31	1.21	1.11	-54.68	786.18	-1,109.68	1,359.96	1,357.63	2.32	585.475		
500.00	500.00	493.99	493.99	1.57	1.48	-54.68	786.10	-1,109.35	1,359.65	1,356.61	3.04	446.682		
542.57	542.57	537.28	537.28	1.72	1.63	-54.67	786.08	-1,109.16	1,359.48	1,356.13	3.35	405.712	CC, ES	
600.00	600.00	568.80	568.80	1.93	1.74	-54.67	786.39	-1,109.38	1,359.98	1,356.32	3.66	371.444		
700.00	699.98	635.36	635.32	2.28	1.96	-118.43	788.15	-1,110.34	1,363.52	1,359.28	4.24	321.645		
800.00	799.84	700.07	699.89	2.64	2.18	-118.31	792.21	-1,111.56	1,371.19	1,366.38	4.81	285.062		
900.00	899.45	763.00	762.50	3.00	2.40	-118.14	798.22	-1,113.36	1,383.16	1,377.78	5.38	257.014		
1,000.00	998.70	846.45	845.31	3.37	2.70	-117.98	808.08	-1,116.37	1,398.68	1,392.64	6.04	231.544		
1,100.00	1,097.47	939.31	937.33	3.76	3.06	-117.86	820.05	-1,119.71	1,416.46	1,409.70	6.75	209.731		
1,200.00	1,195.62	1,029.38	1,026.52	4.18	3.41	-117.80	832.15	-1,123.09	1,436.29	1,428.82	7.48	192.034		
1,300.00	1,293.06	1,117.16	1,113.33	4.63	3.76	-117.78	844.71	-1,126.56	1,458.43	1,450.21	8.22	177.366		
1,400.00	1,389.64	1,215.26	1,210.33	5.11	4.15	-117.88	858.74	-1,130.74	1,482.50	1,473.46	9.04	164.052		
1,500.00	1,485.27	1,316.24	1,310.34	5.63	4.56	-118.12	871.94	-1,135.43	1,507.94	1,498.05	9.89	152.405		
1,600.00	1,579.82	1,407.13	1,400.34	6.20	4.94	-118.34	883.96	-1,139.43	1,535.09	1,524.34	10.74	142.868		
1,700.00	1,673.17	1,490.45	1,482.57	6.83	5.29	-118.46	897.07	-1,142.25	1,564.55	1,552.94	11.60	134.826		
1,800.00	1,765.21	1,590.13	1,580.76	7.51	5.72	-118.72	913.95	-1,145.49	1,596.36	1,583.77	12.59	126.845		
1,900.00	1,855.84	1,688.67	1,677.87	8.24	6.14	-119.01	930.53	-1,147.37	1,628.89	1,615.29	13.61	119.727		
2,000.00	1,944.94	1,763.23	1,751.33	9.05	6.47	-119.11	943.14	-1,149.25	1,663.94	1,649.40	14.55	114.388		
2,100.00	2,032.39	1,860.35	1,846.97	9.91	6.89	-119.48	959.71	-1,152.50	1,701.74	1,686.10	15.64	108.805		
2,200.00	2,118.11	2,007.46	1,992.46	10.85	7.52	-120.54	981.29	-1,154.80	1,739.10	1,722.08	17.02	102.207		
2,300.00	2,201.97	2,092.72	2,077.08	11.85	7.86	-120.95	991.67	-1,155.74	1,777.47	1,759.36	18.11	98.166		
2,400.00	2,283.88	2,166.96	2,150.78	12.93	8.16	-121.22	1,000.55	-1,156.90	1,818.46	1,799.29	19.17	94.853		
2,429.47	2,307.63	2,188.35	2,172.01	13.26	8.25	-121.29	1,003.11	-1,157.31	1,831.08	1,811.60	19.49	93.960		
2,500.00	2,364.26	2,239.22	2,222.49	14.06	8.46	-122.03	1,009.27	-1,158.41	1,861.88	1,841.64	20.24	91.985		
2,600.00	2,444.56	2,320.12	2,302.77	15.22	8.78	-123.16	1,019.09	-1,160.36	1,906.40	1,885.05	21.35	89.303		
2,700.00	2,524.85	2,399.29	2,381.38	16.39	9.10	-124.24	1,028.27	-1,162.44	1,951.60	1,929.17	22.43	86.999		
2,800.00	2,605.14	2,479.98	2,461.55	17.57	9.43	-125.32	1,037.10	-1,164.88	1,997.60	1,974.09	23.51	84.968		
2,900.00	2,685.43	2,562.62	2,543.65	18.76	9.76	-126.38	1,046.08	-1,167.35	2,044.19	2,019.60	24.59	83.144		
3,000.00	2,765.73	2,640.17	2,620.75	19.96	10.07	-127.35	1,054.21	-1,169.81	2,091.42	2,065.80	25.62	81.637		
3,100.00	2,846.02	2,755.99	2,735.96	21.16	10.52	-128.75	1,065.59	-1,172.98	2,138.78	2,111.94	26.84	79.674		
3,200.00	2,926.31	2,887.24	2,866.48	22.37	11.04	-130.20	1,079.34	-1,173.29	2,184.78	2,156.63	28.16	77.598		
3,300.00	3,006.60	2,960.32	2,938.95	23.59	11.33	-130.92	1,088.62	-1,172.15	2,230.42	2,201.27	29.16	76.493		
3,400.00	3,086.90	3,018.57	2,996.68	24.81	11.57	-131.47	1,096.41	-1,171.83	2,277.39	2,247.32	30.07	75.746		
3,500.00	3,167.19	3,088.88	3,066.34	26.03	11.86	-132.12	1,105.92	-1,171.98	2,325.37	2,294.34	31.03	74.935		
3,600.00	3,247.48	3,171.49	3,148.23	27.25	12.20	-132.86	1,116.82	-1,172.45	2,373.92	2,341.86	32.06	74.047		
3,700.00	3,327.77	3,265.22	3,241.13	28.48	12.59	-133.67	1,129.23	-1,172.90	2,422.74	2,389.59	33.15	73.093		
3,800.00	3,408.07	3,360.14	3,335.35	29.71	12.97	-134.48	1,140.80	-1,172.91	2,471.27	2,437.05	34.22	72.212		
3,900.00	3,488.36	3,427.40	3,402.18	30.94	13.24	-135.05	1,148.37	-1,173.04	2,520.14	2,485.03	35.11	71.773		
4,000.00	3,568.65	3,482.00	3,456.41	32.17	13.46	-135.50	1,154.62	-1,173.69	2,570.13	2,534.22	35.91	71.571		
4,100.00	3,648.95	3,527.76	3,501.81	33.41	13.65	-135.86	1,160.34	-1,174.72	2,621.41	2,584.77	36.64	71.540		
4,200.00	3,729.24	3,575.31	3,548.84	34.64	13.85	-136.21	1,167.16	-1,176.30	2,674.07	2,636.69	37.38	71.547		
4,300.00	3,809.53	3,679.21	3,651.65	35.88	14.29	-136.95	1,181.63	-1,180.03	2,727.12	2,688.63	38.50	70.843		
4,400.00	3,889.82	3,783.16	3,754.86	37.12	14.71	-137.72	1,193.61	-1,183.12	2,779.55	2,739.97	39.58	70.228		
4,500.00	3,970.12	3,866.94	3,838.09	38.36	15.05	-138.32	1,202.97	-1,185.41	2,832.01	2,791.49	40.52	69.894		
4,600.00	4,050.41	3,953.70	3,924.10	39.60	15.41	-138.89	1,214.17	-1,187.39	2,884.53	2,843.04	41.49	69.523		
4,700.00	4,130.70	4,037.48	4,007.18	40.84	15.75	-139.42	1,224.78	-1,189.27	2,937.17	2,894.74	42.43	69.216		
4,800.00	4,210.99	4,124.57	4,093.80	42.08	16.10	-140.00	1,233.55	-1,191.37	2,989.87	2,946.50	43.37	68.941		
4,900.00	4,291.29	4,207.35	4,176.12	43.32	16.42	-140.54	1,241.93	-1,193.28	3,042.70	2,998.43	44.27	68.736		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,289.88	4,258.08	44.57	16.76	-141.03	1,251.56	-1,195.01	3,095.68	3,050.50	45.18	68.525		
5,100.00	4,451.87	4,358.51	4,326.23	45.81	17.03	-141.43	1,259.41	-1,196.60	3,148.99	3,103.01	45.98	68.484		
5,200.00	4,532.16	4,428.92	4,396.18	47.05	17.32	-141.83	1,267.28	-1,198.51	3,202.77	3,155.97	46.80	68.441		
5,300.00	4,612.46	4,503.03	4,469.60	48.30	17.63	-142.21	1,277.13	-1,200.62	3,256.95	3,209.30	47.65	68.357		
5,400.00	4,692.75	4,602.58	4,568.30	49.54	18.04	-142.72	1,289.79	-1,203.28	3,311.09	3,262.41	48.68	68.020		
5,500.00	4,773.04	4,690.16	4,655.28	50.79	18.40	-143.17	1,299.83	-1,205.31	3,364.98	3,315.38	49.61	67.835		
5,600.00	4,853.34	4,754.27	4,718.80	52.03	18.66	-143.46	1,308.33	-1,206.89	3,419.23	3,368.85	50.37	67.877		
5,700.00	4,933.63	4,843.89	4,807.46	53.28	19.04	-143.85	1,321.25	-1,209.17	3,473.72	3,422.37	51.35	67.651		
5,800.00	5,013.92	4,924.30	4,887.12	54.53	19.38	-144.20	1,331.98	-1,211.17	3,528.19	3,475.96	52.24	67.545		
5,900.00	5,094.21	5,004.27	4,966.47	55.77	19.71	-144.56	1,341.71	-1,213.25	3,582.82	3,529.71	53.10	67.471		
6,000.00	5,174.51	5,092.16	5,053.78	57.02	20.06	-144.96	1,351.48	-1,215.56	3,637.52	3,583.50	54.01	67.348		
6,100.00	5,254.80	5,176.95	5,138.09	58.27	20.40	-145.34	1,360.23	-1,217.65	3,692.17	3,637.28	54.89	67.271		
6,200.00	5,335.09	5,254.45	5,215.08	59.52	20.71	-145.67	1,368.88	-1,219.54	3,746.93	3,691.22	55.71	67.253		
6,300.00	5,415.38	5,340.11	5,300.10	60.76	21.06	-146.01	1,379.14	-1,221.68	3,801.87	3,745.26	56.61	67.158		
6,400.00	5,495.68	5,470.40	5,429.37	62.01	21.59	-146.51	1,395.22	-1,224.08	3,856.42	3,798.58	57.85	66.664		
6,500.00	5,575.97	5,554.61	5,512.85	63.26	21.94	-146.81	1,406.25	-1,224.96	3,910.36	3,851.61	58.75	66.561		
6,600.00	5,656.26	5,643.86	5,601.53	64.51	22.30	-147.14	1,416.30	-1,225.84	3,964.29	3,904.63	59.66	66.450		
6,700.00	5,736.55	5,704.55	5,661.89	65.76	22.54	-147.37	1,422.62	-1,226.53	4,018.44	3,958.09	60.35	66.585		
6,800.00	5,816.85	5,777.31	5,734.14	67.01	22.83	-147.63	1,431.02	-1,227.74	4,073.08	4,011.94	61.13	66.624		
6,900.00	5,897.14	5,851.75	5,808.15	68.26	23.12	-147.89	1,439.03	-1,228.95	4,127.77	4,065.85	61.92	66.659		
7,000.00	5,977.43	5,903.46	5,859.58	69.50	23.33	-148.08	1,444.20	-1,230.08	4,183.01	4,120.48	62.53	66.893		
7,100.00	6,057.72	6,004.10	5,959.59	70.75	23.73	-148.42	1,455.14	-1,232.56	4,238.56	4,175.04	63.52	66.731		
7,200.00	6,138.02	6,102.14	6,056.82	72.00	24.13	-148.72	1,467.59	-1,234.43	4,293.70	4,229.19	64.51	66.560		
7,300.00	6,218.31	6,159.06	6,113.33	73.25	24.36	-148.90	1,474.29	-1,235.60	4,349.01	4,283.84	65.17	66.737		
7,400.00	6,298.60	6,237.62	6,191.43	74.50	24.68	-149.15	1,482.53	-1,237.50	4,404.69	4,338.72	65.98	66.761		
7,500.00	6,378.90	6,321.07	6,274.35	75.75	25.01	-149.41	1,491.78	-1,239.41	4,460.33	4,393.50	66.83	66.741		
7,600.00	6,459.19	6,389.91	6,342.62	77.00	25.30	-149.59	1,500.50	-1,241.07	4,516.12	4,448.54	67.58	66.821		
7,700.00	6,539.48	6,452.00	6,404.17	78.25	25.55	-149.76	1,508.41	-1,242.87	4,572.32	4,504.04	68.29	66.958		
7,800.00	6,619.77	6,497.98	6,449.78	79.50	25.74	-149.89	1,514.01	-1,244.46	4,629.04	4,560.19	68.85	67.236		
7,900.00	6,700.07	6,549.35	6,500.78	80.75	25.95	-150.03	1,519.76	-1,246.58	4,686.38	4,616.93	69.44	67.486		
8,000.00	6,780.36	6,629.92	6,580.92	82.00	26.26	-150.28	1,527.31	-1,250.07	4,743.98	4,673.74	70.24	67.535		
8,100.00	6,860.65	6,699.56	6,650.30	83.25	26.53	-150.50	1,532.53	-1,253.11	4,801.73	4,730.80	70.94	67.690		
8,200.00	6,940.94	6,785.66	6,736.15	84.50	26.84	-150.79	1,537.73	-1,256.89	4,859.62	4,787.89	71.73	67.749		
8,300.00	7,021.24	6,800.00	6,891.21	85.76	31.37	-151.38	1,541.58	-1,262.55	4,917.39	4,840.49	76.90	63.942		
8,400.00	7,101.53	6,987.00	6,937.19	87.01	27.49	-151.58	1,540.51	-1,263.61	4,974.26	4,900.90	73.36	67.807		
8,500.00	7,181.82	7,029.63	6,979.53	88.26	27.58	-151.81	1,535.71	-1,264.32	5,031.46	4,957.76	73.70	68.269		
8,605.60	7,266.61	7,076.00	7,025.14	89.58	27.68	-152.09	1,527.62	-1,266.28	5,093.69	5,019.66	74.03	68.803		
8,650.00	7,302.60	7,076.00	7,025.14	90.13	27.68	-161.17	1,527.62	-1,266.28	5,120.02	5,045.93	74.09	69.102		
8,700.00	7,343.78	7,076.00	7,039.87	90.72	30.39	-172.09	1,523.94	-1,266.86	5,150.10	5,073.35	76.76	67.097		
8,750.00	7,385.32	7,076.00	7,077.23	91.28	30.48	176.57	1,514.62	-1,268.33	5,180.21	5,103.31	76.90	67.363		
8,800.00	7,426.92	8,800.00	7,115.66	91.81	30.57	165.31	1,505.02	-1,269.84	5,210.04	5,133.01	77.03	67.640		
8,850.00	7,468.27	7,202.85	7,147.51	92.29	27.87	154.46	1,494.81	-1,270.67	5,239.11	5,164.66	74.45	70.371		
8,900.00	7,509.04	7,215.39	7,159.35	92.72	27.89	144.30	1,490.67	-1,271.10	5,267.83	5,193.40	74.43	70.772		
8,950.00	7,548.93	7,255.00	7,196.25	93.10	27.93	135.03	1,476.39	-1,272.77	5,296.04	5,221.62	74.42	71.160		
9,000.00	7,587.63	7,255.00	7,196.25	93.43	27.93	126.69	1,476.39	-1,272.77	5,322.92	5,248.56	74.36	71.582		
9,050.00	7,624.85	7,255.00	7,196.25	93.71	27.93	119.29	1,476.39	-1,272.77	5,348.76	5,274.47	74.29	72.002		
9,100.00	7,660.30	7,255.00	7,196.25	93.93	27.93	112.78	1,476.39	-1,272.77	5,373.38	5,299.18	74.20	72.415		
9,150.00	7,693.72	7,255.00	7,196.25	94.10	27.93	107.12	1,476.39	-1,272.77	5,396.63	5,322.51	74.12	72.814		
9,200.00	7,724.85	7,255.00	7,196.25	94.23	27.93	102.22	1,476.39	-1,272.77	5,418.32	5,344.30	74.03	73.193		
9,250.00	7,753.45	7,255.00	7,196.25	94.30	27.93	98.02	1,476.39	-1,272.77	5,438.33	5,364.39	73.95	73.545		
9,300.00	7,779.31	7,295.78	7,233.62	94.34	27.97	94.73	1,460.26	-1,275.29	5,455.79	5,381.88	73.91	73.820		
9,350.00	7,802.23	7,303.44	7,240.58	94.33	27.97	91.80	1,457.13	-1,275.89	5,471.74	5,397.88	73.86	74.087		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,344.00	7,277.15	94.28	28.01	89.64	1,439.99	-1,279.67	5,486.09	5,412.25	73.84	74.295		
9,450.00	7,838.57	7,344.00	7,277.15	94.20	28.01	87.67	1,439.99	-1,279.67	5,497.62	5,423.79	73.83	74.466		
9,500.00	7,851.72	7,344.00	7,277.15	94.10	28.01	86.14	1,439.99	-1,279.67	5,506.97	5,433.13	73.84	74.583		
9,550.00	7,861.37	9,550.00	7,297.41	93.96	30.42	85.21	1,428.78	-1,281.71	5,514.03	5,438.69	75.34	73.192		
9,600.00	7,867.46	7,500.33	7,409.30	93.81	28.08	85.61	1,358.04	-1,291.87	5,518.46	5,444.64	73.81	74.762		
9,650.00	7,869.94	7,823.84	7,607.94	93.64	28.11	87.37	1,105.87	-1,299.69	5,519.79	5,447.13	72.66	75.970		
9,659.14	7,870.00	7,830.59	7,610.69	93.60	28.11	87.42	1,099.71	-1,299.57	5,519.44	5,446.79	72.65	75.977		
9,700.00	7,870.00	9,700.00	7,643.13	93.46	30.21	87.75	990.51	-1,295.84	5,517.36	5,443.33	74.03	74.528		
9,800.00	7,870.00	8,009.13	7,654.73	93.11	28.29	87.87	927.46	-1,292.81	5,511.74	5,439.65	72.09	76.453		
9,900.00	7,870.00	8,057.00	7,660.81	92.77	28.37	87.94	880.00	-1,291.48	5,507.71	5,435.53	72.18	76.304		
10,000.00	7,870.00	10,000.00	7,667.14	92.46	33.97	88.00	821.32	-1,290.02	5,504.36	5,427.17	77.18	71.315		
10,100.00	7,870.00	8,196.85	7,674.07	92.16	28.77	88.07	740.86	-1,287.82	5,501.07	5,428.64	72.42	75.956		
10,200.00	7,870.00	8,243.65	7,675.11	91.87	28.93	88.08	694.08	-1,286.94	5,498.74	5,426.03	72.71	75.624		
10,300.00	7,870.00	8,320.35	7,675.31	91.60	29.25	88.08	617.39	-1,285.93	5,497.08	5,424.08	73.00	75.302		
10,400.00	7,870.00	8,405.03	7,675.42	91.34	29.68	88.09	532.71	-1,285.11	5,495.77	5,422.37	73.40	74.872		
10,500.00	7,870.00	8,535.97	7,676.03	91.11	30.48	88.09	401.78	-1,283.97	5,494.61	5,420.63	73.98	74.268		
10,600.00	7,870.00	8,700.66	7,676.18	90.88	31.69	88.09	237.14	-1,280.02	5,491.61	5,416.70	74.91	73.307		
10,700.00	7,870.00	8,751.51	7,675.88	90.67	32.11	88.09	186.29	-1,278.93	5,489.15	5,413.47	75.68	72.530		
10,800.00	7,870.00	8,799.33	7,675.56	90.48	32.52	88.08	138.48	-1,278.33	5,487.59	5,411.10	76.50	71.737		
10,900.00	7,870.00	8,858.00	7,676.16	90.31	33.04	88.09	79.82	-1,278.29	5,487.05	5,409.63	77.42	70.878		
11,000.00	7,870.00	9,038.49	7,678.85	90.15	34.81	88.12	-100.65	-1,277.46	5,486.36	5,407.16	79.20	69.271		
11,100.00	7,870.00	9,160.78	7,679.06	90.00	36.13	88.12	-222.92	-1,275.28	5,484.21	5,403.37	80.84	67.841		
11,200.00	7,870.00	9,233.15	7,679.59	89.88	36.94	88.12	-295.27	-1,274.10	5,482.23	5,400.05	82.18	66.708		
11,300.00	7,870.00	9,304.00	7,680.16	89.77	37.76	88.13	-366.12	-1,273.51	5,480.97	5,397.39	83.58	65.580		
11,400.00	7,870.00	9,394.77	7,680.46	89.68	38.84	88.13	-456.89	-1,273.06	5,480.11	5,394.86	85.24	64.290		
11,497.69	7,870.00	9,438.49	7,680.74	89.61	39.38	88.14	-500.61	-1,273.01	5,479.63	5,393.17	86.47	63.374		
11,500.00	7,870.00	9,439.56	7,680.75	89.60	39.39	88.14	-501.67	-1,273.01	5,479.63	5,393.14	86.49	63.353		
11,600.00	7,870.00	9,490.46	7,681.68	89.55	40.02	88.15	-552.57	-1,273.50	5,480.15	5,392.30	87.84	62.385		
11,700.00	7,870.00	9,599.94	7,684.95	89.52	41.42	88.18	-661.99	-1,274.86	5,480.96	5,391.02	89.94	60.942		
11,800.00	7,870.00	9,715.91	7,688.95	89.50	42.94	88.22	-777.88	-1,276.16	5,481.64	5,389.42	92.22	59.440		
11,900.00	7,870.00	9,833.98	7,693.45	89.51	44.54	88.27	-895.86	-1,276.99	5,481.89	5,387.25	94.64	57.923		
12,000.00	7,870.00	9,893.69	7,695.25	89.54	45.36	88.29	-955.54	-1,277.53	5,482.37	5,386.05	96.32	56.917		
12,100.00	7,870.00	9,955.36	7,695.77	89.59	46.22	88.29	-1,017.20	-1,278.52	5,483.60	5,385.55	98.05	55.926		
12,200.00	7,870.00	10,028.98	7,695.58	89.66	47.25	88.29	-1,090.80	-1,280.15	5,485.46	5,385.48	99.98	54.864		
12,300.00	7,870.00	10,176.29	7,693.80	89.77	49.35	88.27	-1,238.07	-1,283.01	5,487.12	5,384.03	103.09	53.228		
12,400.00	7,870.00	10,267.82	7,692.04	89.89	50.68	88.26	-1,329.57	-1,284.35	5,488.31	5,382.90	105.41	52.067		
12,500.00	7,870.00	10,412.04	7,688.03	90.05	52.81	88.22	-1,473.72	-1,285.88	5,489.06	5,380.42	108.65	50.522		
12,600.00	7,870.00	10,502.73	7,686.64	90.24	54.17	88.20	-1,564.40	-1,286.77	5,489.75	5,378.67	111.08	49.423		
12,700.00	7,870.00	10,614.57	7,689.63	90.46	55.87	88.23	-1,676.18	-1,287.91	5,490.35	5,376.40	113.94	48.186		
12,800.00	7,870.00	10,787.93	7,693.26	90.71	58.53	88.27	-1,849.48	-1,288.36	5,490.23	5,372.25	117.98	46.535		
12,900.00	7,870.00	10,932.05	7,689.66	90.99	60.78	88.23	-1,993.55	-1,286.91	5,488.96	5,367.41	121.55	45.158		
13,000.00	7,870.00	11,030.34	7,685.67	91.32	62.33	88.19	-2,091.74	-1,285.30	5,487.12	5,362.80	124.32	44.138		
13,100.00	7,870.00	11,093.79	7,683.94	91.68	63.33	88.17	-2,155.17	-1,284.68	5,485.87	5,359.41	126.46	43.381		
13,200.00	7,870.00	11,201.71	7,681.72	92.08	65.05	88.15	-2,263.07	-1,283.70	5,484.68	5,355.20	129.48	42.360		
13,300.00	7,870.00	11,274.54	7,680.50	92.52	66.21	88.13	-2,335.88	-1,283.36	5,483.90	5,352.06	131.84	41.596		
13,400.00	7,870.00	11,483.81	7,679.29	93.00	69.58	88.12	-2,545.11	-1,280.51	5,482.13	5,345.17	136.96	40.027		
13,500.00	7,870.00	11,531.00	7,679.87	93.53	70.35	88.13	-2,592.29	-1,279.36	5,479.69	5,340.81	138.88	39.457		
13,600.00	7,870.00	11,582.11	7,680.67	94.10	71.18	88.13	-2,643.39	-1,278.60	5,478.15	5,337.28	140.87	38.887		
13,625.39	7,870.00	11,589.50	7,680.80	94.25	71.30	88.14	-2,650.77	-1,278.59	5,478.01	5,336.74	141.26	38.778		
13,700.00	7,870.00	11,620.00	7,681.37	94.72	71.79	88.14	-2,681.27	-1,278.79	5,478.09	5,335.49	142.59	38.418		
13,800.00	7,870.00	11,664.28	7,682.20	95.38	72.51	88.15	-2,725.54	-1,279.49	5,479.11	5,334.67	144.44	37.934		
13,900.00	7,870.00	11,755.77	7,683.71	96.09	74.00	88.17	-2,816.99	-1,281.39	5,480.78	5,333.50	147.29	37.212		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	11,905.66	7,685.59	96.84	76.45	88.19	-2,966.85	-1,283.39	5,481.66	5,330.25	151.41	36.205		
14,100.00	7,870.00	11,958.01	7,686.64	97.64	77.31	88.20	-3,019.19	-1,284.17	5,482.75	5,329.30	153.45	35.729		
14,200.00	7,870.00	12,035.92	7,689.07	98.48	78.59	88.22	-3,097.04	-1,285.94	5,484.57	5,328.50	156.06	35.143		
14,300.00	7,870.00	12,133.99	7,692.88	99.37	80.20	88.26	-3,195.01	-1,288.32	5,486.53	5,327.40	159.13	34.478		
14,400.00	7,870.00	12,234.38	7,697.22	100.30	81.86	88.31	-3,295.28	-1,290.76	5,488.49	5,326.22	162.27	33.822		
14,500.00	7,870.00	12,344.90	7,702.44	101.26	83.69	88.37	-3,405.64	-1,293.35	5,490.37	5,324.71	165.66	33.142		
14,600.00	7,870.00	12,406.61	7,705.00	102.27	84.71	88.39	-3,467.27	-1,294.98	5,492.54	5,324.58	167.95	32.703		
14,700.00	7,870.00	12,541.11	7,708.29	103.31	86.95	88.43	-3,601.68	-1,298.58	5,494.84	5,322.93	171.91	31.964		
14,800.00	7,870.00	12,701.62	7,710.36	104.38	89.63	88.45	-3,762.15	-1,301.25	5,496.13	5,319.66	176.47	31.145		
14,900.00	7,870.00	12,810.81	7,713.74	105.49	91.46	88.49	-3,871.28	-1,302.53	5,496.89	5,317.00	179.90	30.556		
15,000.00	7,870.00	12,934.13	7,719.82	106.63	93.54	88.55	-3,994.45	-1,303.48	5,497.19	5,313.51	183.68	29.929		
15,100.00	7,870.00	13,054.12	7,726.07	107.80	95.56	88.61	-4,114.27	-1,304.03	5,497.18	5,309.79	187.39	29.335		
15,135.03	7,870.00	13,077.74	7,727.19	108.22	95.96	88.63	-4,137.87	-1,304.12	5,497.15	5,308.88	188.27	29.198		
15,200.00	7,870.00	13,127.28	7,729.14	109.00	96.80	88.65	-4,187.37	-1,304.40	5,497.25	5,307.22	190.03	28.929		
15,300.00	7,870.00	13,224.66	7,732.18	110.22	98.45	88.68	-4,284.69	-1,305.12	5,497.57	5,304.34	193.23	28.451		
15,400.00	7,870.00	13,330.16	7,734.91	111.47	100.23	88.71	-4,390.16	-1,305.89	5,497.91	5,301.28	196.63	27.961		
15,500.00	7,870.00	13,490.76	7,738.71	112.74	102.96	88.75	-4,550.71	-1,306.00	5,497.58	5,296.25	201.33	27.306		
15,600.00	7,870.00	13,880.26	7,742.10	114.03	109.63	88.78	-4,939.94	-1,295.14	5,495.48	5,284.21	211.26	26.012		
15,700.00	7,870.00	13,937.00	7,741.78	115.34	110.60	88.77	-4,996.62	-1,292.48	5,490.16	5,276.54	213.62	25.701		
15,800.00	7,870.00	13,937.00	7,741.78	116.68	110.60	88.77	-4,996.62	-1,292.48	5,485.71	5,271.05	214.67	25.555		
15,900.00	7,870.00	13,968.55	7,741.39	118.02	111.14	88.77	-5,028.15	-1,291.61	5,482.75	5,266.36	216.40	25.336		
16,000.00	7,870.00	13,995.18	7,740.97	119.39	111.60	88.77	-5,054.77	-1,291.26	5,481.14	5,263.15	217.99	25.144		
16,082.70	7,870.00	14,026.00	7,740.38	120.53	112.13	88.76	-5,085.59	-1,291.30	5,480.84	5,261.35	219.49	24.971		
16,100.00	7,870.00	14,026.00	7,740.38	120.77	112.13	88.76	-5,085.59	-1,291.30	5,480.87	5,261.22	219.64	24.953		
16,200.00	7,870.00	14,097.04	7,738.81	122.17	113.34	88.74	-5,156.61	-1,292.02	5,481.55	5,259.30	222.25	24.664		
16,300.00	7,870.00	14,235.13	7,735.57	123.58	115.70	88.71	-5,294.66	-1,292.81	5,481.76	5,255.26	226.49	24.203		
16,400.00	7,870.00	14,293.00	7,735.19	125.00	116.69	88.71	-5,352.52	-1,293.33	5,482.32	5,253.52	228.79	23.962		
16,500.00	7,870.00	14,415.08	7,736.24	126.43	118.78	88.72	-5,474.59	-1,294.72	5,483.11	5,250.44	232.67	23.566		
16,600.00	7,870.00	14,571.25	7,738.45	127.88	121.46	88.74	-5,630.74	-1,295.37	5,483.19	5,245.78	237.40	23.097		
16,700.00	7,870.00	14,691.68	7,740.40	129.34	123.54	88.76	-5,751.16	-1,294.63	5,482.14	5,240.88	241.27	22.722		
16,800.00	7,870.00	14,762.83	7,740.55	130.81	124.76	88.76	-5,822.31	-1,294.49	5,481.58	5,237.66	243.92	22.472		
16,900.00	7,870.00	14,865.15	7,738.90	132.28	126.52	88.74	-5,924.61	-1,294.45	5,481.24	5,233.90	247.34	22.161		
17,000.00	7,870.00	14,971.99	7,737.81	133.77	128.37	88.73	-6,031.44	-1,294.27	5,480.76	5,229.88	250.87	21.847		
17,100.00	7,870.00	15,112.23	7,737.61	135.27	130.79	88.73	-6,171.68	-1,293.47	5,479.84	5,224.60	255.23	21.470		
17,200.00	7,870.00	15,184.00	7,738.71	136.77	132.03	88.74	-6,243.43	-1,293.07	5,478.89	5,220.96	257.93	21.242		
17,300.00	7,870.00	15,274.97	7,741.18	138.28	133.60	88.77	-6,334.37	-1,292.90	5,478.30	5,217.20	261.10	20.981		
17,329.51	7,870.00	15,273.00	7,741.13	138.73	133.57	88.77	-6,332.40	-1,292.90	5,478.22	5,216.90	261.32	20.964		
17,400.00	7,870.00	15,305.02	7,741.82	139.80	134.12	88.77	-6,364.41	-1,293.04	5,478.38	5,215.63	262.74	20.851		
17,500.00	7,870.00	15,362.00	7,742.70	141.33	135.10	88.78	-6,421.37	-1,294.30	5,479.90	5,214.86	265.04	20.676		
17,600.00	7,870.00	15,362.00	7,742.70	142.86	135.10	88.78	-6,421.37	-1,294.30	5,482.30	5,216.47	265.83	20.623		
17,700.00	7,870.00	15,417.25	7,743.32	144.40	136.05	88.79	-6,476.58	-1,296.46	5,485.92	5,217.90	268.03	20.468		
17,800.00	7,870.00	15,494.73	7,744.02	145.95	137.37	88.80	-6,553.95	-1,300.30	5,490.45	5,219.65	270.80	20.275		
17,900.00	7,870.00	15,767.90	7,749.48	147.50	142.08	88.86	-6,826.93	-1,308.27	5,492.27	5,213.52	278.75	19.703		
18,000.00	7,870.00	15,913.48	7,753.40	149.06	144.60	88.90	-6,972.44	-1,310.14	5,493.13	5,209.81	283.33	19.388		
18,100.00	7,870.00	16,009.90	7,756.78	150.63	146.27	88.93	-7,068.79	-1,311.18	5,493.81	5,207.15	286.65	19.165		
18,200.00	7,870.00	16,123.25	7,760.07	152.20	148.23	88.97	-7,182.09	-1,312.02	5,494.14	5,203.72	290.42	18.918		
18,300.00	7,870.00	16,191.82	7,761.18	153.77	149.42	88.98	-7,250.65	-1,312.67	5,494.74	5,201.71	293.03	18.751		
18,400.00	7,870.00	16,253.00	7,763.14	155.35	150.48	89.00	-7,311.79	-1,313.77	5,496.11	5,200.66	295.45	18.603		
18,500.00	7,870.00	16,375.29	7,769.15	156.93	152.60	89.06	-7,433.91	-1,315.98	5,497.48	5,198.02	299.46	18.358		
18,600.00	7,870.00	16,459.13	7,773.28	158.52	154.05	89.11	-7,517.63	-1,317.54	5,498.92	5,196.45	302.47	18.180		
18,700.00	7,870.00	16,567.05	7,777.88	160.11	155.92	89.15	-7,625.43	-1,319.61	5,500.45	5,194.33	306.11	17.969		
18,800.00	7,870.00	16,911.67	7,789.60	161.71	161.92	89.28	-7,969.79	-1,318.50	5,500.00	5,184.28	315.72	17.421		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,900.00	7,870.00	17,079.99	7,792.89	163.31	164.87	89.31	-8,137.98	-1,312.89	5,496.28	5,175.48	320.80	17.133	
19,000.00	7,870.00	17,182.19	7,793.84	164.91	166.66	89.32	-8,240.10	-1,308.97	5,492.11	5,167.80	324.31	16.935	
19,100.00	7,870.00	17,318.55	7,794.98	166.52	169.06	89.33	-8,376.32	-1,302.97	5,487.32	5,158.70	328.62	16.698	
19,200.00	7,870.00	17,340.00	7,795.17	168.13	169.43	89.33	-8,397.75	-1,301.97	5,482.89	5,152.67	330.23	16.603	
19,300.00	7,870.00	17,340.00	7,795.17	169.75	169.43	89.33	-8,397.75	-1,301.97	5,480.25	5,149.01	331.24	16.545	
19,383.51	7,870.00	17,340.00	7,795.17	171.10	169.43	89.33	-8,397.75	-1,301.97	5,479.44	5,147.43	332.01	16.504 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-54.43	787.25	-1,100.94	1,353.49					
100.00	100.00	92.16	92.16	0.13	0.14	-54.44	787.11	-1,100.95	1,353.38	1,353.10	0.28	4,862.359		
200.00	200.00	194.56	194.56	0.49	0.30	-54.46	786.60	-1,101.00	1,353.13	1,352.33	0.80	1,698.550		
289.62	289.62	279.63	279.62	0.81	0.64	-54.48	786.16	-1,101.19	1,353.02	1,351.56	1.46	928.579 CC		
300.00	300.00	289.60	289.60	0.85	0.68	-54.48	786.11	-1,101.22	1,353.02	1,351.49	1.53	884.376		
400.00	400.00	388.23	388.22	1.21	1.03	-54.50	785.76	-1,101.61	1,353.13	1,350.89	2.24	605.328		
500.00	500.00	487.91	487.91	1.57	1.37	-54.51	785.69	-1,101.83	1,353.27	1,350.33	2.94	459.933		
600.00	600.00	583.94	583.93	1.93	1.71	-54.54	785.18	-1,102.53	1,353.56	1,349.92	3.64	371.933 ES		
700.00	699.98	658.70	658.68	2.28	1.97	-118.39	785.48	-1,103.57	1,355.76	1,351.50	4.26	318.594		
800.00	799.84	735.07	734.97	2.64	2.24	-118.34	788.74	-1,104.25	1,361.43	1,356.56	4.87	279.426		
900.00	899.45	807.83	807.46	3.00	2.50	-118.20	794.89	-1,104.29	1,370.53	1,365.05	5.48	250.015		
1,000.00	998.70	888.35	887.44	3.37	2.78	-118.03	804.25	-1,104.40	1,383.12	1,376.98	6.13	225.479		
1,100.00	1,097.47	981.24	979.55	3.76	3.13	-117.89	816.22	-1,104.62	1,398.17	1,391.32	6.85	204.046		
1,200.00	1,195.62	1,072.74	1,070.17	4.18	3.48	-117.80	828.93	-1,104.51	1,415.15	1,407.56	7.59	186.421		
1,300.00	1,293.06	1,161.28	1,157.67	4.63	3.83	-117.72	842.38	-1,104.28	1,434.37	1,426.02	8.35	171.813		
1,400.00	1,389.64	1,249.93	1,245.17	5.11	4.19	-117.68	856.64	-1,104.19	1,455.85	1,446.72	9.14	159.321		
1,500.00	1,485.27	1,344.05	1,338.06	5.63	4.57	-117.75	871.77	-1,104.57	1,479.42	1,469.43	9.99	148.139		
1,600.00	1,579.82	1,427.97	1,420.84	6.20	4.93	-117.80	885.54	-1,105.02	1,504.97	1,494.15	10.83	139.007		
1,700.00	1,673.17	1,507.18	1,498.88	6.83	5.26	-117.86	899.11	-1,106.00	1,533.22	1,521.53	11.68	131.237		
1,800.00	1,765.21	1,608.04	1,598.14	7.51	5.70	-118.12	916.97	-1,107.57	1,563.81	1,551.13	12.68	123.304		
1,900.00	1,855.84	1,707.83	1,696.64	8.24	6.13	-118.49	932.85	-1,109.09	1,595.34	1,581.63	13.71	116.334		
2,000.00	1,944.94	1,781.77	1,769.67	9.05	6.44	-118.65	944.35	-1,110.62	1,629.13	1,614.47	14.65	111.178		
2,100.00	2,032.39	1,896.98	1,883.50	9.91	6.93	-119.33	961.77	-1,113.71	1,665.36	1,649.52	15.83	105.176		
2,200.00	2,118.11	1,978.13	1,963.90	10.85	7.27	-119.67	972.65	-1,115.53	1,702.56	1,685.69	16.87	100.899		
2,300.00	2,201.97	2,052.65	2,037.74	11.85	7.58	-119.95	982.43	-1,117.78	1,742.49	1,724.58	17.91	97.295		
2,400.00	2,283.88	2,152.43	2,136.60	12.93	7.99	-120.58	995.60	-1,120.83	1,784.84	1,765.74	19.11	93.422		
2,429.47	2,307.63	2,192.13	2,175.96	13.26	8.15	-120.93	1,000.66	-1,121.65	1,797.50	1,777.99	19.52	92.099		
2,500.00	2,364.26	2,285.66	2,268.82	14.06	8.53	-122.28	1,011.90	-1,122.22	1,827.24	1,806.75	20.49	89.173		
2,600.00	2,444.56	2,379.36	2,361.89	15.22	8.90	-123.57	1,022.74	-1,121.77	1,869.12	1,847.45	21.67	86.253		
2,700.00	2,524.85	2,461.82	2,443.82	16.39	9.23	-124.67	1,032.02	-1,121.28	1,911.54	1,888.75	22.78	83.902		
2,800.00	2,605.14	2,547.09	2,528.55	17.57	9.57	-125.77	1,041.63	-1,120.76	1,954.61	1,930.71	23.90	81.783		
2,900.00	2,685.43	2,662.35	2,642.89	18.76	10.04	-127.13	1,055.86	-1,118.66	1,997.69	1,972.52	25.18	79.348		
3,000.00	2,765.73	2,720.33	2,700.30	19.96	10.28	-127.76	1,063.92	-1,117.28	2,041.21	2,015.06	26.15	78.061		
3,100.00	2,846.02	2,769.94	2,749.35	21.16	10.49	-128.28	1,071.26	-1,116.50	2,086.22	2,059.17	27.05	77.112		
3,200.00	2,926.31	2,829.00	2,807.64	22.37	10.75	-128.88	1,080.75	-1,116.79	2,133.36	2,105.36	28.00	76.190		
3,300.00	3,006.60	2,871.04	2,849.09	23.59	10.93	-129.29	1,087.76	-1,117.58	2,182.03	2,153.21	28.82	75.714		
3,400.00	3,086.90	2,945.58	2,922.60	24.81	11.26	-130.00	1,099.98	-1,119.43	2,231.75	2,201.91	29.83	74.803		
3,500.00	3,167.19	3,035.57	3,011.43	26.03	11.65	-130.85	1,114.19	-1,121.73	2,281.75	2,250.81	30.94	73.748		
3,600.00	3,247.48	3,129.93	3,104.71	27.25	12.05	-131.72	1,128.20	-1,123.93	2,331.70	2,299.64	32.06	72.737		
3,700.00	3,327.77	3,224.22	3,198.12	28.48	12.45	-132.58	1,140.94	-1,125.94	2,381.56	2,348.41	33.15	71.840		
3,800.00	3,408.07	3,320.33	3,293.48	29.71	12.84	-133.45	1,152.78	-1,127.74	2,431.31	2,397.07	34.23	71.020		
3,900.00	3,488.36	3,412.62	3,385.15	30.94	13.22	-134.26	1,163.41	-1,129.11	2,480.93	2,445.65	35.28	70.314		
4,000.00	3,568.65	3,502.03	3,473.76	32.17	13.59	-134.98	1,175.19	-1,129.83	2,530.62	2,494.30	36.32	69.674		
4,100.00	3,648.95	3,589.29	3,560.10	33.41	13.95	-135.63	1,187.92	-1,130.06	2,580.37	2,543.02	37.35	69.088		
4,200.00	3,729.24	3,682.76	3,652.76	34.64	14.34	-136.33	1,200.17	-1,130.41	2,630.21	2,591.81	38.40	68.495		
4,300.00	3,809.53	3,778.90	3,748.28	35.88	14.73	-137.06	1,210.98	-1,130.55	2,679.83	2,640.39	39.44	67.951		
4,400.00	3,889.82	3,843.78	3,812.84	37.12	14.98	-137.55	1,217.42	-1,130.73	2,729.67	2,689.42	40.26	67.808		
4,500.00	3,970.12	3,898.00	3,866.82	38.36	15.19	-137.97	1,222.51	-1,131.55	2,780.65	2,739.66	40.99	67.839		
4,600.00	4,050.41	3,955.29	3,923.85	39.60	15.41	-138.40	1,227.73	-1,132.97	2,832.64	2,790.92	41.72	67.890		
4,700.00	4,130.70	4,058.02	4,026.18	40.84	15.80	-139.17	1,236.35	-1,135.88	2,885.17	2,842.44	42.73	67.516		
4,800.00	4,210.99	4,124.64	4,092.61	42.08	16.05	-139.67	1,241.05	-1,137.46	2,937.41	2,893.91	43.50	67.534		
4,900.00	4,291.29	4,191.27	4,159.02	43.32	16.30	-140.15	1,246.12	-1,139.57	2,990.53	2,946.28	44.25	67.575		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,378.91	4,345.22	44.57	17.06	-141.26	1,268.81	-1,141.49	3,042.71	2,996.82	45.90	66.297		
5,100.00	4,451.87	4,465.27	4,430.77	45.81	17.42	-141.71	1,280.51	-1,140.58	3,093.36	3,046.50	46.86	66.017		
5,200.00	4,532.16	4,511.07	4,476.15	47.05	17.61	-141.95	1,286.72	-1,140.38	3,144.63	3,097.10	47.52	66.168		
5,300.00	4,612.46	4,559.90	4,524.48	48.30	17.81	-142.18	1,293.67	-1,140.69	3,196.98	3,148.77	48.20	66.322		
5,400.00	4,692.75	4,620.25	4,584.24	49.54	18.07	-142.48	1,302.04	-1,141.60	3,250.15	3,201.20	48.96	66.387		
5,500.00	4,773.04	4,692.79	4,656.19	50.79	18.36	-142.85	1,311.15	-1,143.18	3,303.90	3,254.12	49.78	66.368		
5,600.00	4,853.34	4,767.23	4,730.16	52.03	18.66	-143.24	1,319.33	-1,145.00	3,357.91	3,307.31	50.60	66.360		
5,700.00	4,933.63	4,845.68	4,808.01	53.28	18.99	-143.62	1,328.78	-1,147.07	3,412.26	3,360.80	51.46	66.311		
5,800.00	5,013.92	4,933.29	4,894.44	54.53	19.37	-143.96	1,342.89	-1,148.95	3,466.54	3,414.10	52.43	66.112		
5,900.00	5,094.21	5,005.23	4,965.12	55.77	19.69	-144.21	1,356.21	-1,150.51	3,521.04	3,467.73	53.31	66.049		
6,000.00	5,174.51	5,088.11	5,046.60	57.02	20.07	-144.48	1,371.23	-1,152.44	3,575.71	3,521.44	54.27	65.884		
6,100.00	5,254.80	5,177.30	5,134.65	58.27	20.46	-144.81	1,385.36	-1,154.54	3,630.36	3,575.11	55.26	65.701		
6,200.00	5,335.09	5,272.86	5,229.39	59.52	20.86	-145.21	1,397.53	-1,156.66	3,684.86	3,628.62	56.24	65.518		
6,300.00	5,415.38	5,358.25	5,314.35	60.76	21.19	-145.59	1,405.92	-1,158.47	3,739.27	3,682.17	57.10	65.481		
6,400.00	5,495.68	5,433.39	5,389.13	62.01	21.48	-145.93	1,413.04	-1,160.10	3,793.82	3,735.93	57.89	65.539		
6,500.00	5,575.97	5,501.54	5,456.77	63.26	21.76	-146.19	1,421.21	-1,161.68	3,848.67	3,790.02	58.65	65.622		
6,600.00	5,656.26	5,572.65	5,527.00	64.51	22.07	-146.42	1,432.19	-1,163.50	3,903.86	3,844.40	59.46	65.653		
6,700.00	5,736.55	5,648.96	5,602.48	65.76	22.39	-146.67	1,443.24	-1,165.63	3,959.30	3,898.99	60.31	65.650		
6,800.00	5,816.85	5,885.48	5,837.42	67.01	23.34	-147.54	1,470.09	-1,169.00	4,014.33	3,952.02	62.31	64.420		
6,900.00	5,897.14	5,999.83	5,950.78	68.26	23.81	-147.91	1,484.95	-1,167.15	4,066.16	4,002.73	63.43	64.104		
7,000.00	5,977.43	6,052.96	6,003.42	69.50	24.03	-148.07	1,492.12	-1,166.42	4,118.34	4,054.25	64.09	64.255		
7,100.00	6,057.72	6,098.11	6,048.17	70.75	24.22	-148.20	1,498.14	-1,166.16	4,171.26	4,106.58	64.69	64.484		
7,200.00	6,138.02	6,154.00	6,103.62	72.00	24.45	-148.38	1,505.05	-1,166.48	4,225.09	4,159.74	65.35	64.654		
7,300.00	6,218.31	6,193.45	6,142.78	73.25	24.61	-148.50	1,509.79	-1,167.02	4,279.61	4,213.73	65.88	64.964		
7,400.00	6,298.60	6,253.80	6,202.64	74.50	24.86	-148.68	1,517.39	-1,168.15	4,334.70	4,268.14	66.56	65.121		
7,500.00	6,378.90	6,325.80	6,274.10	75.75	25.15	-148.90	1,526.06	-1,169.72	4,390.13	4,322.79	67.34	65.197		
7,600.00	6,459.19	6,444.61	6,392.08	77.00	25.63	-149.26	1,539.97	-1,171.65	4,445.07	4,376.60	68.47	64.920		
7,700.00	6,539.48	6,490.05	6,437.22	78.25	25.81	-149.39	1,545.05	-1,172.49	4,500.35	4,431.33	69.02	65.200		
7,800.00	6,619.77	6,540.72	6,487.60	79.50	26.01	-149.55	1,550.24	-1,173.82	4,556.32	4,486.72	69.60	65.461		
7,900.00	6,700.07	6,600.00	6,546.63	80.75	26.24	-149.74	1,555.43	-1,175.71	4,612.84	4,542.60	70.23	65.677		
8,000.00	6,780.36	6,855.79	6,801.42	82.00	27.21	-150.56	1,577.06	-1,180.22	4,668.82	4,596.52	72.30	64.578		
8,100.00	6,860.65	6,907.97	6,853.44	83.25	27.40	-150.72	1,581.08	-1,180.11	4,722.78	4,649.91	72.87	64.808		
8,200.00	6,940.94	6,956.00	6,901.38	84.50	27.58	-150.88	1,584.15	-1,180.38	4,777.43	4,704.02	73.41	65.081		
8,300.00	7,021.24	8,300.00	7,026.40	85.76	30.80	-151.42	1,582.12	-1,181.02	4,832.61	4,755.47	77.14	62.647		
8,400.00	7,101.53	7,135.00	7,079.84	87.01	28.07	-151.70	1,576.92	-1,180.63	4,887.11	4,812.41	74.70	65.425		
8,500.00	7,181.82	7,176.47	7,120.48	88.26	28.13	-151.97	1,568.75	-1,180.04	4,942.02	4,867.04	74.98	65.910		
8,605.60	7,266.61	7,224.00	7,166.32	89.58	28.21	-152.32	1,556.23	-1,180.54	5,001.86	4,926.61	75.25	66.471		
8,650.00	7,302.60	7,224.00	7,166.32	90.13	28.21	-161.21	1,556.23	-1,180.54	5,027.20	4,951.88	75.32	66.747		
8,700.00	7,343.78	7,224.00	7,166.32	90.72	28.21	-171.86	1,556.23	-1,180.54	5,056.21	4,980.83	75.37	67.081		
8,750.00	7,385.32	7,224.00	7,166.32	91.28	28.21	177.10	1,556.23	-1,180.54	5,085.50	5,010.09	75.41	67.439		
8,800.00	7,426.92	7,224.00	7,166.32	91.81	28.21	166.01	1,556.23	-1,180.54	5,114.86	5,039.44	75.42	67.818		
8,850.00	7,468.27	7,224.00	7,166.32	92.29	28.21	155.22	1,556.23	-1,180.54	5,144.05	5,068.64	75.41	68.215		
8,900.00	7,509.04	7,224.00	7,166.32	92.72	28.21	145.05	1,556.23	-1,180.54	5,172.86	5,097.48	75.38	68.626		
8,950.00	7,548.93	7,224.00	7,166.32	93.10	28.21	135.69	1,556.23	-1,180.54	5,201.08	5,125.75	75.33	69.047		
9,000.00	7,587.63	7,260.13	7,200.53	93.43	28.24	127.35	1,544.69	-1,181.85	5,227.87	5,152.56	75.31	69.422		
9,050.00	7,624.85	7,268.27	7,208.16	93.71	28.25	119.92	1,541.88	-1,182.27	5,253.98	5,178.75	75.24	69.830		
9,100.00	7,660.30	7,276.35	7,215.70	93.93	28.26	113.40	1,539.02	-1,182.72	5,278.87	5,203.70	75.17	70.229		
9,150.00	7,693.72	7,313.00	7,249.50	94.10	28.29	107.87	1,525.12	-1,185.37	5,302.75	5,227.64	75.11	70.599		
9,200.00	7,724.85	7,313.00	7,249.50	94.23	28.29	102.96	1,525.12	-1,185.37	5,324.49	5,249.46	75.03	70.964		
9,250.00	7,753.45	7,313.00	7,249.50	94.30	28.29	98.73	1,525.12	-1,185.37	5,344.59	5,269.64	74.96	71.303		
9,300.00	7,779.31	7,313.00	7,249.50	94.34	28.29	95.13	1,525.12	-1,185.37	5,362.93	5,288.03	74.89	71.609		
9,350.00	7,802.23	7,313.00	7,249.50	94.33	28.29	92.09	1,525.12	-1,185.37	5,379.37	5,304.52	74.84	71.876		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,313.00	7,249.50	94.28	28.29	89.57	1,525.12	-1,185.37	5,393.80	5,318.99	74.81	72.100		
9,450.00	7,838.57	7,313.00	7,249.50	94.20	28.29	87.53	1,525.12	-1,185.37	5,406.15	5,331.35	74.80	72.273		
9,500.00	7,851.72	7,346.29	7,279.70	94.10	28.31	86.22	1,511.44	-1,188.38	5,416.00	5,341.17	74.83	72.376		
9,550.00	7,861.37	7,355.44	7,287.94	93.96	28.32	85.13	1,507.56	-1,189.29	5,423.74	5,348.86	74.88	72.433		
9,600.00	7,867.46	7,363.91	7,295.54	93.81	28.32	84.44	1,503.92	-1,190.15	5,429.17	5,354.21	74.96	72.431		
9,650.00	7,869.94	7,953.04	7,701.66	93.64	28.46	88.30	1,098.65	-1,213.87	5,430.93	5,357.66	73.27	74.125		
9,659.14	7,870.00	7,937.00	7,694.27	93.60	28.45	88.25	1,112.88	-1,214.25	5,430.61	5,357.24	73.37	74.017		
9,700.00	7,870.00	8,248.67	7,786.41	93.46	29.06	89.22	818.28	-1,196.82	5,426.64	5,354.44	72.20	75.160		
9,800.00	7,870.00	8,293.00	7,789.70	93.11	29.19	89.25	774.17	-1,193.92	5,418.91	5,346.56	72.36	74.893		
9,900.00	7,870.00	8,293.00	7,789.70	92.77	29.19	89.25	774.17	-1,193.92	5,412.03	5,339.32	72.71	74.438		
10,000.00	7,870.00	8,336.69	7,791.41	92.46	29.35	89.27	730.56	-1,191.88	5,406.76	5,333.80	72.96	74.109		
10,100.00	7,870.00	8,411.41	7,792.14	92.16	29.65	89.28	655.92	-1,188.63	5,402.06	5,328.88	73.18	73.818		
10,200.00	7,870.00	8,471.00	7,792.12	91.87	29.92	89.28	596.37	-1,186.30	5,397.87	5,324.36	73.52	73.424		
10,300.00	7,870.00	8,535.62	7,792.32	91.60	30.26	89.28	531.78	-1,184.22	5,394.38	5,320.43	73.95	72.949		
10,400.00	7,870.00	8,590.10	7,792.87	91.34	30.58	89.29	477.32	-1,182.97	5,391.74	5,317.29	74.45	72.417		
10,500.00	7,870.00	8,649.00	7,793.17	91.11	30.95	89.29	418.43	-1,182.14	5,389.95	5,314.93	75.02	71.843		
10,600.00	7,870.00	8,710.95	7,792.82	90.88	31.38	89.29	356.49	-1,181.71	5,388.90	5,313.22	75.68	71.202		
10,700.00	7,870.00	8,796.46	7,790.73	90.67	32.02	89.26	271.00	-1,181.52	5,388.36	5,311.88	76.48	70.458		
10,800.00	7,870.00	8,889.88	7,786.68	90.48	32.78	89.22	177.67	-1,181.38	5,387.93	5,310.52	77.41	69.602		
10,866.46	7,870.00	8,937.29	7,784.62	90.36	33.19	89.20	130.31	-1,181.39	5,387.77	5,309.73	78.04	69.039		
10,900.00	7,870.00	8,955.82	7,783.97	90.31	33.36	89.19	111.79	-1,181.47	5,387.82	5,309.48	78.34	68.779		
11,000.00	7,870.00	9,006.00	7,782.80	90.15	33.81	89.18	61.62	-1,181.95	5,388.52	5,309.27	79.24	67.999		
11,100.00	7,870.00	9,067.91	7,781.28	90.00	34.41	89.16	-0.26	-1,183.05	5,390.02	5,309.74	80.28	67.139		
11,200.00	7,870.00	9,362.00	7,761.22	89.88	37.53	88.95	-293.49	-1,182.03	5,388.11	5,304.96	83.16	64.795		
11,300.00	7,870.00	9,408.50	7,761.01	89.77	38.07	88.95	-339.98	-1,181.37	5,386.67	5,302.35	84.32	63.882		
11,343.49	7,870.00	9,421.14	7,761.23	89.73	38.22	88.95	-352.62	-1,181.37	5,386.50	5,301.73	84.77	63.540		
11,400.00	7,870.00	9,451.00	7,762.22	89.68	38.56	88.96	-382.46	-1,181.66	5,386.71	5,301.23	85.48	63.017		
11,500.00	7,870.00	9,487.81	7,763.89	89.60	39.00	88.98	-419.23	-1,182.33	5,387.84	5,301.22	86.62	62.199		
11,600.00	7,870.00	9,561.52	7,767.44	89.55	39.89	89.02	-492.83	-1,184.00	5,389.68	5,301.49	88.19	61.117		
11,700.00	7,870.00	9,655.90	7,770.71	89.52	41.06	89.05	-587.12	-1,186.38	5,391.81	5,301.76	90.04	59.880		
11,800.00	7,870.00	9,878.93	7,774.99	89.50	43.95	89.10	-810.06	-1,189.69	5,393.04	5,299.42	93.62	57.607		
11,900.00	7,870.00	9,983.18	7,776.02	89.51	45.36	89.11	-914.31	-1,189.83	5,392.82	5,296.98	95.85	56.265		
11,957.51	7,870.00	10,029.59	7,776.14	89.52	45.99	89.11	-960.72	-1,189.94	5,392.76	5,295.78	96.98	55.607		
12,000.00	7,870.00	10,063.62	7,776.61	89.54	46.46	89.11	-994.75	-1,190.09	5,392.80	5,294.98	97.81	55.133		
12,100.00	7,870.00	10,147.10	7,778.44	89.59	47.63	89.13	-1,078.21	-1,190.66	5,393.11	5,293.23	99.88	53.995		
12,200.00	7,870.00	10,259.96	7,779.69	89.66	49.23	89.15	-1,191.05	-1,191.50	5,393.51	5,291.07	102.44	52.649		
12,300.00	7,870.00	10,336.91	7,780.58	89.77	50.34	89.16	-1,267.99	-1,192.13	5,393.97	5,289.46	104.51	51.611		
12,400.00	7,870.00	10,415.37	7,782.54	89.89	51.48	89.18	-1,346.42	-1,193.10	5,394.82	5,288.18	106.65	50.586		
12,500.00	7,870.00	10,478.79	7,783.68	90.05	52.41	89.19	-1,409.82	-1,194.18	5,396.19	5,287.62	108.56	49.706		
12,600.00	7,870.00	10,551.82	7,783.49	90.24	53.49	89.19	-1,482.83	-1,195.96	5,398.25	5,287.60	110.65	48.785		
12,700.00	7,870.00	10,639.31	7,784.86	90.46	54.79	89.20	-1,570.27	-1,198.24	5,400.52	5,287.49	113.03	47.778		
12,800.00	7,870.00	10,699.00	7,786.06	90.71	55.68	89.22	-1,629.92	-1,200.08	5,403.28	5,288.33	114.95	47.004		
12,900.00	7,870.00	11,190.05	7,786.08	90.99	63.27	89.22	-2,120.45	-1,198.14	5,401.28	5,276.38	124.90	43.244		
13,000.00	7,870.00	11,233.00	7,787.01	91.32	63.95	89.22	-2,163.37	-1,196.89	5,397.88	5,271.22	126.66	42.616		
13,100.00	7,870.00	11,303.70	7,788.79	91.68	65.08	89.24	-2,234.03	-1,195.40	5,395.33	5,266.36	128.97	41.833		
13,200.00	7,870.00	11,372.14	7,790.08	92.08	66.17	89.26	-2,302.45	-1,194.14	5,393.16	5,261.91	131.25	41.090		
13,300.00	7,870.00	13,300.00	7,789.63	92.52	97.08	89.25	-2,409.37	-1,192.53	5,391.32	5,227.81	163.50	32.974		
13,400.00	7,870.00	11,601.15	7,793.39	93.00	69.85	89.29	-2,531.33	-1,190.07	5,388.88	5,251.17	137.72	39.130		
13,500.00	7,870.00	11,679.00	7,798.81	93.53	71.11	89.35	-2,608.98	-1,188.70	5,386.70	5,246.43	140.27	38.402		
13,600.00	7,870.00	11,753.35	7,804.92	94.10	72.32	89.41	-2,683.08	-1,187.73	5,384.97	5,242.20	142.77	37.719		
13,700.00	7,870.00	11,829.17	7,810.98	94.72	73.56	89.48	-2,758.65	-1,187.10	5,383.72	5,238.42	145.30	37.052		
13,800.00	7,870.00	11,926.54	7,816.09	95.38	75.15	89.53	-2,855.88	-1,186.57	5,382.78	5,234.48	148.30	36.296		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	12,075.84	7,819.45	96.09	77.61	89.57	-3,005.12	-1,184.93	5,381.32	5,228.90	152.43	35.304		
14,000.00	7,870.00	12,196.37	7,817.82	96.84	79.59	89.55	-3,125.61	-1,182.81	5,379.23	5,223.28	155.95	34.494		
14,100.00	7,870.00	12,213.00	7,817.20	97.64	79.87	89.54	-3,142.23	-1,182.47	5,377.60	5,220.37	157.23	34.202		
14,194.96	7,870.00	12,269.04	7,814.76	98.44	80.79	89.52	-3,198.21	-1,181.99	5,376.81	5,217.50	159.31	33.750		
14,200.00	7,870.00	12,270.60	7,814.69	98.48	80.82	89.52	-3,199.76	-1,182.00	5,376.81	5,217.42	159.39	33.734		
14,300.00	7,870.00	12,302.00	7,813.17	99.37	81.34	89.50	-3,231.13	-1,182.31	5,377.52	5,216.55	160.97	33.408		
14,400.00	7,870.00	12,435.38	7,808.19	100.30	83.54	89.45	-3,364.40	-1,183.67	5,378.13	5,213.32	164.81	32.632		
14,500.00	7,870.00	12,613.38	7,807.68	101.26	86.50	89.44	-3,542.39	-1,184.81	5,378.67	5,208.96	169.71	31.694		
14,600.00	7,870.00	12,718.35	7,805.13	102.27	88.25	89.42	-3,647.33	-1,184.15	5,377.72	5,204.74	172.98	31.089		
14,673.74	7,870.00	12,748.00	7,804.91	103.03	88.74	89.41	-3,676.98	-1,184.03	5,377.32	5,203.00	174.32	30.847		
14,700.00	7,870.00	12,748.00	7,804.91	103.31	88.74	89.41	-3,676.98	-1,184.03	5,377.38	5,202.83	174.55	30.807		
14,800.00	7,870.00	12,794.64	7,805.18	104.38	89.52	89.42	-3,723.61	-1,184.37	5,378.10	5,201.60	176.50	30.471		
14,900.00	7,870.00	12,837.00	7,806.04	105.49	90.23	89.43	-3,765.95	-1,185.57	5,380.30	5,201.96	178.34	30.169		
15,000.00	7,870.00	12,877.69	7,807.13	106.63	90.90	89.44	-3,806.59	-1,187.16	5,383.58	5,203.46	180.12	29.888		
15,100.00	7,870.00	12,947.84	7,808.85	107.80	92.07	89.46	-3,876.66	-1,190.12	5,387.47	5,204.87	182.60	29.504		
15,200.00	7,870.00	13,577.15	7,821.06	109.00	102.69	89.59	-4,505.25	-1,189.22	5,388.05	5,189.83	198.22	27.183		
15,300.00	7,870.00	13,612.00	7,822.63	110.22	103.29	89.60	-4,540.03	-1,187.61	5,383.05	5,183.01	200.04	26.910		
15,400.00	7,870.00	13,639.00	7,823.71	111.47	103.75	89.61	-4,566.99	-1,186.64	5,379.27	5,177.62	201.65	26.676		
15,500.00	7,870.00	13,676.86	7,824.93	112.74	104.39	89.63	-4,604.82	-1,185.77	5,376.72	5,173.23	203.49	26.423		
15,600.00	7,870.00	13,728.00	7,825.86	114.03	105.26	89.64	-4,655.95	-1,185.52	5,375.60	5,169.97	205.63	26.143		
15,652.71	7,870.00	13,728.00	7,825.86	114.72	105.26	89.64	-4,655.95	-1,185.52	5,375.34	5,169.24	206.10	26.082		
15,700.00	7,870.00	13,754.78	7,826.07	115.34	105.72	89.64	-4,682.73	-1,185.70	5,375.46	5,168.31	207.16	25.949		
15,800.00	7,870.00	13,946.91	7,825.23	116.68	108.99	89.63	-4,874.84	-1,185.00	5,374.56	5,161.90	212.66	25.273		
15,900.00	7,870.00	13,995.00	7,825.49	118.02	109.81	89.63	-4,922.93	-1,184.90	5,373.85	5,159.13	214.72	25.027		
16,000.00	7,870.00	14,116.36	7,826.01	119.39	111.88	89.64	-5,044.28	-1,184.70	5,373.36	5,154.81	218.55	24.586		
16,097.66	7,870.00	14,173.00	7,827.30	120.74	112.85	89.65	-5,100.91	-1,184.57	5,372.88	5,152.08	220.80	24.334		
16,100.00	7,870.00	14,173.00	7,827.30	120.77	112.85	89.65	-5,100.91	-1,184.57	5,372.88	5,152.06	220.82	24.332		
16,200.00	7,870.00	14,213.74	7,828.37	122.17	113.55	89.66	-5,141.64	-1,184.87	5,373.39	5,150.71	222.68	24.131		
16,300.00	7,870.00	16,300.00	7,826.49	123.58	149.31	89.64	-5,367.77	-1,186.69	5,374.49	5,113.50	260.99	20.592		
16,400.00	7,870.00	14,508.39	7,824.91	125.00	118.59	89.63	-5,436.20	-1,186.06	5,373.35	5,141.70	231.65	23.196		
16,500.00	7,870.00	14,648.55	7,825.69	126.43	120.99	89.63	-5,576.35	-1,184.93	5,372.14	5,136.15	235.98	22.765		
16,600.00	7,870.00	14,708.00	7,827.07	127.88	122.02	89.65	-5,635.78	-1,184.75	5,371.36	5,133.01	238.35	22.536		
16,632.53	7,870.00	14,708.00	7,827.07	128.35	122.02	89.65	-5,635.78	-1,184.75	5,371.26	5,132.62	238.63	22.509		
16,700.00	7,870.00	14,746.45	7,828.00	129.34	122.68	89.66	-5,674.22	-1,185.01	5,371.45	5,131.28	240.17	22.365		
16,800.00	7,870.00	14,816.78	7,829.19	130.81	123.88	89.67	-5,744.53	-1,185.90	5,372.35	5,129.57	242.78	22.129		
16,900.00	7,870.00	14,906.61	7,828.82	132.28	125.42	89.67	-5,834.34	-1,187.10	5,373.37	5,127.49	245.87	21.854		
17,000.00	7,870.00	14,954.29	7,828.71	133.77	126.24	89.67	-5,882.01	-1,188.10	5,375.13	5,127.25	247.88	21.684		
17,100.00	7,870.00	15,030.44	7,829.34	135.27	127.54	89.67	-5,958.13	-1,190.37	5,377.73	5,127.11	250.62	21.458		
17,200.00	7,870.00	15,287.36	7,829.66	136.77	131.95	89.68	-6,214.98	-1,195.21	5,379.76	5,121.77	257.99	20.852		
17,285.30	7,870.00	15,356.56	7,829.53	138.06	133.15	89.68	-6,284.18	-1,195.17	5,379.47	5,119.01	260.47	20.653		
17,300.00	7,870.00	15,362.08	7,829.56	138.28	133.24	89.68	-6,289.70	-1,195.20	5,379.50	5,118.77	260.73	20.632		
17,400.00	7,870.00	15,421.00	7,830.84	139.80	134.26	89.69	-6,348.60	-1,196.09	5,380.44	5,117.37	263.07	20.453		
17,500.00	7,870.00	15,474.01	7,832.68	141.33	135.17	89.71	-6,401.56	-1,197.33	5,382.18	5,116.93	265.24	20.292		
17,600.00	7,870.00	15,561.36	7,835.13	142.86	136.67	89.74	-6,488.86	-1,199.29	5,384.08	5,115.79	268.30	20.068		
17,700.00	7,870.00	15,716.52	7,837.93	144.40	139.34	89.77	-6,643.95	-1,202.48	5,385.85	5,112.73	273.12	19.719		
17,800.00	7,870.00	15,777.00	7,839.47	145.95	140.39	89.78	-6,704.40	-1,203.42	5,387.16	5,111.67	275.49	19.555		
17,900.00	7,870.00	16,082.13	7,841.99	147.50	145.66	89.81	-7,009.45	-1,205.05	5,387.90	5,103.78	284.11	18.964		
18,000.00	7,870.00	16,134.00	7,843.38	149.06	146.57	89.82	-7,061.30	-1,204.46	5,386.39	5,100.06	286.33	18.812		
18,100.00	7,870.00	16,188.67	7,845.13	150.63	147.51	89.84	-7,115.94	-1,204.32	5,385.76	5,097.16	288.60	18.661		
18,129.94	7,870.00	16,205.87	7,845.64	151.10	147.81	89.85	-7,133.13	-1,204.36	5,385.73	5,096.42	289.30	18.616		
18,200.00	7,870.00	16,247.24	7,846.73	152.20	148.53	89.86	-7,174.48	-1,204.61	5,385.92	5,094.96	290.96	18.511		
18,300.00	7,870.00	16,312.00	7,847.20	153.77	149.65	89.86	-7,239.24	-1,205.43	5,386.82	5,093.37	293.45	18.357		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,400.00	7,870.00	16,390.56	7,847.37	155.35	151.01	89.87	-7,317.79	-1,206.84	5,388.26	5,091.97	296.30	18.185	
18,500.00	7,870.00	16,571.01	7,851.38	156.93	154.14	89.91	-7,498.17	-1,208.59	5,388.72	5,086.89	301.82	17.854	
18,600.00	7,870.00	16,698.81	7,856.74	158.52	156.36	89.97	-7,625.86	-1,208.59	5,388.33	5,082.35	305.98	17.610	
18,700.00	7,870.00	16,796.10	7,858.77	160.11	158.05	89.99	-7,723.13	-1,208.77	5,388.16	5,078.82	309.34	17.418	
18,800.00	7,870.00	16,921.76	7,861.83	161.71	160.24	90.02	-7,848.75	-1,208.16	5,387.29	5,073.86	313.44	17.188	
18,900.00	7,870.00	16,977.92	7,863.13	163.31	161.22	90.03	-7,904.89	-1,208.06	5,386.81	5,071.06	315.75	17.060	
18,903.38	7,870.00	16,979.60	7,863.15	163.36	161.24	90.03	-7,906.56	-1,208.06	5,386.80	5,070.98	315.82	17.057	
19,000.00	7,870.00	17,044.99	7,863.22	164.91	162.38	90.03	-7,971.96	-1,208.62	5,387.23	5,068.91	318.32	16.924	
19,100.00	7,870.00	17,266.58	7,869.22	166.52	166.24	90.10	-8,193.44	-1,207.29	5,385.83	5,060.93	324.90	16.577	
19,200.00	7,870.00	17,351.35	7,869.72	168.13	167.72	90.10	-8,278.20	-1,206.28	5,384.30	5,056.34	327.96	16.417	
19,300.00	7,870.00	17,471.00	7,867.23	169.75	169.81	90.08	-8,397.81	-1,204.68	5,382.60	5,050.70	331.89	16.218	
19,383.51	7,870.00	17,471.00	7,867.23	171.10	169.81	90.08	-8,397.81	-1,204.68	5,381.78	5,049.14	332.64	16.179 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-54.18	787.25	-1,090.86	1,345.30					
100.00	100.00	88.98	88.98	0.13	0.15	-54.18	787.29	-1,090.87	1,345.30	1,345.01	0.28	4,764.112 CC		
200.00	200.00	187.86	187.86	0.49	0.31	-54.18	787.41	-1,090.92	1,345.41	1,344.61	0.81	1,670.847		
300.00	300.00	286.73	286.73	0.85	0.48	-54.17	787.62	-1,091.02	1,345.62	1,344.29	1.33	1,013.208		
400.00	400.00	382.84	382.84	1.21	0.76	-54.16	788.00	-1,091.16	1,345.97	1,344.00	1.97	682.905 ES		
500.00	500.00	477.66	477.66	1.57	1.10	-54.14	788.80	-1,091.43	1,346.70	1,344.03	2.67	504.505		
600.00	600.00	572.48	572.47	1.93	1.44	-54.11	790.05	-1,091.83	1,347.80	1,344.44	3.37	400.226		
700.00	699.98	675.41	675.38	2.28	1.81	-117.92	791.66	-1,092.23	1,349.86	1,345.76	4.09	330.011		
800.00	799.84	764.32	764.28	2.64	2.13	-117.99	793.05	-1,092.86	1,353.80	1,349.04	4.76	284.298		
900.00	899.45	864.70	864.64	3.00	2.49	-118.16	795.09	-1,093.75	1,359.82	1,354.34	5.48	248.108		
1,000.00	998.70	971.88	971.79	3.37	2.87	-118.46	796.98	-1,094.27	1,367.05	1,360.81	6.23	219.318		
1,100.00	1,097.47	1,069.62	1,069.46	3.76	3.22	-118.73	800.56	-1,093.33	1,375.91	1,368.95	6.96	197.558		
1,200.00	1,195.62	1,180.98	1,180.69	4.18	3.62	-119.10	805.54	-1,091.22	1,386.25	1,378.49	7.76	178.581		
1,300.00	1,293.06	1,284.38	1,283.95	4.63	3.99	-119.52	810.17	-1,088.25	1,397.60	1,389.05	8.55	163.368		
1,400.00	1,389.64	1,371.05	1,370.41	5.11	4.30	-119.84	815.35	-1,085.22	1,411.10	1,401.79	9.32	151.466		
1,500.00	1,485.27	1,463.55	1,462.45	5.63	4.64	-120.16	823.43	-1,080.92	1,427.03	1,416.89	10.13	140.810		
1,600.00	1,579.82	1,558.65	1,556.73	6.20	5.01	-120.43	834.38	-1,075.09	1,445.07	1,434.06	11.00	131.315		
1,700.00	1,673.17	1,648.31	1,645.27	6.83	5.36	-120.64	846.89	-1,068.48	1,465.22	1,453.32	11.90	123.140		
1,800.00	1,765.21	1,724.00	1,719.87	7.51	5.66	-120.75	858.54	-1,063.24	1,488.35	1,475.57	12.78	116.497		
1,900.00	1,855.84	1,796.27	1,791.09	8.24	5.95	-120.86	870.10	-1,059.18	1,514.78	1,501.11	13.67	110.776		
2,000.00	1,944.94	1,868.95	1,862.73	9.05	6.25	-121.00	881.94	-1,056.03	1,544.44	1,529.84	14.61	105.726		
2,100.00	2,032.39	1,938.06	1,930.86	9.91	6.54	-121.11	893.38	-1,054.00	1,577.41	1,561.86	15.56	101.407		
2,200.00	2,118.11	2,010.90	2,002.68	10.85	6.84	-121.28	905.50	-1,053.01	1,613.78	1,597.23	16.55	97.505		
2,300.00	2,201.97	2,136.64	2,126.65	11.85	7.36	-122.10	926.34	-1,050.65	1,652.08	1,634.21	17.86	92.480		
2,400.00	2,283.88	2,235.18	2,223.59	12.93	7.79	-122.58	943.39	-1,045.97	1,690.45	1,671.37	19.08	88.593		
2,429.47	2,307.63	2,258.60	2,246.61	13.26	7.89	-122.65	947.51	-1,044.86	1,702.23	1,682.82	19.42	87.671		
2,500.00	2,364.26	2,319.15	2,306.15	14.06	8.15	-123.39	958.18	-1,042.01	1,730.85	1,710.60	20.24	85.499		
2,600.00	2,444.56	2,401.84	2,387.50	15.22	8.51	-124.38	972.53	-1,038.29	1,771.93	1,750.54	21.40	82.813		
2,700.00	2,524.85	2,484.08	2,468.50	16.39	8.87	-125.34	986.34	-1,034.99	1,813.74	1,791.21	22.54	80.475		
2,800.00	2,605.14	2,570.97	2,554.13	17.57	9.24	-126.33	1,000.71	-1,031.72	1,856.17	1,832.47	23.70	78.328		
2,900.00	2,685.43	2,900.00	2,704.34	18.76	10.69	-127.95	1,025.25	-1,022.50	1,896.82	1,870.80	26.02	72.908		
3,000.00	2,765.73	2,800.41	2,779.88	19.96	10.25	-128.68	1,038.38	-1,016.14	1,936.69	1,910.34	26.35	73.512		
3,100.00	2,846.02	2,859.50	2,837.96	21.16	10.52	-129.24	1,048.56	-1,012.36	1,978.40	1,951.07	27.33	72.392		
3,200.00	2,926.31	2,929.80	2,907.25	22.37	10.83	-129.92	1,059.92	-1,008.83	2,021.36	1,993.00	28.36	71.282		
3,300.00	3,006.60	3,006.64	2,983.17	23.59	11.16	-130.66	1,071.34	-1,005.75	2,065.19	2,035.79	29.40	70.247		
3,400.00	3,086.90	3,400.00	3,143.86	24.81	12.81	-132.23	1,092.25	-996.72	2,107.32	2,075.43	31.89	66.084		
3,500.00	3,167.19	3,258.38	3,232.13	26.03	12.22	-133.01	1,104.67	-989.66	2,148.44	2,116.41	32.02	67.090		
3,600.00	3,247.48	3,327.76	3,300.56	27.25	12.52	-133.58	1,115.00	-984.64	2,190.66	2,157.66	33.00	66.381		
3,700.00	3,327.77	3,410.10	3,381.92	28.48	12.88	-134.26	1,126.49	-979.39	2,233.71	2,199.67	34.04	65.617		
3,800.00	3,408.07	3,492.45	3,463.09	29.71	13.24	-134.88	1,139.19	-973.76	2,276.97	2,241.88	35.08	64.903		
3,900.00	3,488.36	3,562.74	3,532.49	30.94	13.54	-135.42	1,149.52	-969.50	2,321.00	2,284.97	36.03	64.419		
4,000.00	3,568.65	3,634.88	3,603.89	32.17	13.85	-135.98	1,159.13	-965.86	2,365.87	2,328.91	36.96	64.007		
4,100.00	3,648.95	3,752.32	3,720.22	33.41	14.34	-136.88	1,173.73	-959.08	2,410.12	2,371.95	38.16	63.152		
4,200.00	3,729.24	3,810.00	3,777.20	34.64	14.59	-137.28	1,182.02	-955.73	2,455.07	2,416.08	38.99	62.962		
4,300.00	3,809.53	3,876.99	3,843.20	35.88	14.89	-137.70	1,192.91	-952.26	2,501.07	2,461.17	39.89	62.695		
4,400.00	3,889.82	3,934.62	3,899.93	37.12	15.14	-138.04	1,202.75	-949.73	2,548.04	2,507.32	40.71	62.583		
4,500.00	3,970.12	3,988.00	3,952.65	38.36	15.38	-138.38	1,210.96	-948.22	2,596.24	2,554.76	41.48	62.589		
4,600.00	4,050.41	4,101.51	4,064.93	39.60	15.86	-139.10	1,227.41	-945.20	2,644.63	2,601.97	42.66	61.988		
4,700.00	4,130.70	4,227.23	4,188.77	40.84	16.42	-139.79	1,248.38	-940.06	2,692.36	2,648.39	43.97	61.233		
4,800.00	4,210.99	4,303.86	4,264.16	42.08	16.77	-140.18	1,261.51	-936.04	2,739.25	2,694.34	44.92	60.985		
4,900.00	4,291.29	4,375.31	4,334.45	43.32	17.09	-140.53	1,273.99	-932.94	2,787.04	2,741.22	45.82	60.825		
5,000.00	4,371.58	4,477.05	4,434.48	44.57	17.55	-141.01	1,291.92	-928.30	2,834.78	2,787.82	46.96	60.370		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,528.68	4,485.33	45.81	17.78	-141.26	1,300.65	-926.22	2,882.98	2,835.29	47.69	60.452		
5,200.00	4,532.16	4,651.24	4,606.25	47.05	18.32	-141.85	1,320.07	-921.72	2,931.68	2,882.73	48.95	59.895		
5,300.00	4,612.46	4,802.70	4,755.71	48.30	18.99	-142.57	1,342.86	-912.74	2,978.24	2,927.84	50.39	59.099		
5,400.00	4,692.75	4,967.77	4,917.45	49.54	19.76	-143.20	1,372.38	-898.10	3,022.38	2,970.38	52.00	58.124		
5,500.00	4,773.04	5,038.83	4,987.01	50.79	20.10	-143.46	1,385.25	-891.34	3,066.40	3,013.50	52.91	57.958		
5,600.00	4,853.34	5,102.20	5,049.19	52.03	20.39	-143.69	1,396.10	-885.82	3,111.13	3,057.39	53.74	57.892		
5,700.00	4,933.63	5,158.33	5,104.46	53.28	20.65	-143.92	1,404.94	-881.52	3,156.76	3,102.26	54.49	57.928		
5,800.00	5,013.92	5,305.88	5,249.92	54.53	21.30	-144.52	1,426.40	-869.39	3,201.79	3,145.90	55.88	57.295		
5,900.00	5,094.21	5,368.15	5,311.36	55.77	21.58	-144.77	1,435.15	-864.11	3,246.76	3,190.10	56.66	57.300		
6,000.00	5,174.51	5,445.84	5,387.87	57.02	21.92	-145.06	1,447.03	-857.84	3,292.28	3,234.72	57.56	57.199		
6,100.00	5,254.80	5,507.33	5,448.36	58.27	22.20	-145.28	1,457.04	-853.16	3,338.34	3,280.00	58.34	57.222		
6,200.00	5,335.09	5,569.82	5,509.93	59.52	22.48	-145.50	1,466.87	-848.91	3,385.15	3,326.04	59.12	57.263		
6,300.00	5,415.38	5,632.82	5,572.16	60.76	22.76	-145.73	1,475.84	-845.11	3,432.64	3,372.77	59.87	57.331		
6,400.00	5,495.68	5,693.24	5,631.82	62.01	23.03	-145.95	1,484.88	-841.88	3,480.83	3,420.22	60.61	57.428		
6,500.00	5,575.97	5,745.65	5,683.45	63.26	23.26	-146.12	1,493.52	-839.44	3,529.79	3,468.50	61.29	57.592		
6,600.00	5,656.26	5,803.00	5,740.06	64.51	23.51	-146.31	1,502.50	-837.48	3,579.73	3,517.73	62.00	57.741		
6,700.00	5,736.55	5,875.21	5,811.27	65.76	23.83	-146.53	1,514.26	-835.40	3,630.26	3,567.43	62.83	57.782		
6,800.00	5,816.85	5,939.07	5,874.12	67.01	24.12	-146.72	1,525.43	-833.62	3,681.00	3,617.41	63.59	57.883		
6,900.00	5,897.14	6,133.74	6,066.47	68.26	24.96	-147.34	1,554.16	-825.74	3,730.37	3,664.98	65.39	57.050		
7,000.00	5,977.43	6,188.62	6,120.76	69.50	25.20	-147.52	1,561.73	-823.06	3,779.36	3,713.31	66.05	57.220		
7,100.00	6,057.72	6,248.00	6,179.60	70.75	25.44	-147.72	1,569.32	-820.78	3,829.20	3,762.47	66.73	57.382		
7,200.00	6,138.02	6,324.09	6,255.06	72.00	25.76	-147.98	1,578.75	-818.20	3,879.55	3,812.02	67.53	57.448		
7,300.00	6,218.31	6,396.75	6,327.03	73.25	26.07	-148.21	1,588.44	-815.73	3,930.00	3,861.68	68.32	57.525		
7,400.00	6,298.60	6,539.67	6,468.07	74.50	26.69	-148.59	1,610.90	-810.42	3,980.37	3,910.65	69.72	57.093		
7,500.00	6,378.90	6,634.12	6,560.99	75.75	27.12	-148.81	1,627.13	-805.56	4,029.41	3,958.67	70.74	56.961		
7,600.00	6,459.19	7,140.00	7,060.46	77.00	29.04	-150.65	1,663.30	-760.02	4,078.97	4,005.02	73.95	55.161		
7,700.00	6,539.48	7,140.00	7,060.46	78.25	29.04	-150.65	1,663.30	-760.02	4,120.48	4,046.18	74.30	55.459		
7,800.00	6,619.77	7,140.00	7,060.46	79.50	29.04	-150.65	1,663.30	-760.02	4,163.98	4,089.37	74.61	55.809		
7,900.00	6,700.07	7,179.73	7,099.37	80.75	29.11	-150.92	1,657.06	-755.09	4,208.15	4,133.20	74.94	56.150		
8,000.00	6,780.36	7,191.15	7,110.52	82.00	29.13	-151.00	1,654.78	-754.07	4,254.59	4,179.38	75.21	56.567		
8,100.00	6,860.65	7,229.00	7,147.18	83.25	29.19	-151.30	1,645.66	-752.00	4,303.25	4,227.78	75.47	57.016		
8,200.00	6,940.94	7,229.00	7,147.18	84.50	29.19	-151.30	1,645.66	-752.00	4,352.53	4,276.85	75.68	57.511		
8,300.00	7,021.24	7,229.00	7,147.18	85.76	29.19	-151.30	1,645.66	-752.00	4,403.53	4,327.67	75.86	58.048		
8,400.00	7,101.53	7,229.00	7,147.18	87.01	29.19	-151.30	1,645.66	-752.00	4,456.18	4,380.17	76.01	58.625		
8,500.00	7,181.82	7,229.00	7,147.18	88.26	29.19	-151.30	1,645.66	-752.00	4,510.45	4,434.31	76.14	59.240		
8,605.60	7,266.61	7,267.26	7,183.72	89.58	29.22	-151.62	1,634.33	-751.42	4,568.69	4,492.42	76.27	59.902		
8,650.00	7,302.60	7,274.02	7,190.11	90.13	29.22	-160.53	1,632.14	-751.43	4,593.85	4,517.54	76.31	60.199		
8,700.00	7,343.78	7,281.89	7,197.53	90.72	29.23	-171.20	1,629.52	-751.47	4,622.68	4,546.34	76.34	60.552		
8,750.00	7,385.32	7,318.00	7,231.21	91.28	29.25	177.60	1,616.51	-752.24	4,652.19	4,575.83	76.36	60.926		
8,800.00	7,426.92	7,318.00	7,231.21	91.81	29.25	166.57	1,616.51	-752.24	4,681.17	4,604.82	76.36	61.306		
8,850.00	7,468.27	7,318.00	7,231.21	92.29	29.25	155.84	1,616.51	-752.24	4,710.06	4,633.72	76.34	61.698		
8,900.00	7,509.04	7,318.00	7,231.21	92.72	29.25	145.70	1,616.51	-752.24	4,738.63	4,662.32	76.31	62.099		
8,950.00	7,548.93	7,318.00	7,231.21	93.10	29.25	136.35	1,616.51	-752.24	4,766.68	4,690.42	76.26	62.504		
9,000.00	7,587.63	7,346.74	7,257.58	93.43	29.26	127.97	1,605.14	-753.32	4,793.79	4,717.60	76.19	62.916		
9,050.00	7,624.85	7,363.83	7,273.09	93.71	29.26	120.54	1,598.00	-754.04	4,819.87	4,743.74	76.12	63.317		
9,100.00	7,660.30	7,380.96	7,288.50	93.93	29.26	114.04	1,590.57	-754.84	4,844.70	4,768.65	76.05	63.704		
9,150.00	7,693.72	7,408.00	7,312.55	94.10	29.26	108.44	1,578.29	-756.24	4,868.13	4,792.17	75.97	64.083		
9,200.00	7,724.85	7,439.29	7,339.84	94.23	29.25	103.66	1,563.07	-757.85	4,889.90	4,814.04	75.86	64.459		
9,250.00	7,753.45	9,250.00	7,446.04	94.30	28.61	99.97	1,483.03	-761.75	4,909.00	4,834.81	74.19	66.171		
9,300.00	7,779.31	7,586.00	7,456.15	94.34	29.15	96.53	1,474.48	-761.99	4,926.01	4,850.74	75.27	65.445		
9,350.00	7,802.23	7,586.00	7,456.15	94.33	29.15	93.59	1,474.48	-761.99	4,941.22	4,865.95	75.27	65.643		
9,400.00	7,822.03	7,622.14	7,480.68	94.28	29.10	91.31	1,447.95	-762.43	4,953.87	4,878.78	75.08	65.977		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,630.87	7,486.34	94.20	29.09	89.40	1,441.32	-762.68	4,964.86	4,889.78	75.08	66.126		
9,500.00	7,851.72	7,639.50	7,491.83	94.10	29.08	87.93	1,434.67	-762.98	4,973.74	4,898.64	75.10	66.224		
9,550.00	7,861.37	7,675.00	7,513.28	93.96	29.03	87.03	1,406.45	-764.78	4,980.84	4,905.86	74.98	66.433		
9,600.00	7,867.46	7,675.00	7,513.28	93.81	29.03	86.34	1,406.45	-764.78	4,985.16	4,910.04	75.12	66.367		
9,650.00	7,869.94	7,675.00	7,513.28	93.64	29.03	86.03	1,406.45	-764.78	4,987.34	4,912.05	75.29	66.244		
9,659.14	7,870.00	7,675.00	7,513.28	93.60	29.03	86.01	1,406.45	-764.78	4,987.50	4,912.18	75.32	66.215		
9,700.00	7,870.00	8,030.64	7,664.46	93.46	28.72	87.75	1,086.43	-770.07	4,987.36	4,914.43	72.94	68.379		
9,800.00	7,870.00	8,153.16	7,690.03	93.11	28.79	88.04	966.75	-765.86	4,982.69	4,910.11	72.58	68.650		
9,900.00	7,870.00	8,219.24	7,698.92	92.77	28.89	88.14	901.32	-763.61	4,978.46	4,905.82	72.64	68.537		
10,000.00	7,870.00	8,298.00	7,702.45	92.46	29.05	88.18	822.72	-761.13	4,974.81	4,902.13	72.69	68.443		
10,100.00	7,870.00	8,512.97	7,698.43	92.16	29.89	88.13	608.07	-750.50	4,968.91	4,896.45	72.46	68.578		
10,200.00	7,870.00	8,566.00	7,698.30	91.87	30.16	88.13	555.11	-747.87	4,963.61	4,890.73	72.88	68.109		
10,300.00	7,870.00	8,603.74	7,698.42	91.60	30.39	88.13	517.40	-746.42	4,959.41	4,886.02	73.38	67.582		
10,400.00	7,870.00	8,655.00	7,699.12	91.34	30.70	88.14	466.16	-745.19	4,956.48	4,882.56	73.92	67.049		
10,500.00	7,870.00	8,760.36	7,701.90	91.11	31.43	88.17	360.85	-743.18	4,954.17	4,879.55	74.61	66.397		
10,600.00	7,870.00	8,783.75	7,702.69	90.88	31.63	88.18	337.47	-742.97	4,952.37	4,877.10	75.27	65.795		
10,700.00	7,870.00	8,833.00	7,704.58	90.67	32.00	88.20	288.26	-743.06	4,951.89	4,875.89	76.00	65.154		
10,707.03	7,870.00	8,833.00	7,704.58	90.66	32.00	88.20	288.26	-743.06	4,951.89	4,875.84	76.05	65.114		
10,800.00	7,870.00	8,858.46	7,705.55	90.48	32.21	88.21	262.83	-743.43	4,952.60	4,875.88	76.72	64.555		
10,900.00	7,870.00	8,898.79	7,706.83	90.31	32.55	88.23	222.53	-744.39	4,954.56	4,877.06	77.51	63.925		
11,000.00	7,870.00	8,964.98	7,708.47	90.15	33.12	88.25	156.40	-746.74	4,957.62	4,879.18	78.44	63.203		
11,100.00	7,870.00	9,179.83	7,712.10	90.00	35.17	88.29	-58.34	-752.38	4,960.03	4,879.70	80.33	61.744		
11,200.00	7,870.00	9,321.12	7,713.64	89.88	36.67	88.31	-199.61	-753.42	4,960.33	4,878.22	82.11	60.409		
11,300.00	7,870.00	9,455.64	7,711.69	89.77	38.20	88.29	-334.11	-753.68	4,960.27	4,876.25	84.02	59.035		
11,400.00	7,870.00	9,574.16	7,708.86	89.68	39.63	88.25	-452.59	-752.42	4,958.85	4,872.90	85.95	57.694		
11,476.08	7,870.00	9,602.34	7,708.25	89.62	39.97	88.25	-480.76	-752.36	4,958.48	4,871.66	86.82	57.113		
11,500.00	7,870.00	9,634.00	7,707.61	89.60	40.36	88.24	-512.41	-752.62	4,958.66	4,871.32	87.34	56.776		
11,507.74	7,870.00	9,634.00	7,707.61	89.60	40.36	88.24	-512.41	-752.62	4,958.65	4,871.26	87.40	56.738		
11,600.00	7,870.00	9,729.26	7,705.93	89.55	41.56	88.22	-607.65	-753.38	4,959.14	4,869.95	89.19	55.605		
11,700.00	7,870.00	9,905.25	7,703.89	89.52	43.87	88.20	-783.63	-752.60	4,958.46	4,866.28	92.19	53.788		
11,800.00	7,870.00	9,901.00	7,703.92	89.50	43.81	88.20	-779.38	-752.66	4,957.97	4,865.07	92.89	53.374		
11,804.73	7,870.00	9,931.03	7,703.70	89.50	44.21	88.19	-809.41	-752.52	4,957.67	4,864.33	93.34	53.116		
11,900.00	7,870.00	9,957.83	7,703.50	89.51	44.57	88.19	-836.20	-752.79	4,958.33	4,863.89	94.43	52.506		
12,000.00	7,870.00	9,990.00	7,703.26	89.54	45.00	88.19	-868.37	-753.60	4,960.44	4,864.79	95.65	51.862		
12,100.00	7,870.00	10,148.66	7,702.47	89.59	47.18	88.18	-1,026.95	-758.08	4,963.14	4,864.40	98.74	50.263		
12,200.00	7,870.00	10,451.71	7,711.95	89.66	51.55	88.29	-1,329.83	-757.26	4,961.98	4,857.50	104.48	47.493		
12,300.00	7,870.00	10,509.17	7,713.10	89.77	52.40	88.30	-1,387.27	-756.28	4,959.88	4,853.62	106.27	46.674		
12,400.00	7,870.00	12,400.00	7,713.40	89.89	80.64	88.31	-1,498.00	-754.63	4,958.04	4,822.46	135.58	36.570		
12,500.00	7,870.00	10,670.78	7,713.40	90.05	54.81	88.31	-1,548.86	-754.00	4,956.56	4,845.83	110.72	44.766		
12,600.00	7,870.00	10,734.42	7,713.62	90.24	55.78	88.31	-1,612.50	-754.03	4,956.18	4,843.50	112.68	43.984		
12,700.00	7,870.00	12,700.00	7,715.07	90.46	85.90	88.32	-1,758.02	-753.47	4,955.37	4,811.26	144.11	34.386		
12,800.00	7,870.00	10,939.78	7,715.94	90.71	58.92	88.33	-1,817.84	-753.09	4,954.48	4,836.32	118.17	41.928		
12,819.07	7,870.00	10,948.08	7,716.02	90.76	59.05	88.33	-1,826.13	-753.11	4,954.45	4,835.97	118.48	41.816		
12,900.00	7,870.00	11,020.70	7,716.63	90.99	60.17	88.34	-1,898.75	-753.59	4,954.68	4,834.14	120.54	41.103		
13,000.00	7,870.00	11,096.12	7,717.18	91.32	61.34	88.35	-1,974.17	-753.91	4,954.82	4,831.99	122.83	40.338		
13,100.00	7,870.00	11,149.00	7,716.73	91.68	62.16	88.34	-2,027.04	-754.73	4,955.99	4,831.31	124.68	39.751		
13,200.00	7,870.00	11,268.30	7,715.08	92.08	64.03	88.32	-2,146.31	-756.35	4,956.99	4,829.11	127.89	38.761		
13,300.00	7,870.00	11,327.00	7,714.63	92.52	64.96	88.32	-2,205.00	-757.64	4,958.75	4,828.88	129.88	38.180		
13,400.00	7,870.00	11,508.97	7,714.76	93.00	67.84	88.32	-2,386.94	-760.94	4,960.46	4,825.96	134.50	36.880		
13,500.00	7,870.00	11,545.92	7,715.07	93.53	68.43	88.33	-2,423.88	-761.46	4,961.48	4,825.40	136.08	36.461		
13,600.00	7,870.00	11,595.00	7,715.52	94.10	69.21	88.33	-2,472.94	-762.82	4,963.74	4,825.84	137.91	35.994		
13,700.00	7,870.00	11,702.14	7,717.41	94.72	70.92	88.35	-2,580.00	-766.28	4,966.60	4,825.58	141.03	35.218		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	11,970.70	7,717.27	95.38	75.27	88.35	-2,848.52	-769.47	4,967.52	4,819.73	147.79	33.612		
13,900.00	7,870.00	12,040.00	7,716.00	96.09	76.41	88.34	-2,917.81	-769.32	4,967.00	4,816.86	150.14	33.082		
13,930.93	7,870.00	12,057.76	7,715.54	96.32	76.70	88.33	-2,935.57	-769.35	4,966.97	4,816.18	150.79	32.941		
14,000.00	7,870.00	12,109.90	7,714.41	96.84	77.55	88.32	-2,987.69	-769.59	4,967.09	4,814.58	152.51	32.569		
14,100.00	7,870.00	14,100.00	7,717.89	97.64	110.64	88.36	-3,235.99	-768.49	4,966.76	4,778.74	188.01	26.417		
14,200.00	7,870.00	12,449.32	7,720.19	98.48	83.17	88.39	-3,326.98	-766.23	4,963.90	4,801.93	161.97	30.647		
14,300.00	7,870.00	12,501.93	7,721.63	99.37	84.05	88.40	-3,379.56	-765.44	4,961.95	4,797.93	164.02	30.252		
14,400.00	7,870.00	12,575.00	7,723.48	100.30	85.27	88.42	-3,452.61	-764.87	4,960.75	4,794.20	166.55	29.786		
14,485.78	7,870.00	12,612.83	7,724.21	101.12	85.90	88.43	-3,490.43	-764.85	4,960.36	4,792.24	168.12	29.505		
14,500.00	7,870.00	12,619.48	7,724.30	101.26	86.01	88.43	-3,497.08	-764.88	4,960.37	4,791.98	168.39	29.458		
14,600.00	7,870.00	14,600.00	7,725.42	102.27	119.22	88.45	-3,695.16	-765.27	4,960.87	4,757.06	203.81	24.341		
14,700.00	7,870.00	12,895.46	7,726.35	103.31	90.62	88.46	-3,773.01	-763.74	4,958.70	4,782.12	176.58	28.082		
14,800.00	7,870.00	12,931.00	7,727.11	104.38	91.22	88.46	-3,808.55	-763.67	4,958.02	4,779.80	178.22	27.819		
14,803.89	7,870.00	12,931.00	7,727.11	104.43	91.22	88.46	-3,808.55	-763.67	4,958.02	4,779.77	178.25	27.814		
14,900.00	7,870.00	12,970.23	7,728.02	105.49	91.88	88.47	-3,847.76	-764.09	4,958.61	4,778.67	179.94	27.558		
15,000.00	7,870.00	13,020.00	7,729.05	106.63	92.71	88.49	-3,897.51	-765.15	4,960.31	4,778.42	181.89	27.270		
15,100.00	7,870.00	13,090.71	7,730.16	107.80	93.89	88.50	-3,968.18	-767.23	4,962.83	4,778.47	184.37	26.918		
15,200.00	7,870.00	13,192.35	7,731.00	109.00	95.59	88.51	-4,069.77	-770.43	4,965.62	4,778.00	187.63	26.466		
15,300.00	7,870.00	13,405.23	7,731.99	110.22	99.17	88.52	-4,282.61	-773.45	4,966.12	4,772.40	193.72	25.636		
15,400.00	7,870.00	13,466.00	7,733.32	111.47	100.19	88.54	-4,343.36	-774.49	4,967.24	4,771.26	195.99	25.345		
15,500.00	7,870.00	13,525.51	7,734.29	112.74	101.20	88.55	-4,402.84	-775.97	4,969.16	4,770.95	198.21	25.070		
15,600.00	7,870.00	15,600.00	7,729.53	114.03	136.53	88.50	-4,668.95	-778.36	4,970.16	4,733.67	236.49	21.016		
15,700.00	7,870.00	13,870.42	7,728.12	115.34	107.05	88.48	-4,747.66	-777.40	4,968.73	4,760.31	208.43	23.839		
15,783.61	7,870.00	13,911.00	7,727.44	116.46	107.74	88.47	-4,788.23	-777.43	4,968.47	4,758.38	210.09	23.649		
15,800.00	7,870.00	13,911.00	7,727.44	116.68	107.74	88.47	-4,788.23	-777.43	4,968.49	4,758.28	210.21	23.636		
15,900.00	7,870.00	13,949.05	7,726.78	118.02	108.39	88.46	-4,826.27	-777.93	4,969.47	4,757.57	211.90	23.452		
16,000.00	7,870.00	14,000.00	7,725.83	119.39	109.25	88.45	-4,877.19	-779.26	4,971.67	4,757.77	213.90	23.243		
16,100.00	7,870.00	14,167.22	7,722.90	120.77	112.09	88.42	-5,044.33	-783.38	4,974.04	4,755.09	218.95	22.718		
16,200.00	7,870.00	16,200.00	7,721.33	122.17	146.85	88.40	-5,213.25	-784.59	4,974.36	4,718.44	255.93	19.437		
16,300.00	7,870.00	14,446.00	7,720.47	123.58	116.85	88.39	-5,323.09	-783.93	4,973.39	4,745.75	227.63	21.848		
16,364.83	7,870.00	14,492.34	7,720.58	124.50	117.65	88.39	-5,369.43	-783.77	4,973.03	4,743.71	229.32	21.686		
16,400.00	7,870.00	14,506.35	7,720.70	125.00	117.89	88.39	-5,383.44	-783.85	4,973.10	4,743.16	229.94	21.628		
16,500.00	7,870.00	14,572.84	7,721.69	126.43	119.03	88.41	-5,449.92	-784.80	4,974.06	4,741.66	232.40	21.403		
16,600.00	7,870.00	14,671.16	7,723.35	127.88	120.71	88.43	-5,548.21	-786.14	4,975.03	4,739.33	235.70	21.107		
16,700.00	7,870.00	14,782.52	7,727.24	129.34	122.62	88.47	-5,659.48	-787.95	4,976.25	4,736.88	239.37	20.789		
16,800.00	7,870.00	14,837.89	7,729.44	130.81	123.56	88.50	-5,714.80	-788.82	4,977.48	4,735.95	241.53	20.608		
16,900.00	7,870.00	14,892.00	7,731.86	132.28	124.49	88.52	-5,768.84	-790.46	4,979.92	4,736.27	243.65	20.439		
17,000.00	7,870.00	15,043.28	7,739.23	133.77	127.08	88.61	-5,919.87	-795.02	4,982.65	4,734.22	248.43	20.057		
17,100.00	7,870.00	15,167.28	7,745.14	135.27	129.21	88.68	-6,043.71	-797.26	4,983.98	4,731.51	252.47	19.741		
17,200.00	7,870.00	15,204.06	7,746.69	136.77	129.84	88.70	-6,080.44	-798.15	4,985.89	4,731.77	254.12	19.620		
17,300.00	7,870.00	15,248.00	7,748.28	138.28	130.59	88.72	-6,124.32	-799.70	4,988.96	4,733.03	255.94	19.493		
17,400.00	7,870.00	15,374.52	7,752.53	139.80	132.76	88.77	-6,250.70	-804.02	4,991.88	4,731.82	260.06	19.195		
17,500.00	7,870.00	15,432.09	7,753.92	141.33	133.75	88.78	-6,308.20	-806.28	4,995.40	4,733.16	262.25	19.048		
17,600.00	7,870.00	15,511.25	7,755.28	142.86	135.10	88.80	-6,387.27	-809.85	4,999.54	4,734.51	265.03	18.864		
17,700.00	7,870.00	15,794.16	7,758.03	144.40	139.96	88.83	-6,670.03	-818.25	5,002.32	4,728.83	273.50	18.290		
17,800.00	7,870.00	15,934.84	7,758.93	145.95	142.39	88.84	-6,810.70	-818.94	5,002.41	4,724.42	277.99	17.995		
17,900.00	7,870.00	16,222.00	7,750.38	147.50	147.38	88.74	-7,097.63	-813.28	4,999.69	4,713.46	286.23	17.468		
18,000.00	7,870.00	16,274.66	7,749.81	149.06	148.30	88.74	-7,150.25	-811.30	4,995.94	4,707.50	288.44	17.320		
18,100.00	7,870.00	16,312.00	7,749.86	150.63	148.95	88.74	-7,187.59	-810.64	4,993.72	4,703.48	290.24	17.206		
18,200.00	7,870.00	16,312.00	7,749.86	152.20	148.95	88.74	-7,187.59	-810.64	4,993.06	4,702.08	290.98	17.160		
18,220.51	7,870.00	16,341.26	7,750.11	152.52	149.46	88.74	-7,216.85	-810.58	4,992.87	4,700.95	291.92	17.104		
18,300.00	7,870.00	16,364.10	7,750.40	153.77	149.85	88.74	-7,239.68	-810.83	4,993.45	4,700.38	293.08	17.038		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,400.00	7,870.00	16,401.00	7,751.02	155.35	150.49	88.75	-7,276.56	-811.79	4,995.49	4,700.77	294.72	16.950	
18,500.00	7,870.00	16,499.97	7,753.17	156.93	152.20	88.77	-7,375.45	-815.01	4,998.36	4,700.25	298.11	16.767	
18,600.00	7,870.00	16,678.61	7,759.24	158.52	155.29	88.85	-7,553.95	-818.94	5,000.15	4,696.40	303.75	16.461	
18,700.00	7,870.00	16,712.41	7,760.57	160.11	155.87	88.86	-7,587.71	-819.73	5,001.91	4,696.59	305.32	16.382	
18,800.00	7,870.00	16,757.00	7,762.30	161.71	156.64	88.88	-7,632.24	-821.23	5,004.82	4,697.67	307.16	16.294	
18,900.00	7,870.00	16,851.84	7,765.78	163.31	158.28	88.92	-7,726.94	-825.01	5,008.39	4,697.96	310.43	16.134	
19,000.00	7,870.00	16,968.46	7,771.23	164.91	160.29	88.98	-7,843.36	-829.30	5,011.64	4,697.28	314.35	15.943	
19,100.00	7,870.00	17,051.98	7,773.70	166.52	161.73	89.01	-7,926.77	-832.45	5,015.02	4,697.72	317.30	15.805	
19,200.00	7,870.00	17,150.04	7,775.21	168.13	163.43	89.03	-8,024.75	-836.40	5,018.68	4,698.00	320.67	15.650	
19,300.00	7,870.00	17,306.30	7,777.33	169.75	166.13	89.06	-8,180.90	-841.74	5,021.76	4,696.03	325.73	15.417	
19,383.51	7,870.00	17,420.74	7,779.87	171.10	168.11	89.09	-8,295.27	-844.64	5,023.57	4,694.08	329.49	15.247 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.99	785.71	-1,042.38	1,345.91					
100.00	100.00	318.00	317.99	0.13	0.00	-52.99	785.71	-1,042.38	1,325.09	1,324.67	0.42	3,174.770		
200.00	200.00	318.00	317.99	0.49	0.00	-52.99	785.71	-1,042.38	1,311.59	1,311.05	0.54	2,429.066		
300.00	300.00	318.00	317.99	0.85	0.00	-52.99	785.71	-1,042.38	1,305.63	1,304.78	0.85	1,530.944		
327.99	327.99	318.00	317.99	0.95	0.00	-52.99	785.71	-1,042.38	1,305.33	1,304.38	0.95	1,371.281		
400.00	400.00	388.38	388.37	1.21	0.13	-53.03	785.06	-1,043.04	1,305.47	1,304.13	1.34	976.816		
500.00	500.00	491.14	491.11	1.57	0.31	-53.09	784.07	-1,043.81	1,305.49	1,303.61	1.88	694.606		
600.00	600.00	593.89	593.86	1.93	0.50	-53.14	783.06	-1,044.33	1,305.30	1,302.88	2.42	538.814		
621.56	621.56	616.05	616.02	2.00	0.54	-116.97	782.83	-1,044.41	1,305.27	1,302.73	2.54	514.149 CC, ES		
700.00	699.98	679.68	679.64	2.28	0.80	-116.96	783.90	-1,044.03	1,306.39	1,303.31	3.08	423.594		
800.00	799.84	769.21	769.06	2.64	1.12	-116.90	787.89	-1,042.38	1,309.96	1,306.22	3.75	349.772		
900.00	899.45	861.32	860.80	3.00	1.45	-116.75	795.33	-1,038.96	1,315.79	1,311.35	4.44	296.477		
1,000.00	998.70	949.24	948.04	3.37	1.78	-116.56	805.21	-1,034.37	1,323.88	1,318.74	5.14	257.521		
1,100.00	1,097.47	1,036.98	1,034.86	3.76	2.13	-116.37	816.93	-1,029.52	1,334.54	1,328.67	5.87	227.179		
1,200.00	1,195.62	1,133.00	1,129.57	4.18	2.53	-116.19	831.48	-1,023.46	1,347.20	1,340.53	6.67	201.838		
1,300.00	1,293.06	1,227.37	1,222.58	4.63	2.94	-116.09	846.28	-1,017.44	1,361.66	1,354.16	7.50	181.523		
1,400.00	1,389.64	1,342.71	1,336.30	5.11	3.44	-116.15	864.15	-1,010.18	1,377.68	1,369.23	8.45	162.945		
1,500.00	1,485.27	1,443.23	1,435.35	5.63	3.88	-116.26	879.40	-1,002.41	1,393.88	1,384.50	9.38	148.573		
1,600.00	1,579.82	1,524.59	1,515.43	6.20	4.25	-116.33	892.41	-996.35	1,412.38	1,402.12	10.26	137.629		
1,700.00	1,673.17	1,635.38	1,624.30	6.83	4.75	-116.62	911.11	-987.93	1,432.94	1,421.61	11.33	126.497		
1,800.00	1,765.21	1,745.28	1,732.51	7.51	5.24	-117.04	928.00	-978.75	1,453.71	1,441.28	12.43	116.987		
1,900.00	1,855.84	1,822.79	1,808.90	8.24	5.59	-117.29	939.66	-972.80	1,476.67	1,463.26	13.40	110.161		
2,000.00	1,944.94	1,896.23	1,881.30	9.05	5.92	-117.53	951.04	-968.06	1,502.73	1,488.33	14.40	104.374		
2,100.00	2,032.39	2,028.64	2,011.82	9.91	6.51	-118.44	971.40	-959.10	1,530.56	1,514.83	15.73	97.309		
2,200.00	2,118.11	2,138.34	2,119.84	10.85	7.00	-119.16	987.44	-948.66	1,557.74	1,540.74	16.99	91.671		
2,300.00	2,201.97	2,211.61	2,191.90	11.85	7.34	-119.47	998.73	-941.71	1,587.56	1,569.45	18.11	87.656		
2,400.00	2,283.88	2,279.67	2,258.84	12.93	7.65	-119.72	1,009.65	-936.06	1,620.78	1,601.55	19.23	84.284		
2,429.47	2,307.63	2,299.99	2,278.82	13.26	7.74	-119.80	1,012.98	-934.51	1,631.21	1,611.65	19.57	83.370		
2,500.00	2,364.26	2,348.00	2,326.04	14.06	7.97	-120.43	1,021.00	-931.09	1,656.92	1,636.56	20.36	81.367		
2,600.00	2,444.56	2,417.57	2,394.47	15.22	8.28	-121.33	1,032.78	-926.78	1,694.72	1,673.23	21.49	78.851		
2,700.00	2,524.85	2,495.59	2,471.26	16.39	8.64	-122.31	1,045.99	-922.75	1,733.92	1,711.26	22.66	76.531		
2,800.00	2,605.14	2,580.99	2,555.40	17.57	9.02	-123.37	1,059.97	-918.56	1,773.72	1,749.87	23.85	74.376		
2,900.00	2,685.43	2,653.28	2,626.81	18.76	9.33	-124.27	1,070.85	-915.82	1,814.51	1,789.58	24.93	72.773		
3,000.00	2,765.73	2,783.87	2,755.90	19.96	9.90	-125.84	1,089.81	-910.35	1,855.53	1,829.18	26.35	70.409		
3,100.00	2,846.02	2,892.46	2,862.92	21.16	10.38	-127.01	1,106.41	-902.41	1,894.57	1,866.92	27.65	68.514		
3,200.00	2,926.31	3,022.85	2,991.78	22.37	10.95	-128.42	1,123.64	-892.64	1,933.55	1,904.51	29.04	66.582		
3,300.00	3,006.60	3,098.01	3,066.30	23.59	11.26	-129.25	1,131.71	-886.96	1,972.09	1,942.01	30.07	65.579		
3,400.00	3,086.90	3,214.96	3,182.18	24.81	11.75	-130.50	1,144.04	-877.28	2,010.50	1,979.19	31.32	64.200		
3,500.00	3,167.19	3,323.06	3,288.85	26.03	12.22	-131.52	1,157.62	-866.26	2,048.34	2,015.81	32.54	62.952		
3,600.00	3,247.48	3,410.80	3,375.09	27.25	12.62	-132.27	1,170.29	-856.17	2,085.95	2,052.29	33.66	61.971		
3,700.00	3,327.77	3,478.08	3,441.30	28.48	12.92	-132.83	1,179.79	-848.94	2,124.46	2,089.82	34.64	61.326		
3,800.00	3,408.07	3,543.00	3,505.40	29.71	13.21	-133.39	1,188.21	-843.12	2,164.46	2,128.88	35.58	60.836		
3,900.00	3,488.36	3,621.91	3,583.44	30.94	13.55	-134.07	1,198.04	-836.74	2,205.48	2,168.90	36.57	60.303		
4,000.00	3,568.65	3,773.74	3,732.94	32.17	14.23	-135.24	1,218.96	-820.65	2,244.59	2,206.56	38.04	59.013		
4,100.00	3,648.95	3,838.40	3,796.63	33.41	14.52	-135.73	1,227.58	-813.57	2,283.99	2,245.05	38.95	58.644		
4,200.00	3,729.24	3,899.00	3,856.55	34.64	14.79	-136.20	1,234.72	-808.07	2,324.89	2,285.09	39.80	58.415		
4,300.00	3,809.53	3,955.13	3,912.17	35.88	15.02	-136.65	1,240.92	-803.78	2,367.16	2,326.57	40.59	58.313		
4,400.00	3,889.82	4,022.80	3,979.22	37.12	15.31	-137.17	1,248.82	-799.11	2,410.53	2,369.08	41.45	58.151		
4,500.00	3,970.12	4,090.48	4,045.98	38.36	15.60	-137.62	1,258.88	-794.46	2,454.72	2,412.40	42.33	57.994		
4,600.00	4,050.41	4,143.45	4,098.17	39.60	15.84	-137.95	1,267.39	-791.32	2,500.10	2,457.00	43.10	58.013		
4,700.00	4,130.70	4,272.27	4,225.16	40.84	16.42	-138.73	1,287.65	-783.83	2,545.79	2,501.38	44.41	57.320		
4,800.00	4,210.99	4,340.66	4,292.76	42.08	16.72	-139.16	1,297.11	-779.58	2,590.97	2,545.71	45.26	57.244		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,291.29	4,466.11	4,416.87	43.32	17.25	-139.95	1,313.46	-771.50	2,636.06	2,589.57	46.49	56.704		
5,000.00	4,371.58	4,532.87	4,482.82	44.57	17.55	-140.34	1,322.79	-766.84	2,680.97	2,633.66	47.32	56.659		
5,100.00	4,451.87	4,646.81	4,594.97	45.81	18.06	-140.92	1,341.07	-758.63	2,726.17	2,677.65	48.52	56.190		
5,200.00	4,532.16	4,716.28	4,663.24	47.05	18.39	-141.25	1,352.76	-753.32	2,771.13	2,721.74	49.39	56.105		
5,300.00	4,612.46	4,778.41	4,724.47	48.30	18.67	-141.56	1,362.43	-749.10	2,816.84	2,766.65	50.19	56.128		
5,400.00	4,692.75	4,991.16	4,933.99	49.54	19.63	-142.57	1,395.16	-732.44	2,862.60	2,810.51	52.09	54.960		
5,500.00	4,773.04	5,045.67	4,987.59	50.79	19.88	-142.82	1,403.41	-726.83	2,905.52	2,852.69	52.83	54.996		
5,600.00	4,853.34	5,094.35	5,035.59	52.03	20.10	-143.05	1,410.29	-722.60	2,949.80	2,896.28	53.51	55.122		
5,700.00	4,933.63	5,158.91	5,099.45	53.28	20.38	-143.37	1,418.37	-717.74	2,995.09	2,940.81	54.27	55.184		
5,800.00	5,013.92	5,395.07	5,332.80	54.53	21.40	-144.50	1,447.04	-695.95	3,039.54	2,983.36	56.18	54.101		
5,900.00	5,094.21	5,477.69	5,414.03	55.77	21.78	-144.85	1,458.13	-685.73	3,080.94	3,023.85	57.09	53.962		
6,000.00	5,174.51	5,533.00	5,468.45	57.02	22.03	-145.08	1,465.76	-679.43	3,123.31	3,065.49	57.82	54.019		
6,100.00	5,254.80	5,574.49	5,509.30	58.27	22.22	-145.25	1,471.67	-675.22	3,166.92	3,108.48	58.44	54.195		
6,200.00	5,335.09	5,623.00	5,557.09	59.52	22.44	-145.43	1,478.83	-671.02	3,211.89	3,152.80	59.09	54.356		
6,300.00	5,415.38	5,665.87	5,599.40	60.76	22.63	-145.60	1,484.97	-667.87	3,258.07	3,198.39	59.68	54.592		
6,400.00	5,495.68	5,712.00	5,645.05	62.01	22.83	-145.79	1,490.94	-664.98	3,305.34	3,245.07	60.27	54.839		
6,500.00	5,575.97	5,775.18	5,707.67	63.26	23.09	-146.06	1,498.63	-661.64	3,353.52	3,292.55	60.97	54.999		
6,600.00	5,656.26	5,999.07	5,928.98	64.51	24.06	-146.90	1,528.67	-646.39	3,400.68	3,337.77	62.91	54.053		
6,700.00	5,736.55	6,089.73	6,018.12	65.76	24.48	-147.19	1,542.92	-637.96	3,445.65	3,381.76	63.89	53.931		
6,800.00	5,816.85	6,144.99	6,072.35	67.01	24.74	-147.34	1,552.38	-633.14	3,491.23	3,426.63	64.60	54.044		
6,900.00	5,897.14	6,189.64	6,116.16	68.26	24.95	-147.47	1,560.23	-629.69	3,537.78	3,472.57	65.21	54.251		
7,000.00	5,977.43	6,246.00	6,171.66	69.50	25.21	-147.63	1,569.42	-626.23	3,585.57	3,519.66	65.90	54.406		
7,100.00	6,057.72	6,277.57	6,202.83	70.75	25.34	-147.73	1,574.17	-624.68	3,634.33	3,567.97	66.36	54.764		
7,200.00	6,138.02	7,200.00	6,299.00	72.00	29.21	-148.05	1,587.15	-620.41	3,683.88	3,613.12	70.76	52.064		
7,300.00	6,218.31	6,626.63	6,547.98	73.25	26.85	-148.86	1,620.26	-601.46	3,730.10	3,660.61	69.49	53.682		
7,400.00	6,298.60	6,692.00	6,612.37	74.50	27.14	-149.05	1,629.96	-595.69	3,775.84	3,705.61	70.24	53.759		
7,500.00	6,378.90	6,725.09	6,644.96	75.75	27.29	-149.13	1,634.99	-593.10	3,822.46	3,751.73	70.73	54.045		
7,600.00	6,459.19	7,089.76	7,004.76	77.00	28.64	-150.64	1,653.74	-555.67	3,868.56	3,795.57	72.99	53.002		
7,700.00	6,539.48	7,138.00	7,051.53	78.25	28.73	-151.02	1,643.40	-550.11	3,911.12	3,837.82	73.30	53.357		
7,800.00	6,619.77	7,138.00	7,051.53	79.50	28.73	-151.02	1,643.40	-550.11	3,954.40	3,880.82	73.58	53.745		
7,900.00	6,700.07	7,138.00	7,051.53	80.75	28.73	-151.02	1,643.40	-550.11	3,999.91	3,925.90	73.82	54.185		
8,000.00	6,780.36	7,138.00	7,051.53	82.00	28.73	-151.02	1,643.40	-550.11	4,046.99	3,972.97	74.02	54.675		
8,100.00	6,860.65	7,138.00	7,051.53	83.25	28.73	-151.02	1,643.40	-550.11	4,096.16	4,021.97	74.19	55.212		
8,200.00	6,940.94	7,138.00	7,051.53	84.50	28.73	-151.02	1,643.40	-550.11	4,147.16	4,072.84	74.33	55.795		
8,300.00	7,021.24	7,138.00	7,051.53	85.76	28.73	-151.02	1,643.40	-550.11	4,199.93	4,125.49	74.44	56.421		
8,400.00	7,101.53	7,182.21	7,094.04	87.01	28.77	-151.40	1,631.50	-547.79	4,252.39	4,177.83	74.56	57.032		
8,500.00	7,181.82	7,227.00	7,136.66	88.26	28.80	-151.81	1,617.84	-548.97	4,309.09	4,234.43	74.66	57.716		
8,605.60	7,266.61	7,227.00	7,136.66	89.58	28.80	-151.81	1,617.84	-548.97	4,368.53	4,293.81	74.72	58.465		
8,650.00	7,302.60	7,227.00	7,136.66	90.13	28.80	-160.75	1,617.84	-548.97	4,394.18	4,319.45	74.74	58.796		
8,700.00	7,343.78	7,227.00	7,136.66	90.72	28.80	-171.48	1,617.84	-548.97	4,423.61	4,348.86	74.74	59.184		
8,750.00	7,385.32	7,227.00	7,136.66	91.28	28.80	177.39	1,617.84	-548.97	4,453.38	4,378.64	74.74	59.587		
8,800.00	7,426.92	7,227.00	7,136.66	91.81	28.80	166.19	1,617.84	-548.97	4,483.27	4,408.56	74.72	60.004		
8,850.00	7,468.27	7,227.00	7,136.66	92.29	28.80	155.29	1,617.84	-548.97	4,513.06	4,438.37	74.68	60.430		
8,900.00	7,509.04	7,227.00	7,136.66	92.72	28.80	145.00	1,617.84	-548.97	4,542.51	4,467.87	74.64	60.861		
8,950.00	7,548.93	7,227.00	7,136.66	93.10	28.80	135.53	1,617.84	-548.97	4,571.41	4,496.83	74.58	61.293		
9,000.00	7,587.63	7,227.00	7,136.66	93.43	28.80	126.97	1,617.84	-548.97	4,599.56	4,525.03	74.52	61.720		
9,050.00	7,624.85	7,227.00	7,136.66	93.71	28.80	119.36	1,617.84	-548.97	4,626.75	4,552.29	74.46	62.137		
9,100.00	7,660.30	7,227.00	7,136.66	93.93	28.80	112.66	1,617.84	-548.97	4,652.81	4,578.41	74.40	62.538		
9,150.00	7,693.72	7,227.00	7,136.66	94.10	28.80	106.80	1,617.84	-548.97	4,677.54	4,603.19	74.35	62.917		
9,200.00	7,724.85	7,265.43	7,172.76	94.23	28.81	102.01	1,605.03	-552.15	4,699.96	4,625.62	74.35	63.215		
9,250.00	7,753.45	7,272.55	7,179.40	94.30	28.81	97.73	1,602.57	-552.87	4,721.24	4,646.92	74.33	63.519		
9,300.00	7,779.31	7,279.40	7,185.77	94.34	28.82	94.08	1,600.18	-553.62	4,740.71	4,666.38	74.33	63.783		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	7,316.00	7,219.58	94.33	28.83	91.29	1,586.95	-558.26	4,758.73	4,684.36	74.37	63.985		
9,400.00	7,822.03	7,495.00	7,374.76	94.28	28.76	90.15	1,500.14	-573.68	4,773.10	4,698.95	74.15	64.370		
9,450.00	7,838.57	7,530.09	7,402.47	94.20	28.73	88.39	1,478.71	-575.73	4,784.64	4,710.55	74.09	64.579		
9,500.00	7,851.72	7,881.83	7,593.39	94.10	28.22	88.32	1,191.28	-580.04	4,793.25	4,721.48	71.77	66.785		
9,550.00	7,861.37	7,910.62	7,601.02	93.96	28.17	87.47	1,163.54	-578.84	4,797.20	4,725.55	71.66	66.948		
9,600.00	7,867.46	7,940.00	7,608.51	93.81	28.12	87.05	1,135.16	-577.73	4,798.78	4,727.21	71.57	67.052		
9,650.00	7,869.94	7,940.00	7,608.51	93.64	28.12	86.97	1,135.16	-577.73	4,798.11	4,726.35	71.76	66.863		
9,659.14	7,870.00	7,940.00	7,608.51	93.60	28.12	86.99	1,135.16	-577.73	4,797.77	4,725.97	71.80	66.823		
9,700.00	7,870.00	7,968.78	7,615.56	93.46	28.09	87.08	1,107.27	-576.89	4,795.95	4,724.19	71.76	66.836		
9,800.00	7,870.00	7,997.90	7,622.39	93.11	28.06	87.16	1,078.97	-576.43	4,792.78	4,720.79	71.99	66.574		
9,900.00	7,870.00	8,029.00	7,629.35	92.77	28.03	87.24	1,048.66	-576.38	4,791.11	4,718.88	72.24	66.324		
10,000.00	7,870.00	8,326.20	7,665.40	92.46	28.32	87.67	754.32	-568.25	4,786.22	4,715.13	71.09	67.327		
10,100.00	7,870.00	8,416.81	7,667.20	92.16	28.65	87.69	663.82	-564.17	4,781.30	4,710.00	71.30	67.057		
10,200.00	7,870.00	8,511.34	7,668.95	91.87	29.12	87.71	569.40	-560.06	4,776.54	4,704.89	71.65	66.664		
10,300.00	7,870.00	8,594.62	7,669.84	91.60	29.62	87.71	486.20	-556.51	4,771.92	4,699.77	72.15	66.136		
10,400.00	7,870.00	8,652.00	7,670.54	91.34	30.01	87.72	428.86	-554.39	4,767.91	4,695.17	72.74	65.548		
10,500.00	7,870.00	8,721.63	7,671.59	91.11	30.53	87.73	359.27	-552.36	4,764.64	4,691.21	73.43	64.887		
10,600.00	7,870.00	8,784.13	7,672.59	90.88	31.03	87.74	296.78	-551.08	4,762.20	4,688.01	74.18	64.196		
10,700.00	7,870.00	8,851.12	7,673.51	90.67	31.60	87.75	229.81	-550.23	4,760.52	4,685.50	75.01	63.461		
10,800.00	7,870.00	8,929.88	7,673.30	90.48	32.31	87.75	151.06	-549.60	4,759.39	4,683.42	75.97	62.651		
10,900.00	7,870.00	9,020.87	7,672.16	90.31	33.18	87.74	60.07	-549.11	4,758.56	4,681.49	77.08	61.738		
11,000.00	7,870.00	9,116.70	7,670.61	90.15	34.16	87.72	-35.75	-548.81	4,757.98	4,679.64	78.33	60.740		
11,100.00	7,870.00	9,249.05	7,668.06	90.00	35.60	87.69	-168.06	-547.64	4,756.78	4,676.78	80.00	59.462		
11,200.00	7,870.00	9,386.48	7,668.60	89.88	37.18	87.69	-305.48	-545.81	4,755.11	4,673.18	81.93	58.039		
11,300.00	7,870.00	9,498.33	7,668.69	89.77	38.54	87.69	-417.31	-543.73	4,752.91	4,669.13	83.78	56.729		
11,400.00	7,870.00	9,650.06	7,668.83	89.68	40.46	87.69	-568.99	-539.97	4,750.14	4,663.90	86.24	55.082		
11,500.00	7,870.00	9,675.02	7,668.80	89.60	40.79	87.69	-593.94	-539.55	4,747.64	4,660.37	87.27	54.402		
11,600.00	7,870.00	9,721.00	7,668.62	89.55	41.39	87.69	-639.92	-539.19	4,746.44	4,657.86	88.57	53.589		
11,634.52	7,870.00	9,721.00	7,668.62	89.53	41.39	87.69	-639.92	-539.19	4,746.31	4,657.48	88.83	53.432		
11,700.00	7,870.00	9,755.53	7,668.48	89.52	41.85	87.69	-674.46	-539.35	4,746.46	4,656.71	89.75	52.885		
11,800.00	7,870.00	9,810.00	7,668.45	89.50	42.56	87.69	-728.91	-540.32	4,747.76	4,656.56	91.21	52.055		
11,900.00	7,870.00	9,852.43	7,668.09	89.51	43.13	87.68	-771.33	-541.52	4,750.11	4,657.58	92.52	51.339		
12,000.00	7,870.00	9,930.51	7,665.29	89.54	44.19	87.65	-849.31	-544.20	4,753.31	4,658.96	94.35	50.380		
12,100.00	7,870.00	10,212.34	7,650.47	89.59	48.16	87.47	-1,130.69	-547.85	4,754.14	4,654.80	99.35	47.854		
12,200.00	7,870.00	10,380.52	7,642.97	89.66	50.62	87.38	-1,298.69	-545.94	4,752.85	4,649.96	102.89	46.194		
12,300.00	7,870.00	10,505.49	7,636.75	89.77	52.50	87.31	-1,423.48	-543.33	4,750.66	4,644.84	105.82	44.894		
12,400.00	7,870.00	10,565.20	7,633.65	89.89	53.40	87.27	-1,483.09	-542.05	4,748.50	4,640.85	107.65	44.111		
12,500.00	7,870.00	10,612.00	7,631.39	90.05	54.11	87.24	-1,529.84	-541.58	4,747.41	4,638.15	109.26	43.452		
12,573.81	7,870.00	10,661.42	7,629.07	90.19	54.86	87.21	-1,579.20	-541.48	4,747.20	4,636.47	110.73	42.873		
12,600.00	7,870.00	10,678.08	7,628.28	90.24	55.11	87.20	-1,595.84	-541.52	4,747.22	4,635.99	111.23	42.679		
12,700.00	7,870.00	10,748.91	7,624.83	90.46	56.20	87.16	-1,666.59	-541.98	4,747.76	4,634.45	113.31	41.900		
12,800.00	7,870.00	10,834.96	7,620.72	90.71	57.52	87.11	-1,752.54	-542.96	4,748.79	4,633.08	115.71	41.042		
12,900.00	7,870.00	10,951.21	7,617.89	90.99	59.31	87.08	-1,868.74	-544.38	4,749.81	4,631.06	118.75	40.000		
13,000.00	7,870.00	11,041.55	7,615.27	91.32	60.72	87.05	-1,959.04	-545.28	4,750.62	4,629.32	121.31	39.161		
13,100.00	7,870.00	11,180.64	7,609.78	91.68	62.91	86.98	-2,098.02	-546.30	4,751.24	4,626.34	124.91	38.038		
13,200.00	7,870.00	11,290.87	7,604.01	92.08	64.66	86.91	-2,208.09	-546.35	4,751.22	4,623.27	127.95	37.133		
13,300.00	7,870.00	11,454.33	7,596.62	92.52	67.28	86.82	-2,371.37	-545.46	4,750.64	4,618.46	132.19	35.939		
13,400.00	7,870.00	11,599.90	7,591.59	93.00	69.64	86.76	-2,516.84	-542.94	4,748.77	4,612.65	136.11	34.888		
13,500.00	7,870.00	11,721.54	7,585.93	93.53	71.63	86.69	-2,638.30	-539.79	4,746.09	4,606.54	139.56	34.008		
13,600.00	7,870.00	11,803.07	7,583.25	94.10	72.96	86.65	-2,719.75	-537.70	4,743.40	4,601.25	142.15	33.370		
13,700.00	7,870.00	11,880.38	7,582.83	94.72	74.23	86.65	-2,797.05	-536.37	4,741.35	4,596.68	144.67	32.774		
13,800.00	7,870.00	12,016.07	7,582.64	95.38	76.47	86.64	-2,932.71	-533.54	4,738.90	4,590.35	148.55	31.901		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,900.00	7,870.00	12,107.68	7,582.20	96.09	77.99	86.64	-3,024.30	-531.39	4,736.26	4,584.82	151.44	31.275		
14,000.00	7,870.00	12,157.31	7,583.03	96.84	78.81	86.65	-3,073.90	-530.54	4,734.19	4,580.83	153.36	30.870		
14,100.00	7,870.00	12,216.00	7,584.83	97.64	79.78	86.67	-3,132.57	-530.56	4,733.49	4,578.00	155.49	30.442		
14,127.13	7,870.00	12,216.00	7,584.83	97.87	79.78	86.67	-3,132.57	-530.56	4,733.42	4,577.73	155.69	30.403		
14,200.00	7,870.00	12,265.56	7,586.72	98.48	80.60	86.69	-3,182.09	-531.08	4,733.72	4,576.32	157.40	30.074		
14,300.00	7,870.00	12,393.57	7,591.35	99.37	82.72	86.75	-3,310.01	-532.15	4,734.03	4,572.80	161.24	29.361		
14,393.73	7,870.00	12,485.48	7,594.02	100.24	84.25	86.78	-3,401.88	-532.54	4,733.96	4,569.81	164.16	28.838		
14,400.00	7,870.00	12,483.00	7,593.96	100.30	84.21	86.78	-3,399.40	-532.53	4,733.97	4,569.83	164.14	28.841		
14,500.00	7,870.00	12,554.43	7,595.48	101.26	85.40	86.80	-3,470.81	-533.10	4,734.33	4,567.73	166.60	28.418		
14,600.00	7,870.00	12,677.18	7,596.91	102.27	87.44	86.81	-3,593.55	-534.36	4,734.98	4,564.64	170.34	27.798		
14,700.00	7,870.00	12,760.82	7,597.13	103.31	88.84	86.82	-3,677.18	-535.07	4,735.47	4,562.36	173.11	27.355		
14,800.00	7,870.00	12,845.19	7,596.64	104.38	90.25	86.81	-3,761.55	-535.97	4,736.23	4,560.33	175.90	26.925		
14,900.00	7,870.00	12,929.45	7,595.52	105.49	91.66	86.80	-3,845.79	-537.11	4,737.32	4,558.63	178.69	26.511		
15,000.00	7,870.00	13,031.78	7,593.61	106.63	93.37	86.78	-3,948.09	-538.65	4,738.59	4,556.64	181.95	26.043		
15,100.00	7,870.00	13,143.33	7,591.30	107.80	95.25	86.75	-4,059.61	-539.99	4,739.56	4,554.10	185.46	25.556		
15,200.00	7,870.00	13,275.09	7,589.06	109.00	97.47	86.72	-4,191.33	-541.45	4,740.50	4,551.00	189.50	25.016		
15,300.00	7,870.00	13,396.41	7,590.14	110.22	99.52	86.74	-4,312.65	-541.78	4,740.34	4,547.03	193.31	24.522		
15,319.58	7,870.00	13,408.75	7,590.24	110.46	99.73	86.74	-4,324.99	-541.82	4,740.33	4,546.56	193.77	24.464		
15,400.00	7,870.00	13,464.00	7,590.58	111.47	100.67	86.74	-4,380.24	-542.21	4,740.58	4,544.85	195.74	24.219		
15,500.00	7,870.00	13,499.02	7,590.71	112.74	101.26	86.74	-4,415.25	-542.79	4,741.83	4,544.54	197.29	24.035		
15,600.00	7,870.00	13,553.00	7,590.69	114.03	102.17	86.74	-4,469.20	-544.51	4,744.46	4,545.13	199.32	23.803		
15,700.00	7,870.00	13,618.44	7,590.30	115.34	103.27	86.74	-4,534.59	-547.12	4,747.99	4,546.34	201.65	23.546		
15,800.00	7,870.00	13,848.01	7,589.35	116.68	107.15	86.73	-4,764.08	-552.70	4,749.95	4,541.54	208.40	22.792		
15,900.00	7,870.00	14,038.59	7,590.53	118.02	110.40	86.75	-4,954.64	-553.00	4,749.61	4,535.50	214.11	22.183		
16,000.00	7,870.00	14,087.00	7,591.32	119.39	111.23	86.76	-5,003.05	-552.81	4,748.96	4,532.89	216.07	21.979		
16,032.02	7,870.00	14,111.39	7,591.74	119.83	111.65	86.76	-5,027.44	-552.86	4,748.92	4,531.99	216.93	21.892		
16,100.00	7,870.00	14,137.52	7,592.28	120.77	112.09	86.77	-5,053.56	-553.15	4,749.36	4,531.29	218.06	21.780		
16,200.00	7,870.00	14,176.00	7,593.23	122.17	112.75	86.78	-5,092.01	-554.01	4,751.10	4,531.39	219.71	21.624		
16,300.00	7,870.00	14,251.13	7,595.26	123.58	114.02	86.81	-5,167.08	-556.37	4,753.75	4,531.40	222.35	21.380		
16,400.00	7,870.00	14,354.71	7,598.14	125.00	115.79	86.84	-5,270.56	-559.91	4,756.67	4,530.89	225.79	21.067		
16,500.00	7,870.00	14,593.41	7,603.22	126.43	119.86	86.91	-5,509.12	-565.16	4,758.93	4,525.98	232.94	20.430		
16,547.69	7,870.00	14,637.31	7,603.69	127.12	120.62	86.91	-5,553.02	-565.26	4,758.86	4,524.41	234.44	20.299		
16,600.00	7,870.00	14,665.95	7,603.96	127.88	121.11	86.92	-5,581.66	-565.45	4,758.99	4,523.43	235.55	20.204		
16,700.00	7,870.00	14,857.52	7,605.89	129.34	124.40	86.94	-5,773.21	-566.21	4,759.43	4,518.04	241.39	19.717		
16,800.00	7,870.00	14,991.68	7,606.93	130.81	126.72	86.95	-5,907.35	-564.19	4,757.51	4,511.85	245.67	19.366		
16,900.00	7,870.00	15,129.29	7,607.35	132.28	129.10	86.95	-6,044.93	-561.22	4,755.01	4,504.97	250.04	19.017		
17,000.00	7,870.00	15,190.28	7,607.43	133.77	130.16	86.95	-6,105.90	-559.71	4,752.32	4,499.92	252.40	18.829		
17,100.00	7,870.00	15,246.00	7,607.91	135.27	131.13	86.96	-6,161.62	-559.22	4,750.88	4,496.28	254.60	18.660		
17,200.00	7,870.00	15,298.03	7,608.59	136.77	132.02	86.97	-6,213.64	-559.27	4,750.39	4,493.71	256.68	18.507		
17,300.00	7,870.00	15,406.94	7,610.17	138.28	133.91	86.99	-6,322.54	-559.56	4,750.26	4,489.94	260.31	18.248		
17,400.00	7,870.00	15,545.68	7,611.85	139.80	136.31	87.00	-6,461.27	-558.94	4,749.37	4,484.60	264.77	17.938		
17,500.00	7,870.00	15,641.20	7,612.42	141.33	137.96	87.01	-6,556.78	-558.19	4,748.22	4,480.17	268.05	17.714		
17,600.00	7,870.00	15,750.37	7,612.50	142.86	139.86	87.01	-6,665.95	-557.37	4,747.15	4,475.45	271.70	17.472		
17,700.00	7,870.00	15,887.15	7,611.96	144.40	142.23	87.00	-6,802.72	-555.59	4,745.54	4,469.45	276.10	17.188		
17,800.00	7,870.00	16,050.75	7,610.50	145.95	145.08	86.98	-6,966.25	-551.48	4,742.70	4,461.50	281.20	16.866		
17,900.00	7,870.00	16,089.18	7,610.08	147.50	145.75	86.98	-7,004.67	-550.56	4,739.98	4,457.01	282.97	16.751		
18,000.00	7,870.00	16,137.00	7,609.72	149.06	146.58	86.97	-7,052.49	-550.04	4,738.52	4,453.56	284.96	16.629		
18,100.00	7,870.00	16,203.73	7,609.29	150.63	147.74	86.97	-7,119.21	-549.93	4,737.99	4,450.55	287.44	16.483		
18,200.00	7,870.00	16,296.83	7,608.44	152.20	149.36	86.96	-7,212.31	-550.03	4,737.81	4,447.15	290.66	16.300		
18,241.61	7,870.00	16,331.54	7,608.04	152.85	149.96	86.95	-7,247.02	-550.09	4,737.77	4,445.89	291.88	16.232		
18,300.00	7,870.00	16,373.29	7,608.06	153.77	150.68	86.95	-7,288.77	-550.31	4,737.87	4,444.47	293.41	16.148		
18,400.00	7,870.00	16,451.27	7,609.56	155.35	152.04	86.97	-7,366.72	-551.14	4,738.48	4,442.28	296.20	15.997		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,500.00	7,870.00	16,539.21	7,612.28	156.93	153.56	87.00	-7,454.62	-552.43	4,739.46	4,440.16	299.29	15.836	
18,600.00	7,870.00	16,641.38	7,615.92	158.52	155.33	87.05	-7,556.71	-554.08	4,740.55	4,437.75	302.80	15.656	
18,700.00	7,870.00	16,739.00	7,619.72	160.11	157.02	87.10	-7,654.24	-555.60	4,741.57	4,435.39	306.17	15.487	
18,800.00	7,870.00	16,838.16	7,624.00	161.71	158.74	87.15	-7,753.29	-557.24	4,742.67	4,433.07	309.60	15.319	
18,900.00	7,870.00	16,949.81	7,627.89	163.31	160.68	87.20	-7,864.87	-558.84	4,743.59	4,430.20	313.39	15.137	
19,000.00	7,870.00	17,015.50	7,629.11	164.91	161.82	87.21	-7,930.54	-559.92	4,744.80	4,428.98	315.82	15.024	
19,100.00	7,870.00	17,093.20	7,630.11	166.52	163.17	87.22	-8,008.20	-561.67	4,746.64	4,428.04	318.60	14.898	
19,200.00	7,870.00	17,176.69	7,631.08	168.13	164.61	87.24	-8,091.67	-563.86	4,748.87	4,427.32	321.54	14.769	
19,300.00	7,870.00	17,254.90	7,631.67	169.75	165.96	87.24	-8,169.83	-566.18	4,751.47	4,427.15	324.32	14.651	
19,383.51	7,870.00	17,324.48	7,631.93	171.10	167.17	87.25	-8,239.37	-568.56	4,754.01	4,427.25	326.76	14.549 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	-53.69	786.89	-1,070.70	1,328.79					
100.00	100.00	89.49	89.49	0.13	0.14	-53.69	786.88	-1,070.72	1,328.77	1,328.49	0.28	4,766.953	CC	
200.00	200.00	188.93	188.93	0.49	0.30	-53.69	786.85	-1,070.81	1,328.83	1,328.03	0.80	1,666.102		
300.00	300.00	285.50	285.49	0.85	0.57	-53.69	786.88	-1,070.99	1,328.99	1,327.57	1.42	935.102		
400.00	400.00	380.12	380.12	1.21	0.91	-53.69	787.22	-1,071.38	1,329.54	1,327.42	2.12	628.418	ES	
500.00	500.00	474.74	474.73	1.57	1.24	-53.68	787.91	-1,071.98	1,330.48	1,327.67	2.81	473.471		
600.00	600.00	569.34	569.33	1.93	1.58	-53.67	788.95	-1,072.80	1,331.83	1,328.33	3.50	380.060		
700.00	699.98	670.13	670.10	2.28	1.94	-117.50	790.16	-1,073.83	1,334.17	1,329.95	4.22	316.430		
800.00	799.84	766.43	766.38	2.64	2.28	-117.60	791.42	-1,074.85	1,338.22	1,333.31	4.91	272.425		
900.00	899.45	880.35	880.23	3.00	2.68	-117.73	795.20	-1,074.00	1,343.65	1,337.98	5.67	236.987		
1,000.00	998.70	988.58	988.10	3.37	3.06	-117.75	802.31	-1,069.08	1,349.51	1,343.09	6.42	210.241		
1,100.00	1,097.47	1,084.30	1,083.41	3.76	3.40	-117.81	809.63	-1,064.01	1,357.04	1,349.89	7.15	189.891		
1,200.00	1,195.62	1,205.16	1,203.66	4.18	3.84	-118.01	819.24	-1,056.61	1,365.76	1,357.77	7.99	170.939		
1,300.00	1,293.06	1,302.33	1,300.36	4.63	4.21	-118.26	826.31	-1,050.28	1,375.42	1,366.65	8.78	156.737		
1,400.00	1,389.64	1,405.54	1,402.76	5.11	4.60	-118.51	835.79	-1,041.52	1,386.28	1,376.66	9.62	144.100		
1,500.00	1,485.27	1,505.82	1,502.07	5.63	4.99	-118.79	846.36	-1,032.56	1,399.30	1,388.80	10.50	133.299		
1,600.00	1,579.82	1,600.36	1,595.20	6.20	5.38	-118.99	858.59	-1,021.86	1,413.45	1,402.05	11.40	123.977		
1,700.00	1,673.17	1,674.08	1,667.75	6.83	5.69	-119.11	869.03	-1,014.00	1,430.60	1,418.34	12.26	116.690		
1,800.00	1,765.21	1,752.29	1,744.75	7.51	6.02	-119.29	880.84	-1,006.94	1,451.33	1,438.16	13.18	110.145		
1,900.00	1,855.84	1,856.97	1,847.59	8.24	6.47	-119.67	897.63	-996.91	1,474.03	1,459.77	14.26	103.354		
2,000.00	1,944.94	1,938.53	1,927.69	9.05	6.83	-119.92	910.69	-988.86	1,498.46	1,483.18	15.28	98.061		
2,100.00	2,032.39	2,010.31	1,998.27	9.91	7.14	-120.12	922.41	-983.18	1,526.52	1,510.24	16.29	93.735		
2,200.00	2,118.11	2,160.39	2,145.60	10.85	7.81	-121.15	947.31	-969.12	1,555.90	1,538.16	17.73	87.739		
2,300.00	2,201.97	2,238.44	2,222.13	11.85	8.17	-121.46	959.81	-960.28	1,585.41	1,566.55	18.86	84.067		
2,400.00	2,283.88	2,308.32	2,290.66	12.93	8.49	-121.69	971.45	-953.11	1,618.24	1,598.27	19.97	81.034		
2,429.47	2,307.63	2,328.43	2,310.38	13.26	8.58	-121.75	974.84	-951.20	1,628.57	1,608.27	20.30	80.227		
2,500.00	2,364.26	2,375.01	2,356.09	14.06	8.79	-122.32	982.81	-947.07	1,654.06	1,632.98	21.08	78.479		
2,600.00	2,444.56	2,439.56	2,419.44	15.22	9.08	-123.10	994.13	-942.07	1,691.72	1,669.56	22.16	76.343		
2,700.00	2,524.85	2,509.58	2,488.20	16.39	9.40	-123.93	1,006.55	-937.45	1,730.92	1,707.66	23.26	74.418		
2,800.00	2,605.14	2,576.29	2,553.77	17.57	9.70	-124.70	1,018.30	-933.88	1,771.57	1,747.25	24.32	72.839		
2,900.00	2,685.43	2,682.86	2,658.49	18.76	10.18	-125.89	1,037.28	-928.41	1,813.00	1,787.37	25.63	70.745		
3,000.00	2,765.73	2,810.52	2,783.56	19.96	10.77	-127.17	1,060.94	-918.65	1,852.94	1,825.86	27.08	68.423		
3,100.00	2,846.02	2,967.00	2,937.20	21.16	11.49	-128.71	1,086.40	-903.69	1,891.19	1,862.51	28.67	65.960		
3,200.00	2,926.31	3,035.38	3,004.50	22.37	11.80	-129.39	1,096.19	-896.56	1,928.41	1,898.69	29.72	64.895		
3,300.00	3,006.60	3,181.30	3,148.06	23.59	12.45	-130.79	1,115.47	-879.04	1,963.88	1,932.71	31.17	62.996		
3,400.00	3,086.90	3,261.97	3,227.60	24.81	12.81	-131.57	1,125.15	-869.64	2,000.23	1,967.98	32.25	62.024		
3,500.00	3,167.19	3,369.17	3,333.19	26.03	13.29	-132.55	1,138.12	-856.45	2,036.47	2,003.01	33.46	60.870		
3,600.00	3,247.48	3,442.53	3,405.26	27.25	13.62	-133.18	1,147.91	-846.92	2,072.85	2,038.38	34.48	60.121		
3,700.00	3,327.77	3,511.47	3,473.20	28.48	13.93	-133.77	1,156.59	-839.05	2,110.67	2,075.22	35.45	59.533		
3,800.00	3,408.07	3,595.69	3,556.00	29.71	14.32	-134.44	1,168.44	-829.29	2,149.06	2,112.54	36.51	58.857		
3,900.00	3,488.36	3,657.64	3,617.06	30.94	14.59	-134.94	1,176.69	-822.79	2,188.50	2,151.09	37.42	58.487		
4,000.00	3,568.65	3,767.74	3,725.59	32.17	15.09	-135.79	1,191.34	-811.53	2,228.50	2,189.90	38.60	57.727		
4,100.00	3,648.95	3,866.49	3,822.49	33.41	15.55	-136.47	1,206.26	-799.72	2,267.56	2,227.82	39.74	57.058		
4,200.00	3,729.24	3,917.47	3,872.64	34.64	15.78	-136.83	1,213.62	-794.24	2,307.80	2,267.25	40.55	56.909		
4,300.00	3,809.53	3,974.69	3,929.13	35.88	16.04	-137.24	1,221.19	-789.21	2,349.71	2,308.33	41.37	56.791		
4,400.00	3,889.82	4,087.75	4,040.61	37.12	16.54	-138.02	1,236.87	-778.77	2,391.58	2,349.03	42.56	56.197		
4,500.00	3,970.12	4,173.30	4,124.78	38.36	16.93	-138.55	1,249.71	-770.49	2,433.54	2,389.97	43.57	55.857		
4,600.00	4,050.41	4,264.94	4,214.92	39.60	17.36	-139.10	1,263.62	-761.55	2,475.63	2,431.01	44.62	55.485		
4,700.00	4,130.70	4,341.97	4,290.57	40.84	17.71	-139.54	1,275.94	-753.88	2,517.87	2,472.30	45.57	55.257		
4,800.00	4,210.99	4,396.35	4,344.16	42.08	17.96	-139.86	1,283.92	-749.17	2,561.21	2,514.88	46.33	55.280		
4,900.00	4,291.29	4,522.96	4,468.90	43.32	18.53	-140.58	1,302.25	-737.82	2,604.32	2,556.72	47.59	54.720		
5,000.00	4,371.58	4,587.00	4,532.01	44.57	18.82	-140.93	1,311.61	-732.23	2,647.85	2,599.43	48.41	54.691		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,716.09	4,659.38	45.81	19.39	-141.65	1,329.08	-720.67	2,691.39	2,641.73	49.66	54.192		
5,200.00	4,532.16	4,798.24	4,740.16	47.05	19.77	-142.06	1,341.29	-712.07	2,733.83	2,683.23	50.61	54.022		
5,300.00	4,612.46	5,300.00	4,834.37	48.30	22.07	-142.54	1,354.92	-702.96	2,777.18	2,723.76	53.43	51.983		
5,400.00	4,692.75	5,015.58	4,953.83	49.54	20.77	-143.10	1,373.76	-689.36	2,819.20	2,766.34	52.86	53.331		
5,500.00	4,773.04	5,072.52	5,009.73	50.79	21.04	-143.35	1,382.60	-683.10	2,861.62	2,808.00	53.62	53.364		
5,600.00	4,853.34	5,136.81	5,073.06	52.03	21.34	-143.64	1,391.74	-676.98	2,905.25	2,850.83	54.42	53.389		
5,700.00	4,933.63	5,248.54	5,182.93	53.28	21.85	-144.13	1,408.47	-665.36	2,948.22	2,892.67	55.55	53.070		
5,800.00	5,013.92	5,422.01	5,353.50	54.53	22.65	-144.87	1,433.15	-645.87	2,990.97	2,933.87	57.10	52.381		
5,900.00	5,094.21	5,477.00	5,407.46	55.77	22.91	-145.09	1,441.12	-638.91	3,032.29	2,974.46	57.83	52.431		
6,000.00	5,174.51	5,527.03	5,456.67	57.02	23.14	-145.29	1,448.08	-633.20	3,074.80	3,016.29	58.51	52.552		
6,100.00	5,254.80	5,583.33	5,512.23	58.27	23.39	-145.53	1,455.37	-627.70	3,118.67	3,059.46	59.21	52.672		
6,200.00	5,335.09	5,679.94	5,607.39	59.52	23.83	-145.92	1,468.84	-617.92	3,162.44	3,102.24	60.20	52.532		
6,300.00	5,415.38	5,725.83	5,652.68	60.76	24.03	-146.10	1,474.88	-613.72	3,207.14	3,146.33	60.81	52.741		
6,400.00	5,495.68	5,818.30	5,744.16	62.01	24.43	-146.49	1,486.07	-606.08	3,252.70	3,190.97	61.73	52.690		
6,500.00	5,575.97	6,500.00	5,848.91	63.26	27.56	-146.87	1,501.84	-596.24	3,297.56	3,232.21	65.35	50.464		
6,600.00	5,656.26	5,973.51	5,896.76	64.51	25.14	-147.01	1,510.36	-591.83	3,342.88	3,279.42	63.46	52.674		
6,700.00	5,736.55	6,700.00	5,992.05	65.76	28.49	-147.32	1,525.86	-583.96	3,388.95	3,321.66	67.29	50.363		
6,800.00	5,816.85	6,148.02	6,068.40	67.01	25.94	-147.56	1,538.18	-577.11	3,434.51	3,369.16	65.35	52.557		
6,900.00	5,897.14	6,190.00	6,109.82	68.26	26.14	-147.69	1,544.24	-574.02	3,481.27	3,415.36	65.91	52.822		
7,000.00	5,977.43	6,321.66	6,239.71	69.50	26.72	-148.12	1,563.15	-563.87	3,527.74	3,460.57	67.16	52.523		
7,100.00	6,057.72	6,427.28	6,344.09	70.75	27.18	-148.48	1,576.87	-555.33	3,574.08	3,505.89	68.19	52.413		
7,200.00	6,138.02	6,653.01	6,566.32	72.00	28.21	-149.16	1,609.01	-532.30	3,619.03	3,548.89	70.14	51.600		
7,300.00	6,218.31	6,674.07	6,587.01	73.25	28.31	-149.21	1,612.25	-530.09	3,662.68	3,592.12	70.57	51.903		
7,400.00	6,298.60	6,724.00	6,636.04	74.50	28.54	-149.34	1,620.30	-525.27	3,707.67	3,636.47	71.21	52.069		
7,500.00	6,378.90	6,749.43	6,661.03	75.75	28.66	-149.40	1,624.51	-523.16	3,753.81	3,682.17	71.63	52.402		
7,600.00	6,459.19	6,787.35	6,698.40	77.00	28.83	-149.50	1,630.39	-520.43	3,801.18	3,729.04	72.14	52.689		
7,700.00	6,539.48	7,438.00	7,334.75	78.25	31.49	-151.92	1,674.58	-432.24	3,843.75	3,767.72	76.03	50.556		
7,800.00	6,619.77	7,438.00	7,334.75	79.50	31.49	-151.92	1,674.58	-432.24	3,880.09	3,803.68	76.42	50.775		
7,900.00	6,700.07	7,481.29	7,375.46	80.75	31.54	-152.29	1,662.42	-424.02	3,917.52	3,840.84	76.68	51.089		
8,000.00	6,780.36	7,527.00	7,417.87	82.00	31.60	-152.72	1,646.74	-417.39	3,957.79	3,880.90	76.89	51.475		
8,100.00	6,860.65	7,527.00	7,417.87	83.25	31.60	-152.72	1,646.74	-417.39	3,998.91	3,921.73	77.18	51.815		
8,200.00	6,940.94	7,527.00	7,417.87	84.50	31.60	-152.72	1,646.74	-417.39	4,042.09	3,964.66	77.43	52.205		
8,300.00	7,021.24	7,527.00	7,417.87	85.76	31.60	-152.72	1,646.74	-417.39	4,087.26	4,009.62	77.64	52.644		
8,400.00	7,101.53	7,527.00	7,417.87	87.01	31.60	-152.72	1,646.74	-417.39	4,134.36	4,056.54	77.82	53.128		
8,500.00	7,181.82	7,527.00	7,417.87	88.26	31.60	-152.72	1,646.74	-417.39	4,183.32	4,105.35	77.97	53.656		
8,605.60	7,266.61	7,568.99	7,456.05	89.58	31.60	-153.14	1,629.77	-413.42	4,235.57	4,157.57	78.00	54.306		
8,650.00	7,302.60	7,573.35	7,459.97	90.13	31.60	-161.68	1,627.86	-413.14	4,258.51	4,180.48	78.03	54.576		
8,700.00	7,343.78	7,578.52	7,464.59	90.72	31.60	-171.91	1,625.56	-412.83	4,284.86	4,206.80	78.06	54.894		
8,750.00	7,385.32	7,616.00	7,497.58	91.28	31.61	177.24	1,607.83	-411.69	4,312.35	4,234.37	77.98	55.300		
8,800.00	7,426.92	7,616.00	7,497.58	91.81	31.61	166.64	1,607.83	-411.69	4,338.88	4,260.88	78.00	55.626		
8,850.00	7,468.27	7,616.00	7,497.58	92.29	31.61	156.31	1,607.83	-411.69	4,365.35	4,287.34	78.01	55.962		
8,900.00	7,509.04	7,616.00	7,497.58	92.72	31.61	146.56	1,607.83	-411.69	4,391.57	4,313.57	78.00	56.302		
8,950.00	7,548.93	7,616.00	7,497.58	93.10	31.61	137.57	1,607.83	-411.69	4,417.35	4,339.36	77.99	56.643		
9,000.00	7,587.63	7,616.00	7,497.58	93.43	31.61	129.44	1,607.83	-411.69	4,442.50	4,364.53	77.97	56.980		
9,050.00	7,624.85	7,616.00	7,497.58	93.71	31.61	122.20	1,607.83	-411.69	4,466.83	4,388.89	77.94	57.310		
9,100.00	7,660.30	7,616.00	7,497.58	93.93	31.61	115.81	1,607.83	-411.69	4,490.19	4,412.27	77.92	57.625		
9,150.00	7,693.72	7,655.25	7,531.22	94.10	31.58	110.36	1,587.62	-411.72	4,511.92	4,434.13	77.79	58.004		
9,200.00	7,724.85	7,670.78	7,544.31	94.23	31.57	105.60	1,579.26	-411.88	4,532.39	4,454.65	77.73	58.308		
9,250.00	7,753.45	7,705.00	7,572.68	94.30	31.55	101.61	1,560.14	-412.54	4,551.39	4,473.77	77.62	58.635		
9,300.00	7,779.31	7,705.00	7,572.68	94.34	31.55	98.09	1,560.14	-412.54	4,568.49	4,490.84	77.65	58.833		
9,350.00	7,802.23	7,894.31	7,716.71	94.33	31.35	96.09	1,437.78	-413.22	4,583.04	4,506.25	76.79	59.681		
9,400.00	7,822.03	7,929.55	7,740.45	94.28	31.29	93.91	1,411.74	-412.69	4,594.81	4,518.15	76.66	59.938		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,973.45	7,768.33	94.20	31.23	92.26	1,377.86	-411.97	4,604.37	4,527.88	76.48	60.201		
9,500.00	7,851.72	7,973.00	7,768.05	94.10	31.23	90.84	1,378.21	-411.98	4,611.88	4,535.26	76.62	60.192		
9,550.00	7,861.37	7,973.00	7,768.05	93.96	31.23	89.81	1,378.21	-411.98	4,617.52	4,540.74	76.78	60.136		
9,600.00	7,867.46	8,013.82	7,792.22	93.81	31.16	89.42	1,345.32	-411.67	4,620.66	4,543.96	76.70	60.240		
9,650.00	7,869.94	8,026.92	7,799.60	93.64	31.14	89.26	1,334.50	-411.74	4,622.03	4,545.19	76.84	60.151		
9,659.14	7,870.00	8,029.28	7,800.91	93.60	31.13	89.27	1,332.54	-411.76	4,622.06	4,545.19	76.87	60.130		
9,662.32	7,870.00	8,030.10	7,801.37	93.59	31.13	89.27	1,331.86	-411.77	4,622.05	4,545.18	76.88	60.122		
9,700.00	7,870.00	8,062.00	7,818.44	93.46	31.08	89.48	1,304.92	-412.32	4,622.34	4,545.51	76.83	60.160		
9,800.00	7,870.00	8,190.28	7,876.02	93.11	30.84	90.20	1,190.44	-412.81	4,622.28	4,545.88	76.39	60.508		
9,806.10	7,870.00	8,192.83	7,876.98	93.09	30.84	90.21	1,188.08	-412.82	4,622.27	4,545.87	76.41	60.496		
9,900.00	7,870.00	9,900.00	7,906.84	92.77	30.93	90.58	1,098.38	-413.26	4,622.62	4,545.34	77.27	59.820		
10,000.00	7,870.00	8,448.08	7,936.21	92.46	30.45	90.94	940.97	-411.62	4,621.15	4,545.54	75.61	61.117		
10,100.00	7,870.00	8,507.00	7,938.63	92.16	30.40	90.98	882.10	-411.53	4,620.61	4,544.83	75.78	60.976		
10,112.08	7,870.00	8,507.00	7,938.63	92.12	30.40	90.98	882.10	-411.53	4,620.59	4,544.74	75.85	60.917		
10,200.00	7,870.00	8,604.46	7,940.70	91.87	30.43	91.00	784.66	-411.87	4,620.65	4,544.83	75.82	60.943		
10,300.00	7,870.00	8,705.48	7,943.32	91.60	30.69	91.03	683.67	-411.67	4,620.16	4,544.15	76.01	60.780		
10,319.28	7,870.00	8,714.27	7,943.55	91.55	30.73	91.04	674.89	-411.69	4,620.14	4,544.03	76.11	60.705		
10,400.00	7,870.00	8,751.03	7,944.49	91.34	30.88	91.05	638.14	-411.97	4,620.52	4,544.03	76.49	60.409		
10,500.00	7,870.00	8,975.58	7,951.48	91.11	32.23	91.13	413.72	-412.27	4,620.70	4,543.76	76.94	60.058		
10,600.00	7,870.00	9,049.20	7,952.19	90.88	32.77	91.14	340.11	-411.48	4,619.28	4,541.63	77.65	59.490		
10,700.00	7,870.00	9,152.92	7,951.85	90.67	33.61	91.14	236.40	-410.40	4,617.89	4,539.35	78.53	58.801		
10,800.00	7,870.00	9,219.00	7,952.67	90.48	34.18	91.15	170.33	-410.09	4,617.07	4,537.66	79.41	58.142		
10,900.00	7,870.00	9,336.73	7,955.28	90.31	35.28	91.18	52.63	-408.91	4,615.68	4,535.03	80.65	57.233		
10,961.73	7,870.00	9,356.93	7,955.68	90.20	35.47	91.19	32.44	-408.88	4,615.40	4,534.23	81.18	56.856		
11,000.00	7,870.00	9,369.45	7,955.92	90.15	35.59	91.19	19.92	-408.95	4,615.51	4,534.01	81.50	56.635		
11,100.00	7,870.00	9,442.60	7,957.14	90.00	36.32	91.21	-53.21	-410.18	4,616.74	4,534.11	82.63	55.870		
11,200.00	7,870.00	9,748.28	7,964.34	89.88	39.68	91.30	-358.76	-407.19	4,615.11	4,529.15	85.96	53.686		
11,300.00	7,870.00	9,787.11	7,965.27	89.77	40.14	91.31	-397.57	-406.22	4,612.41	4,525.36	87.05	52.986		
11,400.00	7,870.00	9,843.00	7,967.16	89.68	40.80	91.33	-453.42	-405.91	4,611.29	4,522.94	88.34	52.197		
11,447.57	7,870.00	9,843.00	7,967.16	89.64	40.80	91.33	-453.42	-405.91	4,611.04	4,522.37	88.68	51.999		
11,500.00	7,870.00	9,882.28	7,968.73	89.60	41.28	91.35	-492.67	-406.13	4,611.19	4,521.70	89.49	51.529		
11,600.00	7,870.00	9,984.12	7,972.35	89.55	42.54	91.40	-594.44	-406.62	4,611.42	4,520.01	91.41	50.446		
11,700.00	7,870.00	10,148.30	7,973.80	89.52	44.65	91.41	-758.61	-406.06	4,610.62	4,516.36	94.26	48.914		
11,800.00	7,870.00	10,233.06	7,972.40	89.50	45.77	91.40	-843.36	-405.78	4,609.88	4,513.73	96.14	47.949		
11,900.00	7,870.00	10,406.91	7,967.52	89.51	48.14	91.34	-1,017.11	-403.03	4,607.62	4,508.18	99.44	46.337		
12,000.00	7,870.00	10,467.00	7,965.72	89.54	48.98	91.32	-1,077.17	-402.20	4,605.75	4,504.67	101.08	45.565		
12,100.00	7,870.00	10,514.79	7,964.66	89.59	49.65	91.30	-1,124.95	-402.00	4,604.85	4,502.30	102.55	44.903		
12,144.85	7,870.00	10,540.56	7,964.33	89.62	50.01	91.30	-1,150.72	-402.04	4,604.76	4,501.47	103.29	44.580		
12,200.00	7,870.00	10,573.80	7,964.16	89.66	50.48	91.30	-1,183.95	-402.24	4,604.90	4,500.67	104.22	44.183		
12,300.00	7,870.00	10,645.00	7,964.86	89.77	51.49	91.30	-1,255.14	-403.13	4,605.79	4,499.66	106.13	43.397		
12,400.00	7,870.00	10,871.14	7,972.44	89.89	54.78	91.40	-1,481.14	-402.61	4,605.02	4,494.08	110.93	41.511		
12,500.00	7,870.00	10,993.90	7,975.04	90.05	56.62	91.43	-1,603.85	-400.59	4,603.08	4,489.11	113.97	40.390		
12,600.00	7,870.00	11,071.98	7,974.25	90.24	57.79	91.42	-1,681.92	-399.30	4,601.09	4,484.92	116.17	39.606		
12,700.00	7,870.00	11,168.91	7,971.15	90.46	59.26	91.38	-1,778.79	-398.33	4,599.67	4,480.91	118.77	38.729		
12,800.00	7,870.00	11,302.29	7,966.91	90.71	61.31	91.33	-1,912.09	-396.26	4,597.70	4,475.56	122.14	37.642		
12,900.00	7,870.00	11,380.00	7,964.86	90.99	62.51	91.31	-1,989.76	-394.96	4,595.63	4,471.19	124.44	36.932		
13,000.00	7,870.00	11,459.72	7,963.14	91.32	63.75	91.29	-2,069.46	-393.94	4,593.98	4,467.19	126.79	36.232		
13,100.00	7,870.00	11,528.32	7,961.82	91.68	64.82	91.27	-2,138.04	-393.48	4,592.93	4,464.00	128.93	35.622		
13,193.63	7,870.00	11,589.82	7,960.73	92.05	65.78	91.26	-2,199.53	-393.49	4,592.59	4,461.70	130.89	35.088		
13,200.00	7,870.00	11,593.90	7,960.67	92.08	65.85	91.26	-2,203.61	-393.50	4,592.59	4,461.58	131.02	35.053		
13,300.00	7,870.00	11,647.00	7,959.85	92.52	66.68	91.25	-2,256.70	-393.90	4,593.06	4,460.22	132.84	34.577		
13,400.00	7,870.00	11,715.09	7,959.05	93.00	67.75	91.24	-2,324.78	-394.99	4,594.35	4,459.36	134.99	34.035		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,500.00	7,870.00	11,771.80	7,958.55	93.53	68.63	91.23	-2,381.47	-396.45	4,596.58	4,459.69	136.89	33.578		
13,600.00	7,870.00	11,829.13	7,957.93	94.10	69.53	91.22	-2,438.76	-398.49	4,599.76	4,460.96	138.81	33.138		
13,700.00	7,870.00	11,915.64	7,956.98	94.72	70.89	91.21	-2,525.18	-402.07	4,603.54	4,462.14	141.40	32.557		
13,800.00	7,870.00	11,991.37	7,956.30	95.38	72.08	91.20	-2,600.84	-405.52	4,607.73	4,463.98	143.76	32.052		
13,900.00	7,870.00	12,108.37	7,956.14	96.09	73.93	91.20	-2,717.70	-411.04	4,612.13	4,465.02	147.11	31.351		
14,000.00	7,870.00	12,249.21	7,957.36	96.84	76.18	91.21	-2,858.44	-416.32	4,615.47	4,464.38	151.09	30.548		
14,100.00	7,870.00	12,384.69	7,958.80	97.64	78.36	91.23	-2,993.85	-420.37	4,618.11	4,463.12	154.98	29.797		
14,200.00	7,870.00	12,449.00	7,959.08	98.48	79.40	91.23	-3,058.13	-422.38	4,620.91	4,463.76	157.15	29.404		
14,300.00	7,870.00	12,510.66	7,959.12	99.37	80.39	91.23	-3,119.74	-424.81	4,624.51	4,465.26	159.25	29.039		
14,400.00	7,870.00	12,609.26	7,959.61	100.30	81.98	91.23	-3,218.24	-429.30	4,628.73	4,466.45	162.28	28.522		
14,500.00	7,870.00	12,713.72	7,960.53	101.26	83.68	91.24	-3,322.60	-433.77	4,632.70	4,467.21	165.48	27.995		
14,600.00	7,870.00	12,824.05	7,961.15	102.27	85.47	91.25	-3,432.83	-438.39	4,636.56	4,467.70	168.85	27.459		
14,700.00	7,870.00	13,870.56	7,944.34	103.31	99.71	91.05	-4,277.29	-404.32	4,631.46	4,441.08	190.38	24.328		
14,800.00	7,870.00	13,747.63	7,945.57	104.38	101.04	91.07	-4,353.80	-395.08	4,619.22	4,426.08	193.14	23.917		
14,900.00	7,870.00	13,786.00	7,946.14	105.49	101.71	91.08	-4,391.91	-390.75	4,607.86	4,412.89	194.97	23.634		
15,000.00	7,870.00	13,850.59	7,947.11	106.63	102.82	91.09	-4,456.16	-384.12	4,597.43	4,400.02	197.42	23.288		
15,100.00	7,870.00	13,875.00	7,947.50	107.80	103.24	91.10	-4,480.46	-381.87	4,588.33	4,389.46	198.87	23.072		
15,200.00	7,870.00	13,936.14	7,948.42	109.00	104.29	91.11	-4,541.40	-377.01	4,580.26	4,379.06	201.20	22.764		
15,300.00	7,870.00	13,964.00	7,948.77	110.22	104.77	91.11	-4,569.19	-375.17	4,573.62	4,370.94	202.69	22.565		
15,400.00	7,870.00	14,020.38	7,949.51	111.47	105.74	91.12	-4,625.48	-372.17	4,568.14	4,363.28	204.87	22.298		
15,500.00	7,870.00	14,053.00	7,950.00	112.74	106.29	91.13	-4,658.08	-370.86	4,563.99	4,357.58	206.41	22.111		
15,600.00	7,870.00	14,099.69	7,950.66	114.03	107.09	91.14	-4,704.75	-369.60	4,561.12	4,352.82	208.30	21.897		
15,700.00	7,870.00	14,142.00	7,951.15	115.34	107.81	91.15	-4,747.05	-369.14	4,559.64	4,349.60	210.04	21.708		
15,741.05	7,870.00	14,142.00	7,951.15	115.89	107.81	91.15	-4,747.05	-369.14	4,559.46	4,349.18	210.28	21.683		
15,800.00	7,870.00	14,172.69	7,951.42	116.68	108.33	91.15	-4,777.74	-369.24	4,559.54	4,348.11	211.44	21.565		
15,900.00	7,870.00	14,231.00	7,951.67	118.02	109.31	91.15	-4,836.03	-370.49	4,561.05	4,347.49	213.56	21.357		
16,000.00	7,870.00	14,256.95	7,951.69	119.39	109.75	91.15	-4,861.97	-371.38	4,563.59	4,348.83	214.76	21.250		
16,100.00	7,870.00	14,356.25	7,951.65	120.77	111.41	91.15	-4,961.20	-375.02	4,566.91	4,348.90	218.02	20.948		
16,200.00	7,870.00	14,643.74	7,953.93	122.17	116.29	91.18	-5,248.62	-377.78	4,566.66	4,340.07	226.59	20.154		
16,300.00	7,870.00	14,711.44	7,955.42	123.58	117.45	91.20	-5,316.30	-377.52	4,566.02	4,336.99	229.03	19.937		
16,325.02	7,870.00	14,726.13	7,955.72	123.93	117.70	91.20	-5,330.99	-377.55	4,565.99	4,336.42	229.57	19.889		
16,400.00	7,870.00	14,766.00	7,956.51	125.00	118.38	91.21	-5,370.85	-377.79	4,566.25	4,335.16	231.09	19.760		
16,500.00	7,870.00	14,829.08	7,957.49	126.43	119.45	91.22	-5,433.91	-378.67	4,567.37	4,334.00	233.37	19.572		
16,600.00	7,870.00	14,886.50	7,958.02	127.88	120.43	91.23	-5,491.31	-380.02	4,569.41	4,333.94	235.47	19.406		
16,700.00	7,870.00	14,944.00	7,958.19	129.34	121.40	91.23	-5,548.79	-381.94	4,572.39	4,334.84	237.55	19.248		
16,800.00	7,870.00	15,028.31	7,958.37	130.81	122.83	91.23	-5,633.03	-385.28	4,576.02	4,335.61	240.41	19.034		
16,900.00	7,870.00	15,231.72	7,963.79	132.28	126.29	91.30	-5,836.28	-390.53	4,577.97	4,331.18	246.79	18.550		
17,000.00	7,870.00	15,351.91	7,968.40	133.77	128.34	91.36	-5,956.36	-392.40	4,579.28	4,328.53	250.74	18.263		
17,100.00	7,870.00	15,444.76	7,971.31	135.27	129.93	91.39	-6,049.16	-393.63	4,580.34	4,326.44	253.91	18.039		
17,200.00	7,870.00	15,562.23	7,975.02	136.77	131.95	91.44	-6,166.56	-395.33	4,581.56	4,323.77	257.79	17.773		
17,300.00	7,870.00	15,688.28	7,978.96	138.28	134.11	91.49	-6,292.54	-396.22	4,581.97	4,320.05	261.92	17.494		
17,400.00	7,870.00	15,784.51	7,982.15	139.80	135.77	91.53	-6,388.71	-396.86	4,582.39	4,317.19	265.20	17.279		
17,500.00	7,870.00	15,872.10	7,985.27	141.33	137.28	91.57	-6,476.26	-397.37	4,582.75	4,314.52	268.23	17.085		
17,600.00	7,870.00	15,938.87	7,987.39	142.86	138.42	91.59	-6,542.98	-398.23	4,583.78	4,313.13	270.65	16.936		
17,700.00	7,870.00	16,013.00	7,989.77	144.40	139.70	91.62	-6,617.06	-399.63	4,585.42	4,312.14	273.28	16.779		
17,800.00	7,870.00	16,090.60	7,992.39	145.95	141.03	91.65	-6,694.60	-401.49	4,587.58	4,311.59	276.00	16.622		
17,900.00	7,870.00	16,159.69	7,994.69	147.50	142.21	91.68	-6,763.62	-403.55	4,590.34	4,311.88	278.46	16.485		
18,000.00	7,870.00	16,219.86	7,996.55	149.06	143.24	91.70	-6,823.71	-405.78	4,593.83	4,313.21	280.62	16.370		
18,100.00	7,870.00	16,280.00	7,998.20	150.63	144.27	91.72	-6,883.76	-408.66	4,598.31	4,315.54	282.77	16.262		
18,200.00	7,870.00	16,366.79	8,000.66	152.20	145.74	91.75	-6,970.39	-413.31	4,603.40	4,317.66	285.74	16.110		
18,300.00	7,870.00	16,440.13	8,002.57	153.77	146.99	91.78	-7,043.59	-417.46	4,608.79	4,320.51	288.28	15.987		
18,400.00	7,870.00	16,528.24	8,004.10	155.35	148.49	91.79	-7,131.52	-422.88	4,614.65	4,323.37	291.29	15.842		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,500.00	7,870.00	16,632.63	8,005.74	156.93	150.27	91.81	-7,235.70	-429.36	4,620.57	4,325.77	294.81	15.673	
18,600.00	7,870.00	16,711.26	8,006.52	158.52	151.60	91.82	-7,314.16	-434.37	4,626.64	4,329.13	297.51	15.551	
18,700.00	7,870.00	17,119.37	7,998.26	160.11	158.61	91.71	-7,721.86	-447.36	4,628.83	4,318.55	310.27	14.918	
18,800.00	7,870.00	17,524.79	7,993.61	161.71	165.69	91.66	-8,126.73	-435.19	4,626.27	4,304.33	321.94	14.370	
18,900.00	7,870.00	17,646.30	7,998.70	163.31	167.84	91.73	-8,247.84	-426.74	4,619.10	4,293.15	325.95	14.171	
19,000.00	7,870.00	17,761.14	8,003.58	164.91	169.86	91.79	-8,362.25	-418.22	4,611.46	4,281.66	329.80	13.983	
19,100.00	7,870.00	17,796.00	8,005.06	166.52	170.48	91.81	-8,396.99	-415.60	4,604.19	4,272.57	331.62	13.884	
19,200.00	7,870.00	17,796.00	8,005.06	168.13	170.48	91.81	-8,396.99	-415.60	4,598.95	4,266.50	332.45	13.833	
19,300.00	7,870.00	17,796.00	8,005.06	169.75	170.48	91.81	-8,396.99	-415.60	4,595.88	4,262.74	333.14	13.796	
19,383.51	7,870.00	17,796.00	8,005.06	171.10	170.48	91.81	-8,396.99	-415.60	4,594.98	4,261.38	333.61	13.774 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-53.43	786.89	-1,060.90	1,320.91					
100.00	100.00	88.74	88.74	0.13	0.15	-53.44	786.86	-1,060.93	1,320.88	1,320.59	0.28	4,683.376	CC	
200.00	200.00	188.44	188.44	0.49	0.31	-53.44	786.77	-1,061.03	1,320.91	1,320.10	0.81	1,638.118		
300.00	300.00	288.14	288.14	0.85	0.48	-53.45	786.62	-1,061.21	1,320.96	1,319.63	1.33	992.698		
400.00	400.00	385.87	385.87	1.21	0.77	-53.46	786.54	-1,061.43	1,321.09	1,319.11	1.98	668.775		
500.00	500.00	482.75	482.74	1.57	1.10	-53.45	786.88	-1,061.60	1,321.45	1,318.77	2.67	494.630		
600.00	600.00	579.62	579.61	1.93	1.44	-53.43	787.67	-1,061.73	1,322.04	1,318.67	3.37	392.562	ES	
700.00	699.98	683.48	683.47	2.28	1.80	-117.28	788.39	-1,061.94	1,323.41	1,319.33	4.08	323.981		
800.00	799.84	787.17	787.09	2.64	2.17	-117.28	791.46	-1,060.00	1,326.08	1,321.28	4.80	276.251		
900.00	899.45	888.93	888.69	3.00	2.52	-117.31	796.02	-1,056.71	1,330.14	1,324.62	5.52	241.120		
1,000.00	998.70	992.69	992.16	3.37	2.90	-117.36	802.07	-1,052.07	1,335.62	1,329.36	6.26	213.435		
1,100.00	1,097.47	1,087.42	1,086.35	3.76	3.25	-117.37	810.10	-1,045.93	1,342.66	1,335.67	6.99	192.063		
1,200.00	1,195.62	1,232.66	1,230.57	4.18	3.80	-117.57	822.08	-1,033.65	1,349.45	1,341.51	7.94	169.995		
1,300.00	1,293.06	1,319.54	1,316.81	4.63	4.13	-117.75	828.58	-1,025.45	1,356.82	1,348.12	8.70	155.951		
1,400.00	1,389.64	1,397.85	1,394.27	5.11	4.45	-117.84	837.05	-1,017.79	1,367.43	1,357.96	9.47	144.441		
1,500.00	1,485.27	1,480.34	1,475.18	5.63	4.79	-117.83	849.87	-1,008.13	1,380.88	1,370.58	10.30	134.076		
1,600.00	1,579.82	1,560.35	1,553.18	6.20	5.15	-117.76	864.84	-998.47	1,397.41	1,386.24	11.17	125.099		
1,700.00	1,673.17	1,655.89	1,646.56	6.83	5.58	-117.86	881.96	-987.84	1,415.97	1,403.81	12.16	116.485		
1,800.00	1,765.21	1,731.49	1,720.75	7.51	5.91	-117.97	894.82	-980.96	1,437.35	1,424.27	13.08	109.905		
1,900.00	1,855.84	1,860.82	1,847.71	8.24	6.49	-118.55	916.35	-969.05	1,460.37	1,446.06	14.31	102.086		
2,000.00	1,944.94	1,954.04	1,939.36	9.05	6.90	-118.96	930.32	-959.27	1,483.32	1,467.92	15.40	96.346		
2,100.00	2,032.39	2,048.07	2,031.88	9.91	7.32	-119.45	944.62	-950.46	1,509.28	1,492.75	16.53	91.316		
2,200.00	2,118.11	2,194.57	2,175.86	10.85	7.99	-120.56	965.42	-933.34	1,534.85	1,516.89	17.96	85.459		
2,300.00	2,201.97	2,269.95	2,249.90	11.85	8.33	-120.94	975.91	-923.82	1,561.90	1,542.82	19.08	81.848		
2,400.00	2,283.88	2,342.55	2,321.21	12.93	8.66	-121.29	986.54	-915.28	1,592.23	1,572.01	20.22	78.746		
2,429.47	2,307.63	2,363.05	2,341.34	13.26	8.76	-121.38	989.64	-912.99	1,601.81	1,581.26	20.56	77.927		
2,500.00	2,364.26	2,411.46	2,388.90	14.06	8.98	-121.99	997.10	-907.84	1,625.53	1,604.17	21.35	76.131		
2,600.00	2,444.56	2,485.05	2,461.23	15.22	9.31	-122.92	1,008.61	-900.71	1,660.50	1,638.01	22.50	73.815		
2,700.00	2,524.85	2,560.85	2,535.86	16.39	9.65	-123.86	1,020.15	-894.12	1,696.73	1,673.10	23.64	71.786		
2,800.00	2,605.14	2,635.47	2,609.41	17.57	9.99	-124.77	1,031.29	-888.32	1,734.17	1,709.42	24.75	70.060		
2,900.00	2,685.43	2,717.99	2,690.66	18.76	10.36	-125.72	1,044.34	-882.21	1,772.75	1,746.85	25.91	68.428		
3,000.00	2,765.73	2,830.34	2,800.89	19.96	10.88	-126.90	1,063.73	-872.52	1,811.33	1,784.08	27.26	66.458		
3,100.00	2,846.02	2,995.40	2,962.45	21.16	11.67	-128.50	1,091.35	-853.06	1,847.32	1,818.39	28.92	63.866		
3,200.00	2,926.31	3,075.76	3,040.97	22.37	12.06	-129.23	1,104.46	-842.17	1,882.28	1,852.21	30.07	62.592		
3,300.00	3,006.60	3,163.16	3,126.79	23.59	12.47	-130.06	1,117.36	-831.82	1,918.57	1,887.34	31.23	61.431		
3,400.00	3,086.90	3,301.65	3,262.52	24.81	13.12	-131.31	1,136.90	-812.48	1,953.03	1,920.37	32.67	59.784		
3,500.00	3,167.19	3,366.92	3,326.55	26.03	13.43	-131.89	1,145.65	-803.33	1,987.86	1,954.20	33.67	59.042		
3,600.00	3,247.48	3,431.62	3,390.28	27.25	13.72	-132.49	1,153.54	-795.44	2,024.29	1,989.65	34.63	58.447		
3,700.00	3,327.77	3,501.48	3,459.03	28.48	14.04	-133.10	1,162.97	-787.40	2,061.99	2,026.38	35.62	57.893		
3,800.00	3,408.07	3,574.83	3,531.08	29.71	14.38	-133.69	1,174.05	-779.24	2,100.74	2,064.12	36.62	57.364		
3,900.00	3,488.36	3,671.91	3,626.39	30.94	14.84	-134.43	1,189.07	-768.53	2,139.94	2,102.17	37.77	56.653		
4,000.00	3,568.65	3,752.90	3,705.82	32.17	15.22	-135.02	1,202.03	-759.49	2,179.41	2,140.59	38.82	56.145		
4,100.00	3,648.95	3,873.37	3,823.74	33.41	15.80	-135.84	1,221.56	-744.50	2,217.84	2,177.72	40.12	55.274		
4,200.00	3,729.24	3,924.30	3,873.71	34.64	16.04	-136.19	1,229.49	-738.65	2,257.40	2,216.45	40.95	55.130		
4,300.00	3,809.53	3,988.78	3,937.13	35.88	16.35	-136.64	1,239.32	-732.42	2,298.62	2,256.79	41.84	54.945		
4,400.00	3,889.82	4,091.18	4,037.93	37.12	16.81	-137.34	1,254.29	-722.34	2,339.86	2,296.90	42.97	54.460		
4,500.00	3,970.12	4,176.03	4,121.30	38.36	17.21	-137.88	1,267.52	-713.81	2,381.32	2,337.34	43.98	54.144		
4,600.00	4,050.41	4,256.22	4,199.97	39.60	17.59	-138.35	1,280.81	-705.66	2,423.06	2,378.09	44.97	53.883		
4,700.00	4,130.70	4,324.44	4,266.99	40.84	17.91	-138.76	1,291.83	-699.32	2,465.63	2,419.77	45.86	53.770		
4,800.00	4,210.99	4,499.91	4,439.03	42.08	18.74	-139.72	1,320.48	-680.25	2,506.93	2,459.41	47.52	52.755		
4,900.00	4,291.29	4,605.50	4,541.95	43.32	19.28	-140.22	1,339.58	-666.41	2,546.74	2,498.03	48.72	52.276		
5,000.00	4,371.58	4,640.09	4,575.76	44.57	19.44	-140.39	1,345.69	-662.38	2,587.57	2,538.20	49.37	52.410		

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

Anticollision Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
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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	4,451.87	4,698.86	4,633.31	45.81	19.73	-140.67	1,355.98	-656.37	2,630.00	2,579.82	50.19	52.406	
5,200.00	4,532.16	5,200.00	4,769.29	47.05	22.14	-141.34	1,379.03	-640.99	2,671.68	2,618.43	53.25	50.171	
5,300.00	4,612.46	4,944.00	4,873.42	48.30	20.92	-141.84	1,396.01	-627.56	2,712.04	2,659.32	52.72	51.438	
5,400.00	4,692.75	5,010.91	4,938.92	49.54	21.24	-142.15	1,406.95	-619.35	2,753.06	2,699.48	53.58	51.382	
5,500.00	4,773.04	5,066.32	4,993.29	50.79	21.50	-142.40	1,415.73	-613.32	2,795.31	2,740.98	54.33	51.452	
5,600.00	4,853.34	5,122.00	5,048.13	52.03	21.76	-142.67	1,423.79	-608.02	2,838.75	2,783.69	55.05	51.564	
5,700.00	4,933.63	5,266.31	5,190.43	53.28	22.40	-143.38	1,442.77	-593.37	2,881.46	2,825.07	56.38	51.105	
5,800.00	5,013.92	5,387.18	5,309.54	54.53	22.95	-143.97	1,458.17	-579.87	2,923.60	2,866.07	57.53	50.816	
5,900.00	5,094.21	5,503.10	5,423.23	55.77	23.50	-144.45	1,475.04	-564.83	2,964.25	2,905.56	58.69	50.508	
6,000.00	5,174.51	5,549.60	5,468.89	57.02	23.72	-144.65	1,481.79	-559.15	3,005.79	2,946.44	59.35	50.647	
6,100.00	5,254.80	5,627.55	5,545.59	58.27	24.09	-144.97	1,492.73	-550.52	3,048.41	2,988.20	60.22	50.625	
6,200.00	5,335.09	5,734.90	5,651.14	59.52	24.58	-145.41	1,507.96	-538.28	3,090.89	3,029.60	61.29	50.429	
6,300.00	5,415.38	5,828.92	5,743.62	60.76	25.02	-145.79	1,520.77	-527.18	3,133.07	3,070.81	62.26	50.322	
6,400.00	5,495.68	6,400.00	5,843.08	62.01	27.70	-146.17	1,535.00	-514.77	3,174.94	3,109.60	65.35	48.586	
6,500.00	5,575.97	5,970.37	5,882.62	63.26	25.68	-146.32	1,540.62	-510.11	3,217.56	3,153.70	63.86	50.382	
6,600.00	5,656.26	6,012.00	5,923.72	64.51	25.87	-146.49	1,545.88	-506.01	3,261.66	3,197.24	64.42	50.628	
6,700.00	5,736.55	6,106.40	6,016.96	65.76	26.28	-146.86	1,557.76	-497.29	3,306.47	3,241.11	65.36	50.590	
6,800.00	5,816.85	6,205.85	6,115.06	67.01	26.73	-147.23	1,571.01	-487.68	3,351.02	3,284.67	66.34	50.509	
6,900.00	5,897.14	6,311.09	6,218.83	68.26	27.20	-147.61	1,584.92	-477.11	3,395.31	3,327.94	67.37	50.398	
7,000.00	5,977.43	6,444.47	6,350.27	69.50	27.80	-148.07	1,602.26	-462.54	3,438.94	3,370.34	68.59	50.136	
7,100.00	6,057.72	6,568.91	6,472.63	70.75	28.38	-148.49	1,618.82	-447.07	3,481.17	3,411.42	69.75	49.908	
7,200.00	6,138.02	6,624.07	6,526.94	72.00	28.63	-148.67	1,625.75	-440.36	3,523.80	3,453.39	70.41	50.049	
7,300.00	6,218.31	6,693.47	6,595.42	73.25	28.94	-148.92	1,633.76	-432.48	3,567.21	3,496.07	71.14	50.144	
7,400.00	6,298.60	7,217.14	7,105.06	74.50	30.74	-151.87	1,615.31	-343.88	3,603.84	3,530.80	73.04	49.339	
7,500.00	6,378.90	7,261.00	7,145.58	75.75	30.81	-152.30	1,600.63	-335.77	3,638.92	3,565.60	73.32	49.634	
7,600.00	6,459.19	7,261.00	7,145.58	77.00	30.81	-152.30	1,600.63	-335.77	3,675.08	3,601.39	73.69	49.875	
7,700.00	6,539.48	7,261.00	7,145.58	78.25	30.81	-152.30	1,600.63	-335.77	3,713.58	3,639.57	74.01	50.177	
7,800.00	6,619.77	7,261.00	7,145.58	79.50	30.81	-152.30	1,600.63	-335.77	3,754.35	3,680.06	74.29	50.537	
7,900.00	6,700.07	7,294.49	7,176.20	80.75	30.83	-152.65	1,587.96	-330.97	3,796.67	3,722.24	74.43	51.009	
8,000.00	6,780.36	7,309.98	7,190.25	82.00	30.84	-152.82	1,581.70	-329.10	3,841.01	3,766.41	74.59	51.492	
8,100.00	6,860.65	7,350.00	7,226.12	83.25	30.86	-153.26	1,564.40	-325.27	3,887.52	3,812.87	74.65	52.076	
8,200.00	6,940.94	7,350.00	7,226.12	84.50	30.86	-153.26	1,564.40	-325.27	3,935.12	3,860.32	74.80	52.609	
8,300.00	7,021.24	7,350.00	7,226.12	85.76	30.86	-153.26	1,564.40	-325.27	3,984.66	3,909.74	74.92	53.188	
8,400.00	7,101.53	7,394.69	7,265.28	87.01	30.85	-153.78	1,543.14	-321.94	4,035.65	3,960.79	74.86	53.908	
8,500.00	7,181.82	7,439.00	7,302.97	88.26	30.85	-154.31	1,520.04	-318.88	4,087.96	4,013.18	74.77	54.670	
8,605.60	7,266.61	7,460.93	7,321.16	89.58	30.83	-154.59	1,507.87	-317.46	4,144.56	4,069.82	74.74	55.453	
8,650.00	7,302.60	7,473.99	7,331.82	90.13	30.82	-163.47	1,500.38	-316.65	4,168.88	4,094.18	74.70	55.808	
8,700.00	7,343.78	7,489.54	7,344.36	90.72	30.81	-174.05	1,491.23	-315.71	4,196.59	4,121.95	74.64	56.221	
8,750.00	7,385.32	7,505.90	7,357.35	91.28	30.80	-175.02	1,481.33	-314.76	4,224.41	4,149.83	74.57	56.648	
8,800.00	7,426.92	7,528.00	7,374.56	91.81	30.79	-164.04	1,467.52	-313.54	4,252.10	4,177.64	74.46	57.103	
8,850.00	7,468.27	7,528.00	7,374.56	92.29	30.79	-153.60	1,467.52	-313.54	4,279.47	4,205.02	74.45	57.484	
8,900.00	7,509.04	7,528.00	7,374.56	92.72	30.79	-143.76	1,467.52	-313.54	4,306.42	4,232.00	74.42	57.866	
8,950.00	7,548.93	7,566.16	7,403.38	93.10	30.74	-134.57	1,442.58	-311.71	4,332.29	4,258.09	74.20	58.385	
9,000.00	7,587.63	7,581.03	7,414.30	93.43	30.73	-126.45	1,432.51	-311.11	4,357.40	4,283.30	74.09	58.810	
9,050.00	7,624.85	7,617.00	7,439.95	93.71	30.69	-119.23	1,407.32	-309.96	4,381.50	4,307.64	73.87	59.315	
9,100.00	7,660.30	7,617.00	7,439.95	93.93	30.69	-113.00	1,407.32	-309.96	4,404.03	4,330.19	73.84	59.643	
9,150.00	7,693.72	7,617.00	7,439.95	94.10	30.69	-107.58	1,407.32	-309.96	4,425.24	4,351.42	73.82	59.947	
9,200.00	7,724.85	7,617.00	7,439.95	94.23	30.69	-102.90	1,407.32	-309.96	4,445.00	4,371.19	73.81	60.223	
9,250.00	7,753.45	7,617.00	7,439.95	94.30	30.69	-98.88	1,407.32	-309.96	4,463.17	4,389.35	73.81	60.464	
9,300.00	7,779.31	7,655.99	7,466.44	94.34	30.62	-95.58	1,378.73	-309.41	4,478.90	4,405.28	73.62	60.837	
9,350.00	7,802.23	7,666.70	7,473.47	94.33	30.60	-92.78	1,370.64	-309.43	4,493.10	4,419.49	73.61	61.043	
9,400.00	7,822.03	7,707.00	7,498.87	94.28	30.54	-90.62	1,339.37	-310.14	4,505.72	4,432.29	73.43	61.359	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,707.00	7,498.87	94.20	30.54	88.77	1,339.37	-310.14	4,515.58	4,442.05	73.53	61.408		
9,500.00	7,851.72	7,707.00	7,498.87	94.10	30.54	87.36	1,339.37	-310.14	4,523.42	4,449.76	73.67	61.402		
9,550.00	7,861.37	7,707.00	7,498.87	93.96	30.54	86.34	1,339.37	-310.14	4,529.19	4,455.35	73.84	61.339		
9,600.00	7,867.46	7,707.00	7,498.87	93.81	30.54	85.71	1,339.37	-310.14	4,532.84	4,458.80	74.04	61.219		
9,650.00	7,869.94	7,707.00	7,498.87	93.64	30.54	85.45	1,339.37	-310.14	4,534.35	4,460.07	74.28	61.041		
9,659.14	7,870.00	7,735.85	7,516.00	93.60	30.48	85.66	1,316.19	-311.20	4,534.09	4,459.95	74.14	61.156		
9,682.19	7,870.00	7,741.39	7,519.18	93.52	30.47	85.70	1,311.66	-311.44	4,534.04	4,459.81	74.23	61.085		
9,700.00	7,870.00	7,745.71	7,521.64	93.46	30.46	85.73	1,308.11	-311.65	4,534.07	4,459.78	74.29	61.032		
9,800.00	7,870.00	7,796.00	7,548.66	93.11	30.36	86.08	1,265.81	-314.60	4,535.49	4,461.02	74.48	60.898		
9,900.00	7,870.00	8,095.09	7,651.66	92.77	29.73	87.38	986.91	-322.45	4,537.20	4,464.41	72.80	62.327		
10,000.00	7,870.00	8,178.07	7,664.89	92.46	29.58	87.55	905.01	-321.61	4,535.11	4,462.31	72.81	62.290		
10,100.00	7,870.00	8,269.37	7,673.60	92.16	29.45	87.66	814.15	-320.48	4,533.14	4,460.29	72.85	62.226		
10,200.00	7,870.00	10,200.00	7,679.80	91.87	29.02	87.73	608.94	-316.45	4,531.25	4,445.97	85.28	53.136		
10,300.00	7,870.00	8,548.00	7,680.92	91.60	30.38	87.74	535.76	-313.65	4,527.15	4,454.06	73.08	61.945		
10,400.00	7,870.00	8,597.00	7,681.48	91.34	30.71	87.75	486.78	-312.63	4,524.44	4,450.82	73.63	61.451		
10,500.00	7,870.00	8,655.17	7,681.96	91.11	31.13	87.76	428.61	-312.00	4,522.81	4,448.57	74.24	60.923		
10,600.00	7,870.00	8,686.00	7,682.16	90.88	31.36	87.76	397.78	-311.67	4,521.89	4,447.02	74.87	60.393		
10,624.87	7,870.00	8,714.82	7,682.33	90.83	31.58	87.76	368.97	-311.57	4,521.68	4,446.61	75.07	60.233		
10,624.87	7,870.00	8,714.82	7,682.33	90.83	31.58	87.76	368.97	-311.57	4,521.68	4,446.61	75.07	60.233		
10,700.00	7,870.00	8,737.89	7,682.44	90.67	31.77	87.76	345.90	-311.78	4,522.12	4,446.54	75.58	59.834		
10,800.00	7,870.00	8,775.00	7,682.58	90.48	32.06	87.76	308.80	-312.68	4,524.05	4,447.76	76.29	59.302		
10,900.00	7,870.00	8,832.86	7,682.99	90.31	32.54	87.77	250.98	-314.77	4,527.19	4,450.09	77.09	58.723		
11,000.00	7,870.00	8,914.26	7,684.30	90.15	33.25	87.79	169.66	-318.13	4,530.90	4,452.87	78.03	58.063		
11,100.00	7,870.00	9,001.48	7,686.45	90.00	34.04	87.82	82.55	-322.01	4,534.92	4,455.82	79.10	57.329		
11,200.00	7,870.00	9,240.33	7,691.45	89.88	36.46	87.88	-156.13	-329.00	4,537.27	4,455.93	81.33	55.787		
11,300.00	7,870.00	9,374.37	7,690.43	89.77	37.96	87.87	-290.15	-330.23	4,537.83	4,454.66	83.17	54.563		
11,400.00	7,870.00	9,499.13	7,688.76	89.68	39.42	87.85	-414.90	-330.73	4,537.95	4,452.86	85.09	53.331		
11,500.00	7,870.00	9,604.91	7,686.65	89.60	40.72	87.82	-520.66	-330.67	4,537.63	4,450.67	86.96	52.180		
11,600.00	7,870.00	9,710.86	7,684.31	89.55	42.06	87.79	-626.58	-330.68	4,537.40	4,448.46	88.94	51.018		
11,700.00	7,870.00	9,865.23	7,684.12	89.52	44.07	87.79	-780.94	-329.52	4,536.29	4,444.60	91.70	49.470		
11,800.00	7,870.00	10,001.01	7,683.65	89.50	45.91	87.78	-916.70	-327.30	4,534.36	4,439.99	94.38	48.046		
11,900.00	7,870.00	10,111.00	7,682.06	89.51	47.44	87.76	-1,026.64	-324.36	4,531.38	4,434.60	96.78	46.823		
12,000.00	7,870.00	10,177.52	7,681.06	89.54	48.38	87.75	-1,093.13	-322.75	4,528.82	4,430.27	98.55	45.956		
12,100.00	7,870.00	10,269.95	7,680.48	89.59	49.70	87.74	-1,185.56	-321.57	4,527.20	4,426.42	100.79	44.919		
12,200.00	7,870.00	10,328.15	7,680.24	89.66	50.54	87.74	-1,243.75	-320.88	4,525.80	4,423.31	102.48	44.161		
12,263.38	7,870.00	10,357.22	7,680.49	89.72	50.96	87.74	-1,272.81	-320.86	4,525.51	4,422.07	103.44	43.751		
12,300.00	7,870.00	10,379.00	7,680.85	89.77	51.27	87.74	-1,294.59	-320.99	4,525.57	4,421.50	104.07	43.485		
12,400.00	7,870.00	10,487.09	7,682.75	89.89	52.85	87.77	-1,402.66	-321.68	4,525.81	4,419.08	106.73	42.405		
12,500.00	7,870.00	10,591.25	7,684.15	90.05	54.39	87.79	-1,506.81	-322.22	4,525.94	4,416.57	109.37	41.382		
12,600.00	7,870.00	10,710.62	7,684.62	90.24	56.17	87.79	-1,626.18	-322.27	4,525.61	4,413.25	112.36	40.279		
12,677.31	7,870.00	10,767.89	7,684.27	90.40	57.04	87.79	-1,683.45	-322.26	4,525.38	4,411.37	114.01	39.692		
12,700.00	7,870.00	10,781.68	7,684.31	90.46	57.25	87.79	-1,697.24	-322.33	4,525.40	4,410.96	114.44	39.544		
12,800.00	7,870.00	12,800.00	7,685.78	90.71	88.17	87.81	-1,803.72	-322.99	4,525.64	4,379.03	146.60	30.870		
12,900.00	7,870.00	11,091.00	7,687.26	90.99	62.01	87.82	-2,006.51	-320.28	4,523.31	4,401.11	122.20	37.016		
13,000.00	7,870.00	11,135.84	7,687.47	91.32	62.71	87.83	-2,051.34	-319.48	4,521.46	4,397.63	123.84	36.512		
13,054.53	7,870.00	11,152.42	7,687.62	91.51	62.97	87.83	-2,067.92	-319.45	4,521.14	4,396.58	124.56	36.297		
13,100.00	7,870.00	11,181.00	7,687.98	91.68	63.42	87.83	-2,096.50	-319.72	4,521.31	4,395.83	125.48	36.032		
13,200.00	7,870.00	11,222.19	7,688.48	92.08	64.06	87.84	-2,137.67	-320.45	4,522.39	4,395.36	127.03	35.601		
13,300.00	7,870.00	11,345.54	7,690.47	92.52	65.99	87.86	-2,260.98	-322.78	4,523.94	4,393.51	130.42	34.687		
13,400.00	7,870.00	11,567.03	7,698.36	93.00	69.52	87.96	-2,482.31	-322.73	4,523.27	4,387.12	136.16	33.221		
13,500.00	7,870.00	11,692.62	7,699.29	93.53	71.55	87.98	-2,607.88	-320.64	4,521.23	4,381.50	139.73	32.357		
13,600.00	7,870.00	11,748.29	7,698.83	94.10	72.45	87.97	-2,663.54	-319.70	4,519.34	4,377.65	141.69	31.897		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,700.00	7,870.00	11,804.00	7,698.13	94.72	73.35	87.96	-2,719.24	-319.64	4,518.77	4,375.13	143.64	31.458		
13,713.10	7,870.00	11,804.00	7,698.13	94.80	73.35	87.96	-2,719.24	-319.64	4,518.75	4,375.03	143.73	31.440		
13,800.00	7,870.00	11,838.06	7,697.66	95.38	73.90	87.95	-2,753.29	-320.02	4,519.34	4,374.27	145.08	31.152		
13,900.00	7,870.00	11,893.00	7,697.06	96.09	74.78	87.95	-2,808.22	-321.14	4,521.05	4,374.05	147.00	30.756		
14,000.00	7,870.00	11,978.57	7,695.65	96.84	76.16	87.93	-2,893.75	-323.42	4,523.43	4,373.76	149.66	30.224		
14,100.00	7,870.00	12,039.86	7,694.42	97.64	77.15	87.92	-2,955.00	-325.35	4,526.32	4,374.59	151.74	29.830		
14,200.00	7,870.00	12,174.77	7,694.86	98.48	79.33	87.92	-3,089.81	-330.29	4,529.76	4,374.08	155.67	29.098		
14,300.00	7,870.00	12,329.15	7,696.02	99.37	81.86	87.94	-3,244.15	-333.37	4,531.20	4,371.06	160.14	28.295		
14,400.00	7,870.00	12,388.22	7,695.70	100.30	82.82	87.93	-3,303.20	-334.59	4,532.98	4,370.77	162.21	27.945		
14,500.00	7,870.00	12,469.47	7,695.83	101.26	84.15	87.94	-3,384.41	-337.09	4,535.67	4,370.82	164.85	27.514		
14,600.00	7,870.00	12,739.99	7,698.26	102.27	88.64	87.97	-3,654.87	-339.49	4,535.69	4,363.28	172.41	26.308		
14,700.00	7,870.00	12,828.11	7,699.26	103.31	90.11	87.98	-3,742.98	-338.77	4,534.53	4,359.23	175.30	25.867		
14,800.00	7,870.00	12,896.16	7,701.68	104.38	91.25	88.01	-3,810.98	-338.83	4,534.13	4,356.44	177.68	25.518		
14,900.00	7,870.00	13,001.27	7,706.37	105.49	93.01	88.07	-3,915.99	-339.32	4,534.11	4,353.06	181.06	25.042		
15,000.00	7,870.00	13,181.20	7,712.99	106.63	96.04	88.15	-4,095.79	-337.96	4,532.80	4,346.39	186.42	24.315		
15,100.00	7,870.00	13,286.92	7,715.62	107.80	97.83	88.19	-4,201.45	-336.25	4,530.77	4,340.94	189.83	23.867		
15,200.00	7,870.00	13,382.89	7,717.16	109.00	99.45	88.20	-4,297.40	-334.63	4,528.70	4,335.70	192.99	23.465		
15,300.00	7,870.00	13,539.52	7,719.61	110.22	102.11	88.23	-4,453.97	-331.28	4,526.24	4,328.47	197.77	22.887		
15,400.00	7,870.00	13,630.26	7,720.70	111.47	103.66	88.25	-4,544.67	-328.73	4,523.06	4,322.24	200.82	22.523		
15,500.00	7,870.00	13,710.59	7,721.55	112.74	105.03	88.26	-4,624.97	-326.69	4,520.16	4,316.56	203.60	22.202		
15,600.00	7,870.00	13,769.18	7,722.19	114.03	106.03	88.26	-4,683.55	-325.63	4,517.99	4,312.20	205.79	21.954		
15,700.00	7,870.00	13,826.30	7,722.88	115.34	107.00	88.27	-4,740.66	-325.13	4,516.74	4,308.81	207.93	21.722		
15,783.22	7,870.00	13,875.00	7,723.49	116.45	107.83	88.28	-4,789.36	-325.15	4,516.44	4,306.71	209.73	21.534		
15,800.00	7,870.00	13,875.00	7,723.49	116.68	107.83	88.28	-4,789.36	-325.15	4,516.47	4,306.65	209.82	21.525		
15,900.00	7,870.00	13,945.00	7,724.42	118.02	109.02	88.29	-4,859.34	-325.80	4,517.07	4,304.78	212.29	21.278		
16,000.00	7,870.00	14,256.43	7,720.42	119.39	114.34	88.24	-5,170.63	-321.58	4,514.69	4,293.33	221.36	20.395		
16,100.00	7,870.00	14,320.00	7,718.27	120.77	115.43	88.21	-5,234.14	-319.76	4,511.54	4,287.83	223.71	20.167		
16,200.00	7,870.00	14,376.21	7,716.41	122.17	116.40	88.19	-5,290.30	-318.65	4,509.27	4,283.42	225.84	19.966		
16,300.00	7,870.00	14,438.12	7,714.38	123.58	117.46	88.16	-5,352.19	-317.89	4,507.81	4,279.69	228.12	19.761		
16,400.00	7,870.00	14,499.00	7,712.40	125.00	118.50	88.14	-5,413.03	-317.69	4,507.24	4,276.89	230.35	19.567		
16,406.86	7,870.00	14,499.00	7,712.40	125.10	118.50	88.14	-5,413.03	-317.69	4,507.24	4,276.85	230.39	19.564		
16,500.00	7,870.00	14,553.56	7,710.60	126.43	119.43	88.11	-5,467.56	-318.03	4,507.61	4,275.22	232.39	19.396		
16,600.00	7,870.00	14,613.23	7,708.63	127.88	120.45	88.09	-5,527.19	-318.97	4,508.94	4,274.38	234.56	19.223		
16,700.00	7,870.00	14,677.00	7,706.63	129.34	121.54	88.06	-5,590.91	-320.47	4,511.08	4,274.25	236.83	19.048		
16,800.00	7,870.00	14,737.41	7,704.90	130.81	122.56	88.04	-5,651.26	-322.41	4,514.06	4,275.07	238.99	18.888		
16,900.00	7,870.00	14,793.84	7,703.48	132.28	123.52	88.03	-5,707.63	-324.75	4,517.96	4,276.95	241.01	18.746		
17,000.00	7,870.00	14,855.00	7,702.08	133.77	124.55	88.01	-5,768.69	-327.95	4,522.87	4,279.71	243.16	18.601		
17,100.00	7,870.00	14,914.47	7,701.00	135.27	125.55	88.00	-5,828.04	-331.59	4,528.65	4,283.42	245.24	18.466		
17,200.00	7,870.00	14,985.59	7,700.27	136.77	126.75	87.99	-5,898.98	-336.41	4,535.12	4,287.45	247.67	18.311		
17,300.00	7,870.00	15,058.45	7,700.25	138.28	127.97	87.99	-5,971.65	-341.80	4,542.19	4,292.04	250.15	18.158		
17,400.00	7,870.00	15,141.17	7,701.15	139.80	129.36	88.01	-6,054.10	-348.46	4,549.83	4,296.89	252.94	17.988		
17,500.00	7,870.00	15,335.95	7,705.92	141.33	132.65	88.07	-6,248.29	-362.57	4,556.79	4,297.49	259.29	17.574		
17,600.00	7,870.00	15,957.51	7,732.09	142.86	143.38	88.40	-6,868.82	-362.77	4,554.37	4,276.59	277.78	16.396		
17,700.00	7,870.00	16,033.53	7,733.86	144.40	144.71	88.42	-6,944.72	-358.85	4,548.84	4,268.25	280.58	16.212		
17,800.00	7,870.00	16,102.00	7,735.06	145.95	145.90	88.44	-7,013.12	-355.77	4,543.95	4,260.77	283.18	16.046		
17,900.00	7,870.00	16,169.35	7,736.11	147.50	147.08	88.45	-7,080.41	-353.21	4,539.76	4,254.03	285.73	15.888		
18,000.00	7,870.00	16,235.00	7,737.14	149.06	148.23	88.46	-7,146.02	-351.17	4,536.28	4,248.07	288.22	15.739		
18,100.00	7,870.00	16,300.58	7,738.18	150.63	149.37	88.47	-7,211.58	-349.66	4,533.59	4,242.90	290.69	15.596		
18,200.00	7,870.00	16,370.00	7,739.30	152.20	150.58	88.49	-7,280.98	-348.55	4,531.61	4,238.36	293.25	15.453		
18,300.00	7,870.00	16,433.79	7,740.38	153.77	151.68	88.50	-7,344.75	-348.01	4,530.37	4,234.72	295.65	15.324		
18,400.00	7,870.00	16,538.70	7,742.24	155.35	153.51	88.52	-7,449.65	-347.63	4,529.63	4,230.41	299.22	15.138		
18,500.00	7,870.00	16,674.09	7,744.60	156.93	155.86	88.55	-7,585.01	-346.26	4,528.23	4,224.56	303.67	14.911		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,600.00	7,870.00	16,792.15	7,746.37	158.52	157.92	88.57	-7,703.04	-344.41	4,526.28	4,218.66	307.63	14.713	
18,700.00	7,870.00	16,895.54	7,747.84	160.11	159.72	88.59	-7,806.40	-342.51	4,524.07	4,212.91	311.17	14.539	
18,800.00	7,870.00	16,995.70	7,749.22	161.71	161.47	88.61	-7,906.54	-340.66	4,521.86	4,207.24	314.62	14.372	
18,900.00	7,870.00	17,114.87	7,750.94	163.31	163.55	88.63	-8,025.67	-338.21	4,519.43	4,200.81	318.61	14.185	
19,000.00	7,870.00	17,227.12	7,752.50	164.91	165.51	88.65	-8,137.87	-335.46	4,516.61	4,194.20	322.41	14.009	
19,100.00	7,870.00	17,309.66	7,752.83	166.52	166.96	88.65	-8,220.39	-333.42	4,513.80	4,188.43	325.37	13.873	
19,200.00	7,870.00	17,378.73	7,752.68	168.13	168.16	88.65	-8,289.45	-332.12	4,511.60	4,183.66	327.93	13.758	
19,300.00	7,870.00	17,465.63	7,752.14	169.75	169.68	88.64	-8,376.34	-331.01	4,509.98	4,178.98	331.00	13.625	
19,383.51	7,870.00	17,487.00	7,752.00	171.10	170.05	88.64	-8,397.71	-330.74	4,509.11	4,177.06	332.05	13.579 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-53.17	786.89	-1,050.82	1,312.83					
100.00	100.00	92.24	92.24	0.13	0.14	-53.17	786.88	-1,050.68	1,312.68	1,312.40	0.27	4,813.553		
200.00	200.00	192.46	192.46	0.49	0.39	-53.16	786.84	-1,050.32	1,312.36	1,311.47	0.89	1,481.347		
300.00	300.00	289.77	289.76	0.85	0.73	-53.17	786.63	-1,050.28	1,312.20	1,310.61	1.58	828.318		
328.33	328.33	317.34	317.33	0.95	0.83	-53.17	786.53	-1,050.34	1,312.19	1,310.41	1.78	736.353 CC		
400.00	400.00	384.04	384.04	1.21	1.06	-53.18	786.41	-1,050.59	1,312.33	1,310.05	2.27	577.813		
500.00	500.00	477.08	477.08	1.57	1.39	-53.19	786.64	-1,051.16	1,312.97	1,310.01	2.95	444.541 ES		
600.00	600.00	570.11	570.10	1.93	1.71	-53.19	787.33	-1,052.01	1,314.14	1,310.51	3.64	361.455		
700.00	699.98	669.85	669.81	2.28	2.06	-116.96	789.57	-1,052.19	1,316.42	1,312.08	4.34	303.546		
800.00	799.84	790.76	790.37	2.64	2.49	-116.78	797.09	-1,047.71	1,319.59	1,314.47	5.12	257.894		
900.00	899.45	935.50	933.94	3.00	3.02	-116.44	810.05	-1,034.79	1,321.82	1,315.82	6.01	219.990		
1,000.00	998.70	1,028.50	1,026.01	3.37	3.38	-116.28	818.57	-1,024.81	1,324.26	1,317.52	6.74	196.561		
1,100.00	1,097.47	1,123.03	1,119.49	3.76	3.75	-116.18	828.02	-1,014.38	1,328.54	1,321.04	7.50	177.224		
1,200.00	1,195.62	1,224.82	1,220.13	4.18	4.17	-116.18	838.46	-1,003.35	1,334.66	1,326.35	8.31	160.582		
1,300.00	1,293.06	1,361.54	1,354.78	4.63	4.74	-116.27	853.62	-985.25	1,341.01	1,331.70	9.31	144.071		
1,400.00	1,389.64	1,454.74	1,446.00	5.11	5.16	-116.29	865.38	-970.15	1,347.38	1,337.20	10.18	132.345		
1,500.00	1,485.27	1,533.25	1,522.71	5.63	5.52	-116.32	876.41	-957.66	1,356.39	1,345.36	11.03	122.941		
1,600.00	1,579.82	1,606.43	1,594.20	6.20	5.87	-116.35	887.73	-946.79	1,368.66	1,356.76	11.90	115.026		
1,700.00	1,673.17	1,703.12	1,688.68	6.83	6.32	-116.54	903.43	-933.54	1,383.88	1,370.97	12.91	107.159		
1,800.00	1,765.21	1,830.51	1,813.44	7.51	6.91	-117.08	921.93	-915.72	1,399.62	1,385.51	14.11	99.172		
1,900.00	1,855.84	1,941.73	1,922.60	8.24	7.43	-117.70	935.23	-899.05	1,414.79	1,399.53	15.26	92.685		
2,000.00	1,944.94	2,017.00	1,996.67	9.05	7.77	-118.12	943.80	-888.76	1,432.72	1,416.44	16.28	87.984		
2,100.00	2,032.39	2,092.13	2,070.65	9.91	8.11	-118.55	952.93	-879.39	1,454.03	1,436.69	17.33	83.884		
2,200.00	2,118.11	2,171.71	2,149.02	10.85	8.47	-119.04	963.20	-870.09	1,478.47	1,460.04	18.44	80.185		
2,300.00	2,201.97	2,250.45	2,226.53	11.85	8.82	-119.54	973.90	-861.35	1,505.94	1,486.37	19.57	76.950		
2,400.00	2,283.88	2,386.50	2,360.19	12.93	9.45	-120.78	992.98	-844.65	1,535.08	1,514.04	21.04	72.964		
2,429.47	2,307.63	2,438.90	2,411.58	13.26	9.70	-121.32	999.76	-836.97	1,543.39	1,521.85	21.54	71.660		
2,500.00	2,364.26	2,484.65	2,456.47	14.06	9.91	-121.93	1,005.51	-830.28	1,563.59	1,541.26	22.33	70.020		
2,600.00	2,444.56	2,552.12	2,522.79	15.22	10.22	-122.82	1,014.06	-821.24	1,593.87	1,570.42	23.45	67.957		
2,700.00	2,524.85	2,638.76	2,608.07	16.39	10.62	-123.94	1,025.14	-810.74	1,625.90	1,601.24	24.66	65.933		
2,800.00	2,605.14	2,770.65	2,737.48	17.57	11.25	-125.53	1,042.52	-792.18	1,657.13	1,631.03	26.10	63.480		
2,900.00	2,685.43	2,903.37	2,867.42	18.76	11.88	-127.07	1,057.82	-770.02	1,685.94	1,658.41	27.53	61.249		
3,000.00	2,765.73	2,995.76	2,957.88	19.96	12.33	-128.11	1,067.94	-754.24	1,715.00	1,686.27	28.73	59.694		
3,100.00	2,846.02	3,074.21	3,034.46	21.16	12.71	-128.93	1,077.48	-740.11	1,744.26	1,714.40	29.86	58.418		
3,200.00	2,926.31	3,132.00	3,091.23	22.37	12.99	-129.56	1,083.69	-731.30	1,775.74	1,744.89	30.85	57.568		
3,300.00	3,006.60	3,192.63	3,150.95	23.59	13.27	-130.22	1,090.27	-723.13	1,809.29	1,777.48	31.81	56.874		
3,400.00	3,086.90	3,279.97	3,236.74	24.81	13.68	-131.09	1,101.67	-711.41	1,844.09	1,811.16	32.93	56.007		
3,500.00	3,167.19	3,395.99	3,350.32	26.03	14.24	-132.15	1,118.20	-694.47	1,878.62	1,844.41	34.22	54.903		
3,600.00	3,247.48	3,472.38	3,425.06	27.25	14.61	-132.82	1,129.05	-682.96	1,913.09	1,877.82	35.26	54.251		
3,700.00	3,327.77	3,556.85	3,507.76	28.48	15.02	-133.54	1,141.16	-670.74	1,948.42	1,912.08	36.34	53.611		
3,800.00	3,408.07	3,629.46	3,578.95	29.71	15.37	-134.15	1,151.23	-660.64	1,984.49	1,947.16	37.33	53.163		
3,900.00	3,488.36	3,759.73	3,706.81	30.94	15.99	-135.23	1,168.69	-642.84	2,021.18	1,982.54	38.64	52.302		
4,000.00	3,568.65	3,825.74	3,771.46	32.17	16.31	-135.74	1,177.82	-633.15	2,057.13	2,017.56	39.57	51.984		
4,100.00	3,648.95	3,897.79	3,842.09	33.41	16.65	-136.29	1,187.99	-623.22	2,094.22	2,053.70	40.52	51.688		
4,200.00	3,729.24	3,970.40	3,913.51	34.64	16.99	-136.85	1,197.30	-614.01	2,132.30	2,090.86	41.44	51.459		
4,300.00	3,809.53	4,049.24	3,991.23	35.88	17.35	-137.48	1,206.66	-604.67	2,171.21	2,128.85	42.37	51.250		
4,400.00	3,889.82	4,188.30	4,128.03	37.12	18.00	-138.50	1,223.77	-586.51	2,209.34	2,165.66	43.68	50.585		
4,500.00	3,970.12	4,500.00	4,246.41	38.36	19.54	-139.28	1,241.02	-567.99	2,246.08	2,200.29	45.78	49.057		
4,600.00	4,050.41	4,392.02	4,327.15	39.60	19.00	-139.79	1,252.69	-554.68	2,282.37	2,236.48	45.89	49.735		
4,700.00	4,130.70	4,481.52	4,414.76	40.84	19.44	-140.35	1,265.04	-541.15	2,319.66	2,272.76	46.90	49.459		
4,800.00	4,210.99	4,584.88	4,515.83	42.08	19.95	-140.96	1,279.39	-525.01	2,356.71	2,308.71	47.99	49.104		
4,900.00	4,291.29	4,644.52	4,574.18	43.32	20.25	-141.30	1,287.67	-515.89	2,394.24	2,345.45	48.79	49.067		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,718.22	4,646.51	44.57	20.60	-141.73	1,297.42	-505.65	2,433.07	2,383.41	49.66	48.990		
5,100.00	4,451.87	4,832.34	4,758.47	45.81	21.15	-142.38	1,312.49	-489.44	2,471.87	2,421.07	50.79	48.664		
5,200.00	4,532.16	4,928.14	4,852.11	47.05	21.62	-142.87	1,326.46	-474.87	2,510.04	2,458.22	51.83	48.433		
5,300.00	4,612.46	5,041.77	4,962.98	48.30	22.20	-143.41	1,343.91	-457.08	2,548.05	2,495.06	52.99	48.085		
5,400.00	4,692.75	5,080.36	5,000.71	49.54	22.38	-143.59	1,349.61	-451.33	2,586.68	2,533.07	53.62	48.245		
5,500.00	4,773.04	5,124.00	5,043.58	50.79	22.59	-143.81	1,355.47	-445.64	2,627.10	2,572.85	54.24	48.431		
5,600.00	4,853.34	5,211.50	5,129.79	52.03	22.99	-144.28	1,366.12	-435.14	2,668.49	2,613.35	55.14	48.392		
5,700.00	4,933.63	5,294.69	5,211.79	53.28	23.37	-144.71	1,375.99	-425.23	2,710.10	2,654.09	56.00	48.392		
5,800.00	5,013.92	5,332.66	5,444.92	54.53	24.53	-145.83	1,406.53	-388.93	2,747.94	2,690.00	57.93	47.434		
5,900.00	5,094.21	5,612.32	5,522.37	55.77	24.94	-146.13	1,419.12	-375.22	2,785.26	2,726.42	58.84	47.333		
6,000.00	5,174.51	5,690.82	5,599.07	57.02	25.33	-146.46	1,429.38	-362.06	2,822.95	2,763.24	59.71	47.280		
6,100.00	5,254.80	5,762.89	5,669.72	58.27	25.68	-146.79	1,437.75	-350.54	2,861.37	2,800.88	60.49	47.299		
6,200.00	5,335.09	5,859.54	5,764.54	59.52	26.15	-147.22	1,448.63	-335.32	2,900.13	2,838.70	61.43	47.210		
6,300.00	5,415.38	5,926.00	5,829.43	60.76	26.48	-147.48	1,458.01	-324.45	2,938.74	2,876.54	62.20	47.246		
6,400.00	5,495.68	5,974.77	5,877.05	62.01	26.72	-147.65	1,465.44	-316.99	2,978.57	2,915.73	62.84	47.396		
6,500.00	5,575.97	6,015.00	5,916.55	63.26	26.92	-147.80	1,471.04	-311.87	3,020.33	2,956.93	63.40	47.641		
6,600.00	5,656.26	6,094.28	5,994.67	64.51	27.28	-148.12	1,480.93	-302.60	3,063.17	2,998.97	64.21	47.709		
6,700.00	5,736.55	6,700.00	6,172.96	65.76	30.19	-148.82	1,503.07	-277.58	3,103.87	3,036.29	67.57	45.934		
6,800.00	5,816.85	6,341.34	6,237.25	67.01	28.45	-149.05	1,512.05	-267.85	3,144.23	3,077.76	66.47	47.300		
6,900.00	5,897.14	6,411.18	6,305.91	68.26	28.78	-149.30	1,520.61	-258.41	3,185.71	3,118.49	67.22	47.394		
7,000.00	5,977.43	7,000.00	6,425.01	69.50	31.60	-149.72	1,536.22	-241.35	3,226.79	3,156.46	70.33	45.879		
7,100.00	6,057.72	6,664.07	6,553.93	70.75	30.00	-150.17	1,552.47	-220.76	3,266.31	3,196.80	69.51	46.992		
7,200.00	6,138.02	6,728.00	6,616.49	72.00	30.31	-150.37	1,561.55	-211.23	3,306.71	3,236.48	70.23	47.083		
7,300.00	6,218.31	6,795.03	6,682.03	73.25	30.64	-150.55	1,571.89	-201.73	3,347.86	3,276.87	70.99	47.159		
7,400.00	6,298.60	7,244.94	7,120.47	74.50	32.65	-152.59	1,589.63	-115.85	3,385.59	3,312.27	73.32	46.175		
7,500.00	6,378.90	7,263.00	7,137.67	75.75	32.71	-152.73	1,586.15	-111.55	3,418.38	3,344.67	73.71	46.379		
7,600.00	6,459.19	7,263.00	7,137.67	77.00	32.71	-152.73	1,586.15	-111.55	3,453.67	3,379.62	74.05	46.640		
7,700.00	6,539.48	7,310.25	7,182.82	78.25	32.83	-153.13	1,576.47	-101.57	3,489.97	3,415.64	74.34	46.949		
7,800.00	6,619.77	7,352.00	7,223.08	79.50	32.94	-153.48	1,567.86	-94.67	3,529.31	3,454.70	74.61	47.307		
7,900.00	6,700.07	7,352.00	7,223.08	80.75	32.94	-153.48	1,567.86	-94.67	3,569.87	3,495.03	74.84	47.702		
8,000.00	6,780.36	7,406.95	7,276.16	82.00	33.06	-153.93	1,556.09	-86.70	3,612.41	3,537.34	75.06	48.124		
8,100.00	6,860.65	7,838.18	7,660.74	83.25	33.75	-158.45	1,389.47	-2.99	3,651.52	3,577.27	74.25	49.176		
8,200.00	6,940.94	7,857.86	7,675.71	84.50	33.76	-158.71	1,377.50	1.52	3,689.13	3,614.71	74.43	49.568		
8,300.00	7,021.24	7,887.00	7,697.24	85.76	33.78	-159.11	1,358.90	7.77	3,728.82	3,654.31	74.51	50.046		
8,400.00	7,101.53	7,887.00	7,697.24	87.01	33.78	-159.11	1,358.90	7.77	3,770.40	3,695.69	74.71	50.466		
8,500.00	7,181.82	7,887.00	7,697.24	88.26	33.78	-159.11	1,358.90	7.77	3,814.16	3,739.28	74.88	50.938		
8,605.60	7,266.61	7,887.00	7,697.24	89.58	33.78	-159.11	1,358.90	7.77	3,862.63	3,787.62	75.01	51.493		
8,650.00	7,302.60	7,922.93	7,722.62	90.13	33.77	-167.78	1,334.44	14.68	3,882.96	3,808.08	74.88	51.858		
8,700.00	7,343.78	7,929.58	7,727.17	90.72	33.77	-177.62	1,329.72	15.86	3,906.60	3,831.71	74.89	52.164		
8,750.00	7,385.32	7,936.79	7,732.04	91.28	33.77	172.20	1,324.55	17.09	3,930.25	3,855.36	74.89	52.480		
8,800.00	7,426.92	7,976.00	7,757.43	91.81	33.76	161.68	1,295.29	23.08	3,954.27	3,879.56	74.71	52.930		
8,850.00	7,468.27	7,976.00	7,757.43	92.29	33.76	151.94	1,295.29	23.08	3,977.13	3,902.40	74.73	53.220		
8,900.00	7,509.04	7,976.00	7,757.43	92.72	33.76	142.80	1,295.29	23.08	3,999.51	3,924.76	74.74	53.509		
8,950.00	7,548.93	7,976.00	7,757.43	93.10	33.76	134.42	1,295.29	23.08	4,021.23	3,946.48	74.75	53.794		
9,000.00	7,587.63	7,976.00	7,757.43	93.43	33.76	126.91	1,295.29	23.08	4,042.16	3,967.40	74.76	54.070		
9,050.00	7,624.85	7,976.00	7,757.43	93.71	33.76	120.27	1,295.29	23.08	4,062.14	3,987.37	74.76	54.333		
9,100.00	7,660.30	7,976.00	7,757.43	93.93	33.76	114.46	1,295.29	23.08	4,081.03	4,006.26	74.77	54.579		
9,150.00	7,693.72	8,010.97	7,778.38	94.10	33.72	109.35	1,267.65	27.45	4,098.07	4,023.47	74.59	54.940		
9,200.00	7,724.85	8,021.80	7,784.52	94.23	33.71	105.03	1,258.80	28.63	4,113.95	4,039.40	74.56	55.180		
9,250.00	7,753.45	8,065.00	7,807.24	94.30	33.67	101.33	1,222.28	32.48	4,128.82	4,054.50	74.33	55.550		
9,300.00	7,779.31	8,065.00	7,807.24	94.34	33.67	98.27	1,222.28	32.48	4,141.16	4,066.78	74.39	55.671		
9,350.00	7,802.23	8,065.00	7,807.24	94.33	33.67	95.73	1,222.28	32.48	4,151.88	4,077.41	74.47	55.753		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,065.00	7,807.24	94.28	33.67	93.65	1,222.28	32.48	4,160.91	4,086.33	74.58	55.792		
9,450.00	7,838.57	8,065.00	7,807.24	94.20	33.67	92.00	1,222.28	32.48	4,168.19	4,093.47	74.72	55.784		
9,500.00	7,851.72	8,065.00	7,807.24	94.10	33.67	90.76	1,222.28	32.48	4,173.68	4,098.78	74.89	55.728		
9,550.00	7,861.37	8,099.63	7,823.10	93.96	33.60	90.05	1,191.58	34.59	4,176.72	4,101.87	74.85	55.802		
9,600.00	7,867.46	8,110.75	7,827.67	93.81	33.58	89.64	1,181.46	35.08	4,178.07	4,103.07	75.00	55.705		
9,650.00	7,869.94	8,121.78	7,831.95	93.64	33.56	89.61	1,171.29	35.49	4,177.45	4,102.26	75.19	55.559		
9,651.32	7,869.96	8,122.07	7,832.06	93.63	33.56	89.61	1,171.02	35.50	4,177.41	4,102.21	75.20	55.554		
9,659.14	7,870.00	8,154.00	7,842.94	93.60	33.50	89.78	1,141.02	36.15	4,177.58	4,102.61	74.97	55.720		
9,700.00	7,870.00	8,154.00	7,842.94	93.46	33.50	89.78	1,141.02	36.15	4,175.90	4,100.68	75.22	55.517		
9,800.00	7,870.00	8,154.00	7,842.94	93.11	33.50	89.78	1,141.02	36.15	4,173.47	4,097.63	75.84	55.029		
9,881.72	7,870.00	8,181.39	7,850.43	92.83	33.43	89.88	1,114.69	36.21	4,172.98	4,096.85	76.13	54.817		
9,900.00	7,870.00	8,187.17	7,851.78	92.77	33.42	89.90	1,109.06	36.18	4,173.02	4,096.84	76.19	54.774		
10,000.00	7,870.00	8,243.00	7,860.57	92.46	33.30	90.02	1,053.99	34.99	4,174.44	4,098.14	76.30	54.709		
10,100.00	7,870.00	8,260.40	7,861.97	92.16	33.26	90.04	1,036.66	34.36	4,177.04	4,100.23	76.82	54.378		
10,200.00	7,870.00	8,333.00	7,864.91	91.87	33.10	90.08	964.20	31.21	4,180.98	4,104.20	76.79	54.449		
10,300.00	7,870.00	8,836.00	7,855.48	91.60	33.61	89.95	461.74	30.85	4,182.52	4,107.58	74.93	55.818		
10,400.00	7,870.00	8,873.68	7,854.19	91.34	33.80	89.93	424.12	32.73	4,177.53	4,102.00	75.53	55.313		
10,500.00	7,870.00	8,925.00	7,852.52	91.11	34.10	89.91	372.85	33.72	4,174.68	4,098.53	76.15	54.823		
10,600.00	7,870.00	8,925.00	7,852.52	90.88	34.10	89.91	372.85	33.72	4,173.01	4,096.23	76.78	54.353		
10,619.83	7,870.00	8,925.00	7,852.52	90.84	34.10	89.91	372.85	33.72	4,172.96	4,096.05	76.91	54.259		
10,700.00	7,870.00	8,957.77	7,851.55	90.67	34.30	89.90	340.09	33.51	4,173.34	4,095.88	77.45	53.882		
10,800.00	7,870.00	9,014.00	7,850.20	90.48	34.66	89.88	283.90	31.89	4,175.49	4,097.32	78.17	53.413		
10,900.00	7,870.00	9,034.46	7,849.78	90.31	34.79	89.87	263.46	31.00	4,178.81	4,099.92	78.89	52.973		
11,000.00	7,870.00	9,119.37	7,847.97	90.15	35.39	89.85	178.67	27.02	4,183.15	4,103.40	79.75	52.450		
11,100.00	7,870.00	9,259.22	7,844.92	90.00	36.52	89.81	38.98	21.01	4,187.12	4,106.15	80.97	51.710		
11,200.00	7,870.00	9,380.12	7,842.28	89.88	37.60	89.77	-81.81	16.73	4,190.33	4,108.00	82.32	50.901		
11,300.00	7,870.00	9,479.07	7,840.12	89.77	38.56	89.74	-180.68	13.49	4,193.28	4,109.58	83.70	50.100		
11,400.00	7,870.00	11,400.00	7,821.73	89.68	64.23	89.49	-952.71	50.64	4,187.39	4,077.09	110.30	37.963		
11,500.00	7,870.00	10,294.53	7,820.60	89.60	48.60	89.47	-993.57	55.72	4,174.93	4,079.51	95.42	43.754		
11,600.00	7,870.00	10,350.00	7,819.01	89.55	49.38	89.45	-1,048.75	61.17	4,164.36	4,067.44	96.93	42.964		
11,700.00	7,870.00	10,350.00	7,819.01	89.52	49.38	89.45	-1,048.75	61.17	4,154.95	4,057.48	97.48	42.624		
11,800.00	7,870.00	10,383.03	7,818.07	89.50	49.84	89.43	-1,081.68	63.58	4,147.48	4,048.86	98.61	42.058		
11,900.00	7,870.00	10,674.10	7,810.27	89.51	54.04	89.32	-1,371.59	86.43	4,140.74	4,036.14	104.60	39.587		
12,000.00	7,870.00	10,718.08	7,809.04	89.54	54.69	89.30	-1,415.32	90.88	4,130.25	4,024.23	106.02	38.958		
12,100.00	7,870.00	10,796.00	7,806.82	89.59	55.86	89.27	-1,492.88	98.07	4,120.70	4,012.57	108.13	38.108		
12,200.00	7,870.00	10,796.00	7,806.82	89.66	55.86	89.27	-1,492.88	98.07	4,112.55	4,003.88	108.68	37.843		
12,300.00	7,870.00	10,850.34	7,805.27	89.77	56.67	89.25	-1,547.05	101.99	4,105.55	3,995.23	110.32	37.213		
12,400.00	7,870.00	10,885.00	7,804.30	89.89	57.19	89.23	-1,581.66	103.54	4,100.61	3,989.04	111.57	36.754		
12,500.00	7,870.00	10,885.00	7,804.30	90.05	57.19	89.23	-1,581.66	103.54	4,097.58	3,985.49	112.09	36.556		
12,600.00	7,870.00	10,944.37	7,802.62	90.24	58.06	89.21	-1,640.99	104.70	4,095.71	3,981.87	113.84	35.978		
12,663.03	7,870.00	10,974.00	7,801.78	90.37	58.50	89.20	-1,670.61	104.64	4,095.55	3,980.76	114.78	35.681		
12,700.00	7,870.00	10,974.00	7,801.78	90.46	58.50	89.20	-1,670.61	104.64	4,095.71	3,980.75	114.96	35.627		
12,800.00	7,870.00	11,005.60	7,800.87	90.71	58.95	89.19	-1,702.19	104.04	4,097.41	3,981.29	116.11	35.288		
12,900.00	7,870.00	11,063.00	7,799.28	90.99	59.78	89.17	-1,759.50	101.37	4,101.22	3,983.41	117.81	34.811		
13,000.00	7,870.00	11,063.00	7,799.28	91.32	59.78	89.17	-1,759.50	101.37	4,106.05	3,987.79	118.26	34.722		
13,100.00	7,870.00	11,091.89	7,798.52	91.68	60.19	89.15	-1,788.31	99.28	4,112.96	3,993.65	119.31	34.473		
13,200.00	7,870.00	11,121.73	7,797.77	92.08	60.61	89.14	-1,818.02	96.63	4,121.57	4,001.20	120.37	34.242		
13,300.00	7,870.00	11,929.33	7,801.41	92.52	72.92	89.20	-2,622.23	91.55	4,117.47	3,977.43	140.04	29.402		
13,400.00	7,870.00	11,991.46	7,801.87	93.00	73.93	89.20	-2,684.22	95.65	4,110.43	3,968.31	142.12	28.922		
13,500.00	7,870.00	12,077.86	7,802.71	93.53	75.34	89.21	-2,770.44	101.07	4,103.82	3,959.00	144.82	28.337		
13,600.00	7,870.00	12,170.39	7,803.56	94.10	76.85	89.22	-2,862.82	106.47	4,097.63	3,949.93	147.70	27.744		
13,700.00	7,870.00	12,285.40	7,804.62	94.72	78.73	89.24	-2,977.61	113.51	4,091.15	3,939.98	151.17	27.064		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,800.00	7,870.00	12,382.30	7,805.45	95.38	80.33	89.25	-3,074.31	119.56	4,084.56	3,930.37	154.19	26.490		
13,900.00	7,870.00	12,510.18	7,806.53	96.09	82.45	89.26	-3,201.91	127.84	4,077.75	3,919.70	158.05	25.800		
14,000.00	7,870.00	12,756.00	7,807.58	96.84	86.57	89.27	-3,446.85	148.46	4,069.43	3,904.39	165.04	24.658		
14,100.00	7,870.00	12,756.00	7,807.58	97.64	86.57	89.27	-3,446.85	148.46	4,059.85	3,894.26	165.60	24.516		
14,200.00	7,870.00	12,810.08	7,807.69	98.48	87.48	89.27	-3,500.71	153.26	4,051.28	3,883.72	167.56	24.178		
14,300.00	7,870.00	12,845.00	7,807.89	99.37	88.07	89.27	-3,535.58	155.22	4,045.02	3,876.03	168.99	23.937		
14,400.00	7,870.00	12,845.00	7,807.89	100.30	88.07	89.27	-3,535.58	155.22	4,040.62	3,871.20	169.42	23.850		
14,500.00	7,870.00	12,888.94	7,808.24	101.26	88.79	89.28	-3,579.49	156.48	4,037.83	3,866.80	171.03	23.609		
14,600.00	7,870.00	12,934.00	7,808.64	102.27	89.53	89.29	-3,624.55	156.46	4,037.09	3,864.45	172.64	23.384		
14,700.00	7,870.00	13,151.56	7,809.23	103.31	93.13	89.29	-3,842.05	160.44	4,034.57	3,855.40	179.17	22.518		
14,800.00	7,870.00	13,232.82	7,809.54	104.38	94.49	89.30	-3,923.28	162.58	4,031.56	3,849.70	181.86	22.168		
14,900.00	7,870.00	13,314.06	7,809.93	105.49	95.84	89.30	-4,004.49	164.62	4,028.76	3,844.21	184.55	21.830		
15,000.00	7,870.00	13,380.00	7,810.19	106.63	96.94	89.31	-4,070.43	165.45	4,027.03	3,840.23	186.80	21.558		
15,100.00	7,870.00	13,534.06	7,810.79	107.80	99.51	89.31	-4,224.47	167.68	4,025.47	3,833.86	191.61	21.009		
15,200.00	7,870.00	13,637.45	7,810.99	109.00	101.25	89.32	-4,327.81	170.55	4,022.35	3,827.38	194.97	20.631		
15,300.00	7,870.00	13,693.96	7,810.99	110.22	102.20	89.32	-4,384.31	171.78	4,019.86	3,822.91	196.96	20.410		
15,400.00	7,870.00	13,751.97	7,811.18	111.47	103.17	89.32	-4,442.32	172.33	4,018.53	3,819.56	198.98	20.196		
15,500.00	7,870.00	13,826.00	7,811.59	112.74	104.41	89.32	-4,516.35	172.53	4,017.95	3,816.48	201.47	19.943		
15,535.34	7,870.00	13,846.22	7,811.73	113.19	104.75	89.33	-4,536.57	172.48	4,017.92	3,815.75	202.17	19.874		
15,600.00	7,870.00	13,877.96	7,812.00	114.03	105.28	89.33	-4,568.30	172.19	4,018.29	3,815.02	203.28	19.768		
15,700.00	7,870.00	14,093.00	7,815.99	115.34	108.89	89.39	-4,783.28	173.11	4,017.12	3,807.04	210.07	19.122		
15,800.00	7,870.00	14,171.34	7,817.91	116.68	110.22	89.41	-4,861.59	173.97	4,015.62	3,802.88	212.74	18.876		
15,900.00	7,870.00	14,605.11	7,829.11	118.02	117.66	89.57	-5,294.60	192.89	4,013.45	3,787.65	225.80	17.774		
16,000.00	7,870.00	14,663.17	7,830.48	119.39	118.67	89.59	-5,352.40	198.11	4,004.20	3,776.19	228.01	17.561		
16,100.00	7,870.00	14,717.00	7,831.74	120.77	119.60	89.61	-5,406.07	202.11	3,996.30	3,766.22	230.09	17.369		
16,200.00	7,870.00	14,717.00	7,831.74	122.17	119.60	89.61	-5,406.07	202.11	3,990.09	3,759.54	230.55	17.307		
16,300.00	7,870.00	14,767.68	7,832.91	123.58	120.47	89.62	-5,456.67	204.64	3,985.24	3,752.79	232.44	17.145		
16,400.00	7,870.00	15,011.52	7,835.99	125.00	124.69	89.67	-5,700.10	217.19	3,979.80	3,739.74	240.07	16.578		
16,500.00	7,870.00	15,073.00	7,836.36	126.43	125.76	89.67	-5,761.47	220.72	3,973.43	3,731.09	242.33	16.396		
16,600.00	7,870.00	15,073.00	7,836.36	127.88	125.76	89.67	-5,761.47	220.72	3,968.31	3,725.57	242.74	16.348		
16,700.00	7,870.00	15,120.07	7,836.79	129.34	126.56	89.68	-5,808.51	222.28	3,964.88	3,720.40	244.49	16.217		
16,800.00	7,870.00	15,162.00	7,837.18	130.81	127.28	89.68	-5,850.44	222.78	3,963.20	3,717.16	246.04	16.108		
16,842.44	7,870.00	15,162.00	7,837.18	131.43	127.28	89.68	-5,850.44	222.78	3,962.97	3,716.86	246.11	16.102		
16,900.00	7,870.00	15,162.00	7,837.18	132.28	127.28	89.68	-5,850.44	222.78	3,963.39	3,717.22	246.17	16.100		
17,000.00	7,870.00	15,216.66	7,837.68	133.77	128.21	89.69	-5,905.08	222.02	3,964.87	3,716.86	248.02	15.986		
17,100.00	7,870.00	15,251.00	7,837.97	135.27	128.78	89.70	-5,939.40	220.68	3,968.35	3,719.20	249.15	15.928		
17,200.00	7,870.00	15,294.38	7,838.31	136.77	129.51	89.70	-5,982.71	218.31	3,973.37	3,722.84	250.53	15.860		
17,300.00	7,870.00	15,355.92	7,838.77	138.28	130.53	89.71	-6,044.11	214.18	3,979.67	3,727.16	252.51	15.760		
17,400.00	7,870.00	15,474.14	7,839.72	139.80	132.49	89.72	-6,162.08	206.63	3,985.64	3,729.15	256.49	15.539		
17,500.00	7,870.00	15,552.95	7,840.09	141.33	133.80	89.73	-6,240.70	201.20	3,992.17	3,733.09	259.08	15.409		
17,600.00	7,870.00	15,630.78	7,840.34	142.86	135.09	89.73	-6,318.33	195.67	3,998.98	3,737.36	261.63	15.285		
17,700.00	7,870.00	15,697.00	7,840.87	144.40	136.19	89.74	-6,384.32	190.12	4,006.89	3,743.15	263.75	15.192		
17,800.00	7,870.00	15,697.00	7,840.87	145.95	136.19	89.74	-6,384.32	190.12	4,016.20	3,752.82	263.38	15.249		
17,900.00	7,870.00	16,320.00	7,845.87	147.50	146.63	89.81	-7,002.09	168.41	4,014.52	3,729.87	284.66	14.103		
17,994.27	7,870.00	16,320.00	7,845.87	148.97	146.63	89.81	-7,002.09	168.41	4,013.42	3,728.56	284.86	14.089		
18,000.00	7,870.00	16,320.00	7,845.87	149.06	146.63	89.81	-7,002.09	168.41	4,013.42	3,728.55	284.87	14.089		
18,100.00	7,870.00	16,320.00	7,845.87	150.63	146.63	89.81	-7,002.09	168.41	4,014.81	3,729.88	284.93	14.091		
18,200.00	7,870.00	16,320.00	7,845.87	152.20	146.63	89.81	-7,002.09	168.41	4,018.69	3,733.85	284.84	14.109		
18,300.00	7,870.00	16,362.02	7,845.70	153.77	147.33	89.81	-7,044.07	166.61	4,023.73	3,737.60	286.13	14.063		
18,400.00	7,870.00	16,409.00	7,845.52	155.35	148.11	89.81	-7,090.81	162.00	4,032.00	3,744.45	287.55	14.022		
18,500.00	7,870.00	16,409.00	7,845.52	156.93	148.11	89.81	-7,090.81	162.00	4,041.09	3,753.95	287.14	14.074		
18,600.00	7,870.00	16,436.82	7,845.44	158.52	148.57	89.81	-7,118.42	158.51	4,052.58	3,764.89	287.68	14.087		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
18,700.00	7,870.00	16,561.98	7,845.07	160.11	150.62	89.80	-7,242.68	143.58	4,064.13	3,772.12	292.02	13.918	
18,800.00	7,870.00	16,645.16	7,843.89	161.71	151.99	89.79	-7,325.26	133.67	4,075.72	3,781.02	294.70	13.830	
18,900.00	7,870.00	16,778.44	7,840.47	163.31	154.18	89.74	-7,457.54	117.74	4,087.43	3,788.08	299.34	13.655	
19,000.00	7,870.00	16,874.52	7,837.32	164.91	155.76	89.70	-7,552.94	106.81	4,098.49	3,795.95	302.53	13.547	
19,100.00	7,870.00	16,964.28	7,833.70	166.52	157.24	89.65	-7,642.02	96.39	4,109.78	3,804.30	305.48	13.454	
19,200.00	7,870.00	17,082.81	7,828.36	168.13	159.20	89.57	-7,759.67	83.01	4,120.76	3,811.22	309.54	13.313	
19,300.00	7,870.00	17,186.61	7,823.04	169.75	160.92	89.50	-7,862.69	71.47	4,131.60	3,818.57	313.03	13.199	
19,383.51	7,870.00	17,287.80	7,817.44	171.10	162.60	89.42	-7,963.13	60.49	4,140.44	3,823.94	316.50	13.082 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 11-22H-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	-52.91	786.89	-1,040.74	1,304.78					
100.00	100.00	88.52	88.52	0.13	0.15	-52.91	786.84	-1,040.79	1,304.75	1,304.47	0.28	4,630.610		
200.00	200.00	187.97	187.97	0.49	0.31	-52.92	786.67	-1,041.00	1,304.80	1,304.00	0.81	1,619.305		
300.00	300.00	287.43	287.43	0.85	0.48	-52.94	786.37	-1,041.34	1,304.90	1,303.57	1.33	981.283		
400.00	400.00	385.09	385.09	1.21	0.77	-52.96	786.06	-1,041.80	1,305.09	1,303.12	1.98	659.924		
500.00	500.00	481.96	481.95	1.57	1.11	-52.98	786.05	-1,042.33	1,305.51	1,302.83	2.68	487.048		
600.00	600.00	577.76	577.76	1.93	1.45	-52.97	786.53	-1,042.80	1,306.21	1,302.83	3.37	387.134		
700.00	699.98	738.04	737.92	2.28	2.00	-116.72	788.82	-1,038.24	1,305.61	1,301.33	4.27	305.511		
800.00	799.84	851.65	851.03	2.64	2.39	-116.58	793.05	-1,028.58	1,303.39	1,298.37	5.02	259.546		
900.00	899.45	955.42	953.87	3.00	2.78	-116.39	800.20	-1,016.87	1,302.47	1,296.71	5.76	225.955		
961.97	961.01	1,025.00	1,022.53	3.23	3.05	-116.24	806.44	-1,007.45	1,302.35	1,296.10	6.26	208.093 CC		
1,000.00	998.70	1,065.85	1,062.68	3.37	3.23	-116.13	810.72	-1,001.26	1,302.44	1,295.87	6.57	198.291 ES		
1,100.00	1,097.47	1,172.69	1,167.27	3.76	3.69	-115.86	823.30	-983.44	1,303.30	1,295.90	7.40	176.057		
1,200.00	1,195.62	1,265.64	1,258.09	4.18	4.11	-115.68	834.87	-967.38	1,305.65	1,297.43	8.22	158.815		
1,300.00	1,293.06	1,371.23	1,360.49	4.63	4.61	-115.44	850.86	-947.22	1,309.72	1,300.57	9.15	143.127		
1,400.00	1,389.64	1,451.21	1,437.56	5.11	5.03	-115.23	864.79	-931.07	1,315.79	1,305.77	10.02	131.333		
1,500.00	1,485.27	1,591.18	1,572.30	5.63	5.77	-115.11	889.25	-902.14	1,323.22	1,311.98	11.24	117.744		
1,600.00	1,579.82	1,692.60	1,670.00	6.20	6.31	-115.17	904.37	-879.45	1,329.00	1,316.70	12.30	108.006		
1,700.00	1,673.17	1,797.30	1,770.93	6.83	6.88	-115.35	920.69	-856.95	1,337.45	1,324.01	13.43	99.550		
1,800.00	1,765.21	1,921.34	1,890.10	7.51	7.58	-115.72	939.02	-827.81	1,345.21	1,330.49	14.72	91.398		
1,900.00	1,855.84	1,992.00	1,958.18	8.24	7.97	-115.94	949.42	-812.02	1,355.49	1,339.72	15.77	85.978		
2,000.00	1,944.94	2,097.16	2,059.71	9.05	8.56	-116.48	964.79	-789.34	1,368.12	1,351.10	17.03	80.352		
2,100.00	2,032.39	2,186.74	2,146.19	9.91	9.05	-116.97	977.94	-770.06	1,382.58	1,364.33	18.25	75.763		
2,200.00	2,118.11	2,294.68	2,250.20	10.85	9.66	-117.70	993.67	-745.87	1,398.13	1,378.51	19.61	71.292		
2,300.00	2,201.97	2,368.63	2,321.63	11.85	10.07	-118.16	1,004.31	-729.94	1,416.35	1,395.53	20.82	68.026		
2,400.00	2,283.88	2,438.00	2,388.88	12.93	10.45	-118.60	1,014.61	-716.41	1,438.46	1,416.44	22.02	65.322		
2,429.47	2,307.63	2,452.11	2,402.58	13.26	10.52	-118.65	1,016.75	-713.84	1,445.73	1,423.39	22.34	64.715		
2,500.00	2,364.26	2,498.79	2,448.02	14.06	10.76	-119.27	1,023.81	-705.80	1,464.15	1,440.98	23.17	63.197		
2,600.00	2,444.56	2,565.08	2,512.70	15.22	11.10	-120.14	1,033.98	-695.38	1,492.13	1,467.81	24.32	61.348		
2,700.00	2,524.85	2,700.00	2,699.27	16.39	11.79	-122.51	1,062.11	-660.62	1,518.58	1,492.67	25.90	58.627		
2,800.00	2,605.14	2,864.00	2,802.26	17.57	12.72	-123.69	1,077.15	-635.99	1,541.10	1,513.49	27.62	55.805		
2,900.00	2,685.43	2,979.72	2,913.57	18.76	13.39	-124.93	1,092.94	-608.57	1,563.40	1,534.34	29.06	53.799		
3,000.00	2,765.73	3,049.86	2,981.25	19.96	13.79	-125.68	1,102.01	-592.59	1,586.76	1,556.52	30.23	52.483		
3,100.00	2,846.02	3,131.00	3,059.54	21.16	14.25	-126.53	1,113.16	-574.43	1,611.31	1,579.87	31.45	51.238		
3,200.00	2,926.31	3,200.22	3,126.40	22.37	14.63	-127.22	1,123.18	-559.52	1,637.36	1,604.79	32.57	50.267		
3,300.00	3,006.60	3,304.55	3,227.42	23.59	15.21	-128.26	1,138.25	-538.28	1,664.80	1,630.92	33.88	49.137		
3,400.00	3,086.90	3,376.45	3,297.03	24.81	15.60	-128.95	1,148.52	-523.53	1,692.44	1,657.47	34.97	48.390		
3,500.00	3,167.19	3,473.38	3,391.11	26.03	16.13	-129.88	1,162.15	-504.55	1,721.23	1,685.03	36.20	47.552		
3,600.00	3,247.48	3,546.38	3,461.76	27.25	16.53	-130.54	1,173.24	-489.95	1,750.41	1,713.14	37.27	46.969		
3,700.00	3,327.77	3,661.93	3,573.94	28.48	17.16	-131.57	1,189.90	-467.82	1,780.54	1,741.96	38.57	46.160		
3,800.00	3,408.07	3,734.69	3,644.47	29.71	17.55	-132.20	1,200.42	-453.38	1,810.31	1,770.70	39.61	45.708		
3,900.00	3,488.36	3,867.05	3,772.58	30.94	18.29	-133.27	1,220.26	-426.66	1,840.37	1,799.36	41.01	44.878		
4,000.00	3,568.65	4,006.82	3,907.31	32.17	19.09	-134.38	1,239.36	-394.79	1,867.76	1,825.33	42.42	44.029		
4,100.00	3,648.95	4,080.88	3,978.59	33.41	19.51	-134.95	1,249.19	-377.26	1,894.76	1,851.32	43.44	43.620		
4,200.00	3,729.24	4,141.00	4,036.84	34.64	19.85	-135.42	1,256.93	-364.53	1,923.98	1,879.64	44.34	43.391		
4,300.00	3,809.53	4,234.22	4,127.07	35.88	20.37	-136.11	1,270.19	-345.28	1,954.44	1,909.01	45.44	43.015		
4,400.00	3,889.82	4,280.48	4,171.82	37.12	20.62	-136.43	1,277.28	-335.95	1,985.80	1,939.57	46.22	42.959		
4,500.00	3,970.12	4,338.55	4,228.31	38.36	20.93	-136.84	1,285.87	-325.62	2,019.37	1,972.32	47.05	42.916		
4,600.00	4,050.41	4,479.61	4,365.21	39.60	21.69	-137.77	1,308.04	-299.87	2,053.26	2,004.80	48.46	42.367		
4,700.00	4,130.70	4,623.92	4,504.62	40.84	22.51	-138.68	1,329.55	-269.45	2,084.36	2,034.49	49.87	41.796		
4,800.00	4,210.99	4,729.70	4,606.49	42.08	23.12	-139.33	1,344.83	-245.38	2,114.03	2,063.02	51.01	41.441		
4,900.00	4,291.29	4,817.54	4,691.06	43.32	23.63	-139.84	1,357.80	-225.49	2,144.08	2,092.04	52.04	41.200		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 11-22H-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	4,371.58	4,934.73	4,803.90	44.57	24.31	-140.52	1,374.62	-198.72	2,174.12	2,120.88	53.24	40.839		
5,100.00	4,451.87	5,016.79	4,882.80	45.81	24.79	-140.98	1,386.45	-179.50	2,203.75	2,149.54	54.21	40.651		
5,200.00	4,532.16	5,081.65	4,945.25	47.05	25.17	-141.33	1,396.03	-164.86	2,234.42	2,179.35	55.06	40.579		
5,300.00	4,612.46	5,146.63	5,008.05	48.30	25.53	-141.68	1,405.53	-151.12	2,266.52	2,210.62	55.90	40.549		
5,400.00	4,692.75	5,223.86	5,082.67	49.54	25.97	-142.07	1,417.78	-135.41	2,299.70	2,242.89	56.81	40.480		
5,500.00	4,773.04	5,321.16	5,176.85	50.79	26.51	-142.57	1,432.14	-115.65	2,332.92	2,275.08	57.84	40.333		
5,600.00	4,853.34	5,388.00	5,241.74	52.03	26.87	-142.93	1,441.47	-102.64	2,366.97	2,308.33	58.63	40.369		
5,700.00	4,933.63	5,457.60	5,309.43	53.28	27.24	-143.29	1,451.30	-89.77	2,402.09	2,342.66	59.43	40.417		
5,800.00	5,013.92	5,617.61	5,464.45	54.53	28.12	-144.05	1,475.26	-58.25	2,436.27	2,375.37	60.89	40.008		
5,900.00	5,094.21	5,700.24	5,544.45	55.77	28.58	-144.45	1,486.73	-41.04	2,469.49	2,407.70	61.79	39.967		
6,000.00	5,174.51	5,772.87	5,614.96	57.02	28.97	-144.80	1,496.39	-26.53	2,503.57	2,440.98	62.59	39.999		
6,100.00	5,254.80	5,882.62	5,721.61	58.27	29.56	-145.33	1,510.85	-5.09	2,538.28	2,474.65	63.63	39.888		
6,200.00	5,335.09	6,004.37	5,839.51	59.52	30.24	-145.88	1,526.98	20.68	2,571.45	2,506.69	64.76	39.708		
6,300.00	5,415.38	6,103.15	5,935.08	60.76	30.79	-146.32	1,540.03	41.97	2,604.45	2,538.72	65.73	39.625		
6,400.00	5,495.68	6,168.94	5,998.80	62.01	31.15	-146.61	1,548.63	55.87	2,637.95	2,571.48	66.47	39.686		
6,500.00	5,575.97	6,251.05	6,078.55	63.26	31.60	-146.98	1,558.84	72.56	2,672.29	2,604.99	67.30	39.705		
6,600.00	5,656.26	6,326.08	6,151.31	64.51	32.01	-147.28	1,569.22	87.65	2,707.05	2,638.95	68.10	39.750		
6,700.00	5,736.55	6,457.83	6,278.98	65.76	32.73	-147.78	1,588.37	113.94	2,742.28	2,672.96	69.32	39.560		
6,800.00	5,816.85	6,554.45	6,372.24	67.01	33.28	-148.12	1,603.07	134.46	2,776.21	2,705.91	70.30	39.489		
6,900.00	5,897.14	6,602.43	6,418.72	68.26	33.54	-148.30	1,609.88	144.23	2,810.97	2,740.06	70.91	39.642		
7,000.00	5,977.43	6,749.68	6,561.38	69.50	34.36	-148.83	1,630.56	174.18	2,846.06	2,773.84	72.22	39.410		
7,100.00	6,057.72	7,221.53	7,008.82	70.75	36.96	-151.13	1,657.84	300.25	2,876.48	2,802.16	74.31	38.707		
7,200.00	6,138.02	7,260.00	7,043.69	72.00	37.09	-151.58	1,645.83	311.16	2,899.77	2,825.14	74.63	38.858		
7,300.00	6,218.31	7,260.00	7,043.69	73.25	37.09	-151.58	1,645.83	311.16	2,925.39	2,850.30	75.09	38.958		
7,400.00	6,298.60	7,260.00	7,043.69	74.50	37.09	-151.58	1,645.83	311.16	2,954.17	2,878.70	75.48	39.140		
7,500.00	6,378.90	7,300.36	7,080.18	75.75	37.16	-152.08	1,631.56	320.81	2,984.86	2,909.28	75.58	39.494		
7,600.00	6,459.19	7,349.00	7,124.14	77.00	37.24	-152.70	1,612.87	329.95	3,019.21	2,943.62	75.58	39.946		
7,700.00	6,539.48	7,349.00	7,124.14	78.25	37.24	-152.70	1,612.87	329.95	3,054.78	2,978.98	75.80	40.300		
7,800.00	6,619.77	7,349.00	7,124.14	79.50	37.24	-152.70	1,612.87	329.95	3,093.17	3,017.22	75.95	40.724		
7,900.00	6,700.07	7,375.39	7,147.85	80.75	37.26	-153.04	1,602.00	333.96	3,133.99	3,058.06	75.93	41.275		
8,000.00	6,780.36	7,399.64	7,169.44	82.00	37.28	-153.37	1,591.47	337.28	3,176.88	3,101.01	75.87	41.871		
8,100.00	6,860.65	7,438.00	7,203.18	83.25	37.30	-153.89	1,573.80	341.83	3,221.94	3,146.22	75.71	42.554		
8,200.00	6,940.94	7,457.10	7,219.77	84.50	37.30	-154.16	1,564.54	343.88	3,268.74	3,193.14	75.61	43.234		
8,300.00	7,021.24	7,518.62	7,272.10	85.76	37.31	-155.04	1,532.91	350.54	3,317.02	3,241.76	75.26	44.073		
8,400.00	7,101.53	7,636.98	7,366.32	87.01	37.29	-156.85	1,462.91	364.93	3,365.83	3,291.31	74.52	45.166		
8,500.00	7,181.82	7,675.58	7,394.53	88.26	37.27	-157.48	1,437.07	369.98	3,415.87	3,341.67	74.20	46.036		
8,605.60	7,266.61	7,705.00	7,415.06	89.58	37.26	-157.97	1,416.34	373.80	3,470.55	3,396.64	73.91	46.958		
8,650.00	7,302.60	7,705.00	7,415.06	90.13	37.26	-166.57	1,416.34	373.80	3,494.16	3,420.30	73.86	47.306		
8,700.00	7,343.78	7,732.81	7,433.62	90.72	37.23	-177.25	1,395.94	377.34	3,520.85	3,447.23	73.63	47.821		
8,750.00	7,385.32	7,747.03	7,442.78	91.28	37.21	171.97	1,385.21	379.10	3,547.62	3,474.14	73.48	48.280		
8,800.00	7,426.92	7,762.15	7,452.26	91.81	37.20	161.21	1,373.58	380.94	3,574.17	3,500.84	73.33	48.743		
8,850.00	7,468.27	7,794.00	7,471.35	92.29	37.17	150.64	1,348.36	384.68	3,600.35	3,527.30	73.05	49.286		
8,900.00	7,509.04	7,794.00	7,471.35	92.72	37.17	141.09	1,348.36	384.68	3,625.71	3,552.71	73.00	49.665		
8,950.00	7,548.93	7,794.00	7,471.35	93.10	37.17	132.34	1,348.36	384.68	3,650.37	3,577.41	72.96	50.031		
9,000.00	7,587.63	7,794.00	7,471.35	93.43	37.17	124.49	1,348.36	384.68	3,674.16	3,601.24	72.93	50.382		
9,050.00	7,624.85	7,794.00	7,471.35	93.71	37.17	117.55	1,348.36	384.68	3,696.92	3,624.02	72.90	50.711		
9,100.00	7,660.30	7,794.00	7,471.35	93.93	37.17	111.47	1,348.36	384.68	3,718.49	3,645.60	72.89	51.015		
9,150.00	7,693.72	7,829.96	7,491.23	94.10	37.10	106.10	1,318.60	388.09	3,737.70	3,665.08	72.62	51.468		
9,200.00	7,724.85	7,837.70	7,495.25	94.23	37.09	101.58	1,312.01	388.64	3,755.99	3,683.41	72.59	51.746		
9,250.00	7,753.45	7,845.57	7,499.23	94.30	37.08	97.73	1,305.24	389.12	3,772.59	3,700.02	72.57	51.984		
9,300.00	7,779.31	7,883.00	7,516.80	94.34	37.01	94.47	1,272.23	390.49	3,788.09	3,715.77	72.33	52.376		
9,350.00	7,802.23	7,883.00	7,516.80	94.33	37.01	91.80	1,272.23	390.49	3,800.68	3,728.25	72.43	52.471		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 11-22H-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		
9,400.00	7,822.03	7,883.00	7,516.80	94.28	37.01	89.62	1,272.23	390.49	3,811.41	3,738.82	72.58	52.512		
9,450.00	7,838.57	7,883.00	7,516.80	94.20	37.01	87.87	1,272.23	390.49	3,820.19	3,747.42	72.77	52.497		
9,500.00	7,851.72	7,901.55	7,524.78	94.10	36.97	86.61	1,255.49	390.79	3,826.95	3,754.13	72.83	52.548		
9,550.00	7,861.37	7,956.29	7,546.73	93.96	36.85	85.91	1,205.36	391.92	3,831.14	3,758.57	72.57	52.790		
9,600.00	7,867.46	7,973.00	7,552.94	93.81	36.81	85.50	1,189.85	392.34	3,832.77	3,760.05	72.71	52.710		
9,650.00	7,869.94	7,973.00	7,552.94	93.64	36.81	85.40	1,189.85	392.34	3,832.31	3,759.24	73.06	52.451		
9,659.14	7,870.00	8,002.51	7,563.49	93.60	36.74	85.57	1,162.29	392.89	3,831.65	3,758.80	72.85	52.593		
9,700.00	7,870.00	8,015.16	7,567.88	93.46	36.71	85.64	1,150.43	392.99	3,830.00	3,756.95	73.04	52.435		
9,800.00	7,870.00	8,062.00	7,583.41	93.11	36.61	85.87	1,106.24	392.71	3,827.33	3,753.97	73.37	52.168		
9,900.00	7,870.00	8,111.16	7,598.68	92.77	36.50	86.10	1,059.52	391.89	3,826.10	3,752.39	73.72	51.904		
10,000.00	7,870.00	8,188.31	7,620.24	92.46	36.34	86.42	985.47	390.70	3,825.51	3,751.66	73.84	51.805		
10,016.04	7,870.00	8,198.63	7,622.63	92.41	36.32	86.46	975.44	390.53	3,825.49	3,751.61	73.89	51.774		
10,100.00	7,870.00	8,258.44	7,633.85	92.16	36.21	86.63	916.72	389.42	3,825.81	3,751.77	74.04	51.671		
10,200.00	7,870.00	8,345.78	7,643.63	91.87	36.07	86.77	829.96	387.86	3,826.62	3,752.50	74.12	51.626		
10,300.00	7,870.00	8,435.84	7,651.53	91.60	35.97	86.89	740.27	385.93	3,827.93	3,753.65	74.29	51.530		
10,400.00	7,870.00	8,668.89	7,660.12	91.34	36.05	87.02	507.50	386.88	3,826.35	3,752.32	74.03	51.685		
10,500.00	7,870.00	8,764.16	7,660.37	91.11	36.27	87.02	412.24	388.59	3,824.21	3,749.61	74.60	51.264		
10,600.00	7,870.00	8,869.72	7,660.58	90.88	36.65	87.02	306.71	390.46	3,822.09	3,746.77	75.32	50.744		
10,700.00	7,870.00	8,978.81	7,660.39	90.67	37.20	87.02	197.63	392.79	3,819.62	3,743.40	76.23	50.109		
10,800.00	7,870.00	9,070.59	7,660.36	90.48	37.80	87.02	105.87	394.51	3,817.40	3,740.17	77.23	49.430		
10,900.00	7,870.00	9,179.26	7,660.19	90.31	38.63	87.01	-2.77	396.87	3,814.89	3,736.45	78.45	48.631		
11,000.00	7,870.00	9,274.11	7,660.13	90.15	39.44	87.01	-97.60	398.80	3,812.53	3,732.81	79.72	47.825		
11,100.00	7,870.00	9,405.97	7,660.12	90.00	40.71	87.01	-229.43	401.84	3,809.92	3,728.48	81.44	46.784		
11,200.00	7,870.00	9,487.00	7,659.13	89.88	41.55	86.99	-310.41	404.15	3,806.84	3,724.01	82.83	45.961		
11,300.00	7,870.00	9,546.02	7,657.72	89.77	42.18	86.97	-369.41	405.43	3,804.56	3,720.52	84.04	45.270		
11,400.00	7,870.00	9,606.10	7,656.36	89.68	42.84	86.95	-429.46	405.87	3,803.57	3,718.27	85.30	44.591		
11,500.00	7,870.00	9,691.73	7,657.51	89.60	43.80	86.96	-515.08	405.72	3,803.32	3,716.39	86.93	43.753		
11,600.00	7,870.00	9,795.47	7,660.26	89.55	45.00	87.00	-618.79	405.59	3,802.96	3,714.07	88.89	42.784		
11,700.00	7,870.00	9,921.77	7,663.13	89.52	46.53	87.05	-745.05	405.46	3,802.67	3,711.39	91.29	41.656		
11,800.00	7,870.00	10,098.32	7,667.54	89.50	48.79	87.11	-921.52	408.30	3,800.52	3,705.82	94.70	40.134		
11,900.00	7,870.00	10,199.00	7,669.78	89.51	50.13	87.14	-1,022.13	411.41	3,796.99	3,700.01	96.98	39.153		
12,000.00	7,870.00	10,240.13	7,670.30	89.54	50.68	87.15	-1,063.24	412.39	3,794.54	3,696.32	98.22	38.633		
12,065.03	7,870.00	10,258.84	7,670.36	89.57	50.93	87.15	-1,081.95	412.48	3,794.00	3,695.11	98.89	38.368		
12,100.00	7,870.00	10,288.00	7,670.22	89.59	51.32	87.15	-1,111.11	412.17	3,794.20	3,694.62	99.58	38.101		
12,102.49	7,870.00	10,288.00	7,670.22	89.59	51.32	87.15	-1,111.11	412.17	3,794.20	3,694.61	99.59	38.097		
12,200.00	7,870.00	10,381.70	7,669.06	89.66	52.58	87.13	-1,204.79	411.08	3,795.04	3,693.23	101.81	37.277		
12,300.00	7,870.00	10,560.34	7,665.06	89.77	55.07	87.07	-1,383.38	412.01	3,794.44	3,688.66	105.78	35.870		
12,400.00	7,870.00	10,632.20	7,663.01	89.89	56.09	87.04	-1,455.20	412.98	3,792.88	3,685.18	107.71	35.214		
12,500.00	7,870.00	10,734.00	7,659.75	90.05	57.56	86.99	-1,556.94	414.56	3,791.16	3,680.87	110.29	34.374		
12,600.00	7,870.00	10,789.11	7,657.85	90.24	58.36	86.96	-1,612.01	415.18	3,790.15	3,678.25	111.90	33.871		
12,605.46	7,870.00	10,791.18	7,657.78	90.25	58.39	86.96	-1,614.08	415.18	3,790.15	3,678.18	111.97	33.850		
12,700.00	7,870.00	10,853.13	7,655.55	90.46	59.29	86.92	-1,675.99	414.53	3,790.84	3,677.13	113.71	33.338		
12,800.00	7,870.00	11,018.28	7,649.23	90.71	61.73	86.83	-1,841.01	414.64	3,790.52	3,672.69	117.83	32.170		
12,842.71	7,870.00	11,028.63	7,648.76	90.82	61.88	86.82	-1,851.35	414.60	3,790.42	3,672.18	118.24	32.058		
12,900.00	7,870.00	11,057.09	7,647.44	90.99	62.30	86.80	-1,879.78	414.47	3,790.63	3,671.53	119.11	31.826		
13,000.00	7,870.00	11,144.76	7,642.76	91.32	63.61	86.73	-1,967.31	413.29	3,791.89	3,670.37	121.52	31.205		
13,100.00	7,870.00	11,285.17	7,634.45	91.68	65.73	86.61	-2,107.47	412.80	3,792.17	3,666.95	125.22	30.284		
13,200.00	7,870.00	11,343.49	7,630.78	92.08	66.61	86.55	-2,165.68	412.48	3,792.75	3,665.77	126.98	29.870		
13,300.00	7,870.00	11,458.65	7,623.46	92.52	68.37	86.44	-2,280.60	411.28	3,793.87	3,663.73	130.15	29.151		
13,400.00	7,870.00	11,514.43	7,619.66	93.00	69.23	86.38	-2,336.25	410.50	3,795.28	3,663.43	131.86	28.783		
13,500.00	7,870.00	11,585.78	7,614.92	93.53	70.32	86.31	-2,407.42	408.89	3,797.61	3,663.65	133.96	28.349		
13,600.00	7,870.00	11,724.13	7,608.71	94.10	72.45	86.22	-2,545.58	405.42	3,800.19	3,662.35	137.84	27.570		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 11-22H-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		
13,700.00	7,870.00	11,870.89	7,601.75	94.72	74.75	86.12	-2,692.17	403.92	3,801.18	3,659.18	142.00	26.769		
13,800.00	7,870.00	11,981.00	7,596.67	95.38	76.49	86.04	-2,802.16	404.05	3,800.99	3,655.76	145.23	26.172		
13,817.59	7,870.00	12,003.88	7,595.63	95.50	76.85	86.03	-2,825.02	404.14	3,800.89	3,654.99	145.90	26.051		
13,900.00	7,870.00	12,038.19	7,593.92	96.09	77.39	86.00	-2,859.28	403.91	3,801.44	3,654.39	147.05	25.852		
14,000.00	7,870.00	12,113.49	7,589.59	96.84	78.59	85.94	-2,934.44	402.39	3,803.41	3,654.06	149.35	25.466		
14,100.00	7,870.00	12,243.05	7,581.44	97.64	80.65	85.82	-3,063.74	400.73	3,804.76	3,651.60	153.16	24.842		
14,200.00	7,870.00	12,356.58	7,575.83	98.48	82.46	85.73	-3,177.12	399.53	3,805.85	3,649.28	156.57	24.308		
14,300.00	7,870.00	12,515.28	7,573.71	99.37	85.02	85.70	-3,335.80	399.18	3,805.80	3,644.46	161.34	23.589		
14,400.00	7,870.00	12,639.33	7,572.14	100.30	87.04	85.68	-3,459.84	400.16	3,804.77	3,639.61	165.16	23.037		
14,500.00	7,870.00	12,720.42	7,571.10	101.26	88.37	85.66	-3,540.92	401.11	3,803.42	3,635.67	167.75	22.673		
14,561.04	7,870.00	12,749.14	7,570.68	101.87	88.84	85.65	-3,569.63	401.17	3,803.16	3,634.43	168.73	22.540		
14,600.00	7,870.00	12,783.00	7,570.12	102.27	89.39	85.64	-3,603.48	400.93	3,803.33	3,633.53	169.81	22.398		
14,700.00	7,870.00	12,835.94	7,569.49	103.31	90.25	85.64	-3,656.42	400.17	3,804.31	3,632.75	171.56	22.174		
14,800.00	7,870.00	12,939.19	7,569.49	104.38	91.93	85.64	-3,759.65	398.30	3,805.79	3,630.95	174.83	21.768		
14,900.00	7,870.00	13,068.89	7,569.30	105.49	94.05	85.64	-3,889.33	396.62	3,806.77	3,627.86	178.92	21.277		
15,000.00	7,870.00	13,220.11	7,569.49	106.63	96.55	85.64	-4,040.55	396.63	3,806.32	3,622.65	183.67	20.723		
15,089.18	7,870.00	13,277.31	7,570.41	107.67	97.49	85.65	-4,097.74	396.66	3,805.90	3,620.31	185.59	20.507		
15,100.00	7,870.00	13,283.70	7,570.58	107.80	97.60	85.65	-4,104.13	396.62	3,805.91	3,620.10	185.81	20.483		
15,200.00	7,870.00	13,380.95	7,574.10	109.00	99.21	85.71	-4,201.32	395.58	3,806.35	3,617.36	188.99	20.141		
15,300.00	7,870.00	13,496.00	7,578.84	110.22	101.12	85.78	-4,316.26	395.34	3,805.86	3,613.12	192.74	19.746		
15,341.39	7,870.00	13,522.23	7,579.88	110.74	101.55	85.79	-4,342.48	395.30	3,805.74	3,612.11	193.63	19.655		
15,400.00	7,870.00	13,542.35	7,580.54	111.47	101.89	85.80	-4,362.58	395.04	3,806.15	3,611.81	194.34	19.585		
15,500.00	7,870.00	13,585.00	7,581.56	112.74	102.59	85.82	-4,405.20	393.84	3,808.24	3,612.46	195.79	19.451		
15,600.00	7,870.00	13,665.51	7,582.90	114.03	103.92	85.84	-4,485.64	390.82	3,811.47	3,613.05	198.42	19.209		
15,700.00	7,870.00	13,799.32	7,584.57	115.34	106.13	85.87	-4,619.37	386.57	3,814.20	3,611.42	202.78	18.809		
15,800.00	7,870.00	13,978.97	7,582.85	116.68	109.12	85.85	-4,798.97	383.34	3,815.91	3,607.34	208.57	18.295		
15,869.97	7,870.00	14,052.96	7,580.95	117.62	110.36	85.82	-4,872.94	383.37	3,815.77	3,604.78	210.99	18.085		
15,900.00	7,870.00	14,066.09	7,580.61	118.02	110.58	85.82	-4,886.07	383.30	3,815.88	3,604.44	211.44	18.047		
16,000.00	7,870.00	14,120.00	7,579.40	119.39	111.48	85.80	-4,939.95	382.40	3,817.23	3,603.99	213.24	17.901		
16,100.00	7,870.00	14,236.01	7,577.15	120.77	113.42	85.77	-5,055.92	380.32	3,818.83	3,601.79	217.04	17.595		
16,200.00	7,870.00	14,307.92	7,577.16	122.17	114.63	85.77	-5,127.81	378.75	3,820.64	3,601.21	219.43	17.412		
16,300.00	7,870.00	14,411.15	7,577.75	123.58	116.36	85.78	-5,231.02	376.51	3,822.41	3,599.56	222.85	17.153		
16,400.00	7,870.00	14,476.00	7,578.48	125.00	117.44	85.79	-5,295.83	374.44	3,825.09	3,600.08	225.01	17.000		
16,500.00	7,870.00	14,616.30	7,580.51	126.43	119.79	85.83	-5,436.04	370.04	3,827.87	3,598.19	229.68	16.666		
16,600.00	7,870.00	14,790.50	7,579.25	127.88	122.74	85.81	-5,610.22	368.09	3,828.64	3,593.22	235.42	16.263		
16,700.00	7,870.00	15,050.18	7,579.33	129.34	127.17	85.81	-5,869.84	372.41	3,826.85	3,583.06	243.79	15.697		
16,800.00	7,870.00	15,132.16	7,579.84	130.81	128.58	85.81	-5,951.77	375.20	3,823.04	3,576.42	246.62	15.502		
16,900.00	7,870.00	15,241.22	7,580.19	132.28	130.46	85.81	-6,060.77	378.93	3,819.28	3,569.00	250.28	15.260		
17,000.00	7,870.00	15,347.70	7,580.48	133.77	132.30	85.81	-6,167.16	383.12	3,814.99	3,561.12	253.87	15.028		
17,100.00	7,870.00	15,443.82	7,580.50	135.27	133.96	85.81	-6,263.21	386.63	3,811.00	3,553.87	257.13	14.821		
17,200.00	7,870.00	15,539.42	7,580.45	136.77	135.61	85.80	-6,358.75	390.23	3,806.92	3,546.53	260.39	14.620		
17,300.00	7,870.00	15,637.71	7,580.12	138.28	137.31	85.79	-6,456.98	393.83	3,802.95	3,539.23	263.73	14.420		
17,400.00	7,870.00	15,712.71	7,581.16	139.80	138.61	85.80	-6,531.92	396.19	3,799.38	3,533.03	266.35	14.265		
17,500.00	7,870.00	15,762.38	7,582.81	141.33	139.47	85.83	-6,581.56	397.29	3,796.69	3,528.54	268.15	14.159		
17,600.00	7,870.00	15,800.64	7,584.61	142.86	140.12	85.85	-6,619.78	397.46	3,795.58	3,526.04	269.54	14.082		
17,635.50	7,870.00	15,825.00	7,586.00	143.41	140.54	85.88	-6,644.09	397.22	3,795.62	3,525.24	270.38	14.038		
17,700.00	7,870.00	15,844.27	7,587.19	144.40	140.87	85.89	-6,663.32	396.88	3,796.08	3,525.02	271.05	14.005		
17,800.00	7,870.00	15,897.49	7,590.42	145.95	141.77	85.94	-6,716.42	395.51	3,797.89	3,525.03	272.85	13.919		
17,900.00	7,870.00	15,959.00	7,593.20	147.50	142.82	85.99	-6,777.83	393.18	3,800.94	3,526.04	274.91	13.826		
18,000.00	7,870.00	16,048.88	7,596.26	149.06	144.34	86.04	-6,867.57	389.26	3,804.70	3,526.74	277.96	13.688		
18,100.00	7,870.00	16,122.84	7,598.49	150.63	145.59	86.07	-6,941.41	385.86	3,808.75	3,528.32	280.43	13.582		
18,200.00	7,870.00	16,217.59	7,600.97	152.20	147.19	86.12	-7,036.02	381.09	3,813.25	3,529.61	283.64	13.444		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 11-22H-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	7,870.00	16,340.13	7,604.00	153.77	149.27	86.17	-7,158.38	375.33	3,817.43	3,529.56	287.88	13.261	
18,400.00	7,870.00	16,436.77	7,606.12	155.35	150.91	86.20	-7,254.90	371.03	3,821.39	3,530.22	291.17	13.124	
18,500.00	7,870.00	16,533.47	7,607.57	156.93	152.55	86.23	-7,351.49	366.63	3,825.49	3,531.03	294.46	12.992	
18,600.00	7,870.00	16,629.00	7,608.28	158.52	154.17	86.24	-7,446.92	362.34	3,829.59	3,531.89	297.70	12.864	
18,700.00	7,870.00	16,721.63	7,608.29	160.11	155.74	86.25	-7,539.45	357.99	3,833.94	3,533.11	300.83	12.745	
18,800.00	7,870.00	17,009.68	7,622.08	161.71	160.67	86.46	-7,826.83	349.43	3,836.96	3,526.01	310.95	12.340	
18,900.00	7,870.00	17,213.51	7,635.58	163.31	164.20	86.66	-8,030.19	351.11	3,835.67	3,517.79	317.89	12.066	
19,000.00	7,870.00	17,329.18	7,641.07	164.91	166.22	86.74	-8,145.70	354.00	3,832.61	3,510.73	321.88	11.907	
19,100.00	7,870.00	17,449.41	7,646.06	166.52	168.32	86.81	-8,265.74	358.22	3,828.48	3,502.48	326.00	11.744	
19,200.00	7,870.00	17,564.40	7,649.94	168.13	170.33	86.86	-8,380.59	362.60	3,824.15	3,494.20	329.96	11.590	
19,300.00	7,870.00	17,583.00	7,650.55	169.75	170.66	86.87	-8,399.16	363.34	3,820.52	3,489.68	330.83	11.548	
19,383.51	7,870.00	17,583.00	7,650.55	171.10	170.66	86.87	-8,399.16	363.34	3,819.45	3,488.52	330.93	11.542 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.65	786.88	-1,030.94	1,296.97					
100.00	100.00	89.75	89.75	0.13	0.15	-52.64	786.93	-1,030.87	1,296.90	1,296.62	0.28	4,572.353		
200.00	200.00	190.59	190.59	0.49	0.32	-52.63	787.08	-1,030.64	1,296.81	1,296.00	0.81	1,601.486		
300.00	300.00	291.43	291.43	0.85	0.48	-52.61	787.33	-1,030.25	1,296.66	1,295.32	1.34	970.647		
400.00	400.00	391.26	391.26	1.21	0.78	-52.60	787.49	-1,029.89	1,296.46	1,294.47	1.99	650.801		
500.00	500.00	490.73	490.73	1.57	1.13	-52.62	787.03	-1,030.05	1,296.31	1,293.62	2.69	481.030		
600.00	600.00	592.93	592.92	1.93	1.48	-52.68	785.89	-1,030.77	1,296.19	1,292.79	3.41	380.420		
700.00	699.98	734.20	734.11	2.28	1.98	-116.52	785.70	-1,026.98	1,294.63	1,290.37	4.26	304.100		
800.00	799.84	870.35	869.70	2.64	2.48	-116.40	789.70	-1,015.63	1,292.12	1,287.03	5.10	253.524		
900.00	899.45	978.48	976.63	3.00	2.89	-116.19	796.62	-1,001.29	1,289.33	1,283.47	5.86	219.991		
1,000.00	998.70	1,080.25	1,076.25	3.37	3.32	-115.84	807.83	-983.81	1,287.80	1,281.16	6.65	193.742		
1,055.20	1,053.28	1,136.01	1,130.23	3.59	3.57	-115.57	816.06	-972.55	1,287.58	1,280.47	7.10	181.222 CC		
1,100.00	1,097.47	1,180.81	1,173.38	3.76	3.79	-115.35	823.38	-962.94	1,287.73	1,280.24	7.49	171.953 ES		
1,200.00	1,195.62	1,262.19	1,251.56	4.18	4.19	-114.94	837.49	-945.31	1,289.71	1,281.42	8.29	155.509		
1,300.00	1,293.06	1,411.56	1,395.06	4.63	4.97	-114.46	862.25	-912.18	1,292.33	1,282.85	9.49	136.217		
1,400.00	1,389.64	1,513.69	1,492.01	5.11	5.56	-114.12	880.22	-885.56	1,293.97	1,283.45	10.52	122.957		
1,500.00	1,485.27	1,589.88	1,564.08	5.63	6.02	-113.87	894.83	-865.61	1,298.02	1,286.54	11.48	113.106		
1,600.00	1,579.82	1,669.47	1,639.34	6.20	6.50	-113.66	911.57	-845.89	1,305.62	1,293.13	12.49	104.525		
1,700.00	1,673.17	1,785.71	1,749.96	6.83	7.20	-113.64	934.46	-818.47	1,314.82	1,301.06	13.76	95.565		
1,800.00	1,765.21	1,948.31	1,905.33	7.51	8.16	-114.08	960.22	-778.15	1,322.04	1,306.73	15.30	86.385		
1,900.00	1,855.84	2,050.80	2,003.69	8.24	8.76	-114.59	972.49	-752.07	1,327.86	1,311.33	16.54	80.288		
2,000.00	1,944.94	2,131.07	2,080.90	9.05	9.23	-115.04	982.28	-732.43	1,336.24	1,318.54	17.70	75.513		
2,100.00	2,032.39	2,269.90	2,214.31	9.91	10.03	-116.07	999.56	-698.19	1,346.69	1,327.50	19.19	70.181		
2,200.00	2,118.11	2,343.20	2,284.70	10.85	10.47	-116.61	1,008.03	-679.56	1,357.47	1,337.07	20.39	66.565		
2,300.00	2,201.97	2,407.11	2,346.29	11.85	10.83	-117.07	1,015.75	-664.35	1,371.91	1,350.34	21.57	63.612		
2,400.00	2,283.88	2,472.80	2,409.83	12.93	11.20	-117.56	1,024.36	-650.09	1,390.64	1,367.87	22.76	61.088		
2,429.47	2,307.63	2,488.00	2,424.54	13.26	11.28	-117.65	1,026.50	-646.89	1,396.92	1,373.83	23.10	60.481		
2,500.00	2,364.26	2,540.98	2,475.83	14.06	11.57	-118.35	1,034.21	-636.12	1,412.89	1,388.91	23.98	58.917		
2,600.00	2,444.56	2,636.22	2,568.13	15.22	12.10	-119.57	1,048.85	-617.77	1,437.29	1,411.94	25.35	56.696		
2,700.00	2,524.85	2,783.77	2,709.50	16.39	12.97	-121.22	1,072.92	-583.07	1,458.99	1,431.92	27.07	53.893		
2,800.00	2,605.14	2,846.29	2,769.39	17.57	13.35	-121.90	1,082.96	-568.24	1,481.16	1,452.89	28.27	52.396		
2,900.00	2,685.43	2,988.57	2,906.41	18.76	14.18	-123.52	1,102.54	-535.34	1,503.31	1,473.44	29.87	50.320		
3,000.00	2,765.73	3,081.12	2,995.45	19.96	14.72	-124.57	1,113.91	-512.83	1,524.34	1,493.16	31.18	48.887		
3,100.00	2,846.02	3,154.83	3,066.05	21.16	15.16	-125.33	1,124.64	-494.57	1,546.49	1,514.11	32.38	47.756		
3,200.00	2,926.31	3,218.00	3,126.86	22.37	15.53	-125.98	1,133.97	-480.24	1,570.87	1,537.37	33.49	46.899		
3,300.00	3,006.60	3,341.62	3,245.97	23.59	16.25	-127.22	1,152.27	-452.68	1,596.23	1,561.28	34.94	45.684		
3,400.00	3,086.90	3,441.05	3,341.69	24.81	16.82	-128.24	1,164.58	-428.78	1,619.40	1,583.20	36.20	44.736		
3,500.00	3,167.19	3,503.94	3,402.73	26.03	17.17	-128.92	1,171.44	-415.28	1,644.76	1,607.55	37.21	44.206		
3,600.00	3,247.48	3,589.98	3,486.09	27.25	17.65	-129.79	1,182.48	-397.09	1,671.59	1,633.25	38.33	43.606		
3,700.00	3,327.77	3,698.53	3,590.54	28.48	18.28	-130.73	1,199.15	-372.69	1,698.46	1,658.82	39.64	42.851		
3,800.00	3,408.07	3,816.80	3,704.10	29.71	18.98	-131.73	1,217.01	-344.92	1,724.71	1,683.72	40.99	42.076		
3,900.00	3,488.36	3,881.62	3,766.38	30.94	19.35	-132.27	1,226.27	-329.52	1,750.91	1,708.93	41.98	41.712		
4,000.00	3,568.65	3,930.31	3,813.64	32.17	19.62	-132.72	1,232.38	-319.53	1,779.69	1,736.89	42.81	41.576		
4,100.00	3,648.95	4,006.55	3,888.19	33.41	20.02	-133.45	1,240.86	-306.03	1,810.88	1,767.13	43.75	41.396		
4,200.00	3,729.24	4,134.83	4,012.89	34.64	20.70	-134.56	1,257.49	-280.94	1,841.36	1,796.34	45.03	40.895		
4,300.00	3,809.53	4,309.50	4,180.07	35.88	21.76	-135.73	1,286.81	-239.86	1,869.73	1,822.99	46.74	40.005		
4,400.00	3,889.82	4,390.84	4,257.61	37.12	22.27	-136.25	1,299.81	-219.01	1,895.94	1,848.12	47.81	39.654		
4,500.00	3,970.12	4,489.84	4,352.51	38.36	22.87	-136.94	1,313.87	-194.61	1,922.85	1,873.90	48.95	39.284		
4,600.00	4,050.41	4,572.71	4,431.76	39.60	23.38	-137.47	1,326.56	-173.95	1,949.98	1,899.99	49.99	39.005		
4,700.00	4,130.70	4,626.91	4,483.65	40.84	23.70	-137.80	1,335.29	-160.96	1,978.46	1,927.63	50.83	38.921		
4,800.00	4,210.99	4,675.00	4,530.01	42.08	23.99	-138.11	1,342.80	-150.61	2,009.22	1,957.63	51.59	38.947		
4,900.00	4,291.29	4,743.60	4,596.43	43.32	24.36	-138.55	1,353.31	-137.06	2,041.77	1,989.32	52.45	38.929		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,981.88	4,826.82	44.57	25.71	-140.17	1,382.92	-84.35	2,071.79	2,017.48	54.31	38.145		
5,100.00	4,451.87	5,069.91	4,911.31	45.81	26.23	-140.74	1,392.91	-61.74	2,098.57	2,043.31	55.26	37.975		
5,200.00	4,532.16	5,131.87	4,970.96	47.05	26.60	-141.14	1,400.09	-46.58	2,126.74	2,070.69	56.06	37.939		
5,300.00	4,612.46	5,191.81	5,028.81	48.30	26.94	-141.52	1,407.45	-32.75	2,156.56	2,099.74	56.82	37.955		
5,400.00	4,692.75	5,248.82	5,083.96	49.54	27.26	-141.86	1,414.93	-20.41	2,188.04	2,130.50	57.55	38.023		
5,500.00	4,773.04	5,312.45	5,145.70	50.79	27.61	-142.22	1,423.61	-7.68	2,221.24	2,162.94	58.30	38.101		
5,600.00	4,853.34	5,434.78	5,264.23	52.03	28.28	-142.90	1,440.76	17.24	2,254.36	2,194.89	59.47	37.910		
5,700.00	4,933.63	5,578.33	5,402.60	53.28	29.11	-143.62	1,462.09	48.88	2,286.25	2,225.45	60.80	37.603		
5,800.00	5,013.92	5,676.88	5,497.37	54.53	29.69	-144.11	1,475.75	72.18	2,316.58	2,254.78	61.80	37.486		
5,900.00	5,094.21	5,743.00	5,561.14	55.77	30.07	-144.44	1,485.10	86.93	2,348.20	2,285.62	62.58	37.523		
6,000.00	5,174.51	5,813.06	5,629.00	57.02	30.46	-144.80	1,494.29	101.76	2,380.98	2,317.63	63.35	37.586		
6,100.00	5,254.80	5,951.53	5,762.89	58.27	31.24	-145.51	1,510.86	132.88	2,412.49	2,347.95	64.54	37.382		
6,200.00	5,335.09	6,010.00	5,819.31	59.52	31.58	-145.78	1,518.91	145.95	2,444.58	2,379.34	65.24	37.473		
6,300.00	5,415.38	6,082.33	5,889.12	60.76	31.99	-146.09	1,529.84	161.39	2,477.85	2,411.81	66.04	37.520		
6,400.00	5,495.68	6,136.73	5,941.69	62.01	32.29	-146.31	1,538.30	172.52	2,512.18	2,445.48	66.70	37.665		
6,500.00	5,575.97	6,188.00	5,991.52	63.26	32.57	-146.53	1,545.77	182.04	2,548.21	2,480.91	67.30	37.863		
6,600.00	5,656.26	6,352.30	6,151.91	64.51	33.40	-147.42	1,561.08	213.96	2,582.96	2,514.41	68.55	37.681		
6,700.00	5,736.55	6,564.47	6,358.14	65.76	34.53	-148.60	1,575.60	261.42	2,615.48	2,545.58	69.90	37.418		
6,800.00	5,816.85	6,634.00	6,424.94	67.01	34.94	-148.89	1,584.32	278.63	2,646.10	2,575.46	70.65	37.456		
6,900.00	5,897.14	6,681.78	6,470.80	68.26	35.22	-149.05	1,591.57	289.90	2,678.09	2,606.82	71.27	37.576		
7,000.00	5,977.43	7,201.11	6,960.80	69.50	38.56	-151.00	1,655.34	441.29	2,707.75	2,633.50	74.26	36.464		
7,100.00	6,057.72	7,258.00	7,013.78	70.75	38.88	-151.49	1,648.40	460.76	2,727.25	2,652.52	74.73	36.497		
7,200.00	6,138.02	7,258.00	7,013.78	72.00	38.88	-151.49	1,648.40	460.76	2,748.78	2,673.52	75.26	36.523		
7,300.00	6,218.31	7,258.00	7,013.78	73.25	38.88	-151.49	1,648.40	460.76	2,773.75	2,698.04	75.71	36.639		
7,400.00	6,298.60	7,303.17	7,056.01	74.50	39.04	-151.94	1,639.33	473.92	2,800.38	2,724.43	75.94	36.874		
7,500.00	6,378.90	7,348.00	7,097.92	75.75	39.19	-152.45	1,627.18	484.15	2,830.99	2,754.89	76.10	37.202		
7,600.00	6,459.19	7,348.00	7,097.92	77.00	39.19	-152.45	1,627.18	484.15	2,863.13	2,786.77	76.35	37.499		
7,700.00	6,539.48	7,348.00	7,097.92	78.25	39.19	-152.45	1,627.18	484.15	2,898.36	2,821.83	76.53	37.873		
7,800.00	6,619.77	7,348.00	7,097.92	79.50	39.19	-152.45	1,627.18	484.15	2,936.58	2,859.95	76.63	38.319		
7,900.00	6,700.07	7,387.03	7,134.13	80.75	39.24	-152.93	1,614.30	490.87	2,976.51	2,899.94	76.56	38.876		
8,000.00	6,780.36	7,402.57	7,148.45	82.00	39.26	-153.13	1,608.64	493.03	3,019.21	2,942.69	76.52	39.457		
8,100.00	6,860.65	7,437.00	7,179.86	83.25	39.31	-153.59	1,595.06	496.75	3,064.53	2,988.16	76.37	40.128		
8,200.00	6,940.94	7,437.00	7,179.86	84.50	39.31	-153.59	1,595.06	496.75	3,111.52	3,035.23	76.29	40.785		
8,300.00	7,021.24	7,437.00	7,179.86	85.76	39.31	-153.59	1,595.06	496.75	3,160.97	3,084.81	76.16	41.503		
8,400.00	7,101.53	7,467.67	7,207.53	87.01	39.32	-154.01	1,582.05	499.08	3,212.28	3,136.36	75.92	42.312		
8,500.00	7,181.82	7,486.08	7,224.05	88.26	39.32	-154.26	1,573.98	500.16	3,265.54	3,189.85	75.69	43.146		
8,605.60	7,266.61	8,605.60	7,285.20	89.58	39.81	-155.25	1,541.31	503.33	3,323.86	3,248.20	75.66	43.931		
8,650.00	7,302.60	7,677.54	7,389.43	90.13	39.33	-165.65	1,478.67	512.45	3,347.95	3,273.12	74.83	44.741		
8,700.00	7,343.78	7,704.00	7,411.16	90.72	39.33	-176.28	1,463.79	514.88	3,374.94	3,300.28	74.66	45.203		
8,750.00	7,385.32	7,726.82	7,429.57	91.28	39.32	172.85	1,450.46	516.98	3,401.90	3,327.39	74.51	45.658		
8,800.00	7,426.92	7,749.76	7,447.62	91.81	39.31	162.02	1,436.46	519.07	3,428.60	3,354.24	74.36	46.111		
8,850.00	7,468.27	7,773.29	7,465.66	92.29	39.31	151.57	1,421.51	521.19	3,454.81	3,380.61	74.20	46.562		
8,900.00	7,509.04	8,060.00	7,625.16	92.72	39.12	139.02	1,191.19	562.32	3,479.79	3,407.50	72.29	48.135		
8,950.00	7,548.93	8,060.00	7,625.16	93.10	39.12	130.68	1,191.19	562.32	3,501.74	3,429.50	72.24	48.471		
9,000.00	7,587.63	8,060.00	7,625.16	93.43	39.12	123.22	1,191.19	562.32	3,522.73	3,450.53	72.20	48.792		
9,050.00	7,624.85	8,097.85	7,636.74	93.71	39.09	116.27	1,155.90	569.59	3,541.96	3,470.06	71.90	49.262		
9,100.00	7,660.30	8,109.94	7,640.13	93.93	39.08	110.49	1,144.50	571.75	3,560.12	3,488.33	71.78	49.595		
9,150.00	7,693.72	8,149.00	7,650.10	94.10	39.07	105.30	1,107.28	578.15	3,577.06	3,505.57	71.49	50.037		
9,200.00	7,724.85	8,149.00	7,650.10	94.23	39.07	101.17	1,107.28	578.15	3,591.80	3,520.32	71.48	50.250		
9,250.00	7,753.45	8,149.00	7,650.10	94.30	39.07	97.67	1,107.28	578.15	3,604.92	3,533.43	71.49	50.424		
9,300.00	7,779.31	8,149.00	7,650.10	94.34	39.07	94.74	1,107.28	578.15	3,616.35	3,544.81	71.54	50.553		
9,350.00	7,802.23	8,149.00	7,650.10	94.33	39.07	92.32	1,107.28	578.15	3,626.02	3,554.40	71.61	50.633		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,184.48	7,657.96	94.28	39.02	90.29	1,073.03	583.08	3,633.16	3,561.70	71.46	50.839		
9,450.00	7,838.57	8,196.65	7,660.42	94.20	39.01	88.80	1,061.21	584.54	3,638.57	3,567.05	71.51	50.879		
9,500.00	7,851.72	8,238.00	7,667.91	94.10	38.98	87.71	1,020.76	588.66	3,642.37	3,571.00	71.37	51.032		
9,550.00	7,861.37	8,238.00	7,667.91	93.96	38.98	87.08	1,020.76	588.66	3,643.29	3,571.69	71.59	50.891		
9,600.00	7,867.46	8,238.00	7,667.91	93.81	38.98	86.82	1,020.76	588.66	3,642.26	3,570.40	71.86	50.687		
9,650.00	7,869.94	8,255.57	7,670.77	93.64	38.96	86.96	1,003.48	590.10	3,639.22	3,567.19	72.04	50.519		
9,659.14	7,870.00	8,260.62	7,671.58	93.60	38.95	87.03	998.52	590.50	3,638.42	3,566.37	72.06	50.492		
9,700.00	7,870.00	8,283.19	7,675.15	93.46	38.93	87.09	976.29	592.23	3,634.79	3,562.62	72.16	50.368		
9,800.00	7,870.00	8,339.75	7,683.66	93.11	38.88	87.22	920.51	596.12	3,626.75	3,554.31	72.44	50.068		
9,900.00	7,870.00	8,400.88	7,691.76	92.77	38.84	87.35	860.03	599.73	3,619.83	3,547.10	72.73	49.768		
10,000.00	7,870.00	8,417.00	7,693.68	92.46	38.84	87.38	844.05	600.58	3,614.45	3,541.09	73.36	49.268		
10,100.00	7,870.00	8,455.97	7,697.59	92.16	38.81	87.44	805.30	601.92	3,610.85	3,536.97	73.88	48.875		
10,200.00	7,870.00	8,506.00	7,700.82	91.87	38.79	87.49	755.39	601.60	3,610.02	3,535.69	74.32	48.574		
10,235.37	7,870.00	8,506.00	7,700.82	91.77	38.79	87.49	755.39	601.60	3,609.84	3,535.22	74.62	48.378		
10,300.00	7,870.00	8,506.00	7,700.82	91.60	38.79	87.49	755.39	601.60	3,610.42	3,535.27	75.15	48.040		
10,400.00	7,870.00	8,533.09	7,701.93	91.34	38.76	87.51	728.34	600.62	3,613.30	3,537.49	75.81	47.661		
10,500.00	7,870.00	8,567.55	7,703.05	91.11	38.74	87.53	693.94	598.83	3,618.01	3,541.57	76.45	47.327		
10,600.00	7,870.00	8,631.54	7,704.50	90.88	38.71	87.55	630.13	594.32	3,624.45	3,547.55	76.90	47.135		
10,700.00	7,870.00	8,791.81	7,708.41	90.67	38.78	87.62	470.21	584.51	3,630.07	3,553.11	76.96	47.171		
10,800.00	7,870.00	9,091.92	7,716.31	90.48	39.65	87.75	170.38	578.25	3,630.62	3,552.88	77.74	46.705		
10,869.35	7,870.00	9,140.82	7,716.62	90.36	39.90	87.75	121.48	578.21	3,630.41	3,552.03	78.38	46.319		
10,900.00	7,870.00	9,161.10	7,716.78	90.31	40.01	87.75	101.20	578.11	3,630.46	3,551.79	78.66	46.153		
11,000.00	7,870.00	11,000.00	7,719.00	90.15	59.47	87.79	-88.76	577.76	3,630.93	3,534.17	96.77	37.522		
11,100.00	7,870.00	9,523.72	7,718.94	90.00	42.73	87.79	-261.29	583.05	3,627.39	3,544.87	82.53	43.955		
11,200.00	7,870.00	9,663.49	7,716.90	89.88	44.13	87.75	-400.91	589.41	3,622.53	3,537.91	84.62	42.811		
11,300.00	7,870.00	9,759.68	7,715.12	89.77	45.17	87.72	-496.96	594.21	3,617.28	3,530.94	86.34	41.894		
11,400.00	7,870.00	9,806.57	7,714.51	89.68	45.68	87.71	-543.81	596.12	3,612.87	3,525.40	87.48	41.301		
11,500.00	7,870.00	9,878.78	7,714.54	89.60	46.50	87.71	-615.99	598.07	3,609.75	3,520.75	88.99	40.563		
11,600.00	7,870.00	9,931.00	7,714.64	89.55	47.10	87.71	-668.19	599.51	3,607.03	3,516.78	90.25	39.969		
11,700.00	7,870.00	9,979.56	7,714.66	89.52	47.65	87.71	-716.75	600.19	3,605.72	3,514.25	91.47	39.421		
11,710.83	7,870.00	9,982.89	7,714.66	89.51	47.69	87.71	-720.07	600.18	3,605.70	3,514.13	91.57	39.375		
11,800.00	7,870.00	10,020.00	7,714.61	89.50	48.12	87.71	-757.18	599.63	3,606.51	3,513.94	92.57	38.959		
11,900.00	7,870.00	10,086.55	7,714.45	89.51	48.89	87.70	-823.71	597.85	3,608.71	3,514.61	94.10	38.351		
12,000.00	7,870.00	10,177.58	7,713.95	89.54	49.97	87.70	-914.70	595.31	3,611.18	3,515.13	96.06	37.595		
12,100.00	7,870.00	10,298.69	7,712.52	89.59	51.46	87.68	-1,035.75	592.00	3,613.65	3,515.05	98.60	36.648		
12,200.00	7,870.00	12,200.00	7,709.89	89.66	77.57	87.64	-1,197.92	590.11	3,614.37	3,488.12	126.25	28.629		
12,300.00	7,870.00	10,532.18	7,709.22	89.77	54.49	87.63	-1,269.20	589.65	3,614.82	3,510.95	103.87	34.800		
12,400.00	7,870.00	10,661.75	7,707.78	89.89	56.23	87.60	-1,398.75	587.99	3,615.90	3,508.97	106.92	33.818		
12,497.58	7,870.00	10,769.83	7,704.79	90.05	57.73	87.56	-1,506.79	587.78	3,615.85	3,506.27	109.58	32.996		
12,500.00	7,870.00	10,771.78	7,704.72	90.05	57.75	87.55	-1,508.73	587.78	3,615.85	3,506.22	109.64	32.981		
12,600.00	7,870.00	10,842.91	7,702.49	90.24	58.75	87.52	-1,579.83	587.42	3,616.18	3,504.64	111.54	32.421		
12,700.00	7,870.00	10,911.00	7,702.17	90.46	59.70	87.52	-1,647.90	586.14	3,617.65	3,504.24	113.41	31.900		
12,800.00	7,870.00	10,967.48	7,703.14	90.71	60.49	87.53	-1,704.35	584.43	3,620.12	3,505.09	115.03	31.471		
12,900.00	7,870.00	11,078.27	7,706.36	90.99	62.06	87.58	-1,815.03	580.64	3,623.10	3,505.13	117.97	30.712		
13,000.00	7,870.00	11,314.03	7,714.36	91.32	65.50	87.71	-2,050.59	577.06	3,624.57	3,500.43	124.14	29.197		
13,100.00	7,870.00	11,406.57	7,716.10	91.68	66.89	87.74	-2,143.12	577.68	3,623.49	3,496.71	126.79	28.580		
13,200.00	7,870.00	11,506.60	7,717.49	92.08	68.40	87.76	-2,243.14	578.15	3,622.63	3,492.98	129.65	27.941		
13,300.00	7,870.00	11,612.45	7,718.62	92.52	70.01	87.78	-2,348.98	578.84	3,621.60	3,488.90	132.70	27.291		
13,400.00	7,870.00	11,692.22	7,719.02	93.00	71.24	87.78	-2,428.74	579.25	3,620.74	3,485.67	135.07	26.806		
13,473.17	7,870.00	11,745.83	7,718.99	93.38	72.06	87.78	-2,482.35	579.23	3,620.53	3,483.85	136.68	26.488		
13,500.00	7,870.00	11,764.95	7,718.94	93.53	72.35	87.78	-2,501.47	579.14	3,620.56	3,483.30	137.26	26.378		
13,600.00	7,870.00	11,906.04	7,718.06	94.10	74.53	87.77	-2,642.56	578.70	3,620.71	3,479.37	141.34	25.617		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,700.00	7,870.00	11,980.00	7,717.09	94.72	75.69	87.75	-2,716.51	578.77	3,620.28	3,476.69	143.59	25.212		
13,800.00	7,870.00	12,072.28	7,715.51	95.38	77.13	87.73	-2,808.78	578.58	3,620.21	3,473.85	146.36	24.734		
13,838.17	7,870.00	12,143.06	7,714.22	95.65	78.25	87.71	-2,879.54	578.71	3,620.04	3,471.60	148.44	24.387		
13,900.00	7,870.00	12,213.68	7,712.92	96.09	79.37	87.69	-2,950.15	579.28	3,619.37	3,468.81	150.56	24.039		
14,000.00	7,870.00	12,306.03	7,711.00	96.84	80.84	87.66	-3,042.48	580.05	3,618.29	3,464.91	153.39	23.590		
14,096.87	7,870.00	12,369.64	7,709.31	97.62	81.85	87.63	-3,106.06	580.30	3,617.75	3,462.37	155.37	23.284		
14,100.00	7,870.00	12,371.31	7,709.27	97.64	81.88	87.63	-3,107.73	580.29	3,617.75	3,462.32	155.43	23.276		
14,200.00	7,870.00	12,426.00	7,708.09	98.48	82.75	87.61	-3,162.41	579.77	3,618.43	3,461.28	157.15	23.025		
14,300.00	7,870.00	12,498.06	7,707.06	99.37	83.89	87.59	-3,234.45	578.34	3,620.14	3,460.75	159.39	22.713		
14,400.00	7,870.00	12,647.46	7,708.06	100.30	86.27	87.61	-3,383.80	575.32	3,621.93	3,457.93	164.00	22.085		
14,500.00	7,870.00	12,753.27	7,709.09	101.26	87.97	87.63	-3,489.61	574.64	3,622.17	3,454.85	167.32	21.649		
14,600.00	7,870.00	12,994.38	7,710.57	102.27	91.91	87.65	-3,730.64	578.72	3,619.21	3,444.41	174.80	20.705		
14,700.00	7,870.00	13,049.00	7,710.59	103.31	92.81	87.65	-3,785.24	579.98	3,616.52	3,439.91	176.61	20.477		
14,800.00	7,870.00	13,106.79	7,710.53	104.38	93.76	87.65	-3,843.03	580.62	3,615.05	3,436.54	178.51	20.252		
14,900.00	7,870.00	13,232.75	7,710.41	105.49	95.82	87.64	-3,968.99	581.36	3,614.22	3,431.70	182.52	19.802		
15,000.00	7,870.00	13,277.60	7,710.68	106.63	96.56	87.65	-4,013.83	581.55	3,613.38	3,429.37	184.01	19.637		
15,008.98	7,870.00	13,281.94	7,710.74	106.74	96.63	87.65	-4,018.18	581.54	3,613.38	3,429.23	184.15	19.622		
15,100.00	7,870.00	13,335.89	7,712.05	107.80	97.52	87.67	-4,072.10	580.92	3,613.94	3,428.04	185.91	19.440		
15,200.00	7,870.00	13,443.05	7,715.46	109.00	99.27	87.72	-4,179.20	579.38	3,614.92	3,425.53	189.39	19.087		
15,300.00	7,870.00	13,557.65	7,718.89	110.22	101.16	87.78	-4,293.74	578.17	3,615.52	3,422.39	193.13	18.721		
15,400.00	7,870.00	13,756.86	7,723.93	111.47	104.47	87.86	-4,492.88	579.06	3,614.70	3,415.08	199.62	18.108		
15,500.00	7,870.00	13,873.40	7,726.44	112.74	106.43	87.90	-4,609.36	581.55	3,612.15	3,408.70	203.45	17.754		
15,600.00	7,870.00	13,940.00	7,727.43	114.03	107.55	87.91	-4,675.93	583.25	3,609.41	3,403.73	205.68	17.549		
15,700.00	7,870.00	13,996.97	7,728.06	115.34	108.50	87.92	-4,732.89	584.12	3,607.80	3,400.22	207.58	17.380		
15,800.00	7,870.00	14,169.74	7,729.77	116.68	111.40	87.95	-4,905.62	586.37	3,606.11	3,392.86	213.26	16.910		
15,900.00	7,870.00	14,230.26	7,730.26	118.02	112.42	87.95	-4,966.13	587.42	3,604.00	3,388.71	215.29	16.740		
16,000.00	7,870.00	14,297.00	7,730.67	119.39	113.55	87.96	-5,032.87	587.87	3,602.94	3,385.43	217.51	16.564		
16,023.64	7,870.00	14,297.00	7,730.67	119.71	113.55	87.96	-5,032.87	587.87	3,602.86	3,385.36	217.51	16.564		
16,100.00	7,870.00	14,335.57	7,730.82	120.77	114.19	87.96	-5,071.43	587.62	3,603.17	3,384.42	218.76	16.471		
16,200.00	7,870.00	14,386.00	7,730.83	122.17	115.03	87.96	-5,121.85	586.42	3,605.06	3,384.70	220.36	16.360		
16,300.00	7,870.00	14,456.36	7,730.72	123.58	116.20	87.96	-5,192.17	583.98	3,608.11	3,385.48	222.63	16.207		
16,400.00	7,870.00	14,665.08	7,730.56	125.00	119.68	87.96	-5,400.83	579.25	3,610.25	3,380.55	229.69	15.718		
16,500.00	7,870.00	14,782.23	7,730.26	126.43	121.65	87.96	-5,517.98	578.77	3,610.35	3,376.74	233.61	15.455		
16,600.00	7,870.00	14,943.72	7,729.57	127.88	124.39	87.94	-5,679.46	579.81	3,609.47	3,370.46	239.01	15.102		
16,700.00	7,870.00	15,048.72	7,729.10	129.34	126.18	87.94	-5,784.43	582.05	3,606.98	3,364.46	242.53	14.872		
16,800.00	7,870.00	15,104.96	7,728.79	130.81	127.14	87.93	-5,840.66	582.71	3,605.51	3,361.09	244.42	14.751		
16,900.00	7,870.00	15,163.00	7,728.33	132.28	128.12	87.92	-5,898.70	582.67	3,605.24	3,358.90	246.34	14.635		
16,922.80	7,870.00	15,246.31	7,728.74	132.62	129.54	87.93	-5,982.00	582.79	3,605.15	3,355.98	249.18	14.468		
17,000.00	7,870.00	15,389.75	7,731.78	133.77	132.00	87.98	-6,125.37	586.31	3,602.58	3,348.56	254.02	14.182		
17,100.00	7,870.00	15,473.53	7,733.49	135.27	133.44	88.00	-6,209.10	588.40	3,599.66	3,342.77	256.88	14.013		
17,200.00	7,870.00	15,582.06	7,735.61	136.77	135.30	88.03	-6,317.58	591.02	3,596.84	3,336.27	260.58	13.803		
17,300.00	7,870.00	15,660.53	7,737.25	138.28	136.65	88.06	-6,396.01	592.95	3,594.01	3,330.74	263.26	13.652		
17,400.00	7,870.00	15,726.00	7,738.60	139.80	137.77	88.08	-6,461.46	593.97	3,592.06	3,326.56	265.50	13.530		
17,500.00	7,870.00	15,786.00	7,739.84	141.33	138.80	88.10	-6,521.45	594.31	3,591.12	3,323.60	267.51	13.424		
17,531.75	7,870.00	15,805.57	7,740.24	141.82	139.13	88.10	-6,541.01	594.27	3,591.05	3,322.88	268.17	13.391		
17,600.00	7,870.00	15,841.55	7,740.95	142.86	139.75	88.12	-6,576.99	593.97	3,591.36	3,322.01	269.34	13.334		
17,700.00	7,870.00	15,875.00	7,741.59	144.40	140.32	88.13	-6,610.42	593.39	3,593.01	3,322.69	270.32	13.292		
17,800.00	7,870.00	15,941.39	7,742.85	145.95	141.44	88.15	-6,676.76	591.33	3,595.89	3,323.43	272.46	13.198		
17,900.00	7,870.00	16,089.39	7,744.87	147.50	143.94	88.18	-6,824.64	585.74	3,599.47	3,321.83	277.64	12.965		
18,000.00	7,870.00	16,273.52	7,745.80	149.06	147.07	88.20	-7,008.74	583.31	3,600.25	3,316.19	284.07	12.674		
18,100.00	7,870.00	16,358.48	7,746.04	150.63	148.53	88.20	-7,093.71	582.87	3,600.43	3,313.49	286.94	12.548		
18,200.00	7,870.00	16,450.13	7,746.33	152.20	150.10	88.21	-7,185.35	581.92	3,601.10	3,311.05	290.05	12.416		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,300.00	7,870.00	16,554.70	7,746.56	153.77	151.89	88.21	-7,289.92	581.02	3,601.62	3,308.00	293.62	12.266	
18,400.00	7,870.00	16,669.08	7,746.73	155.35	153.85	88.21	-7,404.30	580.15	3,602.05	3,304.51	297.55	12.106	
18,500.00	7,870.00	16,775.42	7,747.07	156.93	155.67	88.22	-7,510.64	579.74	3,602.09	3,300.89	301.19	11.959	
18,503.14	7,870.00	16,778.73	7,747.08	156.98	155.73	88.22	-7,513.94	579.73	3,602.08	3,300.78	301.31	11.955	
18,600.00	7,870.00	16,853.61	7,747.30	158.52	157.01	88.22	-7,588.82	579.24	3,602.38	3,298.55	303.83	11.857	
18,700.00	7,870.00	16,950.81	7,747.48	160.11	158.68	88.23	-7,686.01	578.31	3,602.99	3,295.84	307.15	11.730	
18,800.00	7,870.00	17,050.10	7,747.25	161.71	160.39	88.22	-7,785.30	577.32	3,603.65	3,293.11	310.54	11.604	
18,900.00	7,870.00	17,150.56	7,746.54	163.31	162.11	88.21	-7,885.76	576.36	3,604.29	3,290.32	313.97	11.480	
19,000.00	7,870.00	17,262.13	7,744.95	164.91	164.03	88.19	-7,997.31	575.35	3,604.92	3,287.12	317.81	11.343	
19,100.00	7,870.00	17,341.31	7,743.66	166.52	165.39	88.17	-8,076.47	574.87	3,605.31	3,284.84	320.46	11.250	
19,200.00	7,870.00	17,414.11	7,743.29	168.13	166.64	88.16	-8,149.26	573.49	3,606.80	3,283.91	322.88	11.171	
19,300.00	7,870.00	17,527.89	7,743.39	169.75	168.59	88.16	-8,263.02	571.79	3,607.91	3,281.08	326.82	11.039	
19,383.51	7,870.00	17,597.84	7,743.60	171.10	169.80	88.17	-8,332.96	570.46	3,609.19	3,280.00	329.19	10.964 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.37	786.88	-1,020.86	1,288.97					
100.00	100.00	82.36	82.36	0.13	0.14	-52.37	787.08	-1,020.97	1,289.15	1,288.88	0.27	4,734.837		
200.00	200.00	174.90	174.90	0.49	0.29	-52.36	787.77	-1,021.38	1,289.96	1,289.17	0.78	1,643.757		
300.00	300.00	267.43	267.41	0.85	0.45	-52.33	788.97	-1,022.07	1,291.34	1,290.04	1.30	995.506		
400.00	400.00	361.61	361.57	1.21	0.69	-52.30	790.66	-1,023.06	1,293.27	1,291.38	1.90	681.831		
500.00	500.00	457.79	457.73	1.57	1.03	-52.27	792.61	-1,024.31	1,295.54	1,292.94	2.60	498.196		
600.00	600.00	553.96	553.86	1.93	1.38	-52.23	794.73	-1,025.79	1,298.10	1,294.80	3.30	392.978		
700.00	699.98	677.11	676.93	2.28	1.82	-115.95	798.77	-1,025.90	1,301.02	1,296.92	4.10	317.632		
800.00	799.84	815.91	815.15	2.64	2.32	-115.66	808.03	-1,017.63	1,302.69	1,297.74	4.95	263.135		
900.00	899.45	894.88	891.62	3.00	3.02	-115.08	824.24	-993.22	1,301.27	1,295.28	6.00	217.037		
1,000.00	998.70	1,187.93	1,178.48	3.37	3.92	-114.25	842.65	-948.71	1,293.84	1,286.64	7.20	179.747		
1,100.00	1,097.47	1,279.64	1,266.04	3.76	4.40	-113.90	852.66	-923.33	1,285.73	1,277.68	8.05	159.711		
1,200.00	1,195.62	1,346.90	1,330.24	4.18	4.78	-113.70	861.14	-905.16	1,280.68	1,271.85	8.83	145.080		
1,300.00	1,293.06	1,448.12	1,427.17	4.63	5.35	-113.46	874.54	-879.30	1,278.63	1,268.83	9.81	130.399		
1,400.00	1,389.64	1,574.19	1,547.19	5.11	6.09	-113.26	890.79	-844.28	1,275.92	1,264.95	10.97	116.333		
1,477.14	1,463.50	1,634.00	1,603.87	5.51	6.46	-113.20	899.19	-827.16	1,274.95	1,263.24	11.71	108.857 CC		
1,500.00	1,485.27	1,650.14	1,619.18	5.63	6.56	-113.18	901.59	-822.64	1,275.04	1,263.11	11.92	106.922 ES		
1,600.00	1,579.82	1,723.00	1,688.53	6.20	7.00	-113.17	912.92	-803.42	1,277.90	1,265.00	12.90	99.051		
1,700.00	1,673.17	1,811.96	1,773.32	6.83	7.54	-113.23	927.68	-780.89	1,283.69	1,269.68	14.01	91.639		
1,800.00	1,765.21	1,932.73	1,888.04	7.51	8.29	-113.47	947.81	-748.97	1,290.10	1,274.75	15.36	84.012		
1,900.00	1,855.84	2,057.50	2,006.83	8.24	9.07	-113.96	966.02	-715.44	1,296.34	1,279.59	16.76	77.368		
2,000.00	1,944.94	2,143.14	2,088.64	9.05	9.59	-114.42	976.98	-692.62	1,303.22	1,285.25	17.97	72.538		
2,100.00	2,032.39	2,250.28	2,191.20	9.91	10.24	-115.16	990.98	-664.96	1,312.57	1,293.24	19.33	67.918		
2,200.00	2,118.11	2,325.27	2,263.07	10.85	10.69	-115.69	1,000.48	-645.82	1,323.69	1,303.15	20.54	64.435		
2,300.00	2,201.97	2,441.23	2,374.60	11.85	11.37	-116.78	1,014.69	-617.42	1,337.40	1,315.40	21.99	60.805		
2,400.00	2,283.88	2,509.97	2,440.86	12.93	11.77	-117.38	1,022.59	-600.90	1,353.04	1,329.83	23.22	58.278		
2,429.47	2,307.63	2,531.31	2,461.48	13.26	11.89	-117.58	1,025.07	-596.01	1,358.38	1,334.80	23.58	57.598		
2,500.00	2,364.26	2,584.23	2,512.72	14.06	12.19	-118.33	1,031.22	-584.32	1,372.03	1,347.56	24.46	56.086		
2,600.00	2,444.56	2,646.86	2,573.60	15.22	12.52	-119.22	1,038.50	-571.53	1,393.38	1,367.76	25.61	54.402		
2,700.00	2,524.85	2,725.29	2,650.25	16.39	12.91	-120.36	1,047.46	-557.51	1,417.34	1,390.54	26.80	52.880		
2,800.00	2,605.14	2,829.54	2,752.56	17.57	13.42	-121.94	1,056.62	-539.78	1,441.69	1,413.62	28.07	51.360		
2,900.00	2,685.43	2,938.77	2,859.68	18.76	13.95	-123.55	1,065.48	-520.36	1,466.02	1,436.69	29.33	49.983		
3,000.00	2,765.73	3,040.73	2,959.33	19.96	14.46	-124.96	1,074.32	-500.68	1,490.13	1,459.57	30.56	48.766		
3,100.00	2,846.02	3,141.32	3,057.09	21.16	15.00	-126.21	1,085.10	-479.62	1,514.39	1,482.59	31.80	47.618		
3,200.00	2,926.31	3,251.36	3,163.76	22.37	15.61	-127.50	1,097.11	-455.41	1,538.44	1,505.35	33.09	46.492		
3,300.00	3,006.60	3,350.83	3,259.97	23.59	16.17	-128.62	1,107.86	-432.52	1,562.11	1,527.80	34.31	45.530		
3,400.00	3,086.90	3,429.29	3,335.78	24.81	16.61	-129.46	1,116.92	-414.45	1,586.56	1,551.15	35.41	44.807		
3,500.00	3,167.19	3,500.02	3,404.20	26.03	17.01	-130.19	1,125.82	-398.90	1,612.73	1,576.28	36.45	44.249		
3,600.00	3,247.48	3,578.44	3,480.15	27.25	17.44	-130.97	1,136.22	-382.36	1,640.33	1,602.82	37.51	43.730		
3,700.00	3,327.77	3,670.38	3,569.35	28.48	17.94	-131.87	1,148.10	-363.52	1,668.78	1,630.15	38.63	43.203		
3,800.00	3,408.07	3,789.67	3,685.21	29.71	18.59	-133.05	1,161.73	-338.62	1,696.86	1,657.00	39.86	42.573		
3,900.00	3,488.36	3,891.93	3,784.55	30.94	19.14	-134.08	1,171.63	-316.49	1,724.19	1,683.24	40.95	42.104		
4,000.00	3,568.65	3,978.42	3,868.51	32.17	19.61	-134.90	1,180.35	-297.64	1,751.94	1,709.99	41.95	41.764		
4,100.00	3,648.95	4,052.00	3,940.05	33.41	20.01	-135.59	1,187.90	-282.16	1,780.82	1,737.96	42.86	41.549		
4,200.00	3,729.24	4,138.45	4,024.16	34.64	20.47	-136.37	1,197.16	-264.47	1,810.70	1,766.88	43.83	41.313		
4,300.00	3,809.53	4,268.40	4,149.88	35.88	21.20	-137.41	1,213.67	-236.05	1,840.10	1,795.01	45.09	40.807		
4,400.00	3,889.82	4,374.21	4,251.91	37.12	21.80	-138.22	1,226.82	-211.31	1,868.30	1,822.10	46.20	40.438		
4,500.00	3,970.12	4,506.31	4,379.25	38.36	22.57	-139.22	1,241.94	-179.62	1,896.17	1,848.74	47.42	39.984		
4,600.00	4,050.41	4,706.63	4,568.77	39.60	23.89	-140.47	1,269.40	-121.07	1,918.88	1,869.79	49.09	39.091		
4,700.00	4,130.70	4,765.00	4,623.45	40.84	24.30	-140.78	1,278.59	-102.83	1,941.11	1,891.08	50.02	38.803		
4,800.00	4,210.99	4,815.88	4,671.46	42.08	24.64	-141.05	1,286.57	-87.98	1,965.55	1,914.68	50.87	38.638		
4,900.00	4,291.29	4,854.00	4,707.76	43.32	24.89	-141.26	1,292.52	-77.99	1,992.82	1,941.23	51.59	38.627		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,371.58	4,924.53	4,775.30	44.57	25.31	-141.66	1,303.48	-60.90	2,022.10	1,969.62	52.48	38.529		
5,100.00	4,451.87	5,045.08	4,890.78	45.81	26.04	-142.31	1,322.43	-31.98	2,051.79	1,998.08	53.71	38.203		
5,200.00	4,532.16	5,133.02	4,974.66	47.05	26.59	-142.74	1,337.20	-10.10	2,080.88	2,026.15	54.73	38.021		
5,300.00	4,612.46	5,210.00	5,048.47	48.30	27.06	-143.14	1,348.87	8.39	2,110.71	2,055.07	55.64	37.937		
5,400.00	4,692.75	5,273.18	5,109.43	49.54	27.42	-143.50	1,357.27	22.72	2,141.72	2,085.33	56.40	37.976		
5,500.00	4,773.04	5,342.73	5,176.80	50.79	27.80	-143.91	1,366.03	37.57	2,174.08	2,116.92	57.17	38.031		
5,600.00	4,853.34	5,428.70	5,260.45	52.03	28.26	-144.45	1,375.42	55.07	2,207.38	2,149.38	58.00	38.060		
5,700.00	4,933.63	5,609.59	5,435.70	53.28	29.27	-145.55	1,393.81	95.84	2,238.57	2,179.20	59.38	37.701		
5,800.00	5,013.92	5,682.72	5,506.06	54.53	29.70	-145.93	1,403.07	113.46	2,268.92	2,208.74	60.18	37.704		
5,900.00	5,094.21	5,744.00	5,565.05	55.77	30.06	-146.22	1,411.56	127.70	2,300.37	2,239.47	60.90	37.770		
6,000.00	5,174.51	5,793.06	5,612.48	57.02	30.32	-146.46	1,418.27	138.32	2,333.51	2,272.00	61.52	37.933		
6,100.00	5,254.80	5,833.00	5,651.33	58.27	30.54	-146.66	1,423.31	146.09	2,368.73	2,306.70	62.02	38.191		
6,200.00	5,335.09	5,904.31	5,720.99	59.52	30.90	-147.03	1,431.64	158.87	2,405.42	2,342.70	62.72	38.353		
6,300.00	5,415.38	6,069.20	5,881.65	60.76	31.76	-147.88	1,450.13	190.98	2,440.28	2,376.21	64.07	38.089		
6,400.00	5,495.68	6,189.21	5,998.40	62.01	32.40	-148.49	1,462.96	215.56	2,474.90	2,409.82	65.08	38.029		
6,500.00	5,575.97	6,423.41	6,224.02	63.26	33.77	-149.57	1,489.26	271.99	2,506.27	2,439.49	66.79	37.527		
6,600.00	5,656.26	6,494.18	6,290.84	64.51	34.23	-149.75	1,502.54	291.13	2,535.05	2,467.39	67.66	37.467		
6,700.00	5,736.55	6,546.00	6,339.95	65.76	34.57	-149.88	1,512.61	304.23	2,565.47	2,497.08	68.39	37.513		
6,800.00	5,816.85	6,609.32	6,400.31	67.01	34.96	-150.05	1,524.37	319.35	2,597.30	2,528.13	69.17	37.548		
6,900.00	5,897.14	6,785.70	6,569.31	68.26	36.03	-150.64	1,550.75	362.25	2,629.25	2,558.57	70.68	37.198		
7,000.00	5,977.43	6,960.34	6,734.74	69.50	37.18	-151.23	1,575.51	412.40	2,655.77	2,583.66	72.12	36.827		
7,100.00	6,057.72	7,018.54	6,789.70	70.75	37.57	-151.40	1,584.77	429.14	2,683.07	2,610.21	72.86	36.824		
7,200.00	6,138.02	7,081.00	6,849.25	72.00	37.97	-151.61	1,593.27	445.97	2,712.05	2,638.46	73.59	36.854		
7,300.00	6,218.31	7,148.03	6,913.65	73.25	38.37	-151.89	1,599.82	463.32	2,742.17	2,667.91	74.26	36.928		
7,400.00	6,298.60	7,239.70	7,002.08	74.50	38.88	-152.36	1,604.31	487.02	2,772.58	2,697.64	74.95	36.994		
7,500.00	6,378.90	7,313.25	7,073.19	75.75	39.28	-152.78	1,605.40	505.82	2,803.47	2,727.98	75.49	37.138		
7,600.00	6,459.19	7,411.35	7,168.08	77.00	39.76	-153.42	1,602.57	530.35	2,835.09	2,759.09	76.00	37.302		
7,700.00	6,539.48	7,819.72	7,538.36	78.25	41.39	-157.84	1,491.64	654.51	2,859.61	2,784.66	74.95	38.155		
7,800.00	6,619.77	7,875.08	7,583.95	79.50	41.58	-158.60	1,466.25	672.96	2,883.48	2,808.46	75.02	38.439		
7,900.00	6,700.07	7,906.45	7,609.01	80.75	41.66	-159.06	1,450.28	682.98	2,909.52	2,834.33	75.18	38.699		
8,000.00	6,780.36	7,931.85	7,628.87	82.00	41.72	-159.45	1,436.40	690.64	2,938.13	2,862.79	75.33	39.001		
8,100.00	6,860.65	7,972.00	7,659.34	83.25	41.82	-160.08	1,412.82	701.89	2,969.45	2,894.12	75.33	39.420		
8,200.00	6,940.94	7,972.00	7,659.34	84.50	41.82	-160.08	1,412.82	701.89	3,003.07	2,927.53	75.54	39.755		
8,300.00	7,021.24	7,972.00	7,659.34	85.76	41.82	-160.08	1,412.82	701.89	3,039.62	2,963.93	75.69	40.161		
8,400.00	7,101.53	8,008.84	7,686.24	87.01	41.86	-160.68	1,389.44	711.17	3,078.22	3,002.66	75.56	40.741		
8,500.00	7,181.82	8,023.50	7,696.64	88.26	41.88	-160.92	1,379.68	714.56	3,119.52	3,044.00	75.52	41.309		
8,605.60	7,266.61	8,061.00	7,722.40	89.58	41.93	-161.56	1,353.59	722.41	3,166.05	3,090.74	75.31	42.041		
8,650.00	7,302.60	8,061.00	7,722.40	90.13	41.93	-169.61	1,353.59	722.41	3,186.02	3,110.72	75.30	42.311		
8,700.00	7,343.78	8,061.00	7,722.40	90.72	41.93	-179.22	1,353.59	722.41	3,208.74	3,133.45	75.29	42.618		
8,750.00	7,385.32	8,061.00	7,722.40	91.28	41.93	170.82	1,353.59	722.41	3,231.53	3,156.25	75.28	42.929		
8,800.00	7,426.92	8,061.00	7,722.40	91.81	41.93	160.84	1,353.59	722.41	3,254.22	3,178.96	75.26	43.239		
8,850.00	7,468.27	8,061.00	7,722.40	92.29	41.93	151.16	1,353.59	722.41	3,276.65	3,201.40	75.24	43.547		
8,900.00	7,509.04	8,061.00	7,722.40	92.72	41.93	142.07	1,353.59	722.41	3,298.64	3,223.41	75.23	43.848		
8,950.00	7,548.93	8,061.00	7,722.40	93.10	41.93	133.75	1,353.59	722.41	3,320.05	3,244.83	75.22	44.139		
9,000.00	7,587.63	8,061.00	7,722.40	93.43	41.93	126.28	1,353.59	722.41	3,340.72	3,265.51	75.21	44.417		
9,050.00	7,624.85	8,099.88	7,748.15	93.71	41.93	119.53	1,325.19	728.85	3,359.14	3,284.11	75.03	44.773		
9,100.00	7,660.30	8,107.39	7,753.06	93.93	41.93	113.78	1,319.59	729.84	3,377.34	3,302.33	75.01	45.026		
9,150.00	7,693.72	8,150.00	7,780.38	94.10	41.93	108.76	1,287.16	733.91	3,395.39	3,320.56	74.83	45.375		
9,200.00	7,724.85	8,150.00	7,780.38	94.23	41.93	104.55	1,287.16	733.91	3,410.53	3,335.65	74.89	45.542		
9,250.00	7,753.45	8,150.00	7,780.38	94.30	41.93	100.94	1,287.16	733.91	3,424.31	3,349.34	74.97	45.674		
9,300.00	7,779.31	8,150.00	7,780.38	94.34	41.93	97.90	1,287.16	733.91	3,436.64	3,361.55	75.09	45.765		
9,350.00	7,802.23	8,150.00	7,780.38	94.33	41.93	95.35	1,287.16	733.91	3,447.45	3,372.19	75.25	45.813		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,150.00	7,780.38	94.28	41.93	93.26	1,287.16	733.91	3,456.65	3,381.20	75.45	45.813		
9,450.00	7,838.57	8,150.00	7,780.38	94.20	41.93	91.59	1,287.16	733.91	3,464.20	3,388.51	75.70	45.764		
9,500.00	7,851.72	8,186.12	7,802.50	94.10	41.89	90.57	1,258.68	735.86	3,469.46	3,393.71	75.75	45.801		
9,550.00	7,861.37	8,200.51	7,810.94	93.96	41.87	89.82	1,247.03	736.44	3,473.02	3,397.04	75.98	45.709		
9,600.00	7,867.46	8,239.00	7,832.39	93.81	41.84	89.64	1,215.10	737.41	3,474.93	3,398.86	76.07	45.683		
9,650.00	7,869.94	8,239.00	7,832.39	93.64	41.84	89.54	1,215.10	737.41	3,474.44	3,397.95	76.48	45.427		
9,659.14	7,870.00	8,239.00	7,832.39	93.60	41.84	89.56	1,215.10	737.41	3,474.16	3,397.60	76.56	45.376		
9,700.00	7,870.00	8,246.15	7,836.19	93.46	41.83	89.62	1,209.04	737.51	3,473.02	3,396.15	76.88	45.175		
9,800.00	7,870.00	8,309.24	7,866.83	93.11	41.74	90.13	1,153.93	738.17	3,471.35	3,394.10	77.25	44.937		
9,885.63	7,870.00	8,363.01	7,888.35	92.82	41.66	90.48	1,104.67	738.38	3,470.90	3,393.36	77.53	44.766		
9,900.00	7,870.00	8,372.05	7,891.42	92.77	41.64	90.54	1,096.17	738.37	3,470.91	3,393.34	77.57	44.744		
10,000.00	7,870.00	8,435.26	7,908.48	92.46	41.55	90.82	1,035.35	737.93	3,471.63	3,393.80	77.84	44.602		
10,100.00	7,870.00	8,494.71	7,920.52	92.16	41.46	91.02	977.15	736.82	3,473.53	3,395.40	78.14	44.455		
10,200.00	7,870.00	8,623.26	7,937.61	91.87	41.30	91.30	849.82	734.24	3,475.45	3,397.67	77.78	44.681		
10,300.00	7,870.00	10,300.00	7,942.99	91.60	145.58	91.38	734.50	731.94	3,477.26	3,405.41	71.85	48.399		
10,400.00	7,870.00	8,904.09	7,942.45	91.34	41.30	91.38	569.21	731.06	3,477.35	3,399.80	77.55	44.841		
10,500.00	7,870.00	9,021.58	7,936.83	91.11	41.47	91.28	451.85	731.88	3,476.15	3,398.23	77.93	44.607		
10,587.10	7,870.00	9,070.25	7,935.05	90.91	41.56	91.25	403.22	732.03	3,475.58	3,397.09	78.49	44.280		
10,600.00	7,870.00	9,076.06	7,934.88	90.88	41.58	91.25	397.41	732.01	3,475.60	3,397.02	78.57	44.233		
10,700.00	7,870.00	9,130.00	7,933.76	90.67	41.70	91.23	343.49	731.18	3,476.62	3,397.36	79.26	43.865		
10,800.00	7,870.00	9,242.85	7,932.30	90.48	42.03	91.21	230.67	729.21	3,478.00	3,397.96	80.04	43.452		
10,900.00	7,870.00	9,326.46	7,932.29	90.31	42.34	91.21	147.08	727.57	3,479.59	3,398.66	80.93	42.997		
11,000.00	7,870.00	9,558.01	7,932.83	90.15	43.58	91.22	-84.42	729.86	3,476.87	3,394.07	82.80	41.992		
11,100.00	7,870.00	9,664.00	7,933.23	90.00	44.33	91.22	-190.37	732.30	3,474.21	3,389.96	84.25	41.237		
11,200.00	7,870.00	9,713.27	7,934.53	89.88	44.70	91.25	-239.61	733.31	3,472.26	3,386.99	85.27	40.721		
11,240.83	7,870.00	9,726.58	7,934.85	89.83	44.80	91.25	-252.92	733.34	3,472.07	3,386.44	85.63	40.548		
11,300.00	7,870.00	9,754.00	7,935.47	89.77	45.02	91.26	-280.33	733.05	3,472.39	3,386.18	86.21	40.277		
11,400.00	7,870.00	9,790.29	7,936.18	89.68	45.29	91.27	-316.61	732.18	3,474.29	3,387.16	87.13	39.874		
11,500.00	7,870.00	9,843.00	7,936.94	89.60	45.71	91.29	-369.27	730.18	3,477.71	3,389.49	88.22	39.420		
11,600.00	7,870.00	9,955.24	7,937.16	89.55	46.65	91.29	-481.41	725.68	3,481.36	3,391.35	90.02	38.674		
11,700.00	7,870.00	10,021.00	7,938.48	89.52	47.24	91.31	-547.09	722.59	3,485.69	3,394.34	91.35	38.159		
11,800.00	7,870.00	10,072.81	7,940.60	89.50	47.71	91.34	-598.77	719.58	3,491.16	3,398.62	92.54	37.727		
11,900.00	7,870.00	11,900.00	7,945.25	89.51	68.87	91.42	-705.99	712.87	3,497.18	3,382.32	114.86	30.448		
12,000.00	7,870.00	10,399.77	7,949.43	89.54	51.07	91.48	-925.16	703.80	3,500.69	3,402.18	98.50	35.538		
12,100.00	7,870.00	10,466.00	7,951.88	89.59	51.82	91.52	-991.30	701.49	3,503.82	3,403.75	100.08	35.011		
12,200.00	7,870.00	10,884.00	7,966.43	89.66	57.18	91.76	-1,408.55	710.56	3,497.43	3,388.42	109.01	32.085		
12,300.00	7,870.00	10,934.36	7,966.39	89.77	57.87	91.76	-1,458.88	712.33	3,493.02	3,382.60	110.42	31.634		
12,400.00	7,870.00	11,075.98	7,966.24	89.89	59.84	91.76	-1,600.34	718.98	3,487.91	3,373.96	113.95	30.609		
12,500.00	7,870.00	11,143.87	7,966.17	90.05	60.80	91.76	-1,668.17	722.07	3,482.99	3,367.17	115.82	30.073		
12,600.00	7,870.00	11,186.79	7,966.14	90.24	61.41	91.77	-1,711.06	723.57	3,479.21	3,362.12	117.09	29.714		
12,700.00	7,870.00	11,241.00	7,966.09	90.46	62.17	91.77	-1,765.26	724.31	3,477.25	3,358.62	118.63	29.312		
12,755.59	7,870.00	11,241.00	7,966.09	90.59	62.17	91.77	-1,765.26	724.31	3,476.81	3,358.06	118.75	29.279		
12,800.00	7,870.00	11,241.00	7,966.09	90.71	62.17	91.77	-1,765.26	724.31	3,477.09	3,358.26	118.83	29.261		
12,900.00	7,870.00	11,293.14	7,966.02	90.99	62.89	91.76	-1,817.40	723.57	3,478.59	3,358.30	120.29	28.918		
13,000.00	7,870.00	11,330.00	7,965.95	91.32	63.40	91.76	-1,854.22	722.06	3,482.23	3,360.86	121.37	28.692		
13,100.00	7,870.00	11,666.22	7,965.27	91.68	68.23	91.75	-2,190.26	719.92	3,480.67	3,350.44	130.23	26.726		
13,200.00	7,870.00	11,813.57	7,964.76	92.08	70.45	91.74	-2,337.56	723.44	3,478.06	3,343.69	134.37	25.883		
13,300.00	7,870.00	11,953.76	7,962.34	92.52	72.60	91.71	-2,477.61	728.96	3,473.71	3,335.33	138.38	25.103		
13,400.00	7,870.00	11,999.38	7,961.48	93.00	73.30	91.69	-2,523.20	730.63	3,469.65	3,329.86	139.79	24.820		
13,500.00	7,870.00	12,043.00	7,960.66	93.53	73.97	91.68	-2,566.80	731.56	3,467.17	3,326.03	141.13	24.567		
13,593.72	7,870.00	12,079.63	7,959.97	94.06	74.53	91.67	-2,603.42	731.74	3,466.38	3,324.13	142.25	24.368		
13,600.00	7,870.00	12,081.98	7,959.93	94.10	74.56	91.67	-2,605.77	731.73	3,466.38	3,324.06	142.32	24.356		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,700.00	7,870.00	12,132.00	7,958.98	94.72	75.32	91.65	-2,655.78	730.87	3,467.46	3,323.65	143.80	24.112		
13,800.00	7,870.00	12,299.88	7,955.79	95.38	77.90	91.60	-2,823.62	729.71	3,467.57	3,318.82	148.75	23.312		
13,900.00	7,870.00	12,389.63	7,954.12	96.09	79.28	91.57	-2,913.34	729.59	3,467.31	3,315.88	151.44	22.896		
14,000.00	7,870.00	12,611.73	7,952.76	96.84	82.79	91.55	-3,135.37	734.48	3,463.92	3,305.77	158.15	21.902		
14,100.00	7,870.00	12,703.34	7,952.44	97.64	84.26	91.55	-3,226.94	737.27	3,460.51	3,299.52	160.99	21.495		
14,200.00	7,870.00	12,801.01	7,952.13	98.48	85.82	91.54	-3,324.56	740.32	3,457.05	3,293.02	164.03	21.076		
14,300.00	7,870.00	12,844.00	7,952.09	99.37	86.52	91.54	-3,367.53	741.55	3,454.25	3,288.87	165.39	20.886		
14,400.00	7,870.00	12,900.29	7,952.05	100.30	87.41	91.54	-3,423.82	742.35	3,452.81	3,285.68	167.13	20.659		
14,418.32	7,870.00	12,907.21	7,952.04	100.47	87.52	91.54	-3,430.74	742.34	3,452.77	3,285.42	167.34	20.633		
14,500.00	7,870.00	12,934.00	7,952.01	101.26	87.95	91.54	-3,457.52	742.10	3,453.31	3,285.17	168.14	20.539		
14,600.00	7,870.00	12,980.80	7,951.95	102.27	88.69	91.54	-3,504.31	740.94	3,455.52	3,286.00	169.53	20.384		
14,700.00	7,870.00	13,023.00	7,951.87	103.31	89.35	91.54	-3,546.47	739.16	3,459.41	3,288.67	170.73	20.262		
14,800.00	7,870.00	13,154.02	7,951.58	104.38	91.40	91.53	-3,677.35	733.11	3,463.68	3,288.80	174.87	19.807		
14,900.00	7,870.00	13,258.42	7,951.43	105.49	93.05	91.53	-3,781.66	728.97	3,467.30	3,289.14	178.16	19.462		
15,000.00	7,870.00	13,375.26	7,951.17	106.63	94.90	91.52	-3,898.42	724.40	3,470.88	3,289.01	181.87	19.084		
15,100.00	7,870.00	13,465.33	7,950.89	107.80	96.34	91.52	-3,988.42	721.09	3,474.21	3,289.51	184.70	18.810		
15,200.00	7,870.00	13,590.14	7,950.71	109.00	98.34	91.51	-4,113.16	716.79	3,477.31	3,288.59	188.72	18.425		
15,300.00	7,870.00	13,943.99	7,954.82	110.22	104.16	91.58	-4,466.82	719.05	3,476.18	3,275.80	200.38	17.348		
15,400.00	7,870.00	14,044.91	7,957.66	111.47	105.85	91.63	-4,567.59	723.91	3,471.10	3,267.39	203.71	17.039		
15,500.00	7,870.00	14,092.00	7,958.64	112.74	106.64	91.65	-4,614.63	725.64	3,467.24	3,261.96	205.28	16.891		
15,600.00	7,870.00	14,167.11	7,959.88	114.03	107.90	91.67	-4,689.71	727.55	3,464.45	3,256.70	207.74	16.677		
15,700.00	7,870.00	14,234.82	7,961.01	115.34	109.03	91.69	-4,757.40	728.61	3,462.60	3,252.65	209.95	16.493		
15,800.00	7,870.00	14,301.31	7,962.11	116.68	110.13	91.71	-4,823.88	729.02	3,461.70	3,249.60	212.10	16.321		
15,840.60	7,870.00	14,327.74	7,962.55	117.22	110.57	91.71	-4,850.30	729.00	3,461.62	3,248.67	212.95	16.256		
15,900.00	7,870.00	14,359.00	7,963.07	118.02	111.09	91.72	-4,881.56	728.83	3,461.81	3,247.88	213.93	16.182		
16,000.00	7,870.00	14,423.99	7,964.16	119.39	112.16	91.74	-4,946.54	727.89	3,463.02	3,247.03	215.99	16.034		
16,100.00	7,870.00	14,606.38	7,966.98	120.77	115.19	91.79	-5,128.88	725.98	3,463.88	3,241.70	222.18	15.591		
16,200.00	7,870.00	14,704.10	7,968.41	122.17	116.83	91.81	-5,226.59	726.30	3,463.26	3,237.84	225.42	15.364		
16,300.00	7,870.00	14,789.48	7,969.62	123.58	118.26	91.83	-5,311.97	726.30	3,462.98	3,234.75	228.23	15.173		
16,400.00	7,870.00	14,903.85	7,971.32	125.00	120.17	91.86	-5,426.32	726.19	3,462.79	3,230.73	232.07	14.922		
16,500.00	7,870.00	15,011.20	7,972.90	126.43	121.98	91.89	-5,533.66	726.29	3,462.42	3,226.76	235.66	14.692		
16,600.00	7,870.00	15,116.46	7,974.04	127.88	123.75	91.90	-5,638.91	727.25	3,461.19	3,222.00	239.19	14.470		
16,675.75	7,870.00	15,163.00	7,973.54	128.98	124.54	91.90	-5,685.45	727.26	3,460.88	3,220.20	240.69	14.379		
16,700.00	7,870.00	15,163.00	7,973.54	129.34	124.54	91.90	-5,685.45	727.26	3,460.97	3,220.34	240.63	14.383		
16,800.00	7,870.00	15,233.91	7,972.28	130.81	125.73	91.88	-5,756.34	726.41	3,461.86	3,218.96	242.90	14.252		
16,900.00	7,870.00	15,314.67	7,970.74	132.28	127.08	91.85	-5,837.06	724.52	3,463.78	3,218.26	245.52	14.108		
17,000.00	7,870.00	15,406.49	7,968.56	133.77	128.61	91.81	-5,928.82	722.10	3,466.00	3,217.46	248.54	13.945		
17,100.00	7,870.00	15,484.22	7,967.87	135.27	129.91	91.80	-6,006.52	719.81	3,468.60	3,217.55	251.05	13.816		
17,200.00	7,870.00	15,554.14	7,967.87	136.77	131.07	91.80	-6,076.39	717.21	3,471.99	3,218.73	253.26	13.709		
17,300.00	7,870.00	16,232.00	7,979.80	138.28	142.71	92.01	-6,750.36	748.67	3,464.24	3,188.24	276.00	12.552		
17,400.00	7,870.00	16,276.81	7,983.78	139.80	143.49	92.08	-6,794.66	754.09	3,452.20	3,174.36	277.84	12.425		
17,500.00	7,870.00	16,321.00	7,988.08	141.33	144.27	92.16	-6,838.41	758.56	3,441.95	3,162.34	279.61	12.310		
17,600.00	7,870.00	16,321.00	7,988.08	142.86	144.27	92.16	-6,838.41	758.56	3,433.84	3,153.99	279.85	12.270		
17,700.00	7,870.00	16,366.82	7,992.36	144.40	145.07	92.23	-6,883.91	761.82	3,427.41	3,145.92	281.49	12.176		
17,800.00	7,870.00	16,410.00	7,995.72	145.95	145.82	92.29	-6,926.94	763.17	3,423.62	3,140.65	282.97	12.099		
17,900.00	7,870.00	16,410.00	7,995.72	147.50	145.82	92.29	-6,926.94	763.17	3,421.66	3,138.87	282.79	12.100		
17,951.19	7,870.00	16,444.15	7,997.76	148.30	146.40	92.32	-6,961.02	763.35	3,421.40	3,137.50	283.91	12.051		
18,000.00	7,870.00	16,465.66	7,998.68	149.06	146.76	92.34	-6,982.51	763.23	3,421.60	3,137.05	284.55	12.025		
18,100.00	7,870.00	16,536.91	8,000.13	150.63	147.97	92.36	-7,053.73	761.88	3,423.12	3,136.27	286.85	11.933		
18,200.00	7,870.00	16,675.56	8,002.18	152.20	150.33	92.40	-7,192.35	760.09	3,424.11	3,132.39	291.72	11.738		
18,300.00	7,870.00	16,753.75	8,003.29	153.77	151.66	92.41	-7,270.54	759.24	3,424.93	3,130.63	294.30	11.638		
18,400.00	7,870.00	16,883.23	8,005.07	155.35	153.87	92.44	-7,399.99	757.92	3,425.67	3,126.85	298.82	11.464		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,500.00	7,870.00	16,982.43	8,006.40	156.93	155.57	92.47	-7,499.18	757.41	3,425.91	3,123.70	302.21	11.336	
18,600.00	7,870.00	17,099.37	8,007.99	158.52	157.57	92.49	-7,616.11	756.78	3,426.20	3,119.95	306.26	11.187	
18,654.75	7,870.00	17,147.83	8,008.67	159.39	158.40	92.50	-7,664.56	756.77	3,426.07	3,118.18	307.89	11.127	
18,700.00	7,870.00	17,176.27	8,009.08	160.11	158.89	92.51	-7,693.00	756.62	3,426.18	3,117.38	308.81	11.095	
18,800.00	7,870.00	17,212.00	8,009.58	161.71	159.50	92.52	-7,728.73	756.24	3,427.39	3,117.65	309.74	11.066	
18,900.00	7,870.00	17,276.69	8,010.08	163.31	160.60	92.53	-7,793.39	754.58	3,429.86	3,118.12	311.74	11.002	
19,000.00	7,870.00	17,322.89	8,009.95	164.91	161.38	92.52	-7,839.55	752.48	3,434.04	3,121.10	312.94	10.973	
19,100.00	7,870.00	17,370.29	8,009.53	166.52	162.17	92.51	-7,886.85	749.59	3,439.76	3,125.63	314.13	10.950	
19,200.00	7,870.00	17,390.00	8,009.27	168.13	162.50	92.51	-7,906.51	748.17	3,447.24	3,133.20	314.04	10.977	
19,300.00	7,870.00	17,450.70	8,008.38	169.75	163.50	92.49	-7,966.96	742.76	3,456.08	3,140.43	315.66	10.949 SF	
19,383.51	7,870.00	17,479.00	8,007.94	171.10	163.97	92.48	-7,995.08	739.65	3,464.99	3,149.03	315.95	10.967	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.11	786.52	-1,010.78	1,280.77					
100.00	100.00	89.35	89.35	0.13	0.15	-52.10	786.67	-1,010.69	1,280.76	1,280.48	0.28	4,523.596		
200.00	200.00	188.62	188.61	0.49	0.31	-52.08	787.19	-1,010.39	1,280.84	1,280.03	0.81	1,587.533		
300.00	300.00	287.88	287.87	0.85	0.48	-52.03	788.07	-1,009.87	1,280.98	1,279.64	1.33	962.791		
400.00	400.00	386.05	386.04	1.21	0.77	-51.97	789.27	-1,009.21	1,281.20	1,279.22	1.98	646.008		
500.00	500.00	483.75	483.72	1.57	1.12	-51.91	790.68	-1,008.60	1,281.60	1,278.91	2.69	476.061		
600.00	600.00	581.45	581.40	1.93	1.47	-51.83	792.30	-1,008.05	1,282.18	1,278.78	3.40	376.994		
700.00	699.98	771.71	771.32	2.28	2.16	-115.44	795.69	-998.51	1,280.10	1,275.66	4.44	288.486		
800.00	799.84	935.53	933.18	2.64	2.81	-115.01	801.93	-974.49	1,273.02	1,267.62	5.40	235.614		
900.00	899.45	1,037.90	1,033.17	3.00	3.26	-114.66	809.44	-953.88	1,265.56	1,259.37	6.19	204.478		
1,000.00	998.70	1,142.54	1,134.07	3.37	3.78	-114.18	820.67	-928.63	1,258.58	1,251.54	7.04	178.651		
1,100.00	1,097.47	1,225.19	1,212.98	3.76	4.22	-113.74	832.71	-907.16	1,254.14	1,246.28	7.86	159.575		
1,200.00	1,195.62	1,327.73	1,310.11	4.18	4.81	-113.15	850.32	-879.48	1,252.12	1,243.27	8.84	141.621		
1,291.82	1,285.12	1,413.27	1,390.27	4.59	5.34	-112.64	866.47	-854.33	1,250.89	1,241.13	9.76	128.197 CC		
1,300.00	1,293.06	1,419.44	1,396.05	4.63	5.38	-112.61	867.68	-852.54	1,250.90	1,241.07	9.83	127.226		
1,400.00	1,389.64	1,513.13	1,483.84	5.11	5.98	-112.13	886.51	-825.78	1,252.46	1,241.57	10.89	114.994		
1,500.00	1,485.27	1,667.09	1,627.14	5.63	7.03	-111.55	915.53	-777.66	1,252.24	1,239.84	12.40	101.003		
1,521.88	1,506.05	1,682.24	1,641.20	5.76	7.14	-111.50	918.29	-772.74	1,252.15	1,239.53	12.62	99.194 ES		
1,600.00	1,579.82	1,741.48	1,696.26	6.20	7.55	-111.35	929.59	-754.03	1,253.25	1,239.79	13.46	93.095		
1,700.00	1,673.17	1,854.99	1,801.90	6.83	8.35	-111.20	951.43	-718.71	1,256.37	1,241.55	14.83	84.737		
1,800.00	1,765.21	1,966.50	1,905.90	7.51	9.14	-111.28	970.41	-683.26	1,258.67	1,242.45	16.22	77.618		
1,900.00	1,855.84	2,075.26	2,008.00	8.24	9.89	-111.60	987.40	-649.82	1,262.19	1,244.57	17.61	71.665		
2,000.00	1,944.94	2,185.99	2,112.43	9.05	10.63	-112.17	1,002.16	-616.10	1,265.75	1,246.72	19.03	66.499		
2,100.00	2,032.39	2,261.96	2,184.42	9.91	11.13	-112.65	1,012.04	-593.96	1,271.61	1,251.33	20.28	62.694		
2,200.00	2,118.11	2,366.28	2,283.82	10.85	11.80	-113.53	1,024.72	-564.98	1,279.63	1,257.93	21.70	58.965		
2,300.00	2,201.97	2,459.68	2,373.12	11.85	12.38	-114.44	1,034.91	-539.57	1,289.15	1,266.08	23.07	55.868		
2,400.00	2,283.88	2,536.56	2,446.66	12.93	12.85	-115.19	1,044.00	-519.07	1,301.65	1,277.26	24.39	53.372		
2,429.47	2,307.63	2,559.08	2,468.20	13.26	12.99	-115.41	1,046.86	-513.17	1,305.98	1,281.20	24.78	52.704		
2,500.00	2,364.26	2,612.83	2,519.64	14.06	13.32	-116.13	1,054.02	-499.30	1,317.21	1,291.49	25.71	51.225		
2,600.00	2,444.56	2,690.31	2,593.80	15.22	13.80	-117.13	1,065.13	-479.85	1,334.77	1,307.73	27.04	49.370		
2,700.00	2,524.85	2,790.48	2,689.70	16.39	14.42	-118.39	1,080.00	-455.00	1,353.47	1,324.99	28.48	47.517		
2,800.00	2,605.14	2,922.35	2,815.51	17.57	15.25	-119.98	1,098.33	-420.02	1,370.81	1,340.70	30.11	45.528		
2,900.00	2,685.43	3,027.87	2,915.87	18.76	15.93	-121.22	1,112.16	-390.48	1,387.17	1,355.60	31.56	43.951		
3,000.00	2,765.73	3,147.48	3,029.36	19.96	16.72	-122.58	1,127.09	-355.81	1,402.94	1,369.86	33.07	42.419		
3,100.00	2,846.02	3,237.21	3,113.79	21.16	17.34	-123.50	1,139.52	-328.09	1,418.23	1,383.79	34.44	41.175		
3,200.00	2,926.31	3,307.00	3,179.32	22.37	17.82	-124.14	1,151.21	-307.14	1,435.78	1,400.08	35.70	40.217		
3,300.00	3,006.60	3,415.73	3,281.44	23.59	18.58	-125.11	1,169.67	-274.73	1,454.18	1,416.99	37.19	39.099		
3,400.00	3,086.90	3,512.96	3,372.62	24.81	19.27	-125.97	1,185.56	-244.93	1,471.85	1,433.25	38.59	38.139		
3,500.00	3,167.19	3,593.01	3,447.37	26.03	19.84	-126.61	1,199.92	-220.13	1,490.21	1,450.33	39.88	37.364		
3,600.00	3,247.48	3,663.00	3,513.20	27.25	20.33	-127.19	1,212.49	-200.00	1,510.68	1,469.62	41.07	36.785		
3,700.00	3,327.77	3,762.59	3,607.31	28.48	20.99	-128.03	1,229.77	-172.38	1,532.27	1,489.86	42.41	36.128		
3,800.00	3,408.07	3,850.67	3,690.62	29.71	21.58	-128.77	1,244.45	-147.83	1,553.78	1,510.13	43.65	35.596		
3,900.00	3,488.36	3,917.39	3,753.96	30.94	22.01	-129.33	1,255.57	-130.06	1,576.69	1,531.99	44.70	35.270		
4,000.00	3,568.65	3,988.96	3,822.18	32.17	22.47	-129.93	1,267.80	-112.21	1,601.55	1,555.79	45.76	35.001		
4,100.00	3,648.95	4,084.91	3,914.09	33.41	23.05	-130.76	1,283.29	-89.45	1,627.53	1,580.59	46.94	34.674		
4,200.00	3,729.24	4,219.97	4,043.77	34.64	23.86	-131.99	1,301.40	-56.35	1,652.26	1,603.96	48.30	34.209		
4,300.00	3,809.53	4,336.60	4,155.33	35.88	24.58	-133.04	1,315.52	-25.40	1,675.02	1,625.52	49.51	33.835		
4,400.00	3,889.82	4,392.47	4,209.02	37.12	24.92	-133.55	1,321.79	-11.27	1,699.13	1,648.81	50.32	33.764		
4,500.00	3,970.12	4,509.80	4,322.13	38.36	25.60	-134.64	1,334.27	17.26	1,724.45	1,673.01	51.44	33.525		
4,600.00	4,050.41	4,595.73	4,404.41	39.60	26.13	-135.34	1,345.31	39.45	1,749.25	1,696.82	52.43	33.364		
4,700.00	4,130.70	4,655.44	4,461.70	40.84	26.49	-135.81	1,353.32	54.22	1,775.49	1,722.25	53.24	33.350		
4,800.00	4,210.99	4,800.00	4,608.93	42.08	27.36	-137.01	1,373.20	91.99	1,802.41	1,747.85	54.56	33.035		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,291.29	4,908.66	4,704.19	43.32	28.05	-137.76	1,385.15	119.58	1,826.14	1,770.51	55.63	32.826		
5,000.00	4,371.58	4,961.87	4,755.32	44.57	28.37	-138.19	1,390.73	133.20	1,851.79	1,795.44	56.34	32.865		
5,100.00	4,451.87	5,015.26	4,806.83	45.81	28.68	-138.60	1,396.89	145.83	1,879.76	1,822.74	57.02	32.966		
5,200.00	4,532.16	5,140.00	4,926.67	47.05	29.43	-139.44	1,414.50	175.60	1,908.33	1,850.11	58.21	32.782		
5,300.00	4,612.46	5,208.00	4,991.69	48.30	29.85	-139.85	1,425.17	192.39	1,936.66	1,877.61	59.04	32.802		
5,400.00	4,692.75	5,262.61	5,044.17	49.54	30.16	-140.19	1,433.56	204.93	1,966.77	1,907.04	59.72	32.931		
5,500.00	4,773.04	5,356.18	5,134.77	50.79	30.69	-140.80	1,446.66	224.28	1,998.88	1,938.23	60.65	32.956		
5,600.00	4,853.34	5,501.26	5,274.99	52.03	31.51	-141.76	1,464.79	256.84	2,029.38	1,967.49	61.90	32.786		
5,700.00	4,933.63	5,625.15	5,393.69	53.28	32.27	-142.50	1,480.95	288.38	2,057.02	1,993.99	63.02	32.640		
5,800.00	5,013.92	5,678.33	5,444.71	54.53	32.58	-142.81	1,488.15	301.55	2,085.94	2,022.27	63.67	32.761		
5,900.00	5,094.21	5,719.25	5,484.25	55.77	32.81	-143.06	1,493.44	310.63	2,117.27	2,053.08	64.19	32.987		
6,000.00	5,174.51	5,777.13	5,540.58	57.02	33.12	-143.42	1,500.35	322.02	2,150.89	2,086.12	64.77	33.211		
6,100.00	5,254.80	5,879.20	5,640.27	58.27	33.64	-144.10	1,510.54	341.39	2,185.32	2,119.71	65.61	33.310		
6,200.00	5,335.09	6,040.77	5,796.91	59.52	34.53	-145.03	1,530.35	375.67	2,218.15	2,151.21	66.94	33.137		
6,300.00	5,415.38	6,142.44	5,894.34	60.76	35.14	-145.49	1,546.09	400.06	2,248.67	2,180.73	67.94	33.097		
6,400.00	5,495.68	6,205.28	5,954.93	62.01	35.51	-145.80	1,554.79	414.27	2,280.50	2,211.89	68.61	33.237		
6,500.00	5,575.97	6,277.00	6,024.18	63.26	35.91	-146.14	1,564.92	429.92	2,313.32	2,243.98	69.34	33.363		
6,600.00	5,656.26	6,341.55	6,086.65	64.51	36.27	-146.44	1,574.07	443.34	2,347.26	2,277.27	69.99	33.537		
6,700.00	5,736.55	6,421.89	6,164.78	65.76	36.70	-146.84	1,584.34	458.97	2,382.39	2,311.66	70.73	33.685		
6,800.00	5,816.85	6,626.64	6,363.47	67.01	37.81	-147.86	1,608.57	501.97	2,416.97	2,344.65	72.33	33.417		
6,900.00	5,897.14	6,900.00	6,543.00	68.26	39.54	-148.70	1,631.87	551.85	2,444.94	2,370.74	74.20	32.950		
7,000.00	5,977.43	6,869.25	6,595.06	69.50	39.33	-148.91	1,639.92	566.89	2,473.10	2,398.65	74.45	33.218		
7,100.00	6,057.72	6,929.78	6,652.99	70.75	39.71	-149.14	1,648.58	582.18	2,503.19	2,428.07	75.12	33.321		
7,200.00	6,138.02	6,991.00	6,711.72	72.00	40.08	-149.39	1,656.65	597.47	2,533.97	2,458.20	75.76	33.446		
7,300.00	6,218.31	7,053.76	6,772.22	73.25	40.44	-149.66	1,664.18	612.37	2,565.99	2,489.62	76.37	33.598		
7,400.00	6,298.60	7,098.75	6,815.87	74.50	40.69	-149.86	1,669.14	622.06	2,600.00	2,523.18	76.82	33.844		
7,500.00	6,378.90	7,467.58	7,166.67	75.75	42.24	-153.03	1,633.68	708.81	2,634.44	2,557.22	77.21	34.119		
7,600.00	6,459.19	7,491.96	7,188.55	77.00	42.31	-153.35	1,625.13	715.33	2,661.98	2,584.62	77.36	34.409		
7,700.00	6,539.48	7,525.00	7,218.49	78.25	42.41	-153.79	1,613.77	723.45	2,692.30	2,614.89	77.41	34.780		
7,800.00	6,619.77	7,525.00	7,218.49	79.50	42.41	-153.79	1,613.77	723.45	2,725.33	2,647.76	77.57	35.132		
7,900.00	6,700.07	7,574.88	7,263.79	80.75	42.51	-154.46	1,595.98	734.38	2,760.45	2,683.01	77.44	35.646		
8,000.00	6,780.36	7,614.00	7,299.06	82.00	42.59	-155.00	1,580.87	741.97	2,798.15	2,720.84	77.32	36.192		
8,100.00	6,860.65	7,684.21	7,361.62	83.25	42.70	-155.99	1,551.84	755.09	2,837.65	2,760.64	77.01	36.847		
8,200.00	6,940.94	7,732.34	7,403.80	84.50	42.77	-156.68	1,530.52	764.23	2,878.19	2,801.41	76.78	37.486		
8,300.00	7,021.24	7,765.32	7,432.15	85.76	42.82	-157.17	1,514.72	770.10	2,920.78	2,844.20	76.58	38.142		
8,400.00	7,101.53	7,835.81	7,490.77	87.01	42.89	-158.28	1,477.49	782.02	2,965.38	2,889.23	76.15	38.942		
8,500.00	7,181.82	8,500.00	7,580.88	88.26	43.85	-160.27	1,404.86	804.73	3,009.89	2,933.87	76.02	39.594		
8,605.60	7,266.61	7,970.00	7,592.99	89.58	43.00	-160.54	1,394.63	807.94	3,058.97	2,983.76	75.21	40.673		
8,650.00	7,302.60	7,970.00	7,592.99	90.13	43.00	-168.80	1,394.63	807.94	3,080.35	3,005.20	75.15	40.988		
8,700.00	7,343.78	8,005.77	7,617.99	90.72	43.01	-179.20	1,370.04	814.97	3,104.03	3,029.12	74.91	41.437		
8,750.00	7,385.32	8,014.72	7,623.90	91.28	43.01	170.53	1,363.54	816.60	3,128.11	3,053.30	74.81	41.815		
8,800.00	7,426.92	8,024.11	7,629.97	91.81	43.02	160.25	1,356.56	818.26	3,151.99	3,077.28	74.70	42.193		
8,850.00	7,468.27	8,059.00	7,651.09	92.29	43.03	150.01	1,329.38	823.91	3,175.83	3,101.39	74.45	42.660		
8,900.00	7,509.04	8,059.00	7,651.09	92.72	43.03	140.85	1,329.38	823.91	3,198.51	3,124.11	74.40	42.990		
8,950.00	7,548.93	8,059.00	7,651.09	93.10	43.03	132.47	1,329.38	823.91	3,220.53	3,146.17	74.36	43.307		
9,000.00	7,587.63	8,059.00	7,651.09	93.43	43.03	124.95	1,329.38	823.91	3,241.76	3,167.42	74.34	43.608		
9,050.00	7,624.85	8,059.00	7,651.09	93.71	43.03	118.30	1,329.38	823.91	3,262.04	3,187.71	74.33	43.888		
9,100.00	7,660.30	8,094.39	7,670.36	93.93	43.00	112.31	1,300.14	828.90	3,280.63	3,206.55	74.09	44.280		
9,150.00	7,693.72	8,108.56	7,677.50	94.10	42.99	107.26	1,288.04	830.72	3,298.04	3,224.03	74.01	44.563		
9,200.00	7,724.85	8,148.00	7,695.60	94.23	42.97	102.84	1,253.29	835.24	3,314.22	3,240.47	73.74	44.942		
9,250.00	7,753.45	8,148.00	7,695.60	94.30	42.97	99.24	1,253.29	835.24	3,328.19	3,254.37	73.82	45.088		
9,300.00	7,779.31	8,148.00	7,695.60	94.34	42.97	96.20	1,253.29	835.24	3,340.62	3,266.70	73.93	45.189		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	8,184.34	7,710.47	94.33	42.92	93.65	1,220.34	838.91	3,351.10	3,277.34	73.76	45.430		
9,400.00	7,822.03	8,212.92	7,721.34	94.28	42.89	91.64	1,194.06	841.67	3,359.50	3,285.80	73.69	45.587		
9,450.00	7,838.57	8,237.00	7,729.94	94.20	42.87	90.10	1,171.67	843.89	3,365.74	3,292.04	73.70	45.671		
9,500.00	7,851.72	8,266.79	7,740.01	94.10	42.83	89.02	1,143.76	846.48	3,369.80	3,296.10	73.70	45.722		
9,550.00	7,861.37	8,292.37	7,748.29	93.96	42.80	88.37	1,119.64	848.53	3,371.70	3,297.92	73.78	45.698		
9,600.00	7,867.46	8,327.00	7,758.92	93.81	42.76	88.17	1,086.78	851.06	3,371.44	3,297.62	73.82	45.671		
9,650.00	7,869.94	8,327.00	7,758.92	93.64	42.76	88.23	1,086.78	851.06	3,369.03	3,294.83	74.21	45.401		
9,659.14	7,870.00	8,327.00	7,758.92	93.60	42.76	88.28	1,086.78	851.06	3,368.40	3,294.12	74.28	45.346		
9,700.00	7,870.00	8,355.79	7,767.12	93.46	42.73	88.41	1,059.25	852.84	3,365.35	3,290.97	74.38	45.245		
9,800.00	7,870.00	8,416.00	7,781.93	93.11	42.66	88.67	1,000.94	855.32	3,359.71	3,285.02	74.70	44.978		
9,900.00	7,870.00	8,416.00	7,781.93	92.77	42.66	88.67	1,000.94	855.32	3,355.57	3,279.98	75.59	44.389		
10,000.00	7,870.00	8,454.20	7,789.30	92.46	42.60	88.79	963.48	855.85	3,353.68	3,277.52	76.16	44.035		
10,037.16	7,870.00	8,465.07	7,791.03	92.34	42.59	88.82	952.75	855.82	3,353.53	3,277.12	76.41	43.887		
10,100.00	7,870.00	8,505.00	7,796.00	92.16	42.54	88.91	913.14	855.02	3,354.18	3,277.60	76.58	43.798		
10,200.00	7,870.00	8,735.68	7,803.23	91.87	42.40	89.03	682.68	854.42	3,355.51	3,280.00	75.50	44.442		
10,300.00	7,870.00	8,810.76	7,804.59	91.60	42.44	89.05	607.66	856.78	3,352.17	3,276.25	75.92	44.154		
10,400.00	7,870.00	8,861.00	7,804.98	91.34	42.49	89.06	557.42	857.26	3,350.65	3,274.15	76.50	43.800		
10,432.39	7,870.00	8,861.00	7,804.98	91.26	42.49	89.06	557.42	857.26	3,350.50	3,273.72	76.77	43.641		
10,500.00	7,870.00	8,890.92	7,804.94	91.11	42.51	89.06	527.50	857.02	3,350.85	3,273.64	77.21	43.400		
10,600.00	7,870.00	8,950.00	7,804.26	90.88	42.57	89.05	468.45	855.41	3,352.98	3,275.18	77.81	43.095		
10,700.00	7,870.00	9,009.02	7,803.63	90.67	42.64	89.04	409.48	853.08	3,356.33	3,277.87	78.46	42.775		
10,800.00	7,870.00	9,196.41	7,803.10	90.48	43.08	89.03	222.14	849.04	3,357.77	3,278.65	79.13	42.436		
10,900.00	7,870.00	9,340.95	7,803.01	90.31	43.64	89.03	77.61	848.05	3,358.14	3,277.89	80.25	41.847		
11,000.00	7,870.00	9,461.53	7,803.35	90.15	44.27	89.03	-42.96	848.45	3,357.47	3,275.93	81.54	41.174		
11,100.00	7,870.00	9,550.09	7,802.92	90.00	44.81	89.03	-131.52	848.97	3,356.57	3,273.79	82.78	40.550		
11,200.00	7,870.00	9,647.97	7,801.71	89.88	45.49	89.00	-229.39	849.18	3,356.04	3,271.86	84.18	39.869		
11,261.72	7,870.00	9,684.65	7,800.95	89.81	45.76	88.99	-266.06	849.20	3,355.85	3,270.98	84.87	39.542		
11,300.00	7,870.00	9,701.67	7,800.43	89.77	45.89	88.98	-283.07	849.07	3,356.03	3,270.80	85.24	39.373		
11,400.00	7,870.00	9,752.00	7,798.15	89.68	46.28	88.94	-333.34	848.07	3,357.68	3,271.41	86.27	38.922		
11,500.00	7,870.00	10,052.77	7,799.03	89.60	49.07	88.96	-633.85	851.65	3,354.47	3,263.82	90.66	37.001		
11,600.00	7,870.00	10,146.35	7,802.24	89.55	50.08	89.01	-727.33	854.52	3,351.01	3,258.42	92.59	36.193		
11,700.00	7,870.00	10,262.43	7,805.81	89.52	51.38	89.07	-843.29	858.43	3,347.24	3,252.25	94.99	35.238		
11,800.00	7,870.00	10,347.09	7,808.01	89.50	52.37	89.11	-927.87	861.37	3,343.40	3,246.50	96.90	34.503		
11,900.00	7,870.00	10,490.22	7,810.47	89.51	54.12	89.15	-1,070.85	867.34	3,338.71	3,238.68	100.03	33.377		
12,000.00	7,870.00	10,528.31	7,810.95	89.54	54.60	89.16	-1,108.91	868.69	3,334.82	3,233.72	101.10	32.987		
12,100.00	7,870.00	10,576.31	7,811.02	89.59	55.20	89.16	-1,156.90	869.47	3,332.74	3,230.38	102.36	32.558		
12,200.00	7,870.00	10,643.00	7,810.67	89.66	56.04	89.15	-1,223.59	869.88	3,331.81	3,227.79	104.02	32.031		
12,259.12	7,870.00	10,688.69	7,810.24	89.72	56.61	89.14	-1,269.28	869.84	3,331.67	3,226.53	105.14	31.687		
12,300.00	7,870.00	10,719.01	7,809.91	89.77	57.00	89.14	-1,299.59	869.70	3,331.74	3,225.85	105.89	31.464		
12,400.00	7,870.00	10,819.42	7,808.52	89.89	58.29	89.11	-1,399.99	869.00	3,332.12	3,223.79	108.33	30.760		
12,500.00	7,870.00	10,922.74	7,806.12	90.05	59.65	89.07	-1,503.29	868.45	3,332.35	3,221.47	110.88	30.054		
12,600.00	7,870.00	11,019.54	7,801.25	90.24	60.95	88.99	-1,599.96	867.91	3,332.66	3,219.35	113.31	29.412		
12,700.00	7,870.00	11,124.47	7,794.13	90.46	62.39	88.87	-1,704.65	867.44	3,332.89	3,216.93	115.96	28.742		
12,800.00	7,870.00	11,209.01	7,787.94	90.71	63.56	88.76	-1,788.95	867.03	3,333.21	3,215.06	118.16	28.210		
12,900.00	7,870.00	11,302.91	7,780.68	90.99	64.87	88.64	-1,882.57	866.09	3,334.05	3,213.44	120.61	27.644		
13,000.00	7,870.00	11,403.74	7,772.53	91.32	66.30	88.50	-1,983.06	865.15	3,334.85	3,211.58	123.27	27.054		
13,100.00	7,870.00	11,521.16	7,761.61	91.68	67.99	88.31	-2,099.97	864.34	3,335.47	3,209.08	126.39	26.391		
13,179.69	7,870.00	11,611.53	7,752.08	91.99	69.31	88.15	-2,189.83	864.36	3,335.43	3,206.61	128.82	25.893		
13,200.00	7,870.00	11,625.10	7,750.86	92.08	69.51	88.12	-2,203.35	864.34	3,335.45	3,206.26	129.19	25.819		
13,300.00	7,870.00	11,751.22	7,744.77	92.52	71.37	88.02	-2,329.30	863.61	3,336.00	3,203.29	132.71	25.137		
13,400.00	7,870.00	11,837.30	7,743.08	93.00	72.65	87.99	-2,415.36	863.92	3,335.41	3,200.23	135.19	24.673		
13,417.68	7,870.00	11,849.76	7,743.03	93.09	72.83	87.99	-2,427.82	863.89	3,335.40	3,199.85	135.55	24.607		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,500.00	7,870.00	11,919.36	7,743.57	93.53	73.87	88.00	-2,497.42	863.48	3,335.58	3,198.00	137.58	24.244		
13,600.00	7,870.00	12,033.97	7,745.92	94.10	75.60	88.04	-2,612.00	862.69	3,335.88	3,194.90	140.98	23.662		
13,700.00	7,870.00	12,175.32	7,749.32	94.72	77.76	88.10	-2,753.30	863.91	3,334.34	3,189.11	145.23	22.959		
13,800.00	7,870.00	12,278.79	7,753.78	95.38	79.36	88.17	-2,856.67	864.45	3,333.36	3,184.96	148.40	22.462		
13,900.00	7,870.00	12,408.25	7,759.49	96.09	81.38	88.27	-2,986.00	866.27	3,331.46	3,179.05	152.41	21.859		
14,000.00	7,870.00	12,516.31	7,763.91	96.84	83.08	88.35	-3,093.94	868.62	3,328.81	3,173.04	155.78	21.369		
14,100.00	7,870.00	12,606.14	7,768.46	97.64	84.50	88.42	-3,183.64	870.10	3,326.66	3,168.06	158.60	20.976		
14,200.00	7,870.00	12,697.72	7,773.04	98.48	85.96	88.50	-3,275.09	871.90	3,324.25	3,162.77	161.48	20.586		
14,300.00	7,870.00	12,762.01	7,776.64	99.37	86.98	88.56	-3,339.27	872.41	3,322.93	3,159.43	163.49	20.324		
14,400.00	7,870.00	12,912.78	7,785.08	100.30	89.39	88.71	-3,489.80	873.96	3,321.49	3,153.14	168.35	19.730		
14,500.00	7,870.00	12,979.07	7,788.93	101.26	90.45	88.77	-3,555.97	875.05	3,319.46	3,149.01	170.45	19.475		
14,600.00	7,870.00	13,068.82	7,794.56	102.27	91.89	88.87	-3,645.54	875.38	3,318.58	3,145.26	173.32	19.147		
14,700.00	7,870.00	14,700.00	7,801.89	103.31	118.56	89.00	-3,775.12	877.09	3,316.75	3,114.17	202.58	16.373		
14,800.00	7,870.00	13,261.16	7,804.98	104.38	95.00	89.05	-3,837.58	877.83	3,315.22	3,135.69	179.53	18.466		
14,867.12	7,870.00	13,299.14	7,806.58	105.12	95.61	89.08	-3,875.52	877.82	3,314.97	3,134.26	180.71	18.344		
14,900.00	7,870.00	13,318.50	7,807.26	105.49	95.93	89.09	-3,894.87	877.69	3,315.05	3,133.75	181.30	18.285		
15,000.00	7,870.00	13,380.03	7,808.71	106.63	96.91	89.11	-3,956.37	876.78	3,316.13	3,132.94	183.19	18.102		
15,100.00	7,870.00	13,487.44	7,809.11	107.80	98.64	89.12	-4,063.76	874.75	3,317.68	3,131.04	186.64	17.776		
15,200.00	7,870.00	13,585.19	7,807.59	109.00	100.22	89.10	-4,161.49	873.22	3,318.94	3,129.18	189.76	17.490		
15,300.00	7,870.00	13,921.34	7,811.12	110.22	105.77	89.15	-4,497.34	881.20	3,314.70	3,113.63	201.07	16.485		
15,400.00	7,870.00	13,984.61	7,812.16	111.47	106.83	89.17	-4,560.53	884.19	3,309.61	3,106.46	203.15	16.292		
15,500.00	7,870.00	14,023.83	7,812.54	112.74	107.48	89.18	-4,599.73	885.55	3,305.91	3,101.54	204.37	16.176		
15,600.00	7,870.00	14,057.23	7,812.73	114.03	108.03	89.18	-4,633.12	886.00	3,304.21	3,098.88	205.34	16.092		
15,606.31	7,870.00	14,059.33	7,812.74	114.11	108.07	89.18	-4,635.22	886.01	3,304.17	3,098.78	205.40	16.087		
15,700.00	7,870.00	14,086.00	7,812.81	115.34	108.51	89.18	-4,661.89	885.85	3,304.54	3,098.47	206.07	16.036		
15,800.00	7,870.00	14,149.11	7,812.24	116.68	109.54	89.17	-4,724.99	884.50	3,306.43	3,098.44	207.99	15.897		
15,900.00	7,870.00	14,274.00	7,810.93	118.02	111.58	89.15	-4,849.80	880.84	3,309.14	3,096.98	212.16	15.598		
16,000.00	7,870.00	14,400.40	7,812.18	119.39	113.66	89.17	-4,976.17	878.44	3,310.72	3,094.30	216.41	15.298		
16,100.00	7,870.00	14,511.43	7,812.55	120.77	115.49	89.18	-5,087.19	877.28	3,311.41	3,091.30	220.11	15.044		
16,200.00	7,870.00	14,637.78	7,814.58	122.17	117.59	89.21	-5,213.53	876.31	3,311.84	3,087.45	224.40	14.759		
16,300.00	7,870.00	14,782.88	7,816.07	123.58	120.02	89.24	-5,358.61	877.06	3,310.93	3,081.58	229.35	14.436		
16,400.00	7,870.00	14,867.46	7,817.48	125.00	121.43	89.26	-5,443.17	877.88	3,309.62	3,077.47	232.15	14.257		
16,500.00	7,870.00	14,982.17	7,819.44	126.43	123.36	89.30	-5,557.87	878.72	3,308.55	3,072.52	236.03	14.017		
16,600.00	7,870.00	15,059.60	7,821.53	127.88	124.67	89.33	-5,635.26	879.26	3,307.48	3,068.90	238.58	13.863		
16,700.00	7,870.00	15,184.34	7,826.10	129.34	126.77	89.41	-5,759.91	880.17	3,306.37	3,063.51	242.87	13.614		
16,800.00	7,870.00	15,287.68	7,828.50	130.81	128.52	89.45	-5,863.21	881.49	3,304.73	3,058.37	246.36	13.414		
16,900.00	7,870.00	15,377.32	7,829.89	132.28	130.03	89.48	-5,952.84	882.47	3,303.29	3,053.93	249.36	13.247		
17,000.00	7,870.00	15,454.68	7,831.08	133.77	131.34	89.50	-6,030.19	883.04	3,302.23	3,050.32	251.90	13.109		
17,048.99	7,870.00	15,483.80	7,831.68	134.50	131.83	89.51	-6,059.30	883.03	3,302.08	3,049.26	252.82	13.061		
17,100.00	7,870.00	15,519.00	7,832.58	135.27	132.43	89.52	-6,094.49	882.77	3,302.25	3,048.30	253.95	13.004		
17,200.00	7,870.00	15,650.78	7,836.46	136.77	134.65	89.59	-6,226.21	881.91	3,302.63	3,044.10	258.54	12.774		
17,300.00	7,870.00	15,793.08	7,841.05	138.28	137.07	89.67	-6,368.43	883.27	3,301.24	3,037.72	263.52	12.528		
17,400.00	7,870.00	15,896.87	7,844.11	139.80	138.84	89.72	-6,472.16	884.71	3,299.50	3,032.43	267.07	12.355		
17,500.00	7,870.00	15,992.56	7,846.93	141.33	140.47	89.77	-6,567.79	886.37	3,297.42	3,027.10	270.32	12.198		
17,600.00	7,870.00	16,053.00	7,848.41	142.86	141.50	89.80	-6,628.21	886.84	3,296.29	3,024.04	272.26	12.107		
17,700.00	7,870.00	16,165.31	7,851.26	144.40	143.41	89.85	-6,740.49	887.06	3,295.78	3,019.65	276.13	11.936		
17,800.00	7,870.00	16,338.49	7,854.80	145.95	146.38	89.91	-6,913.59	890.64	3,293.09	3,010.84	282.25	11.667		
17,900.00	7,870.00	16,394.00	7,855.18	147.50	147.33	89.92	-6,969.08	891.82	3,290.63	3,006.59	284.04	11.585		
18,000.00	7,870.00	16,465.73	7,855.44	149.06	148.56	89.92	-7,040.81	892.48	3,289.34	3,002.95	286.39	11.486		
18,100.00	7,870.00	16,553.34	7,855.73	150.63	150.05	89.93	-7,128.42	892.77	3,288.66	2,999.34	289.33	11.367		
18,200.00	7,870.00	16,644.75	7,856.02	152.20	151.61	89.93	-7,219.82	892.86	3,288.22	2,995.82	292.41	11.245		
18,300.00	7,870.00	16,754.34	7,856.86	153.77	153.49	89.95	-7,329.42	892.86	3,287.90	2,991.71	296.19	11.101		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,400.00	7,870.00	16,879.44	7,859.03	155.35	155.63	89.98	-7,454.50	893.58	3,287.00	2,986.42	300.57	10.936	
18,500.00	7,870.00	17,024.27	7,861.64	156.93	158.12	90.03	-7,599.27	896.07	3,284.92	2,979.24	305.68	10.746	
18,600.00	7,870.00	17,149.98	7,863.70	158.52	160.30	90.06	-7,724.91	899.61	3,281.77	2,971.69	310.07	10.584	
18,700.00	7,870.00	17,248.50	7,864.75	160.11	162.00	90.08	-7,823.38	902.81	3,278.18	2,964.72	313.46	10.458	
18,800.00	7,870.00	17,327.61	7,865.15	161.71	163.37	90.09	-7,902.46	905.05	3,275.02	2,958.88	316.14	10.359	
18,900.00	7,870.00	17,403.36	7,865.23	163.31	164.68	90.09	-7,978.19	906.63	3,272.59	2,953.92	318.67	10.269	
19,000.00	7,870.00	17,486.75	7,865.71	164.91	166.12	90.10	-8,061.57	907.84	3,270.80	2,949.31	321.49	10.174	
19,100.00	7,870.00	17,584.82	7,866.89	166.52	167.81	90.12	-8,159.63	909.11	3,269.17	2,944.31	324.86	10.063	
19,200.00	7,870.00	17,657.00	7,867.72	168.13	169.06	90.14	-8,231.80	909.65	3,268.09	2,940.86	327.23	9.987	
19,300.00	7,870.00	17,739.50	7,868.53	169.75	170.48	90.15	-8,314.30	909.69	3,267.70	2,937.72	329.99	9.902	
19,323.09	7,870.00	17,758.63	7,868.71	170.12	170.80	90.15	-8,333.42	909.64	3,267.69	2,937.06	330.63	9.883	
19,383.51	7,870.00	17,815.03	7,869.21	171.10	171.77	90.16	-8,389.82	909.39	3,267.75	2,935.20	332.55	9.826 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-29.41	218.57	-123.20	251.06					
100.00	100.00	93.54	93.54	0.13	0.16	-29.51	217.95	-123.34	250.44	250.15	0.29	857.006		
200.00	200.00	197.24	197.21	0.49	0.39	-29.87	215.71	-123.88	248.83	247.94	0.88	282.092		
300.00	300.00	300.71	300.50	0.85	0.77	-30.97	210.21	-126.14	245.33	243.71	1.62	151.224		
400.00	400.00	397.43	396.84	1.21	1.14	-32.81	203.24	-131.01	241.88	239.53	2.34	103.221		
500.00	500.00	492.35	491.32	1.57	1.51	-34.96	197.27	-137.92	240.70	237.63	3.07	78.369		
506.85	506.85	498.92	497.85	1.59	1.54	-35.12	196.87	-138.48	240.70	237.58	3.12	77.102	CC, ES	
600.00	600.00	588.68	586.97	1.93	1.90	-37.65	191.17	-147.51	241.50	237.68	3.82	63.232		
700.00	699.98	683.71	680.87	2.28	2.30	-105.18	184.05	-160.27	244.71	240.13	4.58	53.450		
800.00	799.84	776.58	772.14	2.64	2.72	-109.86	176.52	-175.63	252.02	246.68	5.35	47.139		
900.00	899.45	866.35	859.72	3.00	3.15	-115.19	168.41	-193.57	264.84	258.73	6.11	43.322		
1,000.00	998.70	962.30	952.91	3.37	3.64	-121.12	159.41	-214.60	283.57	276.66	6.91	41.020		
1,100.00	1,097.47	1,058.24	1,046.31	3.76	4.13	-126.75	149.75	-234.24	305.80	298.10	7.70	39.717		
1,200.00	1,195.62	1,148.93	1,134.59	4.18	4.60	-131.77	139.97	-252.58	332.66	324.22	8.44	39.413	SF	
1,300.00	1,293.06	1,244.75	1,227.93	4.63	5.10	-136.68	129.22	-271.38	363.98	354.78	9.20	39.563		
1,400.00	1,389.64	1,337.91	1,319.02	5.11	5.57	-140.86	119.28	-288.19	398.90	388.97	9.93	40.180		
1,500.00	1,485.27	1,421.60	1,400.88	5.63	6.00	-144.17	110.41	-303.18	438.28	427.69	10.59	41.382		
1,600.00	1,579.82	1,500.14	1,477.51	6.20	6.40	-146.96	101.95	-318.16	483.00	471.78	11.22	43.053		
1,700.00	1,673.17	1,578.37	1,553.65	6.83	6.82	-149.43	93.61	-334.05	532.84	521.00	11.84	44.988		
1,800.00	1,765.21	1,657.49	1,630.54	7.51	7.24	-151.68	84.87	-350.54	586.94	574.46	12.48	47.033		
1,900.00	1,855.84	1,737.60	1,708.38	8.24	7.68	-153.73	75.75	-367.13	644.53	631.41	13.13	49.106		
2,000.00	1,944.94	1,818.71	1,787.35	9.05	8.11	-155.51	67.28	-383.60	705.11	691.32	13.78	51.151		
2,100.00	2,032.39	1,902.61	1,869.25	9.91	8.54	-157.11	59.17	-399.90	768.07	753.60	14.47	53.089		
2,200.00	2,118.11	1,981.65	1,946.62	10.85	8.94	-158.29	52.90	-414.73	833.31	818.20	15.12	55.120		
2,300.00	2,201.97	2,048.31	2,011.95	11.85	9.27	-158.99	48.84	-427.33	901.21	885.52	15.69	57.443		
2,400.00	2,283.88	2,108.89	2,071.24	12.93	9.57	-159.46	45.28	-439.27	972.28	956.06	16.22	59.940		
2,429.47	2,307.63	2,125.63	2,087.61	13.26	9.65	-159.56	44.36	-442.68	993.82	977.45	16.37	60.695		
2,500.00	2,364.26	2,165.11	2,126.16	14.06	9.85	-160.27	42.31	-450.95	1,045.92	1,029.19	16.72	62.541		
2,600.00	2,444.56	2,224.17	2,183.74	15.22	10.16	-161.20	39.42	-463.76	1,120.39	1,103.14	17.24	64.970		
2,700.00	2,524.85	2,284.68	2,242.66	16.39	10.47	-162.07	36.22	-477.12	1,195.31	1,177.53	17.78	67.228		
2,800.00	2,605.14	2,348.18	2,304.48	17.57	10.81	-162.87	32.90	-491.28	1,270.51	1,252.16	18.34	69.264		
2,900.00	2,685.43	2,419.34	2,373.76	18.76	11.18	-163.66	29.46	-507.16	1,345.74	1,326.77	18.97	70.941		
3,000.00	2,765.73	2,485.27	2,438.03	19.96	11.52	-164.30	26.41	-521.56	1,420.72	1,401.16	19.56	72.634		
3,100.00	2,846.02	2,539.43	2,490.76	21.16	11.81	-164.81	23.23	-533.48	1,496.11	1,476.05	20.06	74.590		
3,200.00	2,926.31	2,608.93	2,558.38	22.37	12.18	-165.46	18.38	-548.80	1,571.81	1,551.12	20.68	76.004		
3,300.00	3,006.60	2,681.81	2,629.38	23.59	12.56	-166.08	13.23	-564.41	1,647.17	1,625.84	21.33	77.214		
3,400.00	3,086.90	2,753.68	2,699.45	24.81	12.94	-166.65	7.93	-579.48	1,722.39	1,700.41	21.98	78.369		
3,500.00	3,167.19	2,838.92	2,782.71	26.03	13.38	-167.25	1.90	-596.74	1,797.13	1,774.40	22.73	79.062		
3,600.00	3,247.48	2,915.35	2,857.49	27.25	13.77	-167.74	-3.25	-611.66	1,871.38	1,847.97	23.41	79.926		
3,700.00	3,327.77	2,997.50	2,908.52	28.48	14.03	-168.05	-6.73	-621.82	1,945.67	1,921.76	23.91	81.381		
3,800.00	3,408.07	3,021.00	2,960.76	29.71	14.31	-168.34	-10.29	-632.82	2,020.63	1,996.22	24.41	82.766		
3,900.00	3,488.36	3,054.36	2,993.25	30.94	14.49	-168.51	-12.59	-640.03	2,096.29	2,071.53	24.76	84.677		
4,000.00	3,568.65	3,092.38	3,030.18	32.17	14.70	-168.69	-15.40	-648.63	2,172.78	2,147.65	25.13	86.447		
4,100.00	3,648.95	3,142.73	3,078.95	33.41	14.97	-168.94	-19.39	-660.49	2,249.98	2,224.37	25.62	87.835		
4,200.00	3,729.24	3,215.03	3,148.99	34.64	15.38	-169.27	-25.34	-677.40	2,327.20	2,300.91	26.29	88.533		
4,300.00	3,809.53	3,340.36	3,270.88	35.88	16.06	-169.83	-35.80	-704.58	2,403.36	2,375.97	27.40	87.726		
4,400.00	3,889.82	3,417.52	3,346.24	37.12	16.46	-170.14	-41.97	-720.00	2,478.41	2,450.31	28.10	88.193		
4,500.00	3,970.12	3,459.07	3,386.76	38.36	16.68	-170.30	-45.30	-728.53	2,553.86	2,525.35	28.52	89.555		
4,600.00	4,050.41	3,490.00	3,416.87	39.60	16.84	-170.41	-47.81	-735.14	2,629.97	2,601.13	28.84	91.186		
4,700.00	4,130.70	3,535.83	3,461.39	40.84	17.10	-170.57	-51.46	-745.41	2,706.67	2,677.38	29.29	92.401		
4,800.00	4,210.99	3,584.00	3,508.02	42.08	17.36	-170.71	-55.13	-756.90	2,784.10	2,754.33	29.77	93.536		
4,900.00	4,291.29	3,674.84	3,596.00	43.32	17.87	-170.94	-61.42	-778.62	2,861.56	2,830.96	30.61	93.494		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	3,798.95	3,716.91	44.57	18.54	-171.28	-70.26	-805.13	2,937.12	2,905.40	31.72	92.594		
5,100.00	4,451.87	3,840.73	3,757.63	45.81	18.76	-171.39	-73.42	-813.92	3,012.88	2,980.74	32.14	93.734		
5,200.00	4,532.16	3,903.13	3,818.36	47.05	19.09	-171.54	-78.19	-827.45	3,089.05	3,056.32	32.74	94.354		
5,300.00	4,612.46	3,983.91	3,897.08	48.30	19.52	-171.75	-84.84	-844.36	3,164.91	3,131.42	33.49	94.506		
5,400.00	4,692.75	4,048.77	3,960.30	49.54	19.86	-171.91	-90.17	-857.82	3,240.67	3,206.56	34.11	95.016		
5,500.00	4,773.04	4,096.24	4,006.54	50.79	20.12	-172.03	-94.16	-867.76	3,316.60	3,282.02	34.58	95.913		
5,600.00	4,853.34	4,148.00	4,056.90	52.03	20.40	-172.16	-98.97	-878.75	3,392.92	3,357.83	35.09	96.699		
5,700.00	4,933.63	4,187.50	4,095.27	53.28	20.62	-172.26	-102.85	-887.28	3,469.59	3,434.09	35.49	97.755		
5,800.00	5,013.92	4,397.68	4,300.21	54.53	21.72	-172.72	-121.22	-929.99	3,545.58	3,508.26	37.32	94.995		
5,900.00	5,094.21	5,190.60	5,087.72	55.77	24.65	-173.92	-148.32	-999.49	3,608.83	3,565.85	42.98	83.970		
6,000.00	5,174.51	5,266.23	5,163.35	57.02	24.83	-174.02	-148.77	-999.31	3,668.22	3,624.58	43.65	84.046		
6,100.00	5,254.80	5,358.61	5,255.72	58.27	25.06	-174.15	-149.67	-998.86	3,727.55	3,683.14	44.41	83.937		
6,200.00	5,335.09	5,446.29	5,343.39	59.52	25.27	-174.27	-150.78	-998.09	3,786.66	3,741.52	45.14	83.880		
6,300.00	5,415.38	5,510.01	5,407.10	60.76	25.43	-174.36	-151.63	-997.55	3,845.86	3,800.11	45.75	84.068		
6,400.00	5,495.68	5,575.02	5,472.11	62.01	25.60	-174.44	-152.41	-997.40	3,905.46	3,859.10	46.36	84.241		
6,500.00	5,575.97	5,651.86	5,548.95	63.26	25.80	-174.53	-152.91	-997.56	3,965.24	3,918.19	47.05	84.278		
6,600.00	5,656.26	5,741.69	5,638.78	64.51	26.05	-174.62	-152.80	-997.93	4,024.94	3,977.12	47.82	84.173		
6,700.00	5,736.55	5,825.28	5,722.36	65.76	26.27	-174.69	-152.33	-998.27	4,084.52	4,035.98	48.54	84.142		
6,800.00	5,816.85	5,900.08	5,797.16	67.01	26.47	-174.75	-151.87	-998.60	4,144.11	4,094.89	49.22	84.199		
6,900.00	5,897.14	5,969.56	5,866.64	68.26	26.67	-174.81	-151.45	-999.05	4,203.85	4,153.99	49.86	84.307		
7,000.00	5,977.43	6,036.92	5,934.00	69.50	26.86	-174.86	-151.14	-999.65	4,263.84	4,213.34	50.50	84.436		
7,100.00	6,057.72	6,105.15	6,002.22	70.75	27.05	-174.91	-150.77	-1,000.50	4,324.05	4,272.91	51.14	84.554		
7,200.00	6,138.02	6,185.13	6,082.19	72.00	27.28	-174.97	-150.41	-1,001.58	4,384.38	4,332.52	51.86	84.547		
7,300.00	6,218.31	6,247.90	6,144.96	73.25	27.47	-175.01	-150.30	-1,002.43	4,444.80	4,392.34	52.47	84.716		
7,400.00	6,298.60	6,306.94	6,203.99	74.50	27.65	-175.05	-150.26	-1,003.54	4,505.63	4,452.58	53.05	84.929		
7,500.00	6,378.90	6,397.89	6,294.91	75.75	27.92	-175.11	-150.11	-1,005.35	4,566.51	4,512.67	53.85	84.807		
7,600.00	6,459.19	6,472.99	6,370.00	77.00	28.15	-175.16	-149.86	-1,006.83	4,627.34	4,572.80	54.54	84.847		
7,700.00	6,539.48	6,560.45	6,457.45	78.25	28.41	-175.21	-149.55	-1,008.53	4,688.14	4,632.83	55.31	84.761		
7,800.00	6,619.77	6,672.21	6,569.19	79.50	28.75	-175.29	-149.59	-1,010.02	4,748.63	4,692.39	56.24	84.431		
7,900.00	6,700.07	6,808.75	6,705.73	80.75	29.13	-175.41	-150.88	-1,009.65	4,808.11	4,750.79	57.31	83.890		
8,000.00	6,780.36	6,882.59	6,779.56	82.00	29.33	-175.47	-151.36	-1,009.23	4,867.37	4,809.38	57.99	83.941		
8,100.00	6,860.65	6,944.38	6,841.36	83.25	29.50	-175.52	-151.72	-1,009.09	4,926.87	4,868.29	58.58	84.100		
8,200.00	6,940.94	7,007.72	6,904.69	84.50	29.68	-175.57	-152.16	-1,009.17	4,986.67	4,927.47	59.20	84.239		
8,300.00	7,021.24	7,071.29	6,968.26	85.76	29.87	-175.61	-152.61	-1,009.47	5,046.74	4,986.92	59.81	84.374		
8,400.00	7,101.53	7,134.84	7,031.80	87.01	30.06	-175.66	-153.20	-1,009.94	5,107.06	5,046.63	60.43	84.510		
8,500.00	7,181.82	7,197.95	7,094.91	88.26	30.25	-175.70	-153.88	-1,010.58	5,167.64	5,106.59	61.05	84.650		
8,605.60	7,266.61	7,286.76	7,183.70	89.58	30.53	-175.76	-154.86	-1,011.68	5,231.80	5,169.95	61.85	84.594		
8,650.00	7,302.60	7,336.72	7,233.66	90.13	30.68	-175.30	-155.53	-1,012.09	5,258.24	5,195.97	62.26	84.451		
8,700.00	7,343.78	7,364.73	7,261.66	90.72	30.77	-165.02	-155.98	-1,012.30	5,286.84	5,224.30	62.54	84.540		
8,750.00	7,385.32	7,396.50	7,293.43	91.28	30.87	-154.73	-156.58	-1,012.55	5,314.05	5,251.23	62.83	84.584		
8,800.00	7,426.92	7,436.83	7,333.75	91.81	30.99	-144.74	-157.47	-1,012.90	5,339.70	5,276.53	63.16	84.539		
8,850.00	7,468.27	7,675.13	7,571.98	92.29	31.66	-136.22	-161.30	-1,010.54	5,362.67	5,297.91	64.76	82.812		
8,900.00	7,509.04	7,755.14	7,651.96	92.72	31.87	-127.98	-161.26	-1,008.48	5,382.90	5,317.59	65.31	82.426		
8,950.00	7,548.93	7,951.12	7,847.75	93.10	32.36	-121.43	-158.13	-1,000.63	5,400.21	5,333.69	66.52	81.180		
9,000.00	7,587.63	9,000.00	7,879.08	93.43	34.97	-114.98	-157.23	-999.01	5,414.88	5,345.03	69.85	77.522		
9,050.00	7,624.85	8,010.93	7,907.46	93.71	32.51	-109.46	-156.52	-997.55	5,427.46	5,360.49	66.97	81.045		
9,100.00	7,660.30	8,026.38	7,922.89	93.93	32.55	-104.73	-156.26	-996.78	5,438.00	5,370.90	67.09	81.050		
9,150.00	7,693.72	8,041.03	7,937.53	94.10	32.59	-100.79	-156.11	-996.09	5,446.42	5,379.21	67.21	81.037		
9,200.00	7,724.85	8,077.00	7,973.45	94.23	32.68	-97.76	-156.11	-994.47	5,452.78	5,385.34	67.45	80.845		
9,250.00	7,753.45	8,077.00	7,973.45	94.30	32.68	-95.08	-156.11	-994.47	5,456.78	5,389.31	67.47	80.879		
9,300.00	7,779.31	8,077.00	7,973.45	94.34	32.68	-92.97	-156.11	-994.47	5,458.66	5,391.17	67.49	80.882		
9,350.00	7,802.23	8,077.00	7,973.45	94.33	32.68	-91.38	-156.11	-994.47	5,458.40	5,390.89	67.51	80.851		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,101.08	7,997.51	94.28	32.74	90.50	-156.40	-993.46	5,455.91	5,388.22	67.69	80.597		
9,450.00	7,838.57	8,109.73	8,006.16	94.20	32.77	89.93	-156.55	-993.11	5,451.32	5,383.53	67.79	80.416		
9,500.00	7,851.72	8,116.84	8,013.25	94.10	32.79	89.77	-156.70	-992.82	5,444.64	5,376.75	67.89	80.202		
9,550.00	7,861.37	8,122.30	8,018.71	93.96	32.80	90.00	-156.83	-992.60	5,435.93	5,367.94	67.99	79.952		
9,600.00	7,867.46	8,126.03	8,022.44	93.81	32.81	90.61	-156.92	-992.46	5,425.25	5,357.15	68.10	79.665		
9,650.00	7,869.94	8,127.97	8,024.37	93.64	32.82	91.58	-156.97	-992.38	5,412.69	5,344.47	68.22	79.342		
9,659.14	7,870.00	8,128.12	8,024.53	93.60	32.82	91.80	-156.98	-992.38	5,410.20	5,341.95	68.24	79.278		
9,700.00	7,870.00	8,128.68	8,025.08	93.46	32.82	91.81	-156.99	-992.35	5,399.05	5,330.71	68.35	78.993		
9,800.00	7,870.00	8,130.07	8,026.47	93.11	32.82	91.82	-157.03	-992.30	5,373.00	5,304.36	68.64	78.280		
9,900.00	7,870.00	8,131.52	8,027.92	92.77	32.83	91.84	-157.07	-992.24	5,348.69	5,279.72	68.97	77.548		
10,000.00	7,870.00	8,133.03	8,029.43	92.46	32.83	91.86	-157.11	-992.18	5,326.15	5,256.80	69.35	76.800		
10,100.00	7,870.00	8,134.61	8,031.00	92.16	32.83	91.87	-157.16	-992.12	5,305.40	5,235.62	69.77	76.040		
10,200.00	7,870.00	8,136.25	8,032.64	91.87	32.84	91.89	-157.21	-992.06	5,286.45	5,216.22	70.23	75.269		
10,300.00	7,870.00	8,137.96	8,034.35	91.60	32.84	91.91	-157.26	-992.00	5,269.34	5,198.60	70.74	74.491		
10,400.00	7,870.00	8,139.75	8,036.14	91.34	32.85	91.93	-157.31	-991.93	5,254.07	5,182.79	71.28	73.710		
10,500.00	7,870.00	8,141.62	8,038.01	91.11	32.85	91.95	-157.37	-991.86	5,240.66	5,168.80	71.86	72.928		
10,600.00	7,870.00	8,143.58	8,039.97	90.88	32.86	91.97	-157.44	-991.78	5,229.13	5,156.65	72.48	72.149		
10,700.00	7,870.00	8,145.64	8,042.02	90.67	32.86	92.00	-157.50	-991.70	5,219.49	5,146.36	73.13	71.375		
10,800.00	7,870.00	8,147.79	8,044.17	90.48	32.87	92.02	-157.58	-991.62	5,211.75	5,137.94	73.81	70.611		
10,900.00	7,870.00	8,150.06	8,046.44	90.31	32.88	92.04	-157.65	-991.54	5,205.92	5,131.40	74.52	69.859		
11,000.00	7,870.00	8,152.44	8,048.82	90.15	32.88	92.07	-157.74	-991.45	5,202.00	5,126.74	75.26	69.122		
11,100.00	7,870.00	8,154.95	8,051.32	90.00	32.89	92.10	-157.83	-991.36	5,200.01	5,123.98	76.02	68.402		
11,154.01	7,870.00	8,156.36	8,052.73	89.93	32.89	92.11	-157.88	-991.31	5,199.73	5,123.27	76.45	68.014		
11,200.00	7,870.00	8,157.60	8,053.97	89.88	32.90	92.13	-157.93	-991.26	5,199.93	5,123.12	76.81	67.701		
11,300.00	7,870.00	8,164.00	8,060.36	89.77	32.91	92.20	-158.18	-991.03	5,201.77	5,124.14	77.64	67.002		
11,400.00	7,870.00	8,164.00	8,060.36	89.68	32.91	92.20	-158.18	-991.03	5,205.53	5,127.10	78.44	66.365		
11,500.00	7,870.00	8,168.53	8,064.88	89.60	32.93	92.25	-158.36	-990.86	5,211.21	5,131.93	79.28	65.728		
11,600.00	7,870.00	8,174.31	8,070.65	89.55	32.94	92.31	-158.59	-990.65	5,218.79	5,138.64	80.15	65.112		
11,700.00	7,870.00	8,180.13	8,076.47	89.52	32.96	92.37	-158.83	-990.44	5,228.27	5,147.25	81.03	64.527		
11,800.00	7,870.00	8,186.00	8,082.32	89.50	32.97	92.44	-159.07	-990.22	5,239.64	5,157.73	81.91	63.972		
11,900.00	7,870.00	8,191.90	8,088.22	89.51	32.99	92.50	-159.31	-990.00	5,252.88	5,170.09	82.79	63.448		
12,000.00	7,870.00	8,197.85	8,094.15	89.54	33.01	92.57	-159.55	-989.77	5,267.98	5,184.31	83.68	62.957		
12,100.00	7,870.00	8,203.84	8,100.13	89.59	33.02	92.64	-159.80	-989.54	5,284.93	5,200.37	84.56	62.498		
12,200.00	7,870.00	8,209.87	8,106.15	89.66	33.04	92.70	-160.05	-989.31	5,303.70	5,218.26	85.45	62.071		
12,300.00	7,870.00	8,215.94	8,112.22	89.77	33.06	92.77	-160.30	-989.08	5,324.28	5,237.96	86.32	61.678		
12,400.00	7,870.00	8,222.06	8,118.32	89.89	33.07	92.84	-160.56	-988.84	5,346.65	5,259.46	87.20	61.317		
12,500.00	7,870.00	8,228.22	8,124.48	90.05	33.09	92.90	-160.81	-988.59	5,370.79	5,282.72	88.06	60.988		
12,600.00	7,870.00	8,234.42	8,130.67	90.24	33.11	92.97	-161.07	-988.35	5,396.66	5,307.74	88.92	60.692		
12,700.00	7,870.00	8,240.67	8,136.91	90.46	33.13	93.04	-161.34	-988.09	5,424.25	5,334.48	89.76	60.427		
12,800.00	7,870.00	8,246.97	8,143.19	90.71	33.14	93.11	-161.60	-987.84	5,453.53	5,362.93	90.60	60.194		
12,900.00	7,870.00	8,253.31	8,149.52	90.99	33.16	93.18	-161.87	-987.58	5,484.47	5,393.05	91.42	59.992		
13,000.00	7,870.00	8,259.70	8,155.90	91.32	33.18	93.25	-162.14	-987.31	5,517.04	5,424.81	92.23	59.820		
13,100.00	7,870.00	8,266.13	8,162.32	91.68	33.20	93.32	-162.42	-987.05	5,551.22	5,458.20	93.02	59.677		
13,200.00	7,870.00	8,272.61	8,168.79	92.08	33.21	93.39	-162.69	-986.77	5,586.98	5,493.18	93.80	59.564		
13,300.00	7,870.00	8,267.17	8,163.36	92.52	33.20	93.33	-162.46	-987.01	5,624.30	5,529.81	94.49	59.521		
13,400.00	7,870.00	8,270.12	8,166.30	93.00	33.21	93.37	-162.58	-986.89	5,663.13	5,567.91	95.22	59.475		
13,500.00	7,870.00	8,273.05	8,169.23	93.53	33.22	93.40	-162.71	-986.77	5,703.44	5,607.51	95.93	59.456		
13,600.00	7,870.00	8,275.97	8,172.15	94.10	33.22	93.43	-162.83	-986.65	5,745.21	5,648.59	96.62	59.463		
13,700.00	7,870.00	8,278.88	8,175.05	94.72	33.23	93.46	-162.95	-986.54	5,788.41	5,691.12	97.29	59.495		
13,800.00	7,870.00	8,281.78	8,177.94	95.38	33.24	93.49	-163.07	-986.42	5,833.00	5,735.05	97.95	59.552		
13,900.00	7,870.00	8,284.66	8,180.82	96.09	33.25	93.53	-163.19	-986.31	5,878.94	5,780.36	98.59	59.632		
14,000.00	7,870.00	8,287.53	8,183.69	96.84	33.26	93.56	-163.31	-986.20	5,926.22	5,827.01	99.21	59.735		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,290.40	8,186.55	97.64	33.26	93.59	-163.43	-986.08	5,974.80	5,874.99	99.81	59.861		
14,200.00	7,870.00	8,293.25	8,189.39	98.48	33.27	93.62	-163.55	-985.97	6,024.64	5,924.24	100.40	60.008		
14,300.00	7,870.00	8,296.08	8,192.23	99.37	33.28	93.65	-163.67	-985.86	6,075.72	5,974.75	100.96	60.177		
14,400.00	7,870.00	8,298.91	8,195.05	100.30	33.29	93.68	-163.78	-985.75	6,128.00	6,026.49	101.52	60.365		
14,500.00	7,870.00	8,301.73	8,197.86	101.26	33.30	93.71	-163.90	-985.65	6,181.46	6,079.41	102.05	60.574		
14,600.00	7,870.00	8,304.53	8,200.66	102.27	33.30	93.74	-164.01	-985.54	6,236.06	6,133.49	102.57	60.801		
14,700.00	7,870.00	8,307.32	8,203.45	103.31	33.31	93.77	-164.13	-985.43	6,291.77	6,188.70	103.06	61.047		
14,800.00	7,870.00	8,310.10	8,206.22	104.38	33.32	93.81	-164.24	-985.33	6,348.57	6,245.02	103.55	61.310		
14,900.00	7,870.00	8,312.87	8,208.99	105.49	33.33	93.84	-164.36	-985.22	6,406.42	6,302.40	104.02	61.591		
15,000.00	7,870.00	8,315.63	8,211.74	106.63	33.33	93.87	-164.47	-985.12	6,465.30	6,360.83	104.47	61.889		
15,100.00	7,870.00	8,318.38	8,214.49	107.80	33.34	93.90	-164.58	-985.02	6,525.18	6,420.28	104.90	62.202		
15,200.00	7,870.00	8,321.12	8,217.22	109.00	33.35	93.93	-164.69	-984.92	6,586.03	6,480.71	105.32	62.531		
15,300.00	7,870.00	8,323.84	8,219.94	110.22	33.36	93.96	-164.80	-984.82	6,647.83	6,542.10	105.73	62.875		
15,400.00	7,870.00	8,326.56	8,222.65	111.47	33.36	93.99	-164.91	-984.72	6,710.55	6,604.43	106.12	63.233		
15,500.00	7,870.00	8,329.26	8,225.35	112.74	33.37	94.02	-165.02	-984.62	6,774.16	6,667.66	106.50	63.606		
15,600.00	7,870.00	8,331.96	8,228.04	114.03	33.38	94.05	-165.13	-984.52	6,838.64	6,731.77	106.87	63.992		
15,700.00	7,870.00	8,334.64	8,230.72	115.34	33.39	94.08	-165.24	-984.43	6,903.97	6,796.75	107.22	64.391		
15,800.00	7,870.00	8,337.31	8,233.39	116.68	33.39	94.10	-165.35	-984.33	6,970.11	6,862.55	107.56	64.803		
15,900.00	7,870.00	8,339.97	8,236.05	118.02	33.40	94.13	-165.45	-984.23	7,037.06	6,929.17	107.89	65.226		
16,000.00	7,870.00	8,342.62	8,238.70	119.39	33.41	94.16	-165.56	-984.14	7,104.78	6,996.58	108.20	65.662		
16,100.00	7,870.00	8,345.26	8,241.33	120.77	33.42	94.19	-165.66	-984.05	7,173.25	7,064.74	108.51	66.109		
16,200.00	7,870.00	8,358.00	8,254.05	122.17	33.45	94.33	-166.17	-983.60	7,242.47	7,133.62	108.84	66.541		
16,300.00	7,870.00	8,358.00	8,254.05	123.58	33.45	94.33	-166.17	-983.60	7,312.38	7,203.26	109.11	67.017		
16,400.00	7,870.00	8,358.00	8,254.05	125.00	33.45	94.33	-166.17	-983.60	7,382.98	7,273.61	109.37	67.502		
16,500.00	7,870.00	8,358.00	8,254.05	126.43	33.45	94.33	-166.17	-983.60	7,454.26	7,344.63	109.63	67.997		
16,600.00	7,870.00	8,358.00	8,254.05	127.88	33.45	94.33	-166.17	-983.60	7,526.19	7,416.32	109.87	68.502		
16,700.00	7,870.00	8,358.00	8,254.05	129.34	33.45	94.33	-166.17	-983.60	7,598.75	7,488.65	110.10	69.016		
16,800.00	7,870.00	8,358.00	8,254.05	130.81	33.45	94.33	-166.17	-983.60	7,671.93	7,561.61	110.33	69.538		
16,900.00	7,870.00	8,366.31	8,262.35	132.28	33.48	94.42	-166.49	-983.32	7,745.71	7,635.13	110.58	70.049		
17,000.00	7,870.00	8,368.91	8,264.95	133.77	33.48	94.45	-166.60	-983.23	7,820.07	7,709.28	110.79	70.582		
17,100.00	7,870.00	8,371.49	8,267.52	135.27	33.49	94.48	-166.70	-983.14	7,895.00	7,783.99	111.00	71.123		
17,200.00	7,870.00	8,374.05	8,270.07	136.77	33.50	94.51	-166.79	-983.05	7,970.47	7,859.26	111.21	71.672		
17,300.00	7,870.00	8,376.57	8,272.60	138.28	33.50	94.54	-166.89	-982.97	8,046.48	7,935.07	111.40	72.229		
17,400.00	7,870.00	8,379.07	8,275.10	139.80	33.51	94.56	-166.98	-982.88	8,123.00	8,011.41	111.59	72.793		
17,500.00	7,870.00	8,381.55	8,277.57	141.33	33.52	94.59	-167.08	-982.80	8,200.03	8,088.26	111.77	73.364		
17,600.00	7,870.00	8,384.00	8,280.02	142.86	33.53	94.62	-167.17	-982.71	8,277.55	8,165.61	111.95	73.941		
17,700.00	7,870.00	8,386.43	8,282.44	144.40	33.53	94.64	-167.26	-982.63	8,355.55	8,243.44	112.12	74.526		
17,800.00	7,870.00	8,388.84	8,284.85	145.95	33.54	94.67	-167.35	-982.55	8,434.01	8,321.73	112.28	75.116		
17,900.00	7,870.00	8,391.22	8,287.22	147.50	33.55	94.70	-167.44	-982.47	8,512.92	8,400.49	112.44	75.713		
18,000.00	7,870.00	8,393.58	8,289.58	149.06	33.55	94.72	-167.53	-982.39	8,592.27	8,479.68	112.59	76.316		
18,100.00	7,870.00	8,395.91	8,291.91	150.63	33.56	94.75	-167.61	-982.31	8,672.05	8,559.31	112.73	76.924		
18,200.00	7,870.00	8,398.22	8,294.22	152.20	33.57	94.77	-167.70	-982.23	8,752.24	8,639.36	112.88	77.539		
18,300.00	7,870.00	8,400.51	8,296.51	153.77	33.57	94.80	-167.78	-982.15	8,832.83	8,719.82	113.01	78.158		
18,400.00	7,870.00	8,402.78	8,298.77	155.35	33.58	94.82	-167.86	-982.07	8,913.82	8,800.67	113.14	78.783		
18,500.00	7,870.00	8,405.03	8,301.02	156.93	33.58	94.85	-167.94	-982.00	8,995.18	8,881.91	113.27	79.412		
18,600.00	7,870.00	8,407.25	8,303.24	158.52	33.59	94.87	-168.02	-981.92	9,076.92	8,963.53	113.39	80.047		
18,700.00	7,870.00	8,409.46	8,305.44	160.11	33.60	94.90	-168.10	-981.85	9,159.02	9,045.51	113.51	80.686		
18,800.00	7,870.00	8,411.64	8,307.62	161.71	33.60	94.92	-168.18	-981.77	9,241.47	9,127.84	113.63	81.330		
18,900.00	7,870.00	8,413.81	8,309.78	163.31	33.61	94.95	-168.26	-981.70	9,324.27	9,210.53	113.74	81.978		
19,000.00	7,870.00	8,415.95	8,311.93	164.91	33.62	94.97	-168.33	-981.63	9,407.40	9,293.55	113.85	82.631		
19,100.00	7,870.00	8,418.07	8,314.05	166.52	33.62	94.99	-168.40	-981.56	9,490.85	9,376.89	113.95	83.287		
19,200.00	7,870.00	8,420.18	8,316.15	168.13	33.63	95.02	-168.48	-981.48	9,574.62	9,460.56	114.05	83.948		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,870.00	8,422.26	8,318.23	169.75	33.63	95.04	-168.55	-981.41	9,658.69	9,544.54	114.15	84.612	
19,383.51	7,870.00	8,423.99	8,319.96	171.10	33.64	95.06	-168.61	-981.36	9,729.13	9,614.90	114.23	85.170	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-35.17	218.57	-154.00	267.53					
100.00	100.00	89.59	89.58	0.13	0.15	-35.06	219.06	-153.72	267.62	267.34	0.28	952.925 ES		
200.00	200.00	182.65	182.63	0.49	0.39	-34.76	220.84	-153.27	268.95	268.06	0.88	304.301		
300.00	300.00	271.28	271.13	0.85	0.71	-34.60	225.12	-155.33	274.22	272.65	1.57	174.321		
400.00	400.00	360.89	360.35	1.21	1.05	-34.84	231.15	-160.90	283.30	281.04	2.26	125.602		
500.00	500.00	450.43	449.17	1.57	1.40	-35.20	239.28	-168.79	295.80	292.85	2.94	100.546		
600.00	600.00	539.45	537.05	1.93	1.78	-35.53	249.72	-178.29	311.54	307.92	3.62	86.038		
700.00	699.98	626.73	622.75	2.28	2.18	-99.46	262.38	-188.92	330.72	326.44	4.29	77.102		
800.00	799.84	711.76	705.61	2.64	2.59	-99.93	277.12	-201.07	354.04	349.10	4.95	71.579		
900.00	899.45	795.77	786.81	3.00	3.04	-100.79	293.25	-215.28	381.22	375.62	5.60	68.048		
1,000.00	998.70	875.59	863.20	3.37	3.49	-101.78	310.55	-230.66	412.71	406.46	6.24	66.101		
1,100.00	1,097.47	960.96	944.24	3.76	4.01	-103.01	330.53	-248.59	447.74	440.81	6.93	64.605		
1,200.00	1,195.62	1,055.21	1,033.64	4.18	4.61	-104.59	352.54	-268.73	484.29	476.59	7.70	62.893		
1,300.00	1,293.06	1,139.38	1,113.31	4.63	5.14	-105.93	372.70	-286.93	522.94	514.51	8.44	61.996		
1,400.00	1,389.64	1,226.42	1,195.47	5.11	5.71	-107.28	394.46	-305.71	563.85	554.63	9.22	61.130		
1,500.00	1,485.27	1,310.97	1,275.13	5.63	6.27	-108.55	416.01	-324.07	606.86	596.82	10.03	60.479		
1,600.00	1,579.82	1,384.05	1,343.67	6.20	6.78	-109.48	435.31	-340.51	652.77	641.97	10.80	60.441		
1,700.00	1,673.17	1,455.08	1,409.73	6.83	7.29	-110.25	455.43	-357.12	702.19	690.60	11.59	60.580		
1,800.00	1,765.21	1,521.39	1,470.85	7.51	7.79	-110.76	475.67	-372.96	754.96	742.58	12.38	60.963		
1,900.00	1,855.84	1,579.66	1,524.05	8.24	8.24	-111.03	493.95	-388.17	811.51	798.36	13.14	61.744		
2,000.00	1,944.94	1,657.11	1,594.37	9.05	8.86	-111.81	518.26	-409.68	871.07	856.94	14.13	61.666		
2,100.00	2,032.39	1,731.93	1,662.53	9.91	9.46	-112.48	541.21	-430.29	932.05	916.93	15.13	61.620		
2,200.00	2,118.11	1,799.95	1,724.49	10.85	10.01	-112.94	561.72	-449.47	995.19	979.09	16.10	61.821		
2,300.00	2,201.97	1,865.33	1,784.03	11.85	10.54	-113.29	580.99	-468.40	1,060.52	1,043.45	17.08	62.098		
2,400.00	2,283.88	1,928.95	1,841.94	12.93	11.06	-113.53	599.53	-487.14	1,128.03	1,109.96	18.07	62.411		
2,429.47	2,307.63	1,947.30	1,858.62	13.26	11.21	-113.57	604.91	-492.56	1,148.33	1,129.96	18.37	62.510		
2,500.00	2,364.26	1,997.82	1,904.54	14.06	11.62	-115.04	619.79	-507.44	1,197.28	1,178.13	19.15	62.523		
2,600.00	2,444.56	2,083.91	1,983.12	15.22	12.31	-117.31	645.00	-531.97	1,266.69	1,246.28	20.41	62.062		
2,700.00	2,524.85	2,181.04	2,072.56	16.39	13.07	-119.56	672.80	-557.71	1,335.17	1,313.39	21.78	61.293		
2,800.00	2,605.14	2,262.07	2,147.52	17.57	13.69	-121.23	695.88	-578.05	1,403.27	1,380.29	22.98	61.059		
2,900.00	2,685.43	2,335.39	2,215.42	18.76	14.24	-122.58	716.91	-595.99	1,471.45	1,447.35	24.10	61.060		
3,000.00	2,765.73	2,400.92	2,276.16	19.96	14.74	-123.70	735.59	-611.98	1,539.94	1,514.82	25.12	61.293		
3,100.00	2,846.02	2,470.85	2,341.06	21.16	15.26	-124.83	755.05	-629.32	1,608.92	1,582.73	26.19	61.434		
3,200.00	2,926.31	2,545.65	2,410.57	22.37	15.82	-125.94	775.72	-647.65	1,677.98	1,650.68	27.30	61.460		
3,300.00	3,006.60	2,615.83	2,475.77	23.59	16.34	-126.90	795.34	-664.66	1,747.20	1,718.84	28.36	61.603		
3,400.00	3,086.90	2,683.42	2,538.54	24.81	16.84	-127.75	814.33	-681.01	1,816.67	1,787.28	29.39	61.811		
3,500.00	3,167.19	2,750.49	2,600.86	26.03	17.34	-128.55	832.97	-697.35	1,886.42	1,856.01	30.41	62.038		
3,600.00	3,247.48	2,818.48	2,664.10	27.25	17.85	-129.32	851.52	-714.07	1,956.43	1,925.01	31.43	62.254		
3,700.00	3,327.77	2,894.47	2,734.90	28.48	18.41	-130.14	871.88	-732.69	2,026.51	1,993.98	32.53	62.300		
3,800.00	3,408.07	2,968.35	2,803.89	29.71	18.94	-130.90	891.27	-750.67	2,096.55	2,062.96	33.60	62.402		
3,900.00	3,488.36	3,034.64	2,865.88	30.94	19.42	-131.55	908.33	-766.78	2,166.68	2,132.10	34.57	62.669		
4,000.00	3,568.65	3,096.37	2,923.60	32.17	19.87	-132.12	924.10	-781.99	2,237.15	2,201.65	35.49	63.031		
4,100.00	3,648.95	3,158.35	2,981.36	33.41	20.33	-132.65	940.52	-797.32	2,307.96	2,271.54	36.42	63.369		
4,200.00	3,729.24	3,230.77	3,048.58	34.64	20.87	-133.20	960.74	-815.15	2,378.99	2,341.51	37.48	63.470		
4,300.00	3,809.53	3,298.32	3,111.25	35.88	21.38	-133.67	979.89	-831.54	2,449.93	2,411.44	38.49	63.652		
4,400.00	3,889.82	3,349.68	3,158.85	37.12	21.77	-134.02	994.37	-844.28	2,521.30	2,482.00	39.30	64.159		
4,500.00	3,970.12	3,421.29	3,225.19	38.36	22.31	-134.48	1,014.35	-862.37	2,593.05	2,552.70	40.35	64.269		
4,600.00	4,050.41	3,499.77	3,298.05	39.60	22.90	-134.97	1,036.05	-881.88	2,664.55	2,623.08	41.48	64.242		
4,700.00	4,130.70	3,572.16	3,365.33	40.84	23.44	-135.40	1,055.86	-899.77	2,735.99	2,693.46	42.53	64.334		
4,800.00	4,210.99	3,644.76	3,432.92	42.08	23.98	-135.82	1,075.46	-917.65	2,807.40	2,763.83	43.58	64.425		
4,900.00	4,291.29	3,725.89	3,508.56	43.32	24.57	-136.27	1,097.08	-937.45	2,878.69	2,833.97	44.72	64.369		
5,000.00	4,371.58	3,861.63	3,635.91	44.57	25.54	-136.99	1,132.32	-968.50	2,948.67	2,902.17	46.50	63.418		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	3,905.68	3,677.25	45.81	25.85	-137.20	1,143.87	-978.40	3,018.65	2,971.46	47.20	63.960		
5,200.00	4,532.16	3,930.00	3,700.00	47.05	26.02	-137.32	1,150.39	-984.01	3,089.40	3,041.74	47.65	64.830		
5,300.00	4,612.46	3,980.38	3,746.94	48.30	26.39	-137.54	1,164.13	-996.10	3,160.77	3,112.34	48.43	65.265		
5,400.00	4,692.75	4,023.00	3,786.44	49.54	26.71	-137.72	1,175.93	-1,006.91	3,233.02	3,183.92	49.11	65.838		
5,500.00	4,773.04	4,051.41	3,812.69	50.79	26.93	-137.84	1,183.80	-1,014.39	3,305.96	3,256.36	49.60	66.655		
5,600.00	4,853.34	4,088.90	3,847.29	52.03	27.22	-137.99	1,194.05	-1,024.56	3,379.55	3,329.36	50.20	67.323		
5,700.00	4,933.63	4,128.83	3,884.09	53.28	27.54	-138.16	1,204.80	-1,035.74	3,453.76	3,402.93	50.83	67.952		
5,800.00	5,013.92	4,178.61	3,929.84	54.53	27.93	-138.36	1,218.30	-1,049.93	3,528.37	3,476.79	51.58	68.404		
5,900.00	5,094.21	4,318.80	4,058.77	55.77	29.04	-138.87	1,256.81	-1,089.27	3,603.01	3,549.50	53.52	67.323		
6,000.00	5,174.51	4,336.89	4,075.44	57.02	29.18	-138.94	1,261.69	-1,094.35	3,677.04	3,623.18	53.86	68.268		
6,100.00	5,254.80	4,367.54	4,103.65	58.27	29.43	-139.05	1,269.88	-1,103.08	3,751.72	3,697.36	54.36	69.013		
6,200.00	5,335.09	4,397.00	4,130.71	59.52	29.66	-139.16	1,277.64	-1,111.76	3,827.04	3,772.20	54.84	69.784		
6,300.00	5,415.38	4,448.85	4,178.20	60.76	30.08	-139.34	1,291.48	-1,127.31	3,902.79	3,847.17	55.62	70.169		
6,400.00	5,495.68	4,709.29	4,417.63	62.01	32.14	-140.13	1,363.07	-1,200.46	3,978.03	3,918.89	59.14	67.269		
6,500.00	5,575.97	4,770.00	4,473.79	63.26	32.61	-140.28	1,380.37	-1,215.71	4,050.58	3,990.53	60.05	67.456		
6,600.00	5,656.26	4,816.45	4,516.68	64.51	32.97	-140.40	1,393.72	-1,227.53	4,123.43	4,062.65	60.78	67.844		
6,700.00	5,736.55	4,864.00	4,560.35	65.76	33.34	-140.50	1,407.75	-1,240.07	4,196.88	4,135.36	61.52	68.216		
6,800.00	5,816.85	4,884.26	4,578.89	67.01	33.51	-140.54	1,413.78	-1,245.56	4,270.81	4,208.90	61.90	68.991		
6,900.00	5,897.14	4,915.29	4,607.27	68.26	33.76	-140.61	1,422.89	-1,254.19	4,345.33	4,282.90	62.42	69.611		
7,000.00	5,977.43	5,965.82	5,616.70	69.50	39.71	-144.19	1,619.73	-1,442.08	4,410.92	4,337.96	72.96	60.456		
7,100.00	6,057.72	6,180.05	5,830.19	70.75	40.34	-145.20	1,630.46	-1,456.01	4,469.03	4,394.57	74.46	60.019		
7,200.00	6,138.02	7,200.00	6,086.49	72.00	42.26	-146.50	1,631.90	-1,462.98	4,523.54	4,446.06	77.48	58.382 SF		
7,300.00	6,218.31	6,518.49	6,168.49	73.25	41.02	-146.89	1,631.98	-1,463.48	4,576.84	4,500.24	76.60	59.751		
7,400.00	6,298.60	6,573.48	6,223.48	74.50	41.13	-147.15	1,632.35	-1,464.13	4,630.75	4,553.54	77.21	59.973		
7,500.00	6,378.90	6,630.98	6,280.96	75.75	41.25	-147.42	1,632.89	-1,465.07	4,685.21	4,607.38	77.84	60.194		
7,600.00	6,459.19	6,673.19	6,323.14	77.00	41.74	-148.50	1,634.63	-1,465.92	4,739.07	4,659.91	79.16	59.868		
7,700.00	6,539.48	6,934.43	6,584.37	78.25	41.85	-148.76	1,634.79	-1,465.10	4,791.41	4,711.63	79.79	60.054		
7,800.00	6,619.77	6,994.23	6,644.17	79.50	41.96	-149.02	1,634.73	-1,464.56	4,844.25	4,763.85	80.40	60.254		
7,900.00	6,700.07	7,050.37	6,700.31	80.75	42.06	-149.26	1,634.47	-1,464.30	4,897.59	4,816.61	80.99	60.474		
8,000.00	6,780.36	7,110.00	6,759.94	82.00	42.17	-149.52	1,634.07	-1,464.36	4,951.50	4,869.92	81.58	60.695		
8,100.00	6,860.65	7,160.79	6,810.73	83.25	42.27	-149.73	1,633.72	-1,464.66	5,005.95	4,923.81	82.14	60.947		
8,200.00	6,940.94	7,217.76	6,867.70	84.50	42.38	-149.97	1,633.45	-1,465.25	5,060.89	4,978.17	82.71	61.187		
8,300.00	7,021.24	7,275.27	6,925.20	85.76	42.49	-150.20	1,633.17	-1,466.10	5,116.30	5,033.02	83.29	61.431		
8,400.00	7,101.53	7,332.46	6,982.37	87.01	42.61	-150.43	1,632.86	-1,467.18	5,172.18	5,088.32	83.85	61.682		
8,500.00	7,181.82	7,390.00	7,039.90	88.26	42.73	-150.66	1,632.50	-1,468.52	5,228.51	5,144.09	84.42	61.938		
8,605.60	7,266.61	7,511.14	7,161.01	89.58	42.98	-151.14	1,631.41	-1,470.93	5,287.78	5,202.52	85.27	62.016		
8,650.00	7,302.60	7,538.07	7,187.93	90.13	43.03	-160.07	1,631.07	-1,471.43	5,312.88	5,227.38	85.51	62.135		
8,700.00	7,343.78	7,568.82	7,218.67	90.72	43.10	-170.70	1,630.65	-1,472.05	5,341.46	5,255.71	85.75	62.291		
8,750.00	7,385.32	7,577.00	7,226.85	91.28	43.11	-178.35	1,630.53	-1,472.22	5,370.21	5,284.34	85.86	62.544		
8,800.00	7,426.92	7,609.23	7,259.07	91.81	43.19	-167.38	1,630.19	-1,473.04	5,398.86	5,312.80	86.05	62.738		
8,850.00	7,468.27	8,045.00	7,694.46	92.29	44.05	-157.85	1,626.25	-1,469.64	5,425.58	5,337.76	87.83	61.775		
8,900.00	7,509.04	8,071.42	7,720.86	92.72	44.10	-148.37	1,626.03	-1,468.54	5,450.44	5,362.50	87.94	61.977		
8,950.00	7,548.93	8,101.69	7,751.11	93.10	44.15	-139.72	1,625.83	-1,467.33	5,474.66	5,386.62	88.04	62.182		
9,000.00	7,587.63	8,130.98	7,780.37	93.43	44.21	-131.96	1,625.67	-1,466.22	5,498.08	5,409.97	88.11	62.398		
9,050.00	7,624.85	8,164.33	7,813.70	93.71	44.27	-125.14	1,625.57	-1,465.01	5,520.54	5,432.36	88.18	62.606		
9,100.00	7,660.30	8,197.63	7,846.98	93.93	44.33	-119.19	1,625.56	-1,463.83	5,541.88	5,453.65	88.23	62.814		
9,150.00	7,693.72	8,228.85	7,878.18	94.10	44.39	-114.03	1,625.64	-1,462.73	5,561.98	5,473.73	88.25	63.022		
9,200.00	7,724.85	8,262.61	7,911.92	94.23	44.46	-109.62	1,625.81	-1,461.56	5,580.74	5,492.46	88.28	63.213		
9,250.00	7,753.45	8,294.08	7,943.37	94.30	44.52	-105.86	1,625.99	-1,460.45	5,598.05	5,509.75	88.30	63.398		
9,300.00	7,779.31	8,322.43	7,971.70	94.34	44.58	-102.66	1,626.18	-1,459.44	5,613.84	5,525.54	88.30	63.574		
9,350.00	7,802.23	8,341.76	7,991.02	94.33	44.62	-99.91	1,626.33	-1,458.75	5,628.05	5,539.78	88.27	63.757		
9,400.00	7,822.03	8,357.56	8,006.80	94.28	44.65	-97.62	1,626.46	-1,458.20	5,640.65	5,552.41	88.24	63.926		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,370.65	8,019.89	94.20	44.68	95.74	1,626.57	-1,457.75	5,651.57	5,563.37	88.20	64.078		
9,500.00	7,851.72	8,380.95	8,030.19	94.10	44.70	94.25	1,626.66	-1,457.41	5,660.77	5,572.61	88.16	64.208		
9,550.00	7,861.37	8,388.40	8,037.63	93.96	44.71	93.12	1,626.73	-1,457.16	5,668.20	5,580.07	88.13	64.314		
9,600.00	7,867.46	8,392.95	8,042.18	93.81	44.72	92.34	1,626.77	-1,457.01	5,673.83	5,585.72	88.11	64.395		
9,650.00	7,869.94	8,394.58	8,043.80	93.64	44.72	91.89	1,626.78	-1,456.96	5,677.63	5,589.54	88.09	64.450		
9,659.14	7,870.00	8,394.56	8,043.78	93.60	44.72	91.85	1,626.78	-1,456.96	5,678.12	5,590.03	88.09	64.457		
9,700.00	7,870.00	8,394.26	8,043.48	93.46	44.72	91.84	1,626.78	-1,456.97	5,680.35	5,592.26	88.09	64.486		
9,800.00	7,870.00	8,393.52	8,042.74	93.11	44.72	91.84	1,626.77	-1,456.99	5,687.01	5,598.92	88.09	64.558		
9,900.00	7,870.00	8,392.78	8,042.01	92.77	44.72	91.83	1,626.77	-1,457.02	5,695.43	5,607.32	88.12	64.635		
10,000.00	7,870.00	8,392.05	8,041.27	92.46	44.72	91.82	1,626.76	-1,457.04	5,705.59	5,617.43	88.16	64.717		
10,100.00	7,870.00	8,391.32	8,040.55	92.16	44.72	91.81	1,626.75	-1,457.06	5,717.48	5,629.25	88.23	64.804		
10,200.00	7,870.00	8,390.59	8,039.82	91.87	44.72	91.81	1,626.75	-1,457.09	5,731.09	5,642.78	88.31	64.896		
10,300.00	7,870.00	8,389.87	8,039.10	91.60	44.71	91.80	1,626.74	-1,457.11	5,746.41	5,657.99	88.42	64.993		
10,400.00	7,870.00	8,389.15	8,038.38	91.34	44.71	91.79	1,626.73	-1,457.14	5,763.42	5,674.88	88.54	65.097		
10,500.00	7,870.00	8,388.43	8,037.66	91.11	44.71	91.79	1,626.73	-1,457.16	5,782.11	5,693.44	88.67	65.207		
10,600.00	7,870.00	8,387.71	8,036.94	90.88	44.71	91.78	1,626.72	-1,457.18	5,802.46	5,713.64	88.83	65.324		
10,700.00	7,870.00	8,387.00	8,036.23	90.67	44.71	91.77	1,626.71	-1,457.21	5,824.47	5,735.47	88.99	65.448		
10,800.00	7,870.00	8,386.29	8,035.52	90.48	44.71	91.76	1,626.71	-1,457.23	5,848.09	5,758.92	89.18	65.579		
10,900.00	7,870.00	8,385.59	8,034.82	90.31	44.71	91.76	1,626.70	-1,457.25	5,873.33	5,783.96	89.37	65.718		
11,000.00	7,870.00	8,384.89	8,034.12	90.15	44.70	91.75	1,626.69	-1,457.28	5,900.15	5,810.57	89.58	65.865		
11,100.00	7,870.00	8,384.19	8,033.42	90.00	44.70	91.74	1,626.69	-1,457.30	5,928.54	5,838.74	89.80	66.021		
11,200.00	7,870.00	8,383.49	8,032.72	89.88	44.70	91.74	1,626.68	-1,457.32	5,958.47	5,868.44	90.03	66.185		
11,300.00	7,870.00	8,382.79	8,032.03	89.77	44.70	91.73	1,626.68	-1,457.35	5,989.92	5,899.66	90.27	66.358		
11,400.00	7,870.00	8,382.10	8,031.34	89.68	44.70	91.72	1,626.67	-1,457.37	6,022.87	5,932.36	90.51	66.541		
11,500.00	7,870.00	8,381.42	8,030.65	89.60	44.70	91.71	1,626.66	-1,457.39	6,057.29	5,966.52	90.77	66.732		
11,600.00	7,870.00	8,380.73	8,029.96	89.55	44.70	91.71	1,626.66	-1,457.42	6,093.16	6,002.12	91.03	66.933		
11,700.00	7,870.00	8,380.05	8,029.28	89.52	44.69	91.70	1,626.65	-1,457.44	6,130.44	6,039.14	91.30	67.144		
11,800.00	7,870.00	8,379.37	8,028.60	89.50	44.69	91.69	1,626.65	-1,457.46	6,169.13	6,077.55	91.58	67.364		
11,900.00	7,870.00	8,378.69	8,027.92	89.51	44.69	91.69	1,626.64	-1,457.48	6,209.18	6,117.32	91.86	67.594		
12,000.00	7,870.00	8,378.02	8,027.25	89.54	44.69	91.68	1,626.63	-1,457.51	6,250.58	6,158.43	92.15	67.834		
12,100.00	7,870.00	8,377.34	8,026.58	89.59	44.69	91.67	1,626.63	-1,457.53	6,293.29	6,200.85	92.44	68.083		
12,200.00	7,870.00	8,376.67	8,025.91	89.66	44.69	91.67	1,626.62	-1,457.55	6,337.29	6,244.56	92.73	68.343		
12,300.00	7,870.00	8,376.01	8,025.24	89.77	44.69	91.66	1,626.62	-1,457.57	6,382.56	6,289.53	93.02	68.612		
12,400.00	7,870.00	8,375.34	8,024.58	89.89	44.68	91.65	1,626.61	-1,457.60	6,429.06	6,335.74	93.32	68.891		
12,500.00	7,870.00	8,374.68	8,023.92	90.05	44.68	91.65	1,626.60	-1,457.62	6,476.77	6,383.15	93.62	69.180		
12,600.00	7,870.00	8,374.03	8,023.26	90.24	44.68	91.64	1,626.60	-1,457.64	6,525.67	6,431.75	93.92	69.479		
12,700.00	7,870.00	8,373.37	8,022.61	90.46	44.68	91.63	1,626.59	-1,457.66	6,575.73	6,481.50	94.22	69.787		
12,800.00	7,870.00	8,372.72	8,021.96	90.71	44.68	91.63	1,626.59	-1,457.68	6,626.91	6,532.38	94.53	70.105		
12,900.00	7,870.00	8,372.07	8,021.31	90.99	44.68	91.62	1,626.58	-1,457.71	6,679.20	6,584.37	94.83	70.433		
13,000.00	7,870.00	8,371.42	8,020.66	91.32	44.68	91.61	1,626.58	-1,457.73	6,732.57	6,637.44	95.13	70.770		
13,100.00	7,870.00	8,370.77	8,020.01	91.68	44.68	91.61	1,626.57	-1,457.75	6,786.99	6,691.56	95.44	71.116		
13,200.00	7,870.00	8,370.13	8,019.37	92.08	44.67	91.60	1,626.56	-1,457.77	6,842.44	6,746.71	95.74	71.471		
13,300.00	7,870.00	8,369.49	8,018.73	92.52	44.67	91.59	1,626.56	-1,457.79	6,898.90	6,802.86	96.04	71.835		
13,400.00	7,870.00	8,368.85	8,018.09	93.00	44.67	91.59	1,626.55	-1,457.82	6,956.33	6,859.99	96.34	72.208		
13,500.00	7,870.00	8,368.22	8,017.46	93.53	44.67	91.58	1,626.55	-1,457.84	7,014.72	6,918.09	96.64	72.589		
13,600.00	7,870.00	8,367.59	8,016.83	94.10	44.67	91.57	1,626.54	-1,457.86	7,074.04	6,977.11	96.93	72.979		
13,700.00	7,870.00	8,366.96	8,016.20	94.72	44.67	91.57	1,626.54	-1,457.88	7,134.27	7,037.05	97.23	73.378		
13,800.00	7,870.00	8,366.33	8,015.57	95.38	44.67	91.56	1,626.53	-1,457.90	7,195.39	7,097.87	97.52	73.785		
13,900.00	7,870.00	8,365.70	8,014.95	96.09	44.67	91.56	1,626.53	-1,457.92	7,257.37	7,159.56	97.81	74.200		
14,000.00	7,870.00	8,365.08	8,014.32	96.84	44.66	91.55	1,626.52	-1,457.94	7,320.19	7,222.09	98.10	74.623		
14,100.00	7,870.00	8,364.46	8,013.71	97.64	44.66	91.54	1,626.52	-1,457.96	7,383.83	7,285.45	98.38	75.053		
14,200.00	7,870.00	8,363.84	8,013.09	98.48	44.66	91.54	1,626.51	-1,457.99	7,448.27	7,349.60	98.66	75.491		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,363.23	8,012.47	99.37	44.66	91.53	1,626.51	-1,458.01	7,513.48	7,414.54	98.94	75.937		
14,400.00	7,870.00	8,362.62	8,011.86	100.30	44.66	91.52	1,626.50	-1,458.03	7,579.46	7,480.24	99.22	76.390		
14,500.00	7,870.00	8,362.01	8,011.25	101.26	44.66	91.52	1,626.50	-1,458.05	7,646.17	7,546.68	99.49	76.850		
14,600.00	7,870.00	8,361.40	8,010.64	102.27	44.66	91.51	1,626.49	-1,458.07	7,713.61	7,613.84	99.77	77.317		
14,700.00	7,870.00	8,360.79	8,010.04	103.31	44.66	91.51	1,626.49	-1,458.09	7,781.74	7,681.71	100.03	77.791		
14,800.00	7,870.00	8,360.19	8,009.43	104.38	44.65	91.50	1,626.48	-1,458.11	7,850.56	7,750.26	100.30	78.272		
14,900.00	7,870.00	8,359.59	8,008.83	105.49	44.65	91.49	1,626.47	-1,458.13	7,920.04	7,819.48	100.56	78.759		
15,000.00	7,870.00	8,358.99	8,008.23	106.63	44.65	91.49	1,626.47	-1,458.15	7,990.16	7,889.34	100.82	79.252		
15,100.00	7,870.00	8,358.39	8,007.64	107.80	44.65	91.48	1,626.47	-1,458.17	8,060.92	7,959.85	101.07	79.752		
15,200.00	7,870.00	8,357.80	8,007.04	109.00	44.65	91.48	1,626.46	-1,458.19	8,132.30	8,030.97	101.33	80.258		
15,300.00	7,870.00	8,357.21	8,006.45	110.22	44.65	91.47	1,626.46	-1,458.21	8,204.27	8,102.69	101.58	80.770		
15,400.00	7,870.00	8,356.62	8,005.86	111.47	44.65	91.46	1,626.45	-1,458.23	8,276.82	8,175.00	101.82	81.287		
15,500.00	7,870.00	8,356.03	8,005.28	112.74	44.65	91.46	1,626.45	-1,458.25	8,349.94	8,247.87	102.06	81.810		
15,600.00	7,870.00	8,355.44	8,004.69	114.03	44.64	91.45	1,626.44	-1,458.27	8,423.61	8,321.31	102.30	82.339		
15,700.00	7,870.00	8,354.86	8,004.11	115.34	44.64	91.45	1,626.44	-1,458.29	8,497.82	8,395.28	102.54	82.873		
15,800.00	7,870.00	8,354.28	8,003.53	116.68	44.64	91.44	1,626.43	-1,458.31	8,572.56	8,469.78	102.77	83.412		
15,900.00	7,870.00	8,353.70	8,002.95	118.02	44.64	91.43	1,626.43	-1,458.33	8,647.80	8,544.80	103.00	83.956		
16,000.00	7,870.00	8,353.12	8,002.37	119.39	44.64	91.43	1,626.42	-1,458.35	8,723.54	8,620.31	103.23	84.506		
16,100.00	7,870.00	8,352.55	8,001.80	120.77	44.64	91.42	1,626.42	-1,458.37	8,799.77	8,696.31	103.45	85.060		
16,200.00	7,870.00	8,351.98	8,001.23	122.17	44.64	91.42	1,626.41	-1,458.39	8,876.47	8,772.79	103.67	85.619		
16,300.00	7,870.00	8,351.41	8,000.66	123.58	44.64	91.41	1,626.41	-1,458.41	8,953.63	8,849.73	103.89	86.182		
16,400.00	7,870.00	8,350.84	8,000.09	125.00	44.64	91.41	1,626.40	-1,458.43	9,031.23	8,927.13	104.11	86.750		
16,500.00	7,870.00	8,350.27	7,999.53	126.43	44.63	91.40	1,626.40	-1,458.45	9,109.27	9,004.96	104.32	87.322		
16,600.00	7,870.00	8,349.71	7,998.96	127.88	44.63	91.39	1,626.39	-1,458.47	9,187.74	9,083.22	104.53	87.899		
16,700.00	7,870.00	8,349.15	7,998.40	129.34	44.63	91.39	1,626.39	-1,458.49	9,266.63	9,161.89	104.73	88.479		
16,800.00	7,870.00	8,348.59	7,997.84	130.81	44.63	91.38	1,626.38	-1,458.51	9,345.91	9,240.98	104.93	89.064		
16,900.00	7,870.00	8,348.03	7,997.29	132.28	44.63	91.38	1,626.38	-1,458.53	9,425.59	9,320.46	105.13	89.653		
17,000.00	7,870.00	8,347.48	7,996.73	133.77	44.63	91.37	1,626.38	-1,458.55	9,505.66	9,400.33	105.33	90.245		
17,100.00	7,870.00	8,346.92	7,996.18	135.27	44.63	91.37	1,626.37	-1,458.57	9,586.10	9,480.57	105.53	90.841		
17,200.00	7,870.00	8,346.37	7,995.63	136.77	44.63	91.36	1,626.37	-1,458.59	9,666.90	9,561.19	105.72	91.441		
17,300.00	7,870.00	8,345.82	7,995.08	138.28	44.63	91.35	1,626.36	-1,458.61	9,748.06	9,642.16	105.91	92.044		
17,400.00	7,870.00	8,345.28	7,994.53	139.80	44.62	91.35	1,626.36	-1,458.63	9,829.57	9,723.48	106.09	92.651		
17,500.00	7,870.00	8,344.73	7,993.99	141.33	44.62	91.34	1,626.35	-1,458.65	9,911.42	9,805.14	106.28	93.261		
17,600.00	7,870.00	8,344.19	7,993.44	142.86	44.62	91.34	1,626.35	-1,458.67	9,993.59	9,887.14	106.46	93.874		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-31.59	218.57	-134.40	256.75					
100.00	100.00	90.22	90.22	0.13	0.15	-31.57	218.73	-134.41	256.73	256.45	0.28	913.306 CC		
200.00	200.00	188.75	188.75	0.49	0.41	-31.43	219.51	-134.13	257.26	256.36	0.90	286.190 ES		
300.00	300.00	284.81	284.73	0.85	0.76	-30.70	222.43	-132.06	258.76	257.15	1.61	161.216		
400.00	400.00	381.38	381.07	1.21	1.11	-29.39	228.11	-128.49	261.99	259.67	2.32	112.957		
500.00	500.00	476.59	475.72	1.57	1.47	-27.40	236.30	-122.51	266.61	263.57	3.04	87.710		
600.00	600.00	568.58	566.70	1.93	1.85	-24.87	247.44	-114.70	273.82	270.05	3.77	72.725		
700.00	699.98	658.40	655.01	2.28	2.24	-86.05	261.49	-106.32	284.45	279.96	4.49	63.420		
800.00	799.84	752.49	747.02	2.64	2.68	-83.81	278.99	-97.29	297.94	292.71	5.23	56.988		
900.00	899.45	845.06	837.26	3.00	3.12	-82.24	297.53	-88.28	312.66	306.69	5.98	52.328		
1,000.00	998.70	937.30	926.82	3.37	3.59	-81.29	317.93	-79.83	329.18	322.44	6.74	48.847		
1,100.00	1,097.47	1,035.82	1,022.28	3.76	4.09	-80.97	340.76	-71.40	346.38	338.83	7.56	45.846		
1,200.00	1,195.62	1,136.66	1,120.13	4.18	4.61	-81.25	363.55	-62.65	362.48	354.05	8.43	43.006		
1,300.00	1,293.06	1,238.82	1,219.28	4.63	5.14	-81.95	386.12	-52.95	377.39	368.03	9.35	40.350		
1,400.00	1,389.64	1,343.72	1,321.54	5.11	5.67	-83.36	407.62	-43.69	390.71	380.38	10.34	37.793		
1,500.00	1,485.27	1,430.46	1,406.00	5.63	6.11	-84.83	425.94	-36.39	404.73	393.47	11.26	35.942		
1,600.00	1,579.82	1,528.60	1,501.10	6.20	6.63	-86.62	448.37	-27.16	420.18	407.85	12.33	34.078		
1,700.00	1,673.17	1,623.65	1,592.71	6.83	7.16	-88.32	471.26	-16.28	436.26	422.80	13.46	32.418		
1,800.00	1,765.21	1,725.67	1,690.93	7.51	7.73	-90.38	495.82	-3.75	452.51	437.79	14.71	30.757		
1,900.00	1,855.84	1,827.32	1,789.10	8.24	8.29	-92.78	519.07	8.66	468.62	452.59	16.03	29.241		
2,000.00	1,944.94	1,931.21	1,890.02	9.05	8.83	-95.70	540.55	20.72	484.53	467.12	17.40	27.841		
2,100.00	2,032.39	2,029.72	1,986.34	9.91	9.32	-98.90	558.41	31.09	500.94	482.17	18.77	26.692		
2,200.00	2,118.11	2,124.42	2,079.56	10.85	9.76	-102.43	573.24	38.68	519.67	499.57	20.11	25.844		
2,300.00	2,201.97	2,220.14	2,173.81	11.85	10.19	-106.00	587.59	47.24	540.62	519.17	21.45	25.198		
2,400.00	2,283.88	2,308.35	2,260.55	12.93	10.60	-109.19	601.13	55.80	564.82	542.06	22.75	24.822		
2,429.47	2,307.63	2,333.47	2,285.19	13.26	10.72	-110.05	605.25	58.37	572.71	549.58	23.13	24.760		
2,500.00	2,364.26	2,393.87	2,344.33	14.06	11.02	-112.38	615.77	64.79	592.73	568.71	24.02	24.675		
2,600.00	2,444.56	2,481.00	2,429.52	15.22	11.45	-115.46	631.54	74.04	623.24	597.97	25.26	24.672 SF		
2,700.00	2,524.85	2,570.81	2,517.34	16.39	11.89	-118.37	647.71	83.61	655.43	628.96	26.47	24.759		
2,800.00	2,605.14	2,655.31	2,599.83	17.57	12.32	-120.83	663.61	92.66	689.45	661.84	27.61	24.972		
2,900.00	2,685.43	2,739.59	2,682.02	18.76	12.75	-123.04	680.12	101.39	725.30	696.59	28.72	25.259		
3,000.00	2,765.73	2,860.05	2,799.90	19.96	13.34	-126.07	700.46	115.41	760.06	730.02	30.04	25.298		
3,100.00	2,846.02	2,947.13	2,885.13	21.16	13.76	-128.09	714.37	126.57	794.73	763.65	31.08	25.574		
3,200.00	2,926.31	3,036.38	2,972.33	22.37	14.20	-129.93	729.57	137.96	830.65	798.54	32.12	25.864		
3,300.00	3,006.60	3,138.02	3,071.18	23.59	14.73	-131.73	748.10	152.72	866.09	832.82	33.27	26.032		
3,400.00	3,086.90	3,212.58	3,143.57	24.81	15.12	-132.91	762.53	163.22	902.80	868.60	34.21	26.394		
3,500.00	3,167.19	3,297.90	3,226.73	26.03	15.56	-134.25	778.21	174.04	941.02	905.83	35.19	26.745		
3,600.00	3,247.48	3,387.43	3,314.14	27.25	16.01	-135.58	794.14	184.99	979.98	943.80	36.17	27.090		
3,700.00	3,327.77	3,459.58	3,384.40	28.48	16.38	-136.52	808.16	193.54	1,020.03	983.01	37.02	27.550		
3,800.00	3,408.07	3,559.67	3,481.82	29.71	16.90	-137.70	828.34	204.49	1,061.41	1,023.27	38.14	27.830		
3,900.00	3,488.36	3,656.19	3,575.73	30.94	17.40	-138.77	847.13	216.50	1,101.54	1,062.33	39.21	28.092		
4,000.00	3,568.65	3,751.76	3,668.47	32.17	17.91	-139.70	866.60	228.81	1,141.71	1,101.42	40.29	28.339		
4,100.00	3,648.95	3,833.02	3,747.49	33.41	18.34	-140.48	882.48	239.22	1,182.06	1,140.85	41.21	28.684		
4,200.00	3,729.24	3,940.25	3,851.44	34.64	18.91	-141.36	904.91	252.90	1,222.89	1,180.48	42.41	28.835		
4,300.00	3,809.53	4,011.04	3,919.71	35.88	19.30	-141.84	920.91	262.63	1,263.19	1,219.91	43.28	29.187		
4,400.00	3,889.82	4,079.54	3,986.22	37.12	19.67	-142.34	935.39	270.29	1,305.61	1,261.53	44.09	29.615		
4,500.00	3,970.12	4,167.48	4,071.74	38.36	20.13	-142.97	953.61	279.70	1,348.64	1,303.56	45.07	29.921		
4,600.00	4,050.41	4,244.47	4,146.73	39.60	20.53	-143.51	969.21	287.43	1,392.34	1,346.41	45.93	30.312		
4,700.00	4,130.70	4,353.26	4,253.07	40.84	21.07	-144.31	989.36	298.44	1,435.99	1,388.92	47.07	30.507		
4,800.00	4,210.99	4,456.08	4,353.77	42.08	21.57	-145.10	1,006.29	310.35	1,478.28	1,430.19	48.09	30.739		
4,900.00	4,291.29	4,522.00	4,418.46	43.32	21.88	-145.60	1,016.77	317.59	1,521.33	1,472.56	48.76	31.199		
5,000.00	4,371.58	4,588.15	4,483.56	44.57	22.18	-146.10	1,026.65	323.85	1,565.84	1,516.44	49.40	31.698		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,653.24	4,547.89	45.81	22.46	-146.64	1,035.15	328.92	1,611.89	1,561.91	49.98	32.251		
5,200.00	4,532.16	4,718.58	4,612.72	47.05	22.72	-147.21	1,042.13	333.13	1,659.23	1,608.72	50.51	32.847		
5,300.00	4,612.46	4,778.68	4,672.51	48.30	22.94	-147.76	1,047.35	336.12	1,708.00	1,657.05	50.96	33.520		
5,400.00	4,692.75	4,841.58	4,735.22	49.54	23.16	-148.36	1,051.74	338.36	1,758.20	1,706.82	51.38	34.216		
5,500.00	4,773.04	4,906.80	4,800.32	50.79	23.37	-148.98	1,055.31	339.97	1,809.56	1,757.76	51.81	34.930		
5,600.00	4,853.34	4,975.25	4,868.72	52.03	23.57	-149.67	1,057.65	341.09	1,861.90	1,809.69	52.21	35.659		
5,700.00	4,933.63	5,055.39	4,948.84	53.28	23.80	-150.47	1,059.02	342.04	1,914.92	1,862.23	52.69	36.344		
5,800.00	5,013.92	5,133.69	5,027.13	54.53	24.01	-151.24	1,059.92	342.98	1,968.24	1,915.10	53.14	37.038		
5,900.00	5,094.21	5,198.91	5,092.35	55.77	24.18	-151.87	1,059.89	343.58	2,022.13	1,968.65	53.48	37.811		
6,000.00	5,174.51	5,250.03	5,143.47	57.02	24.31	-152.34	1,060.05	343.39	2,077.30	2,023.59	53.71	38.674		
6,100.00	5,254.80	5,314.66	5,208.09	58.27	24.48	-152.90	1,060.64	342.33	2,133.67	2,079.61	54.07	39.465		
6,200.00	5,335.09	5,393.15	5,286.56	59.52	24.68	-153.55	1,061.43	340.80	2,190.52	2,135.97	54.54	40.162		
6,300.00	5,415.38	5,480.30	5,373.70	60.76	24.91	-154.24	1,062.31	339.31	2,247.37	2,192.27	55.10	40.786		
6,400.00	5,495.68	5,562.09	5,455.48	62.01	25.12	-154.86	1,062.85	338.16	2,304.21	2,248.59	55.62	41.430		
6,500.00	5,575.97	5,627.75	5,521.13	63.26	25.29	-155.35	1,063.00	337.05	2,361.47	2,305.47	56.00	42.171		
6,600.00	5,656.26	5,709.61	5,602.96	64.51	25.50	-155.94	1,062.99	335.43	2,419.16	2,362.64	56.52	42.805		
6,700.00	5,736.55	5,789.90	5,683.25	65.76	25.71	-156.48	1,063.08	333.99	2,476.85	2,419.81	57.03	43.429		
6,800.00	5,816.85	5,883.59	5,776.92	67.01	25.95	-157.08	1,063.39	332.39	2,534.62	2,476.95	57.67	43.947		
6,900.00	5,897.14	5,963.88	5,857.20	68.26	26.17	-157.57	1,063.85	331.54	2,591.96	2,533.75	58.22	44.524		
7,000.00	5,977.43	6,029.65	5,922.96	69.50	26.35	-157.96	1,064.09	330.47	2,649.89	2,591.25	58.64	45.191		
7,100.00	6,057.72	6,134.35	6,027.65	70.75	26.63	-158.56	1,064.28	329.20	2,707.63	2,648.24	59.39	45.591		
7,200.00	6,138.02	6,215.64	6,108.95	72.00	26.85	-159.00	1,064.45	328.60	2,765.12	2,705.17	59.95	46.122		
7,300.00	6,218.31	6,276.57	6,169.87	73.25	27.02	-159.32	1,064.61	327.92	2,823.01	2,762.66	60.35	46.776		
7,400.00	6,298.60	6,358.14	6,251.43	74.50	27.24	-159.73	1,064.85	326.64	2,881.36	2,820.43	60.93	47.289		
7,500.00	6,378.90	6,447.90	6,341.18	75.75	27.49	-160.16	1,065.02	325.59	2,939.49	2,877.91	61.58	47.732		
7,600.00	6,459.19	6,577.23	6,470.50	77.00	27.84	-160.78	1,064.37	325.27	2,997.19	2,934.65	62.55	47.920		
7,700.00	6,539.48	6,662.45	6,555.72	78.25	28.07	-161.20	1,063.11	326.17	3,054.00	2,990.86	63.14	48.371		
7,800.00	6,619.77	6,736.59	6,629.84	79.50	28.27	-161.54	1,062.08	326.93	3,110.92	3,047.27	63.65	48.876		
7,900.00	6,700.07	6,813.15	6,706.40	80.75	28.48	-161.88	1,061.33	327.48	3,168.09	3,103.90	64.19	49.353		
8,000.00	6,780.36	6,900.46	6,793.71	82.00	28.72	-162.24	1,060.78	328.06	3,225.35	3,160.52	64.83	49.749		
8,100.00	6,860.65	6,990.58	6,883.82	83.25	28.98	-162.60	1,060.69	328.91	3,282.36	3,216.85	65.51	50.103		
8,200.00	6,940.94	7,070.05	6,963.28	84.50	29.22	-162.88	1,061.26	329.57	3,339.40	3,273.28	66.12	50.503		
8,300.00	7,021.24	7,153.92	7,047.15	85.76	29.47	-163.18	1,061.92	330.23	3,396.52	3,329.74	66.78	50.863		
8,400.00	7,101.53	7,285.57	7,178.78	87.01	29.88	-163.61	1,063.22	332.19	3,453.15	3,385.31	67.83	50.905		
8,500.00	7,181.82	7,388.64	7,281.80	88.26	30.19	-163.95	1,063.91	335.20	3,508.66	3,440.01	68.64	51.114		
8,605.60	7,266.61	7,466.85	7,359.97	89.58	30.44	-164.21	1,064.19	337.57	3,567.35	3,498.10	69.25	51.513		
8,650.00	7,302.60	7,498.20	7,391.31	90.13	30.54	-173.02	1,064.50	338.39	3,591.96	3,522.45	69.50	51.682		
8,700.00	7,343.78	7,539.54	7,432.64	90.72	30.67	176.70	1,065.11	339.39	3,619.18	3,549.34	69.84	51.823		
8,750.00	7,385.32	7,586.21	7,479.28	91.28	30.82	166.32	1,065.90	340.53	3,645.59	3,575.37	70.22	51.914		
8,800.00	7,426.92	7,632.57	7,525.62	91.81	30.96	156.16	1,066.73	341.71	3,671.00	3,600.39	70.61	51.990		
8,850.00	7,468.27	7,678.37	7,571.40	92.29	31.11	146.53	1,067.44	342.95	3,695.24	3,624.25	70.99	52.053		
8,900.00	7,509.04	7,715.29	7,608.31	92.72	31.23	137.60	1,067.91	343.99	3,718.19	3,646.89	71.30	52.149		
8,950.00	7,548.93	7,741.62	7,634.62	93.10	31.31	129.51	1,068.19	344.66	3,739.87	3,668.35	71.52	52.290		
9,000.00	7,587.63	7,767.07	7,660.06	93.43	31.39	122.36	1,068.40	345.23	3,760.20	3,688.46	71.74	52.412		
9,050.00	7,624.85	7,797.00	7,689.99	93.71	31.49	116.21	1,068.59	345.79	3,779.08	3,707.08	72.01	52.482		
9,100.00	7,660.30	7,817.86	7,710.85	93.93	31.55	110.85	1,068.70	346.12	3,796.40	3,724.19	72.21	52.578		
9,150.00	7,693.72	7,843.59	7,736.57	94.10	31.63	106.35	1,068.83	346.48	3,812.06	3,739.60	72.46	52.612		
9,200.00	7,724.85	7,867.48	7,760.46	94.23	31.70	102.56	1,068.95	346.76	3,826.02	3,753.31	72.71	52.621		
9,250.00	7,753.45	7,890.00	7,782.98	94.30	31.77	99.41	1,069.07	346.99	3,838.23	3,765.26	72.97	52.602		
9,300.00	7,779.31	7,930.60	7,823.58	94.34	31.90	97.08	1,069.26	347.44	3,848.59	3,775.19	73.40	52.433		
9,350.00	7,802.23	7,968.13	7,861.10	94.33	32.01	95.25	1,069.38	348.02	3,857.04	3,783.20	73.83	52.241		
9,400.00	7,822.03	8,000.81	7,893.77	94.28	32.11	93.84	1,069.46	348.64	3,863.60	3,789.35	74.25	52.036		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,010.34	7,903.31	94.20	32.14	92.54	1,069.50	348.81	3,868.38	3,793.87	74.51	51.920		
9,500.00	7,851.72	8,023.20	7,916.16	94.10	32.18	91.69	1,069.55	349.05	3,871.38	3,796.55	74.82	51.740		
9,550.00	7,861.37	8,032.54	7,925.50	93.96	32.21	91.16	1,069.59	349.22	3,872.61	3,797.47	75.15	51.535		
9,600.00	7,867.46	8,038.32	7,931.28	93.81	32.23	90.95	1,069.62	349.33	3,872.10	3,796.63	75.47	51.305		
9,650.00	7,869.94	8,040.53	7,933.49	93.64	32.24	91.03	1,069.63	349.37	3,869.87	3,794.07	75.80	51.050		
9,659.14	7,870.00	8,040.55	7,933.50	93.60	32.24	91.08	1,069.63	349.37	3,869.28	3,793.42	75.87	51.001		
9,700.00	7,870.00	8,040.35	7,933.31	93.46	32.24	91.07	1,069.63	349.37	3,866.72	3,790.58	76.14	50.782		
9,800.00	7,870.00	8,039.88	7,932.84	93.11	32.24	91.07	1,069.63	349.36	3,862.27	3,785.42	76.85	50.259		
9,900.00	7,870.00	8,039.41	7,932.37	92.77	32.23	91.06	1,069.62	349.35	3,860.41	3,782.82	77.58	49.759		
9,921.99	7,870.00	8,039.31	7,932.26	92.70	32.23	91.06	1,069.62	349.35	3,860.34	3,782.59	77.75	49.649		
10,000.00	7,870.00	8,038.94	7,931.90	92.46	32.23	91.05	1,069.62	349.34	3,861.13	3,782.79	78.34	49.284		
10,100.00	7,870.00	8,038.48	7,931.44	92.16	32.23	91.05	1,069.62	349.33	3,864.45	3,785.32	79.13	48.838		
10,200.00	7,870.00	8,038.02	7,930.98	91.87	32.23	91.04	1,069.62	349.32	3,870.34	3,790.41	79.93	48.421		
10,300.00	7,870.00	8,037.57	7,930.53	91.60	32.23	91.03	1,069.62	349.31	3,878.81	3,798.06	80.75	48.037		
10,400.00	7,870.00	8,037.12	7,930.08	91.34	32.23	91.03	1,069.61	349.31	3,889.83	3,808.25	81.57	47.686		
10,500.00	7,870.00	8,036.67	7,929.63	91.11	32.23	91.02	1,069.61	349.30	3,903.38	3,820.97	82.40	47.370		
10,600.00	7,870.00	8,036.23	7,929.19	90.88	32.22	91.01	1,069.61	349.29	3,919.43	3,836.20	83.23	47.089		
10,700.00	7,870.00	8,035.79	7,928.75	90.67	32.22	91.01	1,069.61	349.28	3,937.96	3,853.90	84.06	46.844		
10,800.00	7,870.00	8,035.36	7,928.31	90.48	32.22	91.00	1,069.61	349.27	3,958.93	3,874.04	84.89	46.636		
10,900.00	7,870.00	8,034.92	7,927.88	90.31	32.22	90.99	1,069.60	349.26	3,982.30	3,896.60	85.71	46.465		
11,000.00	7,870.00	8,034.50	7,927.45	90.15	32.22	90.99	1,069.60	349.26	4,008.03	3,921.52	86.51	46.331		
11,100.00	7,870.00	8,034.07	7,927.03	90.00	32.22	90.98	1,069.60	349.25	4,036.08	3,948.78	87.30	46.233		
11,200.00	7,870.00	8,033.65	7,926.61	89.88	32.22	90.97	1,069.60	349.24	4,066.39	3,978.32	88.07	46.171		
11,300.00	7,870.00	8,033.23	7,926.19	89.77	32.22	90.97	1,069.60	349.23	4,098.92	4,010.09	88.83	46.144		
11,400.00	7,870.00	8,032.81	7,925.77	89.68	32.21	90.96	1,069.59	349.23	4,133.61	4,044.04	89.56	46.153		
11,500.00	7,870.00	8,032.40	7,925.36	89.60	32.21	90.96	1,069.59	349.22	4,170.41	4,080.13	90.28	46.195		
11,600.00	7,870.00	8,031.99	7,924.95	89.55	32.21	90.95	1,069.59	349.21	4,209.26	4,118.30	90.97	46.271		
11,700.00	7,870.00	8,031.59	7,924.55	89.52	32.21	90.94	1,069.59	349.20	4,250.12	4,158.48	91.64	46.379		
11,800.00	7,870.00	8,031.19	7,924.15	89.50	32.21	90.94	1,069.59	349.20	4,292.91	4,200.63	92.28	46.519		
11,900.00	7,870.00	8,030.79	7,923.75	89.51	32.21	90.93	1,069.58	349.19	4,337.59	4,244.69	92.90	46.689		
12,000.00	7,870.00	8,030.39	7,923.35	89.54	32.21	90.93	1,069.58	349.18	4,384.09	4,290.59	93.50	46.889		
12,100.00	7,870.00	8,030.00	7,922.96	89.59	32.20	90.92	1,069.58	349.17	4,432.37	4,338.30	94.07	47.117		
12,200.00	7,870.00	8,029.61	7,922.57	89.66	32.20	90.91	1,069.58	349.17	4,482.35	4,387.73	94.62	47.372		
12,300.00	7,870.00	8,029.22	7,922.18	89.77	32.20	90.91	1,069.58	349.16	4,533.99	4,438.85	95.14	47.654		
12,400.00	7,870.00	8,028.84	7,921.80	89.89	32.20	90.90	1,069.58	349.15	4,587.23	4,491.58	95.64	47.962		
12,500.00	7,870.00	8,028.46	7,921.42	90.05	32.20	90.90	1,069.57	349.14	4,642.01	4,545.89	96.12	48.294		
12,600.00	7,870.00	8,028.08	7,921.04	90.24	32.20	90.89	1,069.57	349.14	4,698.28	4,601.71	96.58	48.649		
12,700.00	7,870.00	8,027.70	7,920.66	90.46	32.20	90.89	1,069.57	349.13	4,755.99	4,658.98	97.01	49.027		
12,800.00	7,870.00	8,027.33	7,920.29	90.71	32.20	90.88	1,069.57	349.12	4,815.08	4,717.66	97.42	49.427		
12,900.00	7,870.00	8,026.96	7,919.92	90.99	32.20	90.87	1,069.57	349.12	4,875.51	4,777.70	97.81	49.847		
13,000.00	7,870.00	8,026.59	7,919.55	91.32	32.19	90.87	1,069.57	349.11	4,937.23	4,839.05	98.18	50.288		
13,100.00	7,870.00	8,026.23	7,919.19	91.68	32.19	90.86	1,069.56	349.10	5,000.18	4,901.65	98.53	50.748		
13,200.00	7,870.00	8,025.87	7,918.83	92.08	32.19	90.86	1,069.56	349.10	5,064.33	4,965.46	98.86	51.226		
13,300.00	7,870.00	8,025.51	7,918.47	92.52	32.19	90.85	1,069.56	349.09	5,129.62	5,030.44	99.18	51.721		
13,400.00	7,870.00	8,025.15	7,918.11	93.00	32.19	90.85	1,069.56	349.08	5,196.01	5,096.54	99.48	52.233		
13,500.00	7,870.00	8,024.80	7,917.76	93.53	32.19	90.84	1,069.56	349.08	5,263.47	5,163.72	99.76	52.762		
13,600.00	7,870.00	8,024.45	7,917.41	94.10	32.19	90.84	1,069.56	349.07	5,331.96	5,231.93	100.03	53.306		
13,700.00	7,870.00	8,024.10	7,917.06	94.72	32.19	90.83	1,069.56	349.06	5,401.42	5,301.14	100.28	53.865		
13,800.00	7,870.00	8,023.75	7,916.71	95.38	32.19	90.83	1,069.55	349.06	5,471.83	5,371.31	100.52	54.437		
13,900.00	7,870.00	8,023.41	7,916.37	96.09	32.18	90.82	1,069.55	349.05	5,543.15	5,442.41	100.74	55.024		
14,000.00	7,870.00	8,023.07	7,916.03	96.84	32.18	90.82	1,069.55	349.04	5,615.35	5,514.39	100.95	55.623		
14,100.00	7,870.00	8,022.73	7,915.69	97.64	32.18	90.81	1,069.55	349.04	5,688.38	5,587.23	101.15	56.235		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,022.39	7,915.35	98.48	32.18	90.81	1,069.55	349.03	5,762.23	5,660.89	101.34	56.859		
14,300.00	7,870.00	8,022.06	7,915.02	99.37	32.18	90.80	1,069.55	349.03	5,836.85	5,735.33	101.52	57.494		
14,400.00	7,870.00	8,021.73	7,914.69	100.30	32.18	90.80	1,069.55	349.02	5,912.23	5,810.54	101.69	58.140		
14,500.00	7,870.00	8,021.40	7,914.36	101.26	32.18	90.79	1,069.54	349.01	5,988.32	5,886.48	101.85	58.797		
14,600.00	7,870.00	8,021.07	7,914.03	102.27	32.18	90.79	1,069.54	349.01	6,065.12	5,963.12	102.00	59.463		
14,700.00	7,870.00	8,020.74	7,913.71	103.31	32.18	90.78	1,069.54	349.00	6,142.57	6,040.43	102.14	60.139		
14,800.00	7,870.00	8,020.42	7,913.38	104.38	32.18	90.78	1,069.54	348.99	6,220.67	6,118.40	102.27	60.825		
14,900.00	7,870.00	8,020.10	7,913.06	105.49	32.17	90.77	1,069.54	348.99	6,299.39	6,197.00	102.40	61.519		
15,000.00	7,870.00	8,019.78	7,912.74	106.63	32.17	90.77	1,069.54	348.98	6,378.71	6,276.20	102.52	62.221		
15,100.00	7,870.00	8,019.47	7,912.43	107.80	32.17	90.76	1,069.54	348.98	6,458.60	6,355.97	102.63	62.932		
15,200.00	7,870.00	8,019.15	7,912.12	109.00	32.17	90.76	1,069.54	348.97	6,539.05	6,436.31	102.73	63.650		
15,300.00	7,870.00	8,018.84	7,911.80	110.22	32.17	90.75	1,069.53	348.97	6,620.02	6,517.19	102.83	64.376		
15,400.00	7,870.00	8,018.53	7,911.49	111.47	32.17	90.75	1,069.53	348.96	6,701.51	6,598.59	102.93	65.109		
15,500.00	7,870.00	8,018.23	7,911.19	112.74	32.17	90.74	1,069.53	348.95	6,783.50	6,680.49	103.02	65.849		
15,600.00	7,870.00	8,017.92	7,910.88	114.03	32.17	90.74	1,069.53	348.95	6,865.96	6,762.87	103.10	66.596		
15,700.00	7,870.00	8,017.62	7,910.58	115.34	32.17	90.74	1,069.53	348.94	6,948.89	6,845.71	103.18	67.349		
15,800.00	7,870.00	8,017.32	7,910.28	116.68	32.17	90.73	1,069.53	348.94	7,032.26	6,929.00	103.25	68.107		
15,900.00	7,870.00	8,017.02	7,909.98	118.02	32.16	90.73	1,069.53	348.93	7,116.05	7,012.73	103.32	68.872		
16,000.00	7,870.00	8,016.72	7,909.68	119.39	32.16	90.72	1,069.53	348.93	7,200.26	7,096.87	103.39	69.642		
16,100.00	7,870.00	8,016.43	7,909.39	120.77	32.16	90.72	1,069.53	348.92	7,284.87	7,181.42	103.45	70.418		
16,200.00	7,870.00	8,016.13	7,909.09	122.17	32.16	90.71	1,069.52	348.91	7,369.87	7,266.36	103.51	71.198		
16,300.00	7,870.00	8,015.84	7,908.80	123.58	32.16	90.71	1,069.52	348.91	7,455.24	7,351.67	103.57	71.984		
16,400.00	7,870.00	8,015.55	7,908.51	125.00	32.16	90.71	1,069.52	348.90	7,540.96	7,437.34	103.62	72.774		
16,500.00	7,870.00	8,015.27	7,908.23	126.43	32.16	90.70	1,069.52	348.90	7,627.04	7,523.37	103.67	73.568		
16,600.00	7,870.00	8,014.98	7,907.94	127.88	32.16	90.70	1,069.52	348.89	7,713.45	7,609.73	103.72	74.367		
16,700.00	7,870.00	8,014.70	7,907.66	129.34	32.16	90.69	1,069.52	348.89	7,800.18	7,696.42	103.77	75.171		
16,800.00	7,870.00	8,014.41	7,907.38	130.81	32.16	90.69	1,069.52	348.88	7,887.23	7,783.42	103.81	75.978		
16,900.00	7,870.00	8,014.13	7,907.10	132.28	32.16	90.68	1,069.52	348.88	7,974.59	7,870.74	103.85	76.789		
17,000.00	7,870.00	8,013.86	7,906.82	133.77	32.15	90.68	1,069.52	348.87	8,062.23	7,958.34	103.89	77.603		
17,100.00	7,870.00	8,013.58	7,906.54	135.27	32.15	90.68	1,069.51	348.87	8,150.17	8,046.24	103.93	78.421		
17,200.00	7,870.00	8,013.31	7,906.27	136.77	32.15	90.67	1,069.51	348.86	8,238.37	8,134.41	103.96	79.243		
17,300.00	7,870.00	8,013.03	7,906.00	138.28	32.15	90.67	1,069.51	348.86	8,326.85	8,222.85	104.00	80.068		
17,400.00	7,870.00	8,012.76	7,905.72	139.80	32.15	90.66	1,069.51	348.85	8,415.58	8,311.55	104.03	80.895		
17,500.00	7,870.00	8,012.49	7,905.46	141.33	32.15	90.66	1,069.51	348.85	8,504.56	8,400.50	104.06	81.726		
17,600.00	7,870.00	8,012.23	7,905.19	142.86	32.15	90.66	1,069.51	348.84	8,593.78	8,489.69	104.09	82.560		
17,700.00	7,870.00	8,011.96	7,904.92	144.40	32.15	90.65	1,069.51	348.84	8,683.24	8,579.12	104.12	83.396		
17,800.00	7,870.00	8,011.70	7,904.66	145.95	32.15	90.65	1,069.51	348.83	8,772.93	8,668.78	104.15	84.235		
17,900.00	7,870.00	8,011.43	7,904.40	147.50	32.15	90.64	1,069.51	348.83	8,862.83	8,758.66	104.18	85.076		
18,000.00	7,870.00	8,011.17	7,904.13	149.06	32.15	90.64	1,069.51	348.82	8,952.96	8,848.75	104.20	85.920		
18,100.00	7,870.00	8,010.91	7,903.88	150.63	32.15	90.64	1,069.51	348.82	9,043.28	8,939.06	104.23	86.766		
18,200.00	7,870.00	8,010.65	7,903.62	152.20	32.14	90.63	1,069.50	348.81	9,133.81	9,029.56	104.25	87.614		
18,300.00	7,870.00	8,010.40	7,903.36	153.77	32.14	90.63	1,069.50	348.81	9,224.54	9,120.27	104.27	88.464		
18,400.00	7,870.00	8,010.14	7,903.11	155.35	32.14	90.62	1,069.50	348.80	9,315.46	9,211.16	104.30	89.317		
18,500.00	7,870.00	8,009.89	7,902.85	156.93	32.14	90.62	1,069.50	348.80	9,406.56	9,302.24	104.32	90.171		
18,600.00	7,870.00	8,009.64	7,902.60	158.52	32.14	90.62	1,069.50	348.79	9,497.84	9,393.49	104.34	91.027		
18,700.00	7,870.00	8,009.39	7,902.35	160.11	32.14	90.61	1,069.50	348.79	9,589.29	9,484.93	104.36	91.885		
18,800.00	7,870.00	8,009.14	7,902.11	161.71	32.14	90.61	1,069.50	348.78	9,680.91	9,576.53	104.38	92.744		
18,900.00	7,870.00	8,008.90	7,901.86	163.31	32.14	90.61	1,069.50	348.78	9,772.70	9,668.29	104.40	93.605		
19,000.00	7,870.00	8,008.65	7,901.61	164.91	32.14	90.60	1,069.50	348.77	9,864.64	9,760.22	104.42	94.467		
19,100.00	7,870.00	8,008.41	7,901.37	166.52	32.14	90.60	1,069.50	348.77	9,956.74	9,852.30	104.44	95.331		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-25.36	218.57	-103.60	242.05				
100.00	100.00	89.97	89.97	0.13	0.15	-25.34	218.78	-103.61	242.08	241.79	0.28	861.809	
200.00	200.00	189.37	189.37	0.49	0.41	-25.29	219.41	-103.68	242.68	241.77	0.90	269.245	
300.00	300.00	289.06	289.05	0.85	0.77	-25.26	220.12	-103.86	243.39	241.78	1.62	150.528	
400.00	400.00	393.05	393.04	1.21	1.13	-25.19	220.48	-103.70	243.66	241.32	2.34	104.215	
500.00	500.00	502.11	502.06	1.57	1.50	-25.00	218.24	-101.76	241.06	237.99	3.07	78.551	
600.00	600.00	611.72	611.39	1.93	1.89	-24.50	212.53	-96.85	234.44	230.64	3.81	61.580	
700.00	699.98	720.97	719.90	2.28	2.29	-87.98	203.36	-88.21	223.47	218.93	4.54	49.188	
800.00	799.84	828.75	826.24	2.64	2.73	-87.92	191.54	-75.31	208.39	203.12	5.27	39.506	
900.00	899.45	934.00	929.18	3.00	3.20	-88.31	177.02	-58.91	189.11	183.10	6.01	31.473	
1,000.00	998.70	1,032.84	1,025.30	3.37	3.67	-89.46	162.09	-41.32	167.65	160.90	6.75	24.839	
1,100.00	1,097.47	1,132.91	1,122.30	3.76	4.17	-92.24	145.93	-22.84	145.04	137.54	7.49	19.352	
1,200.00	1,195.62	1,227.26	1,213.87	4.18	4.66	-97.30	131.01	-5.72	123.54	115.29	8.26	14.962	
1,300.00	1,293.06	1,323.06	1,307.21	4.63	5.15	-106.33	116.52	10.32	105.52	96.50	9.02	11.704	
1,400.00	1,389.64	1,419.21	1,401.01	5.11	5.63	-120.35	101.96	25.61	93.26	83.45	9.81	9.511	
1,480.45	1,466.66	1,496.97	1,476.77	5.53	6.03	-134.75	89.86	38.30	89.75	79.23	10.52	8.529 CC, ES	
1,500.00	1,485.27	1,515.79	1,495.08	5.63	6.13	-138.46	86.85	41.46	89.98	79.26	10.71	8.398	
1,600.00	1,579.82	1,611.00	1,587.48	6.20	6.64	-157.01	70.94	57.96	98.65	86.88	11.77	8.381 SF	
1,700.00	1,673.17	1,704.57	1,678.32	6.83	7.14	-171.50	55.56	74.34	119.45	106.61	12.84	9.305	
1,800.00	1,765.21	1,796.94	1,768.16	7.51	7.63	178.80	41.04	90.13	149.19	135.35	13.84	10.779	
1,900.00	1,855.84	1,887.78	1,856.68	8.24	8.10	172.60	27.12	105.06	185.26	170.47	14.80	12.520	
2,000.00	1,944.94	1,977.56	1,944.53	9.05	8.56	168.92	14.50	118.52	226.18	210.46	15.71	14.394	
2,100.00	2,032.39	2,067.17	2,032.57	9.91	8.99	166.82	3.41	131.02	270.48	253.88	16.60	16.291	
2,200.00	2,118.11	2,148.61	2,112.77	10.85	9.37	165.64	-6.54	141.16	318.90	301.49	17.41	18.315	
2,300.00	2,201.97	2,232.48	2,195.23	11.85	9.77	164.63	-17.95	151.26	371.31	353.05	18.26	20.333	
2,400.00	2,283.88	2,315.40	2,276.37	12.93	10.19	163.55	-30.90	162.38	426.77	407.62	19.15	22.288	
2,429.47	2,307.63	2,339.65	2,300.02	13.26	10.31	163.23	-35.00	165.88	443.66	424.24	19.42	22.850	
2,500.00	2,364.26	2,400.01	2,358.84	14.06	10.63	162.76	-45.19	174.85	484.18	464.09	20.09	24.106	
2,600.00	2,444.56	2,487.98	2,444.57	15.22	11.09	162.22	-59.49	188.38	541.00	519.93	21.06	25.683	
2,700.00	2,524.85	2,577.32	2,531.69	16.39	11.56	161.81	-73.11	202.75	596.85	574.78	22.07	27.048	
2,800.00	2,605.14	2,667.56	2,619.59	17.57	12.03	161.45	-86.47	218.22	651.82	628.73	23.09	28.230	
2,900.00	2,685.43	2,755.58	2,705.40	18.76	12.49	161.19	-98.57	233.59	705.99	681.90	24.09	29.305	
3,000.00	2,765.73	2,834.37	2,782.24	19.96	12.91	161.01	-109.27	247.35	760.11	735.11	25.00	30.402	
3,100.00	2,846.02	2,905.23	2,851.38	21.16	13.28	160.87	-119.59	258.93	815.46	789.64	25.83	31.571	
3,200.00	2,926.31	2,987.13	2,931.28	22.37	13.70	160.71	-132.04	271.95	871.45	844.67	26.78	32.538	
3,300.00	3,006.60	3,071.04	3,013.03	23.59	14.15	160.53	-145.12	285.58	927.45	899.68	27.77	33.396	
3,400.00	3,086.90	3,147.54	3,087.53	24.81	14.55	160.38	-157.26	297.99	983.62	954.94	28.68	34.296	
3,500.00	3,167.19	3,238.38	3,176.18	26.03	15.03	160.27	-171.25	312.04	1,040.02	1,010.27	29.74	34.966	
3,600.00	3,247.48	3,323.94	3,259.81	27.25	15.47	160.22	-183.36	325.50	1,095.54	1,064.80	30.74	35.641	
3,700.00	3,327.77	3,403.30	3,337.40	28.48	15.87	160.18	-194.71	337.73	1,151.34	1,119.67	31.67	36.360	
3,800.00	3,408.07	3,485.04	3,417.25	29.71	16.29	160.13	-206.70	350.41	1,207.28	1,174.66	32.62	37.006	
3,900.00	3,488.36	3,567.57	3,497.92	30.94	16.72	160.09	-218.69	363.05	1,263.27	1,229.68	33.59	37.606	
4,000.00	3,568.65	3,650.52	3,579.03	32.17	17.14	160.06	-230.66	375.66	1,319.27	1,284.71	34.56	38.170	
4,100.00	3,648.95	3,735.45	3,662.23	33.41	17.57	160.08	-242.26	388.07	1,375.20	1,339.66	35.54	38.693	
4,200.00	3,729.24	3,824.16	3,749.18	34.64	18.01	160.10	-254.09	401.10	1,430.91	1,394.35	36.56	39.139	
4,300.00	3,809.53	3,914.98	3,837.87	35.88	18.48	160.06	-267.02	415.75	1,486.23	1,448.60	37.63	39.492	
4,400.00	3,889.82	4,007.01	3,927.72	37.12	18.96	160.01	-279.83	431.01	1,541.11	1,502.39	38.72	39.801	
4,500.00	3,970.12	4,096.45	4,015.28	38.36	19.41	160.02	-291.10	445.32	1,595.58	1,555.82	39.76	40.131	
4,600.00	4,050.41	4,161.74	4,079.03	39.60	19.75	159.99	-300.02	456.24	1,650.26	1,609.70	40.56	40.690	
4,700.00	4,130.70	4,222.07	4,137.65	40.84	20.07	159.91	-309.89	466.54	1,706.17	1,664.86	41.31	41.301	
4,800.00	4,210.99	4,299.39	4,212.86	42.08	20.49	159.83	-322.66	479.10	1,762.71	1,720.44	42.27	41.704	
4,900.00	4,291.29	4,356.86	4,269.05	43.32	20.78	159.81	-331.57	487.29	1,819.90	1,776.95	42.95	42.374	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,425.91	4,336.92	44.57	21.11	159.88	-341.51	495.13	1,878.17	1,834.44	43.73	42.951		
5,100.00	4,451.87	4,519.04	4,428.93	45.81	21.52	160.05	-352.64	504.23	1,936.07	1,891.35	44.72	43.292		
5,200.00	4,532.16	4,592.21	4,501.50	47.05	21.82	160.25	-359.98	509.98	1,994.10	1,948.64	45.46	43.864		
5,300.00	4,612.46	4,677.82	4,586.60	48.30	22.16	160.53	-367.43	515.60	2,052.20	2,005.91	46.29	44.334		
5,400.00	4,692.75	4,762.25	4,670.67	49.54	22.47	160.83	-373.63	520.33	2,110.18	2,063.10	47.08	44.824		
5,500.00	4,773.04	4,839.66	4,747.87	50.79	22.73	161.14	-378.18	523.68	2,168.18	2,120.41	47.77	45.391		
5,600.00	4,853.34	4,909.10	4,817.21	52.03	22.96	161.45	-381.43	525.69	2,226.48	2,178.11	48.36	46.036		
5,700.00	4,933.63	4,972.82	4,880.84	53.28	23.16	161.72	-384.49	527.05	2,285.34	2,236.43	48.90	46.732		
5,800.00	5,013.92	5,030.46	4,938.40	54.53	23.34	161.97	-387.38	527.74	2,344.94	2,295.56	49.38	47.486		
5,900.00	5,094.21	5,090.29	4,998.14	55.77	23.53	162.23	-390.61	527.92	2,405.31	2,355.43	49.87	48.227		
6,000.00	5,174.51	5,248.82	5,156.47	57.02	24.01	162.88	-398.08	528.51	2,465.97	2,414.78	51.19	48.171		
6,100.00	5,254.80	5,323.47	5,231.12	58.27	24.22	163.23	-398.94	528.77	2,524.26	2,472.49	51.77	48.756		
6,200.00	5,335.09	5,401.81	5,309.46	59.52	24.42	163.59	-399.28	528.42	2,582.74	2,530.39	52.36	49.328		
6,300.00	5,415.38	5,477.15	5,384.79	60.76	24.60	163.94	-399.32	527.76	2,641.37	2,588.46	52.91	49.919		
6,400.00	5,495.68	5,553.27	5,460.91	62.01	24.79	164.28	-399.48	526.99	2,700.23	2,646.76	53.47	50.495		
6,500.00	5,575.97	5,633.32	5,540.96	63.26	24.99	164.63	-399.53	526.05	2,759.19	2,705.13	54.07	51.033		
6,600.00	5,656.26	5,715.59	5,623.22	64.51	25.20	164.97	-399.58	525.14	2,818.17	2,763.49	54.68	51.542		
6,700.00	5,736.55	5,800.25	5,707.87	65.76	25.41	165.30	-399.61	524.34	2,877.10	2,821.79	55.31	52.017		
6,800.00	5,816.85	5,881.58	5,789.20	67.01	25.62	165.61	-399.58	523.63	2,936.00	2,880.07	55.92	52.500		
6,900.00	5,897.14	5,963.03	5,870.64	68.26	25.82	165.91	-399.43	522.90	2,994.90	2,938.36	56.54	52.971		
7,000.00	5,977.43	6,039.44	5,947.05	69.50	26.02	166.18	-399.19	522.11	3,053.86	2,996.75	57.12	53.467		
7,100.00	6,057.72	6,116.45	6,024.06	70.75	26.21	166.45	-398.97	521.20	3,113.00	3,055.29	57.70	53.949		
7,200.00	6,138.02	6,198.56	6,106.16	72.00	26.43	166.73	-398.62	520.15	3,172.17	3,113.84	58.33	54.387		
7,300.00	6,218.31	6,284.98	6,192.57	73.25	26.65	167.01	-398.09	519.08	3,231.27	3,172.29	58.98	54.783		
7,400.00	6,298.60	6,373.69	6,281.27	74.50	26.88	167.29	-397.51	518.22	3,290.22	3,230.55	59.66	55.148		
7,500.00	6,378.90	6,445.66	6,353.24	75.75	27.07	167.50	-397.07	517.53	3,349.22	3,289.00	60.22	55.615		
7,600.00	6,459.19	6,524.59	6,432.16	77.00	27.28	167.73	-396.65	516.71	3,408.35	3,347.51	60.84	56.025		
7,700.00	6,539.48	6,617.63	6,525.20	78.25	27.53	167.99	-396.26	515.98	3,467.41	3,405.85	61.56	56.325		
7,800.00	6,619.77	6,700.25	6,607.82	79.50	27.75	168.20	-395.96	515.70	3,526.23	3,464.02	62.21	56.679		
7,900.00	6,700.07	6,779.69	6,687.26	80.75	27.97	168.40	-395.83	515.49	3,585.12	3,522.27	62.85	57.039		
8,000.00	6,780.36	6,860.67	6,768.24	82.00	28.21	168.59	-395.96	515.49	3,644.03	3,580.51	63.52	57.369		
8,100.00	6,860.65	6,941.54	6,849.10	83.25	28.46	168.76	-396.53	515.82	3,702.95	3,638.75	64.20	57.679		
8,200.00	6,940.94	7,025.08	6,932.64	84.50	28.72	168.92	-397.33	516.36	3,761.84	3,696.93	64.91	57.955		
8,300.00	7,021.24	7,102.20	7,009.76	85.76	28.96	169.06	-398.28	516.99	3,820.76	3,755.19	65.57	58.266		
8,400.00	7,101.53	7,172.95	7,080.49	87.01	29.18	169.19	-399.39	517.61	3,879.81	3,813.62	66.19	58.615		
8,500.00	7,181.82	7,251.05	7,158.57	88.26	29.43	169.32	-400.75	518.20	3,939.05	3,872.18	66.87	58.906		
8,605.60	7,266.61	7,340.40	7,247.91	89.58	29.72	169.46	-402.30	518.94	4,001.55	3,933.91	67.65	59.154		
8,650.00	7,302.60	7,378.23	7,285.73	90.13	29.84	161.13	-402.94	519.28	4,027.05	3,959.08	67.97	59.246		
8,700.00	7,343.78	7,424.55	7,332.05	90.72	29.99	151.65	-403.70	519.73	4,053.78	3,985.42	68.36	59.300		
8,750.00	7,385.32	7,472.68	7,380.17	91.28	30.14	142.24	-404.41	520.22	4,078.21	4,009.46	68.75	59.315		
8,800.00	7,426.92	7,543.48	7,450.95	91.81	30.37	133.28	-405.23	521.13	4,100.11	4,030.79	69.32	59.146		
8,850.00	7,468.27	8,850.00	7,487.00	92.29	34.59	124.70	-405.49	521.74	4,119.26	4,045.55	73.71	55.886		
8,900.00	7,509.04	7,614.20	7,521.67	92.72	30.60	116.90	-405.69	522.23	4,135.86	4,066.01	69.84	59.215		
8,950.00	7,548.93	7,636.70	7,544.16	93.10	30.67	109.92	-405.83	522.41	4,149.98	4,080.00	69.98	59.303		
9,000.00	7,587.63	7,672.00	7,579.46	93.43	30.78	104.02	-406.06	522.46	4,161.58	4,091.37	70.20	59.280		
9,050.00	7,624.85	7,680.91	7,588.38	93.71	30.80	98.83	-406.11	522.43	4,170.47	4,100.28	70.19	59.413		
9,100.00	7,660.30	7,705.44	7,612.90	93.93	30.87	94.67	-406.29	522.31	4,176.74	4,106.44	70.30	59.415		
9,150.00	7,693.72	7,728.52	7,635.98	94.10	30.94	91.30	-406.46	522.13	4,180.32	4,109.94	70.38	59.400		
9,200.00	7,724.85	7,750.00	7,657.46	94.23	31.01	88.65	-406.63	521.91	4,181.23	4,110.80	70.43	59.367		
9,250.00	7,753.45	7,772.66	7,680.11	94.30	31.07	86.67	-406.82	521.63	4,179.50	4,109.02	70.49	59.296		
9,300.00	7,779.31	7,804.46	7,711.91	94.34	31.17	85.40	-407.04	521.22	4,175.12	4,104.51	70.61	59.128		
9,350.00	7,802.23	7,832.52	7,739.97	94.33	31.25	84.64	-407.18	520.87	4,168.15	4,097.44	70.71	58.949		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,856.65	7,764.10	94.28	31.32	84.36	-407.26	520.57	4,158.68	4,087.91	70.77	58.760		
9,450.00	7,838.57	7,877.91	7,785.36	94.20	31.38	84.53	-407.28	520.31	4,146.84	4,076.01	70.82	58.553		
9,500.00	7,851.72	7,894.52	7,801.96	94.10	31.42	85.10	-407.23	520.09	4,132.72	4,061.88	70.84	58.336		
9,550.00	7,861.37	7,906.32	7,813.77	93.96	31.46	86.05	-407.16	519.93	4,116.47	4,045.63	70.84	58.110		
9,600.00	7,867.46	7,913.42	7,820.86	93.81	31.48	87.37	-407.10	519.83	4,098.21	4,027.40	70.82	57.871		
9,650.00	7,869.94	7,915.93	7,823.37	93.64	31.49	89.07	-407.08	519.79	4,078.08	4,007.30	70.78	57.619		
9,659.14	7,870.00	7,915.90	7,823.34	93.60	31.49	89.41	-407.08	519.79	4,074.21	4,003.44	70.77	57.570		
9,700.00	7,870.00	7,915.46	7,822.90	93.46	31.48	89.41	-407.08	519.80	4,056.94	3,986.20	70.73	57.357		
9,800.00	7,870.00	7,914.41	7,821.85	93.11	31.48	89.39	-407.09	519.82	4,016.11	3,945.43	70.67	56.826		
9,900.00	7,870.00	7,913.40	7,820.85	92.77	31.48	89.38	-407.10	519.83	3,977.37	3,906.71	70.66	56.286		
10,000.00	7,870.00	7,912.45	7,819.89	92.46	31.48	89.36	-407.11	519.84	3,940.79	3,870.09	70.70	55.737		
10,100.00	7,870.00	7,911.53	7,818.98	92.16	31.47	89.35	-407.12	519.86	3,906.43	3,835.64	70.79	55.180		
10,200.00	7,870.00	7,910.66	7,818.10	91.87	31.47	89.33	-407.12	519.87	3,874.35	3,803.41	70.94	54.614		
10,300.00	7,870.00	7,909.82	7,817.26	91.60	31.47	89.32	-407.13	519.88	3,844.60	3,773.46	71.14	54.042		
10,400.00	7,870.00	7,909.02	7,816.46	91.34	31.47	89.31	-407.14	519.89	3,817.24	3,745.84	71.40	53.464		
10,500.00	7,870.00	7,908.25	7,815.69	91.11	31.46	89.30	-407.14	519.90	3,792.32	3,720.61	71.71	52.884		
10,600.00	7,870.00	7,907.51	7,814.95	90.88	31.46	89.28	-407.15	519.91	3,769.89	3,697.81	72.08	52.304		
10,700.00	7,870.00	7,906.79	7,814.24	90.67	31.46	89.27	-407.15	519.92	3,749.99	3,677.49	72.50	51.726		
10,800.00	7,870.00	7,906.11	7,813.56	90.48	31.46	89.26	-407.16	519.93	3,732.67	3,659.70	72.97	51.154		
10,900.00	7,870.00	7,905.45	7,812.90	90.31	31.46	89.25	-407.16	519.94	3,717.95	3,644.46	73.49	50.592		
11,000.00	7,870.00	7,904.82	7,812.26	90.15	31.45	89.24	-407.17	519.95	3,705.88	3,631.82	74.06	50.042		
11,100.00	7,870.00	7,904.21	7,811.65	90.00	31.45	89.23	-407.17	519.96	3,696.47	3,621.80	74.66	49.508		
11,200.00	7,870.00	7,903.62	7,811.06	89.88	31.45	89.22	-407.18	519.97	3,689.75	3,614.44	75.31	48.994		
11,300.00	7,870.00	7,903.05	7,810.49	89.77	31.45	89.21	-407.18	519.98	3,685.73	3,609.74	75.99	48.502		
11,398.21	7,870.00	7,902.51	7,809.95	89.68	31.45	89.21	-407.18	519.98	3,684.42	3,607.73	76.69	48.044		
11,400.00	7,870.00	7,902.50	7,809.94	89.68	31.45	89.21	-407.18	519.98	3,684.42	3,607.72	76.70	48.036		
11,500.00	7,870.00	7,901.97	7,809.41	89.60	31.45	89.20	-407.19	519.99	3,685.83	3,608.39	77.44	47.598		
11,600.00	7,870.00	7,901.46	7,808.90	89.55	31.44	89.19	-407.19	520.00	3,689.94	3,611.75	78.19	47.190		
11,700.00	7,870.00	7,900.96	7,808.40	89.52	31.44	89.18	-407.19	520.01	3,696.76	3,617.79	78.97	46.815		
11,800.00	7,870.00	7,900.48	7,807.92	89.50	31.44	89.17	-407.19	520.01	3,706.26	3,626.51	79.75	46.474		
11,900.00	7,870.00	7,900.01	7,807.46	89.51	31.44	89.17	-407.20	520.02	3,718.43	3,637.89	80.54	46.168		
12,000.00	7,870.00	7,899.56	7,807.01	89.54	31.44	89.16	-407.20	520.02	3,733.24	3,651.91	81.34	45.899		
12,100.00	7,870.00	7,899.13	7,806.57	89.59	31.44	89.15	-407.20	520.03	3,750.66	3,668.53	82.13	45.667		
12,200.00	7,870.00	7,898.70	7,806.15	89.66	31.44	89.15	-407.20	520.04	3,770.65	3,687.73	82.92	45.473		
12,300.00	7,870.00	7,898.29	7,805.74	89.77	31.44	89.14	-407.21	520.04	3,793.17	3,709.47	83.70	45.316		
12,400.00	7,870.00	7,897.89	7,805.34	89.89	31.43	89.13	-407.21	520.05	3,818.18	3,733.70	84.48	45.197		
12,500.00	7,870.00	7,897.50	7,804.95	90.05	31.43	89.13	-407.21	520.05	3,845.63	3,760.39	85.24	45.116		
12,600.00	7,870.00	7,897.13	7,804.57	90.24	31.43	89.12	-407.21	520.06	3,875.46	3,789.48	85.99	45.071		
12,700.00	7,870.00	7,896.76	7,804.21	90.46	31.43	89.12	-407.22	520.06	3,907.63	3,820.91	86.72	45.063		
12,800.00	7,870.00	7,896.41	7,803.85	90.71	31.43	89.11	-407.22	520.07	3,942.07	3,854.64	87.43	45.090		
12,900.00	7,870.00	7,896.06	7,803.50	90.99	31.43	89.11	-407.22	520.07	3,978.73	3,890.61	88.12	45.152		
13,000.00	7,870.00	7,895.72	7,803.17	91.32	31.43	89.10	-407.22	520.08	4,017.54	3,928.75	88.79	45.247		
13,100.00	7,870.00	7,895.39	7,802.84	91.68	31.43	89.10	-407.22	520.08	4,058.44	3,969.00	89.44	45.376		
13,200.00	7,870.00	7,895.07	7,802.52	92.08	31.43	89.09	-407.22	520.09	4,101.38	4,011.31	90.07	45.536		
13,300.00	7,870.00	7,894.76	7,802.21	92.52	31.43	89.09	-407.23	520.09	4,146.28	4,055.61	90.67	45.728		
13,400.00	7,870.00	7,894.46	7,801.91	93.00	31.42	89.08	-407.23	520.09	4,193.09	4,101.83	91.26	45.949		
13,500.00	7,870.00	7,894.17	7,801.61	93.53	31.42	89.08	-407.23	520.10	4,241.74	4,149.92	91.82	46.198		
13,600.00	7,870.00	7,893.88	7,801.32	94.10	31.42	89.07	-407.23	520.10	4,292.17	4,199.81	92.35	46.475		
13,700.00	7,870.00	7,893.60	7,801.04	94.72	31.42	89.07	-407.23	520.11	4,344.31	4,251.44	92.87	46.779		
13,800.00	7,870.00	7,893.32	7,800.77	95.38	31.42	89.06	-407.23	520.11	4,398.11	4,304.75	93.36	47.108		
13,900.00	7,870.00	7,893.05	7,800.50	96.09	31.42	89.06	-407.23	520.11	4,453.51	4,359.68	93.83	47.462		
14,000.00	7,870.00	7,892.79	7,800.24	96.84	31.42	89.06	-407.23	520.12	4,510.44	4,416.16	94.28	47.839		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,892.54	7,799.98	97.64	31.42	89.05	-407.24	520.12	4,568.86	4,474.14	94.71	48.239		
14,200.00	7,870.00	7,892.29	7,799.73	98.48	31.42	89.05	-407.24	520.12	4,628.69	4,533.57	95.12	48.660		
14,300.00	7,870.00	7,892.04	7,799.49	99.37	31.42	89.04	-407.24	520.13	4,689.90	4,594.38	95.51	49.101		
14,400.00	7,870.00	7,891.81	7,799.25	100.30	31.42	89.04	-407.24	520.13	4,752.42	4,656.53	95.89	49.563		
14,500.00	7,870.00	7,891.57	7,799.02	101.26	31.42	89.04	-407.24	520.13	4,816.21	4,719.96	96.24	50.043		
14,600.00	7,870.00	7,891.35	7,798.79	102.27	31.42	89.03	-407.24	520.14	4,881.21	4,784.63	96.58	50.541		
14,700.00	7,870.00	7,891.12	7,798.57	103.31	31.42	89.03	-407.24	520.14	4,947.38	4,850.48	96.90	51.057		
14,800.00	7,870.00	7,890.91	7,798.35	104.38	31.41	89.03	-407.24	520.14	5,014.67	4,917.46	97.20	51.589		
14,900.00	7,870.00	7,890.69	7,798.14	105.49	31.41	89.02	-407.24	520.14	5,083.03	4,985.54	97.49	52.137		
15,000.00	7,870.00	7,890.48	7,797.93	106.63	31.41	89.02	-407.24	520.15	5,152.43	5,054.66	97.77	52.700		
15,100.00	7,870.00	7,890.28	7,797.73	107.80	31.41	89.02	-407.24	520.15	5,222.83	5,124.79	98.03	53.277		
15,200.00	7,870.00	7,890.08	7,797.53	109.00	31.41	89.01	-407.25	520.15	5,294.17	5,195.89	98.28	53.868		
15,300.00	7,870.00	7,889.88	7,797.33	110.22	31.41	89.01	-407.25	520.16	5,366.43	5,267.92	98.52	54.472		
15,400.00	7,870.00	7,889.69	7,797.14	111.47	31.41	89.01	-407.25	520.16	5,439.57	5,340.83	98.74	55.089		
15,500.00	7,870.00	7,889.51	7,796.95	112.74	31.41	89.00	-407.25	520.16	5,513.56	5,414.60	98.96	55.718		
15,600.00	7,870.00	7,889.32	7,796.77	114.03	31.41	89.00	-407.25	520.16	5,588.35	5,489.19	99.16	56.358		
15,700.00	7,870.00	7,889.14	7,796.59	115.34	31.41	89.00	-407.25	520.17	5,663.92	5,564.57	99.35	57.009		
15,800.00	7,870.00	7,888.96	7,796.41	116.68	31.41	89.00	-407.25	520.17	5,740.24	5,640.70	99.53	57.671		
15,900.00	7,870.00	7,888.79	7,796.24	118.02	31.41	88.99	-407.25	520.17	5,817.27	5,717.56	99.71	58.342		
16,000.00	7,870.00	7,888.62	7,796.07	119.39	31.41	88.99	-407.25	520.17	5,895.00	5,795.12	99.87	59.024		
16,100.00	7,870.00	7,888.45	7,795.90	120.77	31.41	88.99	-407.25	520.17	5,973.39	5,873.35	100.03	59.714		
16,200.00	7,870.00	7,888.29	7,795.73	122.17	31.41	88.99	-407.25	520.18	6,052.41	5,952.23	100.18	60.414		
16,300.00	7,870.00	7,888.13	7,795.57	123.58	31.41	88.98	-407.25	520.18	6,132.05	6,031.72	100.33	61.121		
16,400.00	7,870.00	7,887.97	7,795.42	125.00	31.41	88.98	-407.25	520.18	6,212.28	6,111.82	100.46	61.837		
16,500.00	7,870.00	7,887.81	7,795.26	126.43	31.41	88.98	-407.25	520.18	6,293.07	6,192.48	100.59	62.560		
16,600.00	7,870.00	7,887.66	7,795.11	127.88	31.41	88.98	-407.25	520.18	6,374.41	6,273.69	100.72	63.291		
16,700.00	7,870.00	7,887.51	7,794.96	129.34	31.41	88.97	-407.25	520.19	6,456.27	6,355.44	100.83	64.029		
16,800.00	7,870.00	7,887.37	7,794.81	130.81	31.40	88.97	-407.25	520.19	6,538.64	6,437.69	100.95	64.774		
16,900.00	7,870.00	7,887.22	7,794.67	132.28	31.40	88.97	-407.26	520.19	6,621.49	6,520.43	101.05	65.525		
17,000.00	7,870.00	7,887.08	7,794.53	133.77	31.40	88.97	-407.26	520.19	6,704.81	6,603.65	101.16	66.282		
17,100.00	7,870.00	7,886.94	7,794.39	135.27	31.40	88.96	-407.26	520.19	6,788.58	6,687.32	101.25	67.045		
17,200.00	7,870.00	7,886.80	7,794.25	136.77	31.40	88.96	-407.26	520.20	6,872.78	6,771.43	101.35	67.813		
17,300.00	7,870.00	7,886.67	7,794.12	138.28	31.40	88.96	-407.26	520.20	6,957.40	6,855.97	101.44	68.588		
17,400.00	7,870.00	7,886.54	7,793.98	139.80	31.40	88.96	-407.26	520.20	7,042.43	6,940.91	101.52	69.367		
17,500.00	7,870.00	7,886.41	7,793.85	141.33	31.40	88.96	-407.26	520.20	7,127.84	7,026.24	101.61	70.151		
17,600.00	7,870.00	7,886.28	7,793.73	142.86	31.40	88.95	-407.26	520.20	7,213.63	7,111.95	101.69	70.940		
17,700.00	7,870.00	7,886.15	7,793.60	144.40	31.40	88.95	-407.26	520.20	7,299.78	7,198.02	101.76	71.734		
17,800.00	7,870.00	7,886.03	7,793.48	145.95	31.40	88.95	-407.26	520.21	7,386.28	7,284.45	101.84	72.531		
17,900.00	7,870.00	7,885.91	7,793.36	147.50	31.40	88.95	-407.26	520.21	7,473.12	7,371.21	101.91	73.334		
18,000.00	7,870.00	7,885.79	7,793.24	149.06	31.40	88.95	-407.26	520.21	7,560.28	7,458.31	101.97	74.140		
18,100.00	7,870.00	7,885.67	7,793.12	150.63	31.40	88.94	-407.26	520.21	7,647.76	7,545.72	102.04	74.949		
18,200.00	7,870.00	7,885.56	7,793.00	152.20	31.40	88.94	-407.26	520.21	7,735.54	7,633.44	102.10	75.763		
18,300.00	7,870.00	7,885.44	7,792.89	153.77	31.40	88.94	-407.26	520.21	7,823.61	7,721.45	102.16	76.580		
18,400.00	7,870.00	7,885.33	7,792.78	155.35	31.40	88.94	-407.26	520.22	7,911.97	7,809.75	102.22	77.400		
18,500.00	7,870.00	7,885.22	7,792.67	156.93	31.40	88.94	-407.26	520.22	8,000.60	7,898.32	102.28	78.223		
18,600.00	7,870.00	7,885.11	7,792.56	158.52	31.40	88.94	-407.26	520.22	8,089.50	7,987.16	102.33	79.050		
18,700.00	7,870.00	7,885.00	7,792.45	160.11	31.40	88.93	-407.26	520.22	8,178.65	8,076.26	102.39	79.879		
18,800.00	7,870.00	7,884.90	7,792.34	161.71	31.40	88.93	-407.26	520.22	8,268.05	8,165.61	102.44	80.712		
18,900.00	7,870.00	7,884.79	7,792.24	163.31	31.40	88.93	-407.26	520.22	8,357.69	8,255.20	102.49	81.546		
19,000.00	7,870.00	7,884.69	7,792.14	164.91	31.40	88.93	-407.26	520.22	8,447.56	8,345.02	102.54	82.384		
19,100.00	7,870.00	7,859.00	7,766.45	166.52	31.32	88.53	-407.27	520.55	8,537.76	8,435.26	102.50	83.297		
19,200.00	7,870.00	7,859.00	7,766.45	168.13	31.32	88.53	-407.27	520.55	8,628.08	8,525.53	102.55	84.138		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,859.00	7,766.45	169.75	31.32	88.53	-407.27	520.55	8,718.61	8,616.01	102.59	84.982	
19,383.51	7,870.00	7,859.00	7,766.45	171.10	31.32	88.53	-407.27	520.55	8,794.36	8,691.73	102.63	85.689	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-33.67	218.57	-145.60	262.78					
100.00	100.00	91.59	91.59	0.13	0.15	-33.78	218.20	-145.98	262.53	262.24	0.28	924.488		
160.08	160.08	152.05	152.04	0.35	0.25	-33.98	217.54	-146.64	262.35	261.75	0.60	438.712 CC		
200.00	200.00	188.74	188.73	0.49	0.40	-34.03	217.57	-146.93	262.54	261.65	0.90	293.147 ES		
300.00	300.00	280.27	280.22	0.85	0.73	-33.80	219.87	-147.18	264.80	263.22	1.58	167.530		
400.00	400.00	371.37	371.10	1.21	1.06	-33.08	226.18	-147.32	270.66	268.39	2.27	119.451		
500.00	500.00	462.94	462.15	1.57	1.40	-31.95	235.86	-147.09	279.46	276.50	2.96	94.496		
600.00	600.00	552.78	551.14	1.93	1.75	-30.71	248.17	-147.44	291.40	287.76	3.65	79.919		
700.00	699.98	640.98	637.98	2.28	2.13	-93.11	263.57	-147.99	306.98	302.66	4.33	70.960		
800.00	799.84	728.18	723.21	2.64	2.53	-92.07	281.95	-148.99	326.26	321.25	5.00	65.216		
900.00	899.45	813.79	806.17	3.00	2.96	-91.35	303.03	-150.29	349.00	343.32	5.68	61.423		
1,000.00	998.70	900.59	889.39	3.37	3.42	-90.86	327.63	-151.79	375.17	368.79	6.39	58.752		
1,100.00	1,097.47	996.06	980.58	3.76	3.96	-90.81	355.80	-153.80	402.66	395.50	7.16	56.239		
1,200.00	1,195.62	1,090.77	1,071.13	4.18	4.50	-91.16	383.53	-155.69	430.00	422.02	7.98	53.877		
1,300.00	1,293.06	1,180.78	1,156.78	4.63	5.03	-91.70	411.14	-157.58	458.81	450.00	8.81	52.091		
1,400.00	1,389.64	1,276.81	1,248.12	5.11	5.61	-92.60	440.67	-159.82	488.16	478.43	9.73	50.188		
1,500.00	1,485.27	1,369.87	1,336.66	5.63	6.17	-93.66	469.27	-161.90	517.94	507.26	10.68	48.502		
1,600.00	1,579.82	1,459.10	1,421.28	6.20	6.72	-94.74	497.48	-163.71	549.02	537.36	11.66	47.076		
1,700.00	1,673.17	1,547.77	1,505.06	6.83	7.27	-95.85	526.50	-165.21	581.61	568.90	12.71	45.775		
1,800.00	1,765.21	1,635.43	1,587.65	7.51	7.84	-97.02	555.82	-166.92	615.87	602.06	13.81	44.608		
1,900.00	1,855.84	1,725.14	1,672.15	8.24	8.41	-98.35	585.88	-169.16	651.61	636.62	14.99	43.476		
2,000.00	1,944.94	1,815.21	1,757.13	9.05	8.99	-99.81	615.59	-171.97	688.69	672.46	16.23	42.428		
2,100.00	2,032.39	1,904.40	1,841.48	9.91	9.56	-101.34	644.38	-175.30	727.25	709.73	17.52	41.503		
2,200.00	2,118.11	1,997.85	1,930.24	10.85	10.14	-103.09	673.36	-179.25	767.10	748.20	18.90	40.587		
2,300.00	2,201.97	2,081.53	2,010.00	11.85	10.65	-104.63	698.33	-183.30	808.67	788.45	20.22	39.990		
2,400.00	2,283.88	2,175.61	2,099.88	12.93	11.21	-106.47	725.75	-187.72	851.99	830.31	21.68	39.299		
2,429.47	2,307.63	2,203.35	2,126.43	13.26	11.37	-107.00	733.72	-188.81	864.98	842.86	22.12	39.111		
2,500.00	2,364.26	2,269.97	2,190.28	14.06	11.77	-108.88	752.61	-191.06	896.27	873.11	23.16	38.698		
2,600.00	2,444.56	2,360.23	2,276.97	15.22	12.29	-111.24	777.63	-193.55	941.00	916.41	24.59	38.275		
2,700.00	2,524.85	2,456.44	2,369.62	16.39	12.84	-113.55	803.47	-195.57	986.01	959.97	26.04	37.862		
2,800.00	2,605.14	2,539.66	2,449.87	17.57	13.31	-115.40	825.45	-196.88	1,031.46	1,004.10	27.36	37.704		
2,900.00	2,685.43	2,624.44	2,531.62	18.76	13.78	-117.13	847.88	-198.19	1,077.78	1,049.12	28.67	37.597		
3,000.00	2,765.73	2,709.25	2,613.46	19.96	14.25	-118.74	870.08	-199.49	1,124.78	1,094.82	29.96	37.548		
3,100.00	2,846.02	2,810.76	2,711.53	21.16	14.82	-120.53	896.27	-200.57	1,172.01	1,140.62	31.39	37.337		
3,200.00	2,926.31	2,898.81	2,796.54	22.37	15.30	-121.91	919.19	-200.11	1,218.66	1,185.98	32.69	37.283 SF		
3,300.00	3,006.60	2,977.17	2,872.22	23.59	15.74	-123.07	939.53	-199.95	1,266.07	1,232.20	33.87	37.377		
3,400.00	3,086.90	3,057.40	2,949.73	24.81	16.18	-124.20	960.22	-200.31	1,314.41	1,279.34	35.06	37.487		
3,500.00	3,167.19	3,138.43	3,027.70	26.03	16.65	-125.20	982.28	-200.26	1,363.20	1,326.94	36.27	37.589		
3,600.00	3,247.48	3,210.11	3,096.28	27.25	17.07	-125.98	1,003.11	-200.28	1,412.95	1,375.57	37.38	37.801		
3,700.00	3,327.77	3,316.48	3,197.88	28.48	17.70	-127.02	1,034.60	-199.57	1,462.52	1,423.64	38.88	37.613		
3,800.00	3,408.07	3,393.09	3,271.09	29.71	18.16	-127.72	1,057.18	-198.83	1,512.08	1,472.03	40.05	37.755		
3,900.00	3,488.36	3,503.80	3,376.65	30.94	18.83	-128.63	1,090.46	-196.96	1,561.43	1,519.83	41.60	37.530		
4,000.00	3,568.65	3,591.35	3,460.24	32.17	19.35	-129.31	1,116.40	-194.84	1,610.23	1,567.34	42.89	37.541		
4,100.00	3,648.95	3,637.73	3,504.58	33.41	19.63	-129.66	1,130.04	-194.35	1,660.17	1,616.47	43.70	37.991		
4,200.00	3,729.24	3,694.55	3,558.83	34.64	19.97	-130.09	1,146.90	-194.94	1,712.04	1,667.44	44.60	38.389		
4,300.00	3,809.53	3,785.57	3,646.17	35.88	20.50	-130.79	1,172.46	-196.56	1,764.36	1,718.49	45.87	38.465		
4,400.00	3,889.82	3,871.27	3,728.70	37.12	20.99	-131.46	1,195.47	-198.17	1,816.66	1,769.61	47.05	38.609		
4,500.00	3,970.12	3,971.14	3,824.77	38.36	21.56	-132.17	1,222.74	-199.40	1,868.69	1,820.29	48.40	38.607		
4,600.00	4,050.41	4,053.12	3,903.58	39.60	22.03	-132.71	1,245.30	-200.08	1,920.59	1,871.04	49.55	38.758		
4,700.00	4,130.70	4,164.09	4,010.54	40.84	22.66	-133.42	1,274.87	-200.34	1,971.94	1,920.92	51.01	38.655		
4,800.00	4,210.99	4,249.22	4,092.41	42.08	23.15	-133.92	1,298.20	-199.88	2,022.93	1,970.74	52.19	38.759		
4,900.00	4,291.29	4,339.59	4,179.12	43.32	23.67	-134.39	1,323.61	-199.09	2,073.90	2,020.45	53.45	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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,403.17	4,240.16	44.57	24.04	-134.71	1,341.41	-198.82	2,125.29	2,070.91	54.38	39.081		
5,100.00	4,451.87	4,464.32	4,298.90	45.81	24.39	-135.02	1,358.41	-199.18	2,177.60	2,122.33	55.27	39.396		
5,200.00	4,532.16	4,523.78	4,356.11	47.05	24.74	-135.33	1,374.60	-200.30	2,230.95	2,174.82	56.13	39.745		
5,300.00	4,612.46	4,666.01	4,492.69	48.30	25.56	-135.98	1,414.20	-201.50	2,283.56	2,225.57	57.99	39.381		
5,400.00	4,692.75	4,758.99	4,581.59	49.54	26.11	-136.34	1,441.43	-200.55	2,334.98	2,275.69	59.28	39.386		
5,500.00	4,773.04	4,842.57	4,661.47	50.79	26.61	-136.64	1,466.02	-199.79	2,386.58	2,326.11	60.47	39.469		
5,600.00	4,853.34	4,926.89	4,742.52	52.03	27.10	-136.97	1,489.29	-199.21	2,438.13	2,376.50	61.63	39.562		
5,700.00	4,933.63	4,999.67	4,812.74	53.28	27.50	-137.28	1,508.39	-199.11	2,490.02	2,427.40	62.63	39.760		
5,800.00	5,013.92	5,067.33	4,878.21	54.53	27.87	-137.58	1,525.46	-199.54	2,542.47	2,478.93	63.54	40.011		
5,900.00	5,094.21	5,138.15	4,946.87	55.77	28.25	-137.89	1,542.77	-200.51	2,595.49	2,531.01	64.48	40.253		
6,000.00	5,174.51	5,217.19	5,023.63	57.02	28.67	-138.25	1,561.56	-201.99	2,648.92	2,583.44	65.49	40.449		
6,100.00	5,254.80	5,311.32	5,115.66	58.27	29.13	-138.73	1,581.22	-204.03	2,702.34	2,635.73	66.60	40.575		
6,200.00	5,335.09	5,412.75	5,215.53	59.52	29.58	-139.31	1,598.78	-206.10	2,755.33	2,687.62	67.70	40.697		
6,300.00	5,415.38	5,505.43	5,307.29	60.76	29.95	-139.89	1,611.64	-207.91	2,808.02	2,739.37	68.64	40.908		
6,400.00	5,495.68	5,591.49	5,392.82	62.01	30.26	-140.47	1,620.97	-209.72	2,860.70	2,791.24	69.46	41.185		
6,500.00	5,575.97	5,672.04	5,473.03	63.26	30.53	-141.02	1,628.17	-211.51	2,913.52	2,843.33	70.19	41.509		
6,600.00	5,656.26	5,751.46	5,552.26	64.51	30.78	-141.60	1,633.22	-213.63	2,966.69	2,895.83	70.86	41.866		
6,700.00	5,736.55	5,907.81	5,708.49	65.76	31.20	-142.78	1,638.53	-216.33	3,019.25	2,947.31	71.93	41.974		
6,800.00	5,816.85	5,994.09	5,794.75	67.01	31.41	-143.42	1,640.19	-216.52	3,070.65	2,998.10	72.56	42.321		
6,900.00	5,897.14	6,062.39	5,863.04	68.26	31.58	-143.92	1,641.26	-216.83	3,122.51	3,049.45	73.07	42.734		
7,000.00	5,977.43	6,129.13	5,929.78	69.50	31.73	-144.42	1,641.41	-217.52	3,175.03	3,101.48	73.55	43.167		
7,100.00	6,057.72	6,205.03	6,005.67	70.75	31.91	-144.97	1,641.57	-218.49	3,228.00	3,153.93	74.07	43.578		
7,200.00	6,138.02	6,299.14	6,099.77	72.00	32.13	-145.62	1,642.07	-219.51	3,281.11	3,206.41	74.70	43.923		
7,300.00	6,218.31	6,367.14	6,167.76	73.25	32.29	-146.08	1,642.52	-220.22	3,334.42	3,259.23	75.19	44.347		
7,400.00	6,298.60	6,454.03	6,254.64	74.50	32.51	-146.65	1,643.27	-221.28	3,388.10	3,312.32	75.79	44.707		
7,500.00	6,378.90	6,539.69	6,340.30	75.75	32.72	-147.19	1,644.04	-222.02	3,441.72	3,365.34	76.37	45.064		
7,600.00	6,459.19	6,639.87	6,440.48	77.00	32.96	-147.81	1,644.22	-222.71	3,495.42	3,418.39	77.03	45.376		
7,700.00	6,539.48	6,735.56	6,536.17	78.25	33.19	-148.38	1,644.70	-222.67	3,548.70	3,471.03	77.67	45.688		
7,800.00	6,619.77	6,806.69	6,607.29	79.50	33.38	-148.79	1,645.56	-222.59	3,602.13	3,523.94	78.19	46.068		
7,900.00	6,700.07	6,870.07	6,670.66	80.75	33.54	-149.13	1,646.63	-222.82	3,656.10	3,577.43	78.67	46.475		
8,000.00	6,780.36	6,941.72	6,742.30	82.00	33.74	-149.51	1,648.03	-223.32	3,710.51	3,631.31	79.20	46.849		
8,100.00	6,860.65	7,037.87	6,838.42	83.25	34.00	-150.00	1,650.17	-223.96	3,765.04	3,685.15	79.89	47.126		
8,200.00	6,940.94	7,118.73	6,919.26	84.50	34.22	-150.40	1,651.98	-224.26	3,819.48	3,738.99	80.49	47.453		
8,300.00	7,021.24	7,195.56	6,996.08	85.76	34.43	-150.78	1,653.43	-224.59	3,874.11	3,793.05	81.06	47.795		
8,400.00	7,101.53	7,280.40	7,080.90	87.01	34.67	-151.18	1,655.13	-225.01	3,928.91	3,847.23	81.68	48.101		
8,500.00	7,181.82	7,436.22	7,236.61	88.26	35.13	-151.85	1,660.74	-224.56	3,983.31	3,900.51	82.80	48.110		
8,605.60	7,266.61	7,515.14	7,315.51	89.58	35.34	-152.20	1,661.77	-223.51	4,039.90	3,956.53	83.37	48.455		
8,650.00	7,302.60	7,539.64	7,340.00	90.13	35.39	-160.97	1,661.46	-223.18	4,063.91	3,980.37	83.55	48.643		
8,700.00	7,343.78	7,567.56	7,367.92	90.72	35.45	-171.39	1,660.91	-222.87	4,091.28	4,007.54	83.73	48.861		
8,750.00	7,385.32	7,595.64	7,395.99	91.28	35.52	177.86	1,660.15	-222.65	4,118.77	4,034.86	83.91	49.087		
8,800.00	7,426.92	7,691.96	7,492.25	91.81	35.73	167.22	1,657.03	-221.54	4,146.00	4,061.59	84.41	49.117		
8,850.00	7,468.27	7,734.10	7,534.36	92.29	35.83	157.01	1,655.80	-220.67	4,172.32	4,087.68	84.64	49.295		
8,900.00	7,509.04	7,767.04	7,567.29	92.72	35.90	147.44	1,654.90	-220.06	4,198.12	4,113.30	84.82	49.497		
8,950.00	7,548.93	7,800.63	7,600.85	93.10	35.98	138.72	1,654.03	-219.51	4,223.23	4,138.24	84.99	49.691		
9,000.00	7,587.63	7,851.07	7,651.27	93.43	36.09	131.04	1,652.70	-218.65	4,247.40	4,162.15	85.25	49.824		
9,050.00	7,624.85	7,911.14	7,711.30	93.71	36.23	124.42	1,651.00	-217.44	4,270.41	4,184.86	85.55	49.917		
9,100.00	7,660.30	8,149.44	7,949.02	93.93	36.74	120.26	1,639.92	-205.68	4,290.84	4,204.25	86.59	49.555		
9,150.00	7,693.72	8,150.00	7,976.90	94.10	38.81	115.25	1,638.23	-203.68	4,309.60	4,220.85	88.75	48.559		
9,200.00	7,724.85	8,171.00	7,970.48	94.23	36.78	110.62	1,638.61	-204.12	4,327.36	4,240.62	86.74	49.887		
9,250.00	7,753.45	8,200.55	7,999.92	94.30	36.85	106.96	1,637.00	-202.17	4,343.71	4,256.80	86.91	49.978		
9,300.00	7,779.31	8,209.97	8,009.32	94.34	36.87	103.66	1,636.58	-201.63	4,358.94	4,271.92	87.01	50.096		
9,350.00	7,802.23	8,218.27	8,017.59	94.33	36.89	100.85	1,636.25	-201.19	4,372.82	4,285.70	87.12	50.193		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
9,400.00	7,822.03	8,225.41	8,024.72	94.28	36.91	98.49	1,635.99	-200.83	4,385.28	4,298.04	87.24	50.267	
9,450.00	7,838.57	8,231.37	8,030.67	94.20	36.92	96.54	1,635.79	-200.56	4,396.26	4,308.89	87.38	50.315	
9,500.00	7,851.72	8,264.00	8,063.27	94.10	36.99	95.34	1,635.04	-199.34	4,405.98	4,318.32	87.66	50.262	
9,550.00	7,861.37	8,264.00	8,063.27	93.96	36.99	94.10	1,635.04	-199.34	4,413.77	4,325.96	87.81	50.263	
9,600.00	7,867.46	8,264.00	8,063.27	93.81	36.99	93.21	1,635.04	-199.34	4,419.96	4,331.96	87.99	50.232	
9,650.00	7,869.94	8,264.00	8,063.27	93.64	36.99	92.69	1,635.04	-199.34	4,424.49	4,336.30	88.19	50.168	
9,659.14	7,870.00	8,264.00	8,063.27	93.60	36.99	92.63	1,635.04	-199.34	4,425.14	4,336.91	88.23	50.153	
9,700.00	7,870.00	8,264.00	8,063.27	93.46	36.99	92.63	1,635.04	-199.34	4,428.11	4,339.69	88.41	50.084	
9,800.00	7,870.00	8,264.00	8,063.27	93.11	36.99	92.63	1,635.04	-199.34	4,436.94	4,348.08	88.86	49.931	
9,900.00	7,870.00	8,264.00	8,063.27	92.77	36.99	92.63	1,635.04	-199.34	4,448.01	4,358.69	89.32	49.800	
10,000.00	7,870.00	8,264.00	8,063.27	92.46	36.99	92.63	1,635.04	-199.34	4,461.29	4,371.51	89.78	49.692	
10,100.00	7,870.00	8,264.00	8,063.27	92.16	36.99	92.63	1,635.04	-199.34	4,476.76	4,386.52	90.24	49.607	
10,200.00	7,870.00	8,264.00	8,063.27	91.87	36.99	92.63	1,635.04	-199.34	4,494.41	4,403.70	90.71	49.546	
10,300.00	7,870.00	8,264.00	8,063.27	91.60	36.99	92.63	1,635.04	-199.34	4,514.20	4,423.02	91.18	49.509	
10,400.00	7,870.00	8,264.00	8,063.27	91.34	36.99	92.63	1,635.04	-199.34	4,536.11	4,444.47	91.65	49.497	
10,500.00	7,870.00	8,264.00	8,063.27	91.11	36.99	92.63	1,635.04	-199.34	4,560.11	4,468.01	92.11	49.508	
10,600.00	7,870.00	8,264.00	8,063.27	90.88	36.99	92.63	1,635.04	-199.34	4,586.17	4,493.60	92.57	49.545	
10,700.00	7,870.00	8,264.00	8,063.27	90.67	36.99	92.63	1,635.04	-199.34	4,614.25	4,521.23	93.02	49.605	
10,800.00	7,870.00	8,264.00	8,063.27	90.48	36.99	92.63	1,635.04	-199.34	4,644.31	4,550.84	93.46	49.690	
10,900.00	7,870.00	8,264.00	8,063.27	90.31	36.99	92.63	1,635.04	-199.34	4,676.31	4,582.41	93.90	49.800	
11,000.00	7,870.00	8,264.00	8,063.27	90.15	36.99	92.63	1,635.04	-199.34	4,710.22	4,615.89	94.33	49.933	
11,100.00	7,870.00	8,264.00	8,063.27	90.00	36.99	92.63	1,635.04	-199.34	4,746.00	4,651.25	94.75	50.090	
11,200.00	7,870.00	8,264.00	8,063.27	89.88	36.99	92.63	1,635.04	-199.34	4,783.60	4,688.44	95.16	50.270	
11,300.00	7,870.00	8,264.00	8,063.27	89.77	36.99	92.63	1,635.04	-199.34	4,822.98	4,727.43	95.56	50.473	
11,400.00	7,870.00	8,264.00	8,063.27	89.68	36.99	92.63	1,635.04	-199.34	4,864.10	4,768.16	95.94	50.698	
11,500.00	7,870.00	8,264.00	8,063.27	89.60	36.99	92.63	1,635.04	-199.34	4,906.91	4,810.59	96.32	50.945	
11,600.00	7,870.00	8,264.00	8,063.27	89.55	36.99	92.63	1,635.04	-199.34	4,951.37	4,854.69	96.68	51.214	
11,700.00	7,870.00	8,264.00	8,063.27	89.52	36.99	92.63	1,635.04	-199.34	4,997.44	4,900.41	97.03	51.504	
11,800.00	7,870.00	8,264.00	8,063.27	89.50	36.99	92.63	1,635.04	-199.34	5,045.07	4,947.70	97.37	51.815	
11,900.00	7,870.00	8,264.00	8,063.27	89.51	36.99	92.63	1,635.04	-199.34	5,094.22	4,996.52	97.69	52.145	
12,000.00	7,870.00	8,264.00	8,063.27	89.54	36.99	92.63	1,635.04	-199.34	5,144.84	5,046.83	98.01	52.495	
12,100.00	7,870.00	8,264.00	8,063.27	89.59	36.99	92.63	1,635.04	-199.34	5,196.89	5,098.58	98.31	52.863	
12,200.00	7,870.00	8,264.00	8,063.27	89.66	36.99	92.63	1,635.04	-199.34	5,250.33	5,151.73	98.60	53.250	
12,300.00	7,870.00	8,264.00	8,063.27	89.77	36.99	92.63	1,635.04	-199.34	5,305.12	5,206.24	98.87	53.655	
12,400.00	7,870.00	8,264.00	8,063.27	89.89	36.99	92.63	1,635.04	-199.34	5,361.21	5,262.07	99.14	54.077	
12,500.00	7,870.00	8,264.00	8,063.27	90.05	36.99	92.63	1,635.04	-199.34	5,418.57	5,319.18	99.40	54.515	
12,600.00	7,870.00	8,264.00	8,063.27	90.24	36.99	92.63	1,635.04	-199.34	5,477.16	5,377.52	99.64	54.970	
12,700.00	7,870.00	8,264.00	8,063.27	90.46	36.99	92.63	1,635.04	-199.34	5,536.93	5,437.05	99.87	55.440	
12,800.00	7,870.00	8,264.00	8,063.27	90.71	36.99	92.63	1,635.04	-199.34	5,597.84	5,497.75	100.10	55.925	
12,900.00	7,870.00	8,264.00	8,063.27	90.99	36.99	92.63	1,635.04	-199.34	5,659.87	5,559.57	100.31	56.425	
13,000.00	7,870.00	8,264.00	8,063.27	91.32	36.99	92.63	1,635.04	-199.34	5,722.98	5,622.47	100.51	56.938	
13,100.00	7,870.00	8,264.00	8,063.27	91.68	36.99	92.63	1,635.04	-199.34	5,787.12	5,686.42	100.71	57.466	
13,200.00	7,870.00	8,264.00	8,063.27	92.08	36.99	92.63	1,635.04	-199.34	5,852.27	5,751.38	100.89	58.006	
13,300.00	7,870.00	8,264.00	8,063.27	92.52	36.99	92.63	1,635.04	-199.34	5,918.40	5,817.33	101.07	58.559	
13,400.00	7,870.00	8,264.00	8,063.27	93.00	36.99	92.63	1,635.04	-199.34	5,985.46	5,884.23	101.24	59.124	
13,500.00	7,870.00	8,264.00	8,063.27	93.53	36.99	92.63	1,635.04	-199.34	6,053.43	5,952.04	101.40	59.701	
13,600.00	7,870.00	8,264.00	8,063.27	94.10	36.99	92.63	1,635.04	-199.34	6,122.28	6,020.74	101.55	60.289	
13,700.00	7,870.00	8,264.00	8,063.27	94.72	36.99	92.63	1,635.04	-199.34	6,191.99	6,090.29	101.69	60.889	
13,800.00	7,870.00	8,264.00	8,063.27	95.38	36.99	92.63	1,635.04	-199.34	6,262.51	6,160.67	101.83	61.498	
13,900.00	7,870.00	8,264.00	8,063.27	96.09	36.99	92.63	1,635.04	-199.34	6,333.82	6,231.86	101.96	62.118	
14,000.00	7,870.00	8,264.00	8,063.27	96.84	36.99	92.63	1,635.04	-199.34	6,405.91	6,303.82	102.09	62.747	
14,100.00	7,870.00	8,264.00	8,063.27	97.64	36.99	92.63	1,635.04	-199.34	6,478.73	6,376.52	102.21	63.386	

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
14,200.00	7,870.00	8,264.00	8,063.27	98.48	36.99	92.63	1,635.04	-199.34	6,552.27	6,449.95	102.32	64.034	
14,300.00	7,870.00	8,264.00	8,063.27	99.37	36.99	92.63	1,635.04	-199.34	6,626.51	6,524.07	102.43	64.691	
14,400.00	7,870.00	8,264.00	8,063.27	100.30	36.99	92.63	1,635.04	-199.34	6,701.41	6,598.87	102.54	65.356	
14,500.00	7,870.00	8,264.00	8,063.27	101.26	36.99	92.63	1,635.04	-199.34	6,776.96	6,674.32	102.64	66.029	
14,600.00	7,870.00	8,264.00	8,063.27	102.27	36.99	92.63	1,635.04	-199.34	6,853.14	6,750.41	102.73	66.710	
14,700.00	7,870.00	8,264.00	8,063.27	103.31	36.99	92.63	1,635.04	-199.34	6,929.92	6,827.10	102.82	67.398	
14,800.00	7,870.00	8,264.00	8,063.27	104.38	36.99	92.63	1,635.04	-199.34	7,007.29	6,904.39	102.91	68.094	
14,900.00	7,870.00	8,264.00	8,063.27	105.49	36.99	92.63	1,635.04	-199.34	7,085.23	6,982.24	102.99	68.796	
15,000.00	7,870.00	8,264.00	8,063.27	106.63	36.99	92.63	1,635.04	-199.34	7,163.71	7,060.64	103.07	69.505	
15,100.00	7,870.00	8,264.00	8,063.27	107.80	36.99	92.63	1,635.04	-199.34	7,242.73	7,139.58	103.14	70.221	
15,200.00	7,870.00	8,264.00	8,063.27	109.00	36.99	92.63	1,635.04	-199.34	7,322.25	7,219.04	103.21	70.943	
15,300.00	7,870.00	8,264.00	8,063.27	110.22	36.99	92.63	1,635.04	-199.34	7,402.28	7,299.00	103.28	71.671	
15,400.00	7,870.00	8,264.00	8,063.27	111.47	36.99	92.63	1,635.04	-199.34	7,482.78	7,379.43	103.35	72.404	
15,500.00	7,870.00	8,264.00	8,063.27	112.74	36.99	92.63	1,635.04	-199.34	7,563.75	7,460.34	103.41	73.143	
15,600.00	7,870.00	8,264.00	8,063.27	114.03	36.99	92.63	1,635.04	-199.34	7,645.17	7,541.70	103.47	73.888	
15,700.00	7,870.00	8,264.00	8,063.27	115.34	36.99	92.63	1,635.04	-199.34	7,727.03	7,623.50	103.53	74.637	
15,800.00	7,870.00	8,264.00	8,063.27	116.68	36.99	92.63	1,635.04	-199.34	7,809.31	7,705.72	103.58	75.392	
15,900.00	7,870.00	8,264.00	8,063.27	118.02	36.99	92.63	1,635.04	-199.34	7,892.00	7,788.36	103.64	76.151	
16,000.00	7,870.00	8,264.00	8,063.27	119.39	36.99	92.63	1,635.04	-199.34	7,975.08	7,871.39	103.69	76.914	
16,100.00	7,870.00	8,264.00	8,063.27	120.77	36.99	92.63	1,635.04	-199.34	8,058.55	7,954.81	103.74	77.682	
16,200.00	7,870.00	8,264.00	8,063.27	122.17	36.99	92.63	1,635.04	-199.34	8,142.39	8,038.61	103.78	78.455	
16,300.00	7,870.00	8,264.00	8,063.27	123.58	36.99	92.63	1,635.04	-199.34	8,226.59	8,122.76	103.83	79.231	
16,400.00	7,870.00	8,281.35	8,080.62	125.00	37.04	92.85	1,634.78	-198.85	8,311.11	8,207.19	103.92	79.973	
16,500.00	7,870.00	8,282.11	8,081.37	126.43	37.04	92.86	1,634.77	-198.83	8,396.00	8,292.03	103.97	80.755	
16,600.00	7,870.00	8,282.86	8,082.12	127.88	37.04	92.87	1,634.76	-198.81	8,481.22	8,377.21	104.01	81.541	
16,700.00	7,870.00	8,283.61	8,082.87	129.34	37.04	92.88	1,634.75	-198.79	8,566.76	8,462.71	104.05	82.330	
16,800.00	7,870.00	8,284.35	8,083.61	130.81	37.04	92.89	1,634.74	-198.77	8,652.61	8,548.51	104.09	83.123	
16,900.00	7,870.00	8,285.10	8,084.36	132.28	37.05	92.90	1,634.73	-198.75	8,738.76	8,634.62	104.13	83.919	
17,000.00	7,870.00	8,285.84	8,085.10	133.77	37.05	92.91	1,634.72	-198.73	8,825.20	8,721.03	104.17	84.717	
17,100.00	7,870.00	8,286.58	8,085.84	135.27	37.05	92.92	1,634.71	-198.71	8,911.92	8,807.71	104.21	85.519	
17,200.00	7,870.00	8,287.32	8,086.58	136.77	37.05	92.93	1,634.70	-198.69	8,998.92	8,894.68	104.25	86.324	
17,300.00	7,870.00	8,288.05	8,087.31	138.28	37.05	92.94	1,634.69	-198.67	9,086.19	8,981.91	104.28	87.131	
17,400.00	7,870.00	8,288.79	8,088.05	139.80	37.06	92.95	1,634.68	-198.66	9,173.72	9,069.40	104.32	87.942	
17,500.00	7,870.00	8,289.52	8,088.78	141.33	37.06	92.96	1,634.67	-198.64	9,261.50	9,157.15	104.35	88.754	
17,600.00	7,870.00	8,290.25	8,089.51	142.86	37.06	92.97	1,634.66	-198.62	9,349.52	9,245.14	104.38	89.569	
17,700.00	7,870.00	8,290.97	8,090.23	144.40	37.06	92.98	1,634.65	-198.60	9,437.79	9,333.37	104.42	90.386	
17,800.00	7,870.00	8,291.70	8,090.96	145.95	37.06	92.99	1,634.64	-198.58	9,526.28	9,421.84	104.45	91.206	
17,900.00	7,870.00	8,292.42	8,091.68	147.50	37.06	92.99	1,634.63	-198.56	9,615.00	9,510.52	104.48	92.027	
18,000.00	7,870.00	8,293.14	8,092.40	149.06	37.07	93.00	1,634.61	-198.55	9,703.94	9,599.43	104.51	92.851	
18,100.00	7,870.00	8,293.86	8,093.12	150.63	37.07	93.01	1,634.60	-198.53	9,793.10	9,688.56	104.54	93.677	
18,200.00	7,870.00	8,294.58	8,093.83	152.20	37.07	93.02	1,634.59	-198.51	9,882.46	9,777.89	104.57	94.504	
18,300.00	7,870.00	8,295.29	8,094.55	153.77	37.07	93.03	1,634.58	-198.49	9,972.02	9,867.42	104.60	95.333	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-27.71	218.57	-114.80	247.05					
100.00	100.00	90.49	90.49	0.13	0.14	-27.75	218.57	-115.00	246.98	246.71	0.28	891.383		
200.00	200.00	191.11	191.11	0.49	0.47	-27.88	218.43	-115.54	247.10	246.14	0.96	256.765		
300.00	300.00	293.92	293.91	0.85	0.84	-28.10	217.49	-116.13	246.56	244.88	1.69	146.140		
400.00	400.00	403.17	403.08	1.21	1.23	-28.58	213.48	-116.32	243.41	240.98	2.44	99.809		
500.00	500.00	510.58	510.17	1.57	1.62	-29.63	205.26	-116.76	236.92	233.73	3.19	74.336		
600.00	600.00	618.70	617.53	1.93	2.05	-31.39	192.55	-117.49	227.12	223.17	3.94	57.580		
700.00	699.98	728.49	725.89	2.28	2.50	-98.31	174.99	-116.66	213.42	208.71	4.71	45.323		
800.00	799.84	833.21	828.22	2.64	2.99	-103.60	152.86	-115.29	196.48	191.01	5.47	35.897		
900.00	899.45	931.82	923.83	3.00	3.48	-111.25	128.75	-114.17	180.02	173.73	6.28	28.654		
1,000.00	998.70	1,026.96	1,015.54	3.37	3.98	-121.36	103.44	-113.85	168.10	160.93	7.17	23.449		
1,086.57	1,084.24	1,108.24	1,093.68	3.71	4.43	-131.59	81.08	-113.79	164.41	156.41	8.00	20.543 CC		
1,100.00	1,097.47	1,120.75	1,105.68	3.76	4.50	-133.26	77.53	-113.80	164.51	156.38	8.13	20.223 ES		
1,200.00	1,195.62	1,212.35	1,193.33	4.18	5.03	-145.71	50.89	-113.96	171.85	162.74	9.11	18.866 SF		
1,300.00	1,293.06	1,304.25	1,281.10	4.63	5.57	-157.29	23.69	-113.94	190.83	180.81	10.02	19.045		
1,400.00	1,389.64	1,394.45	1,367.09	5.11	6.11	-166.99	-3.52	-112.82	219.22	208.36	10.85	20.202		
1,500.00	1,485.27	1,482.04	1,450.28	5.63	6.65	-174.76	-30.89	-111.32	255.96	244.34	11.62	22.025		
1,600.00	1,579.82	1,567.88	1,531.90	6.20	7.18	179.33	-57.43	-109.82	299.22	286.85	12.37	24.185		
1,700.00	1,673.17	1,652.95	1,612.61	6.83	7.71	174.66	-84.27	-108.20	347.85	334.73	13.13	26.500		
1,800.00	1,765.21	1,740.20	1,695.61	7.51	8.26	170.98	-111.08	-106.07	400.04	386.11	13.92	28.729		
1,900.00	1,855.84	1,825.01	1,776.49	8.24	8.78	168.20	-136.47	-103.57	455.16	440.44	14.72	30.913		
2,000.00	1,944.94	1,907.75	1,855.42	9.05	9.29	165.97	-161.13	-100.74	513.17	497.64	15.53	33.045		
2,100.00	2,032.39	1,997.84	1,941.71	9.91	9.83	164.12	-186.77	-97.18	573.16	556.73	16.43	34.892		
2,200.00	2,118.11	2,079.64	2,020.46	10.85	10.30	162.82	-208.66	-93.83	634.95	617.69	17.26	36.789		
2,300.00	2,201.97	2,151.83	2,090.09	11.85	10.72	161.83	-227.53	-91.21	699.33	681.31	18.02	38.809		
2,400.00	2,283.88	2,224.36	2,160.09	12.93	11.13	161.00	-246.41	-89.19	766.65	747.85	18.80	40.786		
2,429.47	2,307.63	2,246.08	2,181.08	13.26	11.25	160.78	-251.95	-88.69	786.95	767.91	19.04	41.342		
2,500.00	2,364.26	2,293.62	2,227.09	14.06	11.52	160.75	-263.88	-87.77	835.79	816.24	19.55	42.751		
2,600.00	2,444.56	2,353.46	2,284.97	15.22	11.86	160.75	-279.06	-87.27	905.77	885.56	20.21	44.827		
2,700.00	2,524.85	2,413.29	2,342.80	16.39	12.20	160.78	-294.40	-87.61	976.63	955.78	20.86	46.822		
2,800.00	2,605.14	2,474.40	2,401.88	17.57	12.54	160.87	-309.95	-88.94	1,048.25	1,026.73	21.52	48.706		
2,900.00	2,685.43	2,543.07	2,468.37	18.76	12.92	161.01	-326.98	-91.16	1,120.13	1,097.88	22.26	50.326		
3,000.00	2,765.73	2,627.60	2,550.25	19.96	13.39	161.15	-347.86	-93.41	1,191.68	1,168.52	23.16	51.448		
3,100.00	2,846.02	2,707.88	2,627.82	21.16	13.84	161.15	-368.50	-93.58	1,262.38	1,238.33	24.05	52.496		
3,200.00	2,926.31	2,775.32	2,692.85	22.37	14.23	161.08	-386.37	-92.92	1,332.83	1,308.01	24.82	53.710		
3,300.00	3,006.60	2,834.00	2,749.20	23.59	14.58	160.99	-402.72	-92.22	1,403.80	1,378.30	25.50	55.050		
3,400.00	3,086.90	2,945.99	2,856.66	24.81	15.25	160.77	-434.09	-89.24	1,474.08	1,447.30	26.78	55.051		
3,500.00	3,167.19	3,003.11	2,911.48	26.03	15.59	160.66	-450.03	-87.37	1,543.92	1,516.45	27.47	56.206		
3,600.00	3,247.48	3,063.96	2,969.81	27.25	15.96	160.55	-467.27	-85.45	1,614.09	1,585.88	28.21	57.225		
3,700.00	3,327.77	3,121.72	3,024.99	28.48	16.31	160.42	-484.22	-83.65	1,684.78	1,655.87	28.91	58.272		
3,800.00	3,408.07	3,173.93	3,074.82	29.71	16.64	160.32	-499.78	-82.46	1,756.13	1,726.57	29.56	59.415		
3,900.00	3,488.36	3,239.07	3,137.01	30.94	17.04	160.23	-519.15	-81.79	1,828.11	1,797.76	30.34	60.245		
4,000.00	3,568.65	3,333.18	3,227.19	32.17	17.61	160.15	-546.05	-80.84	1,899.55	1,868.09	31.45	60.390		
4,100.00	3,648.95	3,420.66	3,311.16	33.41	18.13	160.07	-570.49	-79.07	1,970.12	1,937.63	32.49	60.637		
4,200.00	3,729.24	3,490.82	3,378.41	34.64	18.56	159.99	-590.41	-77.08	2,040.50	2,007.16	33.34	61.199		
4,300.00	3,809.53	3,535.81	3,421.42	35.88	18.84	159.93	-603.56	-75.85	2,111.35	2,077.43	33.92	62.252		
4,400.00	3,889.82	3,584.00	3,467.35	37.12	19.14	159.87	-618.11	-74.91	2,183.05	2,148.52	34.53	63.231		
4,500.00	3,970.12	3,625.40	3,506.75	38.36	19.40	159.82	-630.80	-74.54	2,255.52	2,220.47	35.05	64.353		
4,600.00	4,050.41	3,677.00	3,555.88	39.60	19.72	159.78	-646.58	-74.86	2,328.72	2,293.03	35.69	65.249		
4,700.00	4,130.70	3,734.11	3,610.29	40.84	20.08	159.76	-663.90	-75.79	2,402.33	2,365.95	36.39	66.025		
4,800.00	4,210.99	3,808.86	3,681.62	42.08	20.54	159.75	-686.21	-77.27	2,475.93	2,438.64	37.29	66.404		
4,900.00	4,291.29	3,893.92	3,762.89	43.32	21.06	159.73	-711.26	-78.66	2,549.15	2,510.85	38.30	66.550		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	3,989.08	3,853.90	44.57	21.65	159.71	-739.06	-79.41	2,621.85	2,582.41	39.44	66.474		
5,100.00	4,451.87	4,133.96	3,993.03	45.81	22.51	159.69	-779.43	-78.78	2,693.36	2,652.23	41.13	65.487		
5,200.00	4,532.16	4,200.69	4,057.46	47.05	22.90	159.70	-796.80	-78.15	2,763.61	2,721.68	41.93	65.917		
5,300.00	4,612.46	4,242.00	4,097.36	48.30	23.13	159.72	-807.50	-78.06	2,834.26	2,791.82	42.44	66.779		
5,400.00	4,692.75	4,290.80	4,144.43	49.54	23.41	159.74	-820.34	-78.35	2,905.52	2,862.48	43.04	67.513		
5,500.00	4,773.04	4,335.00	4,186.98	50.79	23.67	159.76	-832.31	-79.08	2,977.59	2,934.01	43.58	68.328		
5,600.00	4,853.34	4,395.43	4,245.09	52.03	24.03	159.78	-848.82	-80.43	3,050.09	3,005.80	44.30	68.855		
5,700.00	4,933.63	4,454.00	4,301.46	53.28	24.37	159.81	-864.69	-81.82	3,122.60	3,077.60	45.00	69.396		
5,800.00	5,013.92	4,499.19	4,344.86	54.53	24.64	159.83	-877.21	-83.04	3,195.55	3,150.01	45.55	70.160		
5,900.00	5,094.21	4,558.78	4,401.97	55.77	24.99	159.85	-894.14	-84.77	3,268.92	3,222.66	46.26	70.659		
6,000.00	5,174.51	6,000.00	4,512.40	57.02	33.74	159.85	-927.30	-86.58	3,341.77	3,287.16	54.61	61.192		
6,100.00	5,254.80	4,955.48	4,784.50	58.27	27.28	159.94	-998.66	-85.54	3,412.00	3,361.26	50.73	67.252		
6,200.00	5,335.09	5,086.22	4,912.05	59.52	27.96	160.01	-1,027.15	-82.23	3,479.21	3,427.05	52.15	66.709		
6,300.00	5,415.38	5,179.71	5,003.84	60.76	28.41	160.12	-1,044.82	-81.12	3,545.79	3,492.64	53.15	66.708		
6,400.00	5,495.68	5,706.97	5,528.81	62.01	30.14	161.64	-1,084.28	-82.33	3,607.57	3,550.64	56.93	63.369		
6,500.00	5,575.97	5,783.24	5,605.08	63.26	30.30	161.90	-1,084.08	-81.42	3,664.30	3,606.72	57.57	63.644		
6,600.00	5,656.26	5,860.05	5,681.88	64.51	30.47	162.16	-1,083.71	-80.71	3,721.14	3,662.92	58.22	63.919		
6,700.00	5,736.55	5,932.10	5,753.93	65.76	30.62	162.41	-1,083.36	-80.25	3,778.21	3,719.38	58.83	64.222		
6,800.00	5,816.85	6,012.79	5,834.61	67.01	30.79	162.67	-1,083.01	-79.81	3,835.42	3,775.93	59.49	64.476		
6,900.00	5,897.14	6,092.61	5,914.44	68.26	30.96	162.93	-1,082.62	-79.42	3,892.70	3,832.56	60.14	64.732		
7,000.00	5,977.43	6,169.97	5,991.79	69.50	31.13	163.17	-1,082.15	-79.16	3,950.06	3,889.30	60.77	65.002		
7,100.00	6,057.72	6,243.17	6,064.99	70.75	31.28	163.40	-1,081.66	-79.08	4,007.58	3,946.21	61.38	65.295		
7,200.00	6,138.02	6,311.70	6,133.52	72.00	31.43	163.61	-1,081.22	-79.20	4,065.35	4,003.39	61.96	65.614		
7,300.00	6,218.31	6,379.84	6,201.65	73.25	31.58	163.81	-1,080.91	-79.54	4,123.45	4,060.92	62.54	65.936		
7,400.00	6,298.60	6,474.34	6,296.15	74.50	31.79	164.08	-1,080.44	-79.99	4,181.58	4,118.32	63.26	66.106		
7,500.00	6,378.90	6,573.01	6,394.82	75.75	32.00	164.36	-1,079.57	-80.07	4,239.29	4,175.29	64.00	66.242		
7,600.00	6,459.19	6,638.46	6,460.27	77.00	32.15	164.54	-1,079.04	-80.15	4,297.12	4,232.56	64.56	66.558		
7,700.00	6,539.48	6,734.08	6,555.88	78.25	32.36	164.80	-1,078.17	-80.37	4,355.02	4,289.73	65.29	66.706		
7,800.00	6,619.77	6,837.75	6,659.54	79.50	32.59	165.07	-1,076.83	-80.32	4,412.59	4,346.53	66.06	66.800		
7,900.00	6,700.07	6,923.48	6,745.26	80.75	32.78	165.29	-1,075.90	-79.81	4,469.95	4,403.21	66.74	66.976		
8,000.00	6,780.36	7,032.58	6,854.36	82.00	33.04	165.54	-1,074.97	-78.33	4,526.97	4,459.40	67.57	67.001		
8,100.00	6,860.65	7,104.15	6,925.91	83.25	33.22	165.69	-1,074.52	-77.12	4,583.92	4,515.74	68.19	67.224		
8,200.00	6,940.94	7,165.43	6,987.19	84.50	33.37	165.82	-1,074.30	-76.18	4,641.16	4,572.41	68.76	67.502		
8,300.00	7,021.24	7,226.56	7,048.32	85.76	33.52	165.95	-1,074.20	-75.52	4,698.80	4,629.48	69.32	67.785		
8,400.00	7,101.53	7,289.68	7,111.43	87.01	33.68	166.08	-1,074.10	-75.13	4,756.77	4,686.88	69.89	68.060		
8,500.00	7,181.82	7,344.14	7,165.89	88.26	33.82	166.20	-1,074.08	-75.04	4,815.13	4,744.72	70.41	68.387		
8,605.60	7,266.61	7,421.70	7,243.45	89.58	34.03	166.36	-1,074.46	-75.17	4,877.24	4,806.16	71.08	68.614		
8,650.00	7,302.60	7,504.31	7,326.05	90.13	34.25	158.29	-1,074.98	-74.58	4,902.33	4,830.65	71.68	68.392		
8,700.00	7,343.78	7,547.32	7,369.06	90.72	34.37	148.97	-1,075.37	-73.97	4,928.32	4,856.26	72.05	68.398		
8,750.00	7,385.32	7,591.96	7,413.69	91.28	34.50	139.70	-1,075.89	-73.16	4,951.83	4,879.38	72.44	68.355		
8,800.00	7,426.92	7,625.57	7,447.29	91.81	34.60	130.66	-1,076.36	-72.52	4,972.83	4,900.07	72.76	68.341		
8,850.00	7,468.27	7,659.01	7,480.72	92.29	34.69	122.17	-1,076.92	-71.90	4,991.23	4,918.15	73.08	68.294		
8,900.00	7,509.04	7,689.30	7,510.99	92.72	34.78	114.44	-1,077.48	-71.36	5,006.93	4,933.55	73.38	68.234		
8,950.00	7,548.93	7,717.16	7,538.85	93.10	34.86	107.60	-1,078.02	-70.93	5,019.88	4,946.23	73.65	68.158		
9,000.00	7,587.63	7,744.18	7,565.86	93.43	34.94	101.72	-1,078.56	-70.59	5,030.01	4,956.11	73.91	68.057		
9,050.00	7,624.85	7,766.00	7,587.68	93.71	35.01	96.75	-1,079.01	-70.37	5,037.30	4,963.18	74.12	67.961		
9,100.00	7,660.30	7,787.25	7,608.93	93.93	35.07	92.65	-1,079.47	-70.21	5,041.75	4,967.43	74.32	67.841		
9,150.00	7,693.72	7,804.44	7,626.10	94.10	35.12	89.34	-1,079.87	-70.14	5,043.37	4,968.90	74.47	67.719		
9,200.00	7,724.85	7,820.49	7,642.15	94.23	35.17	86.74	-1,080.26	-70.13	5,042.19	4,967.57	74.61	67.577		
9,250.00	7,753.45	7,835.31	7,656.96	94.30	35.22	84.79	-1,080.65	-70.16	5,038.21	4,963.48	74.73	67.415		
9,300.00	7,779.31	7,859.00	7,680.65	94.34	35.29	83.53	-1,081.31	-70.28	5,031.52	4,956.61	74.91	67.169		
9,350.00	7,802.23	7,859.00	7,680.65	94.33	35.29	82.59	-1,081.31	-70.28	5,022.12	4,947.21	74.91	67.042		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,859.00	7,680.65	94.28	35.29	82.16	-1,081.31	-70.28	5,010.16	4,935.26	74.91	66.886		
9,450.00	7,838.57	7,859.00	7,680.65	94.20	35.29	82.22	-1,081.31	-70.28	4,995.73	4,920.83	74.90	66.701		
9,500.00	7,851.72	7,883.03	7,704.66	94.10	35.36	83.04	-1,082.02	-70.54	4,978.78	4,903.71	75.07	66.325		
9,550.00	7,861.37	7,887.70	7,709.34	93.96	35.38	84.11	-1,082.16	-70.61	4,959.63	4,884.53	75.10	66.040		
9,600.00	7,867.46	7,890.90	7,712.53	93.81	35.39	85.63	-1,082.26	-70.66	4,938.32	4,863.19	75.13	65.730		
9,650.00	7,869.94	7,892.60	7,714.23	93.64	35.39	87.62	-1,082.31	-70.69	4,915.01	4,839.85	75.16	65.392		
9,659.14	7,870.00	7,892.75	7,714.38	93.60	35.39	88.03	-1,082.32	-70.69	4,910.54	4,835.37	75.17	65.327		
9,700.00	7,870.00	7,893.30	7,714.92	93.46	35.39	88.04	-1,082.34	-70.70	4,890.57	4,815.37	75.20	65.037		
9,800.00	7,870.00	7,894.63	7,716.26	93.11	35.40	88.06	-1,082.38	-70.72	4,842.78	4,767.49	75.29	64.323		
9,900.00	7,870.00	7,895.98	7,717.61	92.77	35.40	88.08	-1,082.42	-70.74	4,796.61	4,721.19	75.42	63.602		
10,000.00	7,870.00	7,897.34	7,718.96	92.46	35.41	88.10	-1,082.46	-70.77	4,752.09	4,676.51	75.58	62.875		
10,100.00	7,870.00	7,898.70	7,720.32	92.16	35.41	88.11	-1,082.51	-70.79	4,709.28	4,633.49	75.78	62.143		
10,200.00	7,870.00	7,900.07	7,721.70	91.87	35.41	88.13	-1,082.55	-70.82	4,668.21	4,592.19	76.02	61.406		
10,300.00	7,870.00	7,901.46	7,723.08	91.60	35.42	88.15	-1,082.59	-70.85	4,628.94	4,552.63	76.30	60.666		
10,400.00	7,870.00	7,902.85	7,724.47	91.34	35.42	88.17	-1,082.64	-70.87	4,591.51	4,514.88	76.62	59.923		
10,500.00	7,870.00	7,904.25	7,725.87	91.11	35.43	88.19	-1,082.68	-70.90	4,555.96	4,478.98	76.99	59.179		
10,600.00	7,870.00	7,905.66	7,727.28	90.88	35.43	88.21	-1,082.73	-70.93	4,522.35	4,444.96	77.39	58.436		
10,700.00	7,870.00	7,907.08	7,728.70	90.67	35.44	88.23	-1,082.78	-70.96	4,490.71	4,412.88	77.83	57.696		
10,800.00	7,870.00	7,908.51	7,730.13	90.48	35.44	88.25	-1,082.82	-70.99	4,461.09	4,382.77	78.32	56.960		
10,900.00	7,870.00	7,909.95	7,731.56	90.31	35.45	88.26	-1,082.87	-71.02	4,433.53	4,354.68	78.84	56.232		
11,000.00	7,870.00	7,911.40	7,733.01	90.15	35.45	88.28	-1,082.92	-71.05	4,408.06	4,328.65	79.41	55.513		
11,100.00	7,870.00	7,912.86	7,734.47	90.00	35.45	88.30	-1,082.96	-71.08	4,384.72	4,304.72	80.01	54.805		
11,200.00	7,870.00	7,914.32	7,735.94	89.88	35.46	88.32	-1,083.01	-71.11	4,363.55	4,282.91	80.64	54.112		
11,300.00	7,870.00	7,915.80	7,737.42	89.77	35.46	88.34	-1,083.06	-71.15	4,344.58	4,263.27	81.30	53.436		
11,400.00	7,870.00	7,917.29	7,738.90	89.68	35.47	88.36	-1,083.11	-71.18	4,327.83	4,245.83	82.00	52.779		
11,500.00	7,870.00	7,918.79	7,740.40	89.60	35.47	88.38	-1,083.16	-71.22	4,313.34	4,230.62	82.72	52.143		
11,600.00	7,870.00	7,920.30	7,741.91	89.55	35.48	88.40	-1,083.21	-71.25	4,301.12	4,217.66	83.47	51.531		
11,700.00	7,870.00	7,921.82	7,743.43	89.52	35.48	88.42	-1,083.26	-71.29	4,291.20	4,206.97	84.23	50.944		
11,800.00	7,870.00	7,923.35	7,744.96	89.50	35.49	88.44	-1,083.31	-71.33	4,283.59	4,198.57	85.02	50.385		
11,900.00	7,870.00	7,924.90	7,746.50	89.51	35.49	88.47	-1,083.36	-71.37	4,278.30	4,192.49	85.82	49.854		
12,000.00	7,870.00	7,926.45	7,748.05	89.54	35.50	88.49	-1,083.42	-71.41	4,275.35	4,188.72	86.63	49.354		
12,076.48	7,870.00	7,927.64	7,749.25	89.57	35.50	88.50	-1,083.46	-71.44	4,274.67	4,187.41	87.25	48.991		
12,100.00	7,870.00	7,928.01	7,749.61	89.59	35.50	88.51	-1,083.47	-71.45	4,274.73	4,187.29	87.44	48.886		
12,200.00	7,870.00	7,929.59	7,751.19	89.66	35.51	88.53	-1,083.52	-71.49	4,276.45	4,188.19	88.26	48.451		
12,300.00	7,870.00	8,160.42	7,981.76	89.77	36.25	91.62	-1,093.42	-71.73	4,280.50	4,189.32	91.18	46.947		
12,400.00	7,870.00	8,204.21	8,025.48	89.89	36.40	92.20	-1,095.74	-70.42	4,286.62	4,194.27	92.35	46.415		
12,500.00	7,870.00	12,500.00	8,015.18	90.05	50.97	92.07	-1,095.27	-70.55	4,294.84	4,187.46	107.38	39.998		
12,600.00	7,870.00	12,600.00	8,020.50	90.24	51.32	92.14	-1,095.55	-70.39	4,305.57	4,197.09	108.48	39.691		
12,700.00	7,870.00	12,700.00	8,025.82	90.46	51.66	92.21	-1,095.84	-70.22	4,318.59	4,209.02	109.57	39.415		
12,800.00	7,870.00	12,800.00	8,031.14	90.71	52.00	92.28	-1,096.12	-70.06	4,333.87	4,223.23	110.64	39.171		
12,900.00	7,870.00	8,263.22	8,084.34	90.99	36.60	92.99	-1,099.18	-68.14	4,351.33	4,254.69	96.65	45.023		
13,000.00	7,870.00	8,271.07	8,092.16	91.32	36.63	93.10	-1,099.69	-67.83	4,371.00	4,273.57	97.42	44.865		
13,100.00	7,870.00	8,279.35	8,100.42	91.68	36.66	93.21	-1,100.24	-67.50	4,392.84	4,294.65	98.19	44.740		
13,200.00	7,870.00	8,288.10	8,109.14	92.08	36.69	93.33	-1,100.83	-67.15	4,416.82	4,317.89	98.93	44.647		
13,300.00	7,870.00	8,297.36	8,118.38	92.52	36.72	93.45	-1,101.48	-66.78	4,442.91	4,343.26	99.65	44.584		
13,400.00	7,870.00	8,307.18	8,128.16	93.00	36.76	93.58	-1,102.19	-66.39	4,471.07	4,370.72	100.36	44.552		
13,500.00	7,870.00	8,317.61	8,138.55	93.53	36.79	93.72	-1,102.97	-65.98	4,501.27	4,400.22	101.04	44.549		
13,600.00	7,870.00	8,328.71	8,149.61	94.10	36.83	93.87	-1,103.82	-65.54	4,533.44	4,431.74	101.71	44.574		
13,700.00	7,870.00	8,340.54	8,161.39	94.72	36.87	94.03	-1,104.76	-65.07	4,567.57	4,465.22	102.35	44.627		
13,800.00	7,870.00	13,800.00	8,147.46	95.38	56.42	93.84	-1,103.66	-65.62	4,603.63	4,482.65	120.98	38.052		
13,900.00	7,870.00	8,342.03	8,162.88	96.09	36.88	94.05	-1,104.84	-65.02	4,641.52	4,538.12	103.40	44.889		
14,000.00	7,870.00	8,346.65	8,167.49	96.84	36.90	94.11	-1,105.19	-64.84	4,681.25	4,577.34	103.92	45.049		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,351.21	8,172.03	97.64	36.91	94.17	-1,105.53	-64.67	4,722.76	4,618.35	104.41	45.234		
14,200.00	7,870.00	8,355.70	8,176.51	98.48	36.93	94.23	-1,105.86	-64.50	4,766.00	4,661.12	104.87	45.445		
14,300.00	7,870.00	8,360.13	8,180.92	99.37	36.95	94.29	-1,106.19	-64.34	4,810.92	4,705.60	105.32	45.680		
14,400.00	7,870.00	8,364.49	8,185.27	100.30	36.96	94.35	-1,106.51	-64.18	4,857.47	4,751.74	105.74	45.939		
14,500.00	7,870.00	8,368.79	8,189.55	101.26	36.98	94.40	-1,106.82	-64.03	4,905.62	4,799.49	106.13	46.221		
14,600.00	7,870.00	8,373.04	8,193.78	102.27	36.99	94.46	-1,107.13	-63.87	4,955.31	4,848.80	106.51	46.525		
14,700.00	7,870.00	8,377.22	8,197.95	103.31	37.01	94.52	-1,107.43	-63.73	5,006.50	4,899.64	106.86	46.851		
14,800.00	7,870.00	8,381.34	8,202.06	104.38	37.02	94.57	-1,107.73	-63.58	5,059.15	4,951.95	107.19	47.197		
14,900.00	7,870.00	8,385.41	8,206.12	105.49	37.04	94.63	-1,108.01	-63.44	5,113.20	5,005.69	107.50	47.562		
15,000.00	7,870.00	8,389.42	8,210.11	106.63	37.05	94.68	-1,108.30	-63.31	5,168.61	5,060.82	107.80	47.947		
15,100.00	7,870.00	8,393.38	8,214.06	107.80	37.07	94.73	-1,108.57	-63.17	5,225.35	5,117.28	108.07	48.351		
15,200.00	7,870.00	8,397.28	8,217.95	109.00	37.08	94.78	-1,108.84	-63.04	5,283.36	5,175.04	108.33	48.772		
15,300.00	7,870.00	8,401.13	8,221.79	110.22	37.09	94.84	-1,109.11	-62.92	5,342.62	5,234.05	108.57	49.210		
15,400.00	7,870.00	8,420.00	8,240.61	111.47	37.16	95.09	-1,110.38	-62.32	5,403.10	5,294.22	108.88	49.623		
15,500.00	7,870.00	8,420.00	8,240.61	112.74	37.16	95.09	-1,110.38	-62.32	5,464.69	5,355.62	109.07	50.104		
15,600.00	7,870.00	8,420.00	8,240.61	114.03	37.16	95.09	-1,110.38	-62.32	5,527.40	5,418.16	109.24	50.600		
15,700.00	7,870.00	8,420.00	8,240.61	115.34	37.16	95.09	-1,110.38	-62.32	5,591.20	5,481.80	109.40	51.110		
15,800.00	7,870.00	8,420.00	8,240.61	116.68	37.16	95.09	-1,110.38	-62.32	5,656.04	5,546.50	109.54	51.634		
15,900.00	7,870.00	8,420.00	8,240.61	118.02	37.16	95.09	-1,110.38	-62.32	5,721.90	5,612.22	109.67	52.171		
16,000.00	7,870.00	8,420.00	8,240.61	119.39	37.16	95.09	-1,110.38	-62.32	5,788.74	5,678.94	109.80	52.722		
16,100.00	7,870.00	8,420.00	8,240.61	120.77	37.16	95.09	-1,110.38	-62.32	5,856.52	5,746.61	109.91	53.285		
16,200.00	7,870.00	8,420.00	8,240.61	122.17	37.16	95.09	-1,110.38	-62.32	5,925.21	5,815.20	110.01	53.859		
16,300.00	7,870.00	8,420.00	8,240.61	123.58	37.16	95.09	-1,110.38	-62.32	5,994.78	5,884.68	110.11	54.445		
16,400.00	7,870.00	8,420.00	8,240.61	125.00	37.16	95.09	-1,110.38	-62.32	6,065.21	5,955.02	110.19	55.043		
16,500.00	7,870.00	8,441.90	8,262.46	126.43	37.24	95.38	-1,111.80	-61.67	6,136.37	6,025.99	110.39	55.589		
16,600.00	7,870.00	8,444.92	8,265.47	127.88	37.25	95.42	-1,111.99	-61.58	6,208.39	6,097.92	110.47	56.199		
16,700.00	7,870.00	8,447.91	8,268.44	129.34	37.26	95.46	-1,112.18	-61.50	6,281.17	6,170.62	110.55	56.818		
16,800.00	7,870.00	8,450.85	8,271.38	130.81	37.27	95.50	-1,112.37	-61.42	6,354.69	6,244.07	110.62	57.446		
16,900.00	7,870.00	8,453.76	8,274.28	132.28	37.28	95.54	-1,112.55	-61.34	6,428.92	6,318.23	110.68	58.084		
17,000.00	7,870.00	8,456.63	8,277.15	133.77	37.29	95.58	-1,112.73	-61.26	6,503.83	6,393.09	110.74	58.731		
17,100.00	7,870.00	8,459.47	8,279.98	135.27	37.30	95.61	-1,112.90	-61.19	6,579.41	6,468.62	110.79	59.385		
17,200.00	7,870.00	8,462.28	8,282.78	136.77	37.31	95.65	-1,113.07	-61.11	6,655.63	6,544.80	110.84	60.048		
17,300.00	7,870.00	8,465.05	8,285.55	138.28	37.32	95.69	-1,113.24	-61.04	6,732.48	6,621.60	110.88	60.719		
17,400.00	7,870.00	8,467.79	8,288.28	139.80	37.33	95.72	-1,113.40	-60.97	6,809.92	6,699.00	110.92	61.397		
17,500.00	7,870.00	8,470.50	8,290.98	141.33	37.34	95.76	-1,113.57	-60.91	6,887.94	6,776.99	110.95	62.082		
17,600.00	7,870.00	8,473.17	8,293.65	142.86	37.34	95.80	-1,113.73	-60.84	6,966.52	6,855.54	110.98	62.774		
17,700.00	7,870.00	8,475.82	8,296.29	144.40	37.35	95.83	-1,113.88	-60.77	7,045.64	6,934.64	111.00	63.473		
17,800.00	7,870.00	8,478.43	8,298.90	145.95	37.36	95.87	-1,114.04	-60.71	7,125.28	7,014.26	111.02	64.178		
17,900.00	7,870.00	8,481.01	8,301.48	147.50	37.37	95.90	-1,114.19	-60.65	7,205.43	7,094.39	111.04	64.889		
18,000.00	7,870.00	8,483.57	8,304.03	149.06	37.38	95.93	-1,114.34	-60.59	7,286.07	7,175.01	111.06	65.606		
18,100.00	7,870.00	8,486.09	8,306.55	150.63	37.39	95.97	-1,114.48	-60.53	7,367.18	7,256.11	111.07	66.329		
18,200.00	7,870.00	8,488.59	8,309.04	152.20	37.40	96.00	-1,114.63	-60.47	7,448.74	7,337.66	111.08	67.057		
18,300.00	7,870.00	8,491.06	8,311.50	153.77	37.41	96.03	-1,114.77	-60.42	7,530.75	7,419.66	111.09	67.791		
18,400.00	7,870.00	8,514.00	8,334.41	155.35	37.49	96.34	-1,116.04	-59.93	7,613.25	7,502.06	111.19	68.470		
18,500.00	7,870.00	8,514.00	8,334.41	156.93	37.49	96.34	-1,116.04	-59.93	7,696.09	7,584.91	111.18	69.220		
18,600.00	7,870.00	8,514.00	8,334.41	158.52	37.49	96.34	-1,116.04	-59.93	7,779.33	7,668.16	111.17	69.975		
18,700.00	7,870.00	8,514.00	8,334.41	160.11	37.49	96.34	-1,116.04	-59.93	7,862.97	7,751.80	111.16	70.734		
18,800.00	7,870.00	8,514.00	8,334.41	161.71	37.49	96.34	-1,116.04	-59.93	7,946.98	7,835.82	111.15	71.497		
18,900.00	7,870.00	8,514.00	8,334.41	163.31	37.49	96.34	-1,116.04	-59.93	8,031.35	7,920.21	111.14	72.264		
19,000.00	7,870.00	8,514.00	8,334.41	164.91	37.49	96.34	-1,116.04	-59.93	8,116.08	8,004.96	111.13	73.035		
19,100.00	7,870.00	8,514.00	8,334.41	166.52	37.49	96.34	-1,116.04	-59.93	8,201.16	8,090.05	111.11	73.811		
19,200.00	7,870.00	8,514.00	8,334.41	168.13	37.49	96.34	-1,116.04	-59.93	8,286.57	8,175.47	111.10	74.589		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,514.00	8,334.41	169.75	37.49	96.34	-1,116.04	-59.93	8,372.30	8,261.22	111.08	75.372	
19,383.51	7,870.00	8,514.00	8,334.41	171.10	37.49	96.34	-1,116.04	-59.93	8,444.13	8,333.07	111.07	76.027	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-23.54	218.57	-95.20	238.58				
100.00	100.00	88.96	88.96	0.13	0.15	-23.48	219.02	-95.13	238.79	238.51	0.28	850.833	
200.00	200.00	191.15	191.13	0.49	0.41	-23.23	220.24	-94.51	239.67	238.76	0.90	264.836	
300.00	300.00	298.52	298.43	0.85	0.80	-22.40	220.04	-90.70	238.12	236.47	1.65	144.344	
400.00	400.00	404.34	403.89	1.21	1.19	-20.67	218.32	-82.38	233.70	231.31	2.40	97.455	
500.00	500.00	506.47	505.19	1.57	1.59	-17.80	216.44	-69.49	227.77	224.62	3.15	72.238	
600.00	600.00	612.92	610.25	1.93	2.05	-13.94	212.71	-52.81	220.01	216.06	3.96	55.620	
700.00	699.98	711.45	706.87	2.28	2.51	-73.72	208.31	-34.08	211.18	206.42	4.76	44.393	
800.00	799.84	803.32	796.31	2.64	2.96	-69.46	205.88	-13.26	203.82	198.24	5.57	36.563	
900.00	899.45	891.27	881.45	3.00	3.42	-65.26	208.67	8.57	202.02	195.62	6.40	31.563	
933.25	932.50	925.80	914.81	3.12	3.61	-63.73	210.25	17.33	201.90	195.18	6.72	30.063	
1,000.00	998.70	995.21	981.88	3.37	3.98	-60.92	212.56	35.04	200.67	193.32	7.35	27.317	
1,100.00	1,097.47	1,095.35	1,078.56	3.76	4.54	-57.36	214.48	61.06	196.76	188.48	8.28	23.754	
1,200.00	1,195.62	1,194.30	1,173.84	4.18	5.10	-54.28	216.41	87.72	191.84	182.60	9.23	20.777	
1,300.00	1,293.06	1,291.82	1,267.93	4.63	5.65	-52.22	219.00	113.18	185.85	175.67	10.18	18.263	
1,400.00	1,389.64	1,385.26	1,358.29	5.11	6.18	-51.43	223.78	136.48	180.06	168.97	11.10	16.225	
1,500.00	1,485.27	1,484.90	1,454.32	5.63	6.74	-51.34	231.03	162.05	174.39	162.27	12.11	14.398	
1,600.00	1,579.82	1,583.39	1,549.16	6.20	7.30	-52.07	238.14	187.65	166.58	153.41	13.17	12.649	
1,700.00	1,673.17	1,679.81	1,641.73	6.83	7.86	-53.69	246.28	213.35	158.05	143.76	14.28	11.065	
1,800.00	1,765.21	1,779.84	1,737.90	7.51	8.44	-57.01	255.59	239.26	148.43	132.89	15.54	9.552	
1,900.00	1,855.84	1,879.09	1,833.55	8.24	9.01	-62.39	264.58	264.17	137.37	120.45	16.92	8.121	
2,000.00	1,944.94	1,980.32	1,931.50	9.05	9.57	-70.78	271.66	288.70	124.39	105.96	18.43	6.749	
2,100.00	2,032.39	2,076.68	2,024.91	9.91	10.11	-82.31	277.26	311.70	112.79	92.88	19.91	5.666	
2,200.00	2,118.11	2,171.97	2,117.08	10.85	10.64	-96.63	283.28	335.11	107.10	86.07	21.03	5.093	
2,216.15	2,131.78	2,187.25	2,131.84	11.01	10.73	-99.12	284.32	338.91	106.98	85.82	21.16	5.057 CC, ES, SF	
2,300.00	2,201.97	2,266.31	2,208.23	11.85	11.18	-112.31	289.86	358.51	110.63	89.20	21.43	5.162	
2,400.00	2,283.88	2,358.83	2,297.96	12.93	11.69	-127.46	295.47	380.37	125.28	104.13	21.16	5.921	
2,429.47	2,307.63	2,385.71	2,324.07	13.26	11.83	-131.44	297.00	386.54	131.80	110.76	21.04	6.264	
2,500.00	2,364.26	2,449.92	2,386.50	14.06	12.18	-139.84	300.74	401.10	150.33	129.48	20.85	7.209	
2,600.00	2,444.56	2,542.51	2,476.52	15.22	12.68	-148.82	306.41	422.01	181.01	160.10	20.91	8.657	
2,700.00	2,524.85	2,638.25	2,569.29	16.39	13.21	-155.79	310.92	445.24	213.15	191.93	21.22	10.044	
2,800.00	2,605.14	2,729.55	2,657.70	17.57	13.73	-160.97	314.15	467.76	247.09	225.39	21.70	11.385	
2,900.00	2,685.43	2,823.81	2,748.88	18.76	14.27	-164.91	318.15	491.36	282.00	259.65	22.35	12.620	
3,000.00	2,765.73	2,915.76	2,837.73	19.96	14.79	-168.06	321.36	514.78	317.58	294.52	23.06	13.773	
3,100.00	2,846.02	3,008.89	2,927.70	21.16	15.33	-170.72	324.09	538.69	353.82	329.98	23.84	14.842	
3,200.00	2,926.31	3,103.49	3,018.97	22.37	15.88	-172.79	327.81	563.31	389.98	365.30	24.68	15.802	
3,300.00	3,006.60	3,194.28	3,106.64	23.59	16.41	-174.19	332.96	586.30	426.55	401.03	25.52	16.714	
3,400.00	3,086.90	3,286.08	3,195.36	24.81	16.93	-175.29	338.81	609.16	463.46	437.08	26.38	17.570	
3,500.00	3,167.19	3,373.66	3,280.16	26.03	17.42	-176.16	344.45	630.30	501.15	473.94	27.21	18.418	
3,600.00	3,247.48	3,465.56	3,369.25	27.25	17.93	-176.95	350.16	652.11	539.37	511.29	28.08	19.210	
3,700.00	3,327.77	3,550.58	3,451.78	28.48	18.40	-177.68	354.36	672.13	578.30	549.40	28.90	20.011	
3,800.00	3,408.07	3,647.35	3,545.67	29.71	18.94	-178.54	357.98	695.26	617.48	587.64	29.84	20.696	
3,900.00	3,488.36	3,733.61	3,629.38	30.94	19.41	-179.19	361.38	715.79	656.75	626.06	30.68	21.404	
4,000.00	3,568.65	3,830.27	3,723.22	32.17	19.94	-179.82	365.39	738.62	696.17	664.54	31.63	22.011	
4,100.00	3,648.95	3,918.64	3,808.96	33.41	20.43	-179.65	368.91	759.74	735.47	702.97	32.50	22.628	
4,200.00	3,729.24	4,010.17	3,897.84	34.64	20.94	-179.18	372.79	781.23	775.08	741.68	33.41	23.202	
4,300.00	3,809.53	4,098.92	3,984.11	35.88	21.42	-178.84	377.27	801.57	814.86	780.59	34.27	23.775	
4,400.00	3,889.82	4,188.34	4,071.16	37.12	21.89	-178.60	382.55	821.35	854.97	819.83	35.14	24.331	
4,500.00	3,970.12	4,284.42	4,164.63	38.36	22.41	-178.31	387.46	843.04	895.05	858.97	36.08	24.811	
4,600.00	4,050.41	4,364.42	4,242.48	39.60	22.83	-178.12	391.96	860.85	935.21	898.36	36.86	25.375	
4,700.00	4,130.70	4,458.24	4,334.03	40.84	23.33	-177.91	396.71	880.83	976.42	938.65	37.77	25.854	
4,800.00	4,210.99	4,553.17	4,426.35	42.08	23.84	-177.61	400.43	902.60	1,016.75	978.04	38.71	26.267	

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,291.29	4,644.87	4,515.59	43.32	24.33	177.37	404.47	923.33	1,057.17	1,017.55	39.61	26.686		
5,000.00	4,371.58	4,735.01	4,603.31	44.57	24.81	177.17	408.72	943.62	1,097.54	1,057.04	40.50	27.097		
5,100.00	4,451.87	4,809.95	4,676.29	45.81	25.21	176.98	411.50	960.44	1,138.47	1,097.22	41.25	27.598		
5,200.00	4,532.16	4,874.39	4,739.25	47.05	25.54	176.79	412.56	974.10	1,181.29	1,139.40	41.89	28.200		
5,300.00	4,612.46	4,936.33	4,800.05	48.30	25.83	176.62	413.08	985.94	1,226.16	1,183.68	42.48	28.867		
5,400.00	4,692.75	5,001.14	4,863.94	49.54	26.13	176.48	413.55	996.80	1,272.93	1,229.86	43.07	29.554		
5,500.00	4,773.04	5,068.12	4,930.16	50.79	26.41	176.38	413.94	1,006.79	1,321.22	1,277.54	43.67	30.251		
5,600.00	4,853.34	5,137.56	4,998.98	52.03	26.69	176.30	414.27	1,016.10	1,370.73	1,326.44	44.29	30.946		
5,700.00	4,933.63	5,204.80	5,065.73	53.28	26.95	176.25	414.50	1,024.14	1,421.39	1,376.51	44.87	31.675		
5,800.00	5,013.92	5,266.88	5,127.47	54.53	27.18	176.22	414.66	1,030.61	1,473.27	1,427.89	45.38	32.465		
5,900.00	5,094.21	5,332.00	5,192.37	55.77	27.40	176.22	414.81	1,035.95	1,526.73	1,480.81	45.91	33.253		
6,000.00	5,174.51	5,384.30	5,244.57	57.02	27.56	176.25	414.92	1,039.24	1,581.53	1,535.26	46.27	34.182		
6,100.00	5,254.80	5,448.12	5,308.32	58.27	27.75	176.29	415.04	1,042.33	1,637.51	1,590.75	46.76	35.018		
6,200.00	5,335.09	5,518.12	5,378.26	59.52	27.95	176.35	415.11	1,045.06	1,694.23	1,646.90	47.33	35.797		
6,300.00	5,415.38	5,595.05	5,455.15	60.76	28.17	176.42	415.20	1,047.58	1,751.38	1,703.40	47.98	36.501		
6,400.00	5,495.68	5,661.53	5,521.61	62.01	28.35	176.49	415.40	1,049.33	1,808.95	1,760.45	48.50	37.296		
6,500.00	5,575.97	5,725.10	5,585.17	63.26	28.52	176.57	415.61	1,050.25	1,867.33	1,818.35	48.98	38.122		
6,600.00	5,656.26	5,790.75	5,650.82	64.51	28.69	176.66	415.77	1,050.59	1,926.41	1,876.92	49.48	38.930		
6,700.00	5,736.55	5,867.64	5,727.71	65.76	28.87	176.76	415.97	1,050.53	1,985.91	1,935.79	50.12	39.626		
6,800.00	5,816.85	5,945.03	5,805.10	67.01	29.06	176.86	416.27	1,050.32	2,045.50	1,994.75	50.75	40.305		
6,900.00	5,897.14	6,021.80	5,881.87	68.26	29.24	176.96	416.40	1,050.06	2,105.23	2,053.85	51.38	40.976		
7,000.00	5,977.43	6,098.86	5,958.93	69.50	29.42	177.05	416.60	1,049.62	2,165.08	2,113.07	52.01	41.630		
7,100.00	6,057.72	6,176.48	6,036.54	70.75	29.60	177.14	416.85	1,049.05	2,225.04	2,172.39	52.65	42.264		
7,200.00	6,138.02	6,255.23	6,115.29	72.00	29.78	177.23	417.00	1,048.45	2,285.06	2,231.76	53.30	42.871		
7,300.00	6,218.31	6,328.43	6,188.48	73.25	29.95	177.30	417.02	1,047.84	2,345.20	2,291.31	53.89	43.516		
7,400.00	6,298.60	6,401.92	6,261.97	74.50	30.12	177.38	417.10	1,046.93	2,405.60	2,351.11	54.49	44.148		
7,500.00	6,378.90	6,476.93	6,336.97	75.75	30.30	177.46	417.36	1,045.73	2,466.16	2,411.06	55.10	44.754		
7,600.00	6,459.19	6,552.72	6,412.74	77.00	30.47	177.54	417.54	1,044.42	2,526.86	2,471.13	55.73	45.340		
7,700.00	6,539.48	6,623.34	6,483.35	78.25	30.64	177.60	417.38	1,043.18	2,587.76	2,531.45	56.30	45.961		
7,800.00	6,619.77	6,715.88	6,575.88	79.50	30.86	177.67	416.89	1,041.70	2,648.67	2,591.55	57.13	46.366		
7,900.00	6,700.07	6,845.44	6,705.44	80.75	31.18	177.77	417.19	1,040.87	2,708.65	2,650.29	58.36	46.411		
8,000.00	6,780.36	6,946.22	6,806.22	82.00	31.46	177.84	417.85	1,041.56	2,767.49	2,708.19	59.30	46.671		
8,100.00	6,860.65	7,030.96	6,890.94	83.25	31.70	177.89	418.37	1,042.57	2,825.99	2,765.93	60.06	47.053		
8,200.00	6,940.94	7,111.59	6,971.57	84.50	31.93	177.93	418.98	1,043.51	2,884.46	2,823.68	60.78	47.459		
8,300.00	7,021.24	7,209.72	7,069.68	85.76	32.22	177.99	419.81	1,044.91	2,942.70	2,881.01	61.69	47.705		
8,400.00	7,101.53	7,290.15	7,150.10	87.01	32.45	178.03	420.53	1,046.28	3,000.73	2,938.33	62.41	48.085		
8,500.00	7,181.82	7,361.51	7,221.45	88.26	32.66	178.07	421.40	1,047.25	3,058.89	2,995.86	63.03	48.534		
8,605.60	7,266.61	7,426.72	7,286.65	89.58	32.85	178.11	422.45	1,047.68	3,120.69	3,057.12	63.57	49.092		
8,650.00	7,302.60	7,451.78	7,311.70	90.13	32.92	169.49	422.75	1,047.73	3,146.29	3,082.53	63.76	49.343		
8,700.00	7,343.78	7,484.00	7,343.92	90.72	33.01	159.61	423.03	1,047.71	3,173.78	3,109.77	64.01	49.581		
8,750.00	7,385.32	7,516.54	7,376.47	91.28	33.09	149.75	423.24	1,047.63	3,199.61	3,135.36	64.25	49.802		
8,800.00	7,426.92	7,553.93	7,413.85	91.81	33.19	140.21	423.45	1,047.49	3,223.56	3,159.04	64.52	49.964		
8,850.00	7,468.27	7,590.55	7,450.47	92.29	33.29	131.25	423.64	1,047.32	3,245.49	3,180.73	64.77	50.111		
8,900.00	7,509.04	7,625.72	7,485.64	92.72	33.39	123.07	423.83	1,047.08	3,265.32	3,200.34	64.98	50.247		
8,950.00	7,548.93	7,660.01	7,519.92	93.10	33.48	115.84	424.03	1,046.78	3,282.96	3,217.77	65.18	50.365		
9,000.00	7,587.63	7,697.22	7,557.14	93.43	33.58	109.62	424.25	1,046.40	3,298.32	3,232.92	65.40	50.431		
9,050.00	7,624.85	7,735.27	7,595.18	93.71	33.68	104.39	424.44	1,046.05	3,311.32	3,245.70	65.63	50.458		
9,100.00	7,660.30	7,771.61	7,631.52	93.93	33.77	100.04	424.57	1,045.74	3,321.94	3,256.11	65.83	50.464		
9,150.00	7,693.72	7,805.95	7,665.86	94.10	33.86	96.49	424.68	1,045.48	3,330.18	3,264.17	66.01	50.449		
9,200.00	7,724.85	7,837.98	7,697.89	94.23	33.95	93.66	424.77	1,045.25	3,336.05	3,269.87	66.17	50.413		
9,250.00	7,753.45	7,870.12	7,730.03	94.30	34.03	91.48	424.85	1,045.04	3,339.59	3,273.24	66.35	50.331		
9,300.00	7,779.31	7,905.19	7,765.10	94.34	34.13	89.94	424.98	1,044.87	3,340.81	3,274.23	66.58	50.177		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	7,936.15	7,796.06	94.33	34.21	88.89	425.14	1,044.80	3,339.77	3,272.98	66.79	50.007		
9,400.00	7,822.03	7,962.74	7,822.65	94.28	34.29	88.26	425.33	1,044.78	3,336.55	3,269.58	66.97	49.820		
9,450.00	7,838.57	7,983.82	7,843.73	94.20	34.35	87.99	425.49	1,044.80	3,331.26	3,264.13	67.13	49.621		
9,500.00	7,851.72	8,000.65	7,860.55	94.10	34.40	88.08	425.64	1,044.84	3,324.00	3,256.71	67.28	49.402		
9,550.00	7,861.37	8,012.79	7,872.70	93.96	34.43	88.48	425.75	1,044.87	3,314.85	3,247.42	67.43	49.163		
9,600.00	7,867.46	8,020.18	7,880.09	93.81	34.45	89.19	425.82	1,044.90	3,303.91	3,236.35	67.56	48.905		
9,650.00	7,869.94	8,022.79	7,882.69	93.64	34.46	90.18	425.85	1,044.91	3,291.28	3,223.59	67.69	48.626		
9,659.14	7,870.00	8,022.75	7,882.65	93.60	34.46	90.39	425.85	1,044.91	3,288.79	3,221.08	67.71	48.572		
9,700.00	7,870.00	8,022.22	7,882.12	93.46	34.46	90.38	425.84	1,044.91	3,277.79	3,209.97	67.82	48.332		
9,800.00	7,870.00	8,020.93	7,880.83	93.11	34.46	90.36	425.83	1,044.90	3,252.88	3,184.73	68.15	47.730		
9,900.00	7,870.00	8,019.65	7,879.56	92.77	34.45	90.34	425.82	1,044.90	3,230.87	3,162.29	68.58	47.112		
10,000.00	7,870.00	8,018.39	7,878.30	92.46	34.45	90.31	425.80	1,044.89	3,211.83	3,142.73	69.10	46.483		
10,100.00	7,870.00	8,017.15	7,877.05	92.16	34.45	90.29	425.79	1,044.89	3,195.80	3,126.10	69.71	45.847		
10,200.00	7,870.00	8,015.91	7,875.82	91.87	34.44	90.27	425.78	1,044.88	3,182.84	3,112.44	70.40	45.211		
10,300.00	7,870.00	8,014.69	7,874.60	91.60	34.44	90.25	425.77	1,044.88	3,172.97	3,101.80	71.17	44.581		
10,400.00	7,870.00	8,013.48	7,873.39	91.34	34.44	90.22	425.76	1,044.88	3,166.24	3,094.22	72.02	43.962		
10,500.00	7,870.00	8,012.29	7,872.19	91.11	34.43	90.20	425.74	1,044.87	3,162.65	3,089.71	72.94	43.362		
10,563.53	7,870.00	8,011.54	7,871.44	90.96	34.43	90.19	425.74	1,044.87	3,162.01	3,088.46	73.56	42.988		
10,600.00	7,870.00	8,011.11	7,871.01	90.88	34.43	90.18	425.73	1,044.87	3,162.22	3,088.31	73.91	42.786		
10,700.00	7,870.00	8,009.94	7,869.84	90.67	34.43	90.16	425.72	1,044.86	3,164.96	3,090.02	74.93	42.239		
10,800.00	7,870.00	8,008.78	7,868.68	90.48	34.42	90.14	425.71	1,044.86	3,170.84	3,094.85	75.99	41.725		
10,900.00	7,870.00	8,007.63	7,867.54	90.31	34.42	90.12	425.70	1,044.86	3,179.86	3,102.77	77.09	41.249		
11,000.00	7,870.00	8,006.50	7,866.40	90.15	34.42	90.10	425.69	1,044.85	3,191.99	3,113.78	78.21	40.813		
11,100.00	7,870.00	8,005.37	7,865.28	90.00	34.41	90.08	425.68	1,044.85	3,207.19	3,127.85	79.35	40.420		
11,200.00	7,870.00	8,004.26	7,864.17	89.88	34.41	90.06	425.67	1,044.85	3,225.43	3,144.94	80.49	40.072		
11,300.00	7,870.00	8,003.16	7,863.07	89.77	34.41	90.04	425.66	1,044.84	3,246.64	3,165.00	81.63	39.771		
11,400.00	7,870.00	8,002.07	7,861.98	89.68	34.40	90.02	425.65	1,044.84	3,270.77	3,188.00	82.77	39.515		
11,500.00	7,870.00	8,000.99	7,860.90	89.60	34.40	90.00	425.64	1,044.84	3,297.76	3,213.86	83.90	39.307		
11,600.00	7,870.00	7,999.93	7,859.83	89.55	34.40	89.98	425.63	1,044.83	3,327.53	3,242.53	85.01	39.145		
11,700.00	7,870.00	7,998.87	7,858.78	89.52	34.39	89.96	425.62	1,044.83	3,360.02	3,273.93	86.09	39.029		
11,800.00	7,870.00	7,997.82	7,857.73	89.50	34.39	89.94	425.61	1,044.83	3,395.15	3,308.00	87.15	38.958		
11,900.00	7,870.00	7,996.79	7,856.69	89.51	34.39	89.92	425.60	1,044.83	3,432.83	3,344.65	88.18	38.930		
12,000.00	7,870.00	7,995.76	7,855.67	89.54	34.38	89.90	425.59	1,044.82	3,472.98	3,383.80	89.18	38.945		
12,100.00	7,870.00	7,994.75	7,854.65	89.59	34.38	89.88	425.58	1,044.82	3,515.51	3,425.37	90.14	39.002		
12,200.00	7,870.00	7,993.74	7,853.65	89.66	34.38	89.87	425.58	1,044.82	3,560.35	3,469.29	91.06	39.097		
12,300.00	7,870.00	7,992.74	7,852.65	89.77	34.38	89.85	425.57	1,044.82	3,607.40	3,515.45	91.95	39.231		
12,400.00	7,870.00	7,991.76	7,851.66	89.89	34.37	89.83	425.56	1,044.81	3,656.58	3,563.78	92.80	39.401		
12,500.00	7,870.00	7,990.78	7,850.68	90.05	34.37	89.81	425.55	1,044.81	3,707.81	3,614.19	93.62	39.606		
12,600.00	7,870.00	7,989.81	7,849.72	90.24	34.37	89.80	425.54	1,044.81	3,761.00	3,666.61	94.39	39.844		
12,700.00	7,870.00	7,988.85	7,848.76	90.46	34.36	89.78	425.53	1,044.81	3,816.07	3,720.94	95.13	40.114		
12,800.00	7,870.00	7,987.90	7,847.81	90.71	34.36	89.76	425.53	1,044.81	3,872.94	3,777.10	95.83	40.413		
12,900.00	7,870.00	7,986.96	7,846.87	90.99	34.36	89.74	425.52	1,044.81	3,931.52	3,835.03	96.50	40.742		
13,000.00	7,870.00	7,986.03	7,845.93	91.32	34.36	89.73	425.51	1,044.80	3,991.76	3,894.63	97.13	41.097		
13,100.00	7,870.00	7,985.10	7,845.01	91.68	34.35	89.71	425.50	1,044.80	4,053.56	3,955.84	97.73	41.478		
13,200.00	7,870.00	7,984.19	7,844.09	92.08	34.35	89.69	425.49	1,044.80	4,116.87	4,018.58	98.29	41.884		
13,300.00	7,870.00	7,983.28	7,843.19	92.52	34.35	89.68	425.49	1,044.80	4,181.61	4,082.79	98.83	42.313		
13,400.00	7,870.00	7,982.38	7,842.29	93.00	34.35	89.66	425.48	1,044.80	4,247.72	4,148.39	99.33	42.764		
13,500.00	7,870.00	7,981.49	7,841.40	93.53	34.34	89.64	425.47	1,044.80	4,315.13	4,215.33	99.80	43.236		
13,600.00	7,870.00	7,980.61	7,840.52	94.10	34.34	89.63	425.46	1,044.80	4,383.79	4,283.54	100.25	43.728		
13,700.00	7,870.00	7,979.73	7,839.64	94.72	34.34	89.61	425.46	1,044.79	4,453.63	4,352.96	100.67	44.238		
13,800.00	7,870.00	7,978.87	7,838.77	95.38	34.34	89.60	425.45	1,044.79	4,524.61	4,423.54	101.07	44.767		
13,900.00	7,870.00	7,978.01	7,837.92	96.09	34.33	89.58	425.44	1,044.79	4,596.66	4,495.22	101.45	45.312		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,977.16	7,837.06	96.84	34.33	89.57	425.44	1,044.79	4,669.75	4,567.95	101.80	45.873		
14,100.00	7,870.00	7,976.31	7,836.22	97.64	34.33	89.55	425.43	1,044.79	4,743.82	4,641.69	102.13	46.449		
14,200.00	7,870.00	7,975.48	7,835.38	98.48	34.33	89.54	425.42	1,044.79	4,818.82	4,716.38	102.44	47.040		
14,300.00	7,870.00	7,974.65	7,834.56	99.37	34.32	89.52	425.42	1,044.79	4,894.72	4,791.98	102.74	47.644		
14,400.00	7,870.00	7,973.83	7,833.73	100.30	34.32	89.51	425.41	1,044.79	4,971.47	4,868.46	103.01	48.261		
14,500.00	7,870.00	7,973.01	7,832.92	101.26	34.32	89.49	425.40	1,044.79	5,049.03	4,945.76	103.27	48.891		
14,600.00	7,870.00	7,972.21	7,832.11	102.27	34.32	89.48	425.40	1,044.79	5,127.37	5,023.86	103.52	49.532		
14,700.00	7,870.00	7,971.40	7,831.31	103.31	34.31	89.46	425.39	1,044.78	5,206.45	5,102.71	103.75	50.185		
14,800.00	7,870.00	7,970.61	7,830.52	104.38	34.31	89.45	425.38	1,044.78	5,286.25	5,182.28	103.96	50.848		
14,900.00	7,870.00	7,969.82	7,829.73	105.49	34.31	89.43	425.38	1,044.78	5,366.71	5,262.55	104.17	51.521		
15,000.00	7,870.00	7,969.04	7,828.95	106.63	34.31	89.42	425.37	1,044.78	5,447.83	5,343.47	104.36	52.203		
15,100.00	7,870.00	7,968.27	7,828.18	107.80	34.31	89.41	425.37	1,044.78	5,529.56	5,425.02	104.54	52.895		
15,200.00	7,870.00	7,967.50	7,827.41	109.00	34.30	89.39	425.36	1,044.78	5,611.89	5,507.18	104.71	53.595		
15,300.00	7,870.00	7,966.74	7,826.65	110.22	34.30	89.38	425.36	1,044.78	5,694.78	5,589.91	104.87	54.303		
15,400.00	7,870.00	7,965.99	7,825.90	111.47	34.30	89.36	425.35	1,044.78	5,778.21	5,673.19	105.02	55.019		
15,500.00	7,870.00	7,965.24	7,825.15	112.74	34.30	89.35	425.34	1,044.78	5,862.16	5,757.00	105.16	55.743		
15,600.00	7,870.00	7,964.50	7,824.41	114.03	34.29	89.34	425.34	1,044.78	5,946.61	5,841.31	105.30	56.474		
15,700.00	7,870.00	7,963.76	7,823.67	115.34	34.29	89.32	425.33	1,044.78	6,031.53	5,926.11	105.43	57.211		
15,800.00	7,870.00	7,963.04	7,822.94	116.68	34.29	89.31	425.33	1,044.78	6,116.91	6,011.36	105.55	57.955		
15,900.00	7,870.00	7,962.31	7,822.22	118.02	34.29	89.30	425.32	1,044.78	6,202.72	6,097.07	105.66	58.705		
16,000.00	7,870.00	7,961.59	7,821.50	119.39	34.29	89.28	425.32	1,044.78	6,288.96	6,183.19	105.77	59.461		
16,100.00	7,870.00	7,960.88	7,820.79	120.77	34.28	89.27	425.31	1,044.78	6,375.59	6,269.73	105.87	60.223		
16,200.00	7,870.00	7,960.18	7,820.08	122.17	34.28	89.26	425.31	1,044.78	6,462.62	6,356.65	105.96	60.989		
16,300.00	7,870.00	7,959.48	7,819.38	123.58	34.28	89.25	425.30	1,044.78	6,550.01	6,443.96	106.05	61.761		
16,400.00	7,870.00	7,958.78	7,818.69	125.00	34.28	89.23	425.30	1,044.78	6,637.76	6,531.62	106.14	62.538		
16,500.00	7,870.00	7,958.09	7,818.00	126.43	34.28	89.22	425.29	1,044.78	6,725.85	6,619.63	106.22	63.319		
16,600.00	7,870.00	7,957.41	7,817.32	127.88	34.27	89.21	425.29	1,044.78	6,814.27	6,707.97	106.30	64.104		
16,700.00	7,870.00	7,956.73	7,816.64	129.34	34.27	89.20	425.28	1,044.78	6,903.00	6,796.63	106.37	64.894		
16,800.00	7,870.00	7,956.06	7,815.97	130.81	34.27	89.18	425.28	1,044.78	6,992.04	6,885.60	106.44	65.688		
16,900.00	7,870.00	7,955.39	7,815.30	132.28	34.27	89.17	425.27	1,044.78	7,081.37	6,974.86	106.51	66.485		
17,000.00	7,870.00	7,954.73	7,814.64	133.77	34.27	89.16	425.27	1,044.78	7,170.99	7,064.41	106.57	67.287		
17,100.00	7,870.00	7,954.07	7,813.98	135.27	34.26	89.15	425.26	1,044.78	7,260.87	7,154.24	106.63	68.091		
17,200.00	7,870.00	7,953.42	7,813.33	136.77	34.26	89.14	425.26	1,044.78	7,351.02	7,244.32	106.69	68.899		
17,300.00	7,870.00	7,952.77	7,812.68	138.28	34.26	89.12	425.25	1,044.78	7,441.41	7,334.67	106.75	69.710		
17,400.00	7,870.00	7,952.13	7,812.04	139.80	34.26	89.11	425.25	1,044.78	7,532.05	7,425.25	106.80	70.524		
17,500.00	7,870.00	7,951.51	7,811.42	141.33	34.26	89.10	425.24	1,044.78	7,622.93	7,516.08	106.85	71.341		
17,600.00	7,870.00	7,950.91	7,810.82	142.86	34.26	89.09	425.24	1,044.78	7,714.03	7,607.13	106.90	72.161		
17,700.00	7,870.00	7,950.31	7,810.21	144.40	34.25	89.08	425.24	1,044.78	7,805.35	7,698.40	106.95	72.983		
17,800.00	7,870.00	7,949.71	7,809.62	145.95	34.25	89.07	425.23	1,044.78	7,896.87	7,789.88	106.99	73.808		
17,900.00	7,870.00	7,949.12	7,809.03	147.50	34.25	89.06	425.23	1,044.78	7,988.61	7,881.57	107.04	74.635		
18,000.00	7,870.00	7,948.53	7,808.44	149.06	34.25	89.05	425.22	1,044.78	8,080.53	7,973.46	107.08	75.464		
18,100.00	7,870.00	7,947.95	7,807.86	150.63	34.25	89.04	425.22	1,044.78	8,172.65	8,065.53	107.12	76.295		
18,200.00	7,870.00	7,947.38	7,807.28	152.20	34.25	89.03	425.22	1,044.78	8,264.95	8,157.79	107.16	77.129		
18,300.00	7,870.00	7,946.80	7,806.71	153.77	34.24	89.02	425.21	1,044.78	8,357.43	8,250.23	107.20	77.964		
18,400.00	7,870.00	7,946.24	7,806.15	155.35	34.24	89.01	425.21	1,044.78	8,450.08	8,342.84	107.23	78.801		
18,500.00	7,870.00	7,945.68	7,805.58	156.93	34.24	89.00	425.20	1,044.78	8,542.89	8,435.62	107.27	79.640		
18,600.00	7,870.00	7,945.12	7,805.03	158.52	34.24	88.99	425.20	1,044.79	8,635.86	8,528.56	107.30	80.481		
18,700.00	7,870.00	7,944.57	7,804.48	160.11	34.24	88.98	425.20	1,044.79	8,728.99	8,621.66	107.34	81.323		
18,800.00	7,870.00	7,944.02	7,803.93	161.71	34.24	88.97	425.19	1,044.79	8,822.27	8,714.90	107.37	82.167		
18,900.00	7,870.00	7,943.48	7,803.39	163.31	34.23	88.96	425.19	1,044.79	8,915.70	8,808.30	107.40	83.012		
19,000.00	7,870.00	7,942.94	7,802.85	164.91	34.23	88.95	425.19	1,044.79	9,009.27	8,901.83	107.43	83.858		
19,100.00	7,870.00	7,942.40	7,802.31	166.52	34.23	88.94	425.18	1,044.79	9,102.97	8,995.51	107.47	84.706		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,870.00	7,941.88	7,801.78	168.13	34.23	88.93	425.18	1,044.79	9,196.81	9,089.31	107.50	85.554	
19,300.00	7,870.00	7,941.35	7,801.26	169.75	34.23	88.92	425.18	1,044.79	9,290.77	9,183.25	107.53	86.404	
19,383.51	7,870.00	7,940.91	7,800.82	171.10	34.23	88.91	425.17	1,044.79	9,369.34	9,261.78	107.55	87.115	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	68.18	1,835.16	4,583.88	9,350.45					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.18	1,835.16	4,583.88	9,265.68	9,177.50	88.18	105.076		
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.18	1,835.16	4,583.88	9,181.22	9,092.63	88.59	103.636		
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.18	1,835.16	4,583.88	9,097.07	9,008.04	89.03	102.177		
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.18	1,835.16	4,583.88	9,013.25	8,923.74	89.51	100.700		
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.18	1,835.16	4,583.88	8,929.75	8,839.75	90.01	99.210		
600.00	600.00	15,353.00	7,799.48	1.93	138.96	68.18	1,835.16	4,583.88	8,846.61	8,756.06	90.54	97.709		
700.00	699.98	15,353.00	7,799.48	2.28	138.96	4.60	1,835.16	4,583.88	8,762.84	8,671.74	91.10	96.187		
800.00	799.84	15,353.00	7,799.48	2.64	138.96	4.87	1,835.16	4,583.88	8,677.55	8,585.88	91.68	94.655		
900.00	899.45	15,353.00	7,799.48	3.00	138.96	5.18	1,835.16	4,583.88	8,590.78	8,498.55	92.24	93.138		
1,000.00	998.70	15,353.00	7,799.48	3.37	138.96	5.53	1,835.16	4,583.88	8,502.61	8,409.82	92.79	91.636		
1,100.00	1,097.47	15,353.00	7,799.48	3.76	138.96	5.93	1,835.16	4,583.88	8,413.08	8,319.76	93.32	90.154		
1,200.00	1,195.62	15,353.00	7,799.48	4.18	138.96	6.39	1,835.16	4,583.88	8,322.28	8,228.45	93.83	88.691		
1,300.00	1,293.06	15,353.00	7,799.48	4.63	138.96	6.94	1,835.16	4,583.88	8,230.27	8,135.94	94.33	87.250		
1,400.00	1,389.64	15,353.00	7,799.48	5.11	138.96	7.58	1,835.16	4,583.88	8,137.13	8,042.32	94.80	85.831		
1,500.00	1,485.27	15,353.00	7,799.48	5.63	138.96	8.36	1,835.16	4,583.88	8,042.92	7,947.67	95.25	84.436		
1,600.00	1,579.82	15,353.00	7,799.48	6.20	138.96	9.32	1,835.16	4,583.88	7,947.74	7,852.05	95.68	83.065		
1,700.00	1,673.17	15,353.00	7,799.48	6.83	138.96	10.51	1,835.16	4,583.88	7,851.65	7,755.57	96.08	81.719		
1,800.00	1,765.21	15,353.00	7,799.48	7.51	138.96	12.04	1,835.16	4,583.88	7,754.76	7,658.31	96.45	80.400		
1,900.00	1,855.84	15,353.00	7,799.48	8.24	138.96	14.08	1,835.16	4,583.88	7,657.14	7,560.35	96.79	79.107		
2,000.00	1,944.94	15,353.00	7,799.48	9.05	138.96	16.90	1,835.16	4,583.88	7,558.90	7,461.79	97.10	77.843		
2,100.00	2,032.39	15,353.00	7,799.48	9.91	138.96	21.02	1,835.16	4,583.88	7,460.12	7,362.74	97.38	76.607		
2,200.00	2,118.11	15,353.00	7,799.48	10.85	138.96	27.52	1,835.16	4,583.88	7,360.91	7,263.29	97.62	75.401		
2,300.00	2,201.97	15,353.00	7,799.48	11.85	138.96	38.82	1,835.16	4,583.88	7,261.38	7,163.55	97.83	74.225		
2,400.00	2,283.88	15,353.00	7,799.48	12.93	138.96	60.14	1,835.16	4,583.88	7,161.63	7,063.63	98.00	73.081		
2,429.47	2,307.63	15,353.00	7,799.48	13.26	138.96	69.27	1,835.16	4,583.88	7,132.21	7,034.17	98.04	72.749		
2,500.00	2,364.26	15,353.00	7,799.48	14.06	138.96	69.27	1,835.16	4,583.88	7,061.79	6,963.66	98.13	71.960		
2,600.00	2,444.56	15,353.00	7,799.48	15.22	138.96	69.27	1,835.16	4,583.88	6,961.96	6,863.68	98.28	70.841		
2,700.00	2,524.85	15,353.00	7,799.48	16.39	138.96	69.27	1,835.16	4,583.88	6,862.12	6,763.70	98.42	69.722		
2,800.00	2,605.14	15,353.00	7,799.48	17.57	138.96	69.27	1,835.16	4,583.88	6,762.30	6,663.72	98.57	68.601		
2,900.00	2,685.43	15,353.00	7,799.48	18.76	138.96	69.27	1,835.16	4,583.88	6,662.48	6,563.75	98.73	67.481		
3,000.00	2,765.73	15,353.00	7,799.48	19.96	138.96	69.27	1,835.16	4,583.88	6,562.66	6,463.77	98.90	66.360		
3,100.00	2,846.02	15,353.00	7,799.48	21.16	138.96	69.27	1,835.16	4,583.88	6,462.85	6,363.79	99.07	65.238		
3,200.00	2,926.31	15,353.00	7,799.48	22.37	138.96	69.27	1,835.16	4,583.88	6,363.05	6,263.81	99.24	64.117		
3,300.00	3,006.60	15,353.00	7,799.48	23.59	138.96	69.27	1,835.16	4,583.88	6,263.25	6,163.83	99.42	62.996		
3,400.00	3,086.90	15,353.00	7,799.48	24.81	138.96	69.27	1,835.16	4,583.88	6,163.46	6,063.85	99.61	61.875		
3,500.00	3,167.19	15,353.00	7,799.48	26.03	138.96	69.27	1,835.16	4,583.88	6,063.67	5,963.87	99.81	60.755		
3,600.00	3,247.48	15,353.00	7,799.48	27.25	138.96	69.27	1,835.16	4,583.88	5,963.90	5,863.89	100.01	59.635		
3,700.00	3,327.77	15,353.00	7,799.48	28.48	138.96	69.27	1,835.16	4,583.88	5,864.13	5,763.91	100.22	58.515		
3,800.00	3,408.07	15,353.00	7,799.48	29.71	138.96	69.27	1,835.16	4,583.88	5,764.37	5,663.94	100.43	57.397		
3,900.00	3,488.36	15,353.00	7,799.48	30.94	138.96	69.27	1,835.16	4,583.88	5,664.61	5,563.96	100.65	56.279		
4,000.00	3,568.65	15,353.00	7,799.48	32.17	138.96	69.27	1,835.16	4,583.88	5,564.87	5,463.99	100.88	55.162		
4,100.00	3,648.95	15,353.00	7,799.48	33.41	138.96	69.27	1,835.16	4,583.88	5,465.14	5,364.02	101.12	54.046		
4,200.00	3,729.24	15,353.00	7,799.48	34.64	138.96	69.27	1,835.16	4,583.88	5,365.41	5,264.04	101.37	52.931		
4,300.00	3,809.53	15,353.00	7,799.48	35.88	138.96	69.27	1,835.16	4,583.88	5,265.70	5,164.08	101.62	51.817		
4,400.00	3,889.82	15,353.00	7,799.48	37.12	138.96	69.27	1,835.16	4,583.88	5,165.99	5,064.11	101.88	50.705		
4,500.00	3,970.12	15,353.00	7,799.48	38.36	138.96	69.27	1,835.16	4,583.88	5,066.30	4,964.15	102.15	49.594		
4,600.00	4,050.41	15,353.00	7,799.48	39.60	138.96	69.27	1,835.16	4,583.88	4,966.62	4,864.19	102.44	48.485		
4,700.00	4,130.70	15,353.00	7,799.48	40.84	138.96	69.27	1,835.16	4,583.88	4,866.96	4,764.23	102.73	47.378		
4,800.00	4,210.99	15,353.00	7,799.48	42.08	138.96	69.27	1,835.16	4,583.88	4,767.30	4,664.28	103.03	46.272		
4,900.00	4,291.29	15,353.00	7,799.48	43.32	138.96	69.27	1,835.16	4,583.88	4,667.67	4,564.33	103.34	45.168		
5,000.00	4,371.58	15,353.00	7,799.48	44.57	138.96	69.27	1,835.16	4,583.88	4,568.05	4,464.38	103.66	44.065		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	15,353.00	7,799.48	45.81	138.96	69.27	1,835.16	4,583.88	4,468.44	4,364.44	104.00	42.965		
5,200.00	4,532.16	15,353.00	7,799.48	47.05	138.96	69.27	1,835.16	4,583.88	4,368.86	4,264.51	104.35	41.867		
5,300.00	4,612.46	15,353.00	7,799.48	48.30	138.96	69.27	1,835.16	4,583.88	4,269.29	4,164.58	104.71	40.771		
5,400.00	4,692.75	15,353.00	7,799.48	49.54	138.96	69.27	1,835.16	4,583.88	4,169.74	4,064.65	105.09	39.678		
5,500.00	4,773.04	15,353.00	7,799.48	50.79	138.96	69.27	1,835.16	4,583.88	4,070.22	3,964.74	105.48	38.587		
5,600.00	4,853.34	15,353.00	7,799.48	52.03	138.96	69.27	1,835.16	4,583.88	3,970.72	3,864.83	105.89	37.498		
5,700.00	4,933.63	15,353.00	7,799.48	53.28	138.96	69.27	1,835.16	4,583.88	3,871.24	3,764.92	106.32	36.412		
5,800.00	5,013.92	15,353.00	7,799.48	54.53	138.96	69.27	1,835.16	4,583.88	3,771.80	3,665.03	106.76	35.328		
5,900.00	5,094.21	15,353.00	7,799.48	55.77	138.96	69.27	1,835.16	4,583.88	3,672.38	3,565.15	107.23	34.247		
6,000.00	5,174.51	15,353.00	7,799.48	57.02	138.96	69.27	1,835.16	4,583.88	3,573.00	3,465.28	107.72	33.169		
6,100.00	5,254.80	15,353.00	7,799.48	58.27	138.96	69.27	1,835.16	4,583.88	3,473.65	3,365.42	108.23	32.094		
6,200.00	5,335.09	15,353.00	7,799.48	59.52	138.96	69.27	1,835.16	4,583.88	3,374.34	3,265.57	108.77	31.022		
6,300.00	5,415.38	15,353.00	7,799.48	60.76	138.96	69.27	1,835.16	4,583.88	3,275.07	3,165.73	109.34	29.954		
6,400.00	5,495.68	15,353.00	7,799.48	62.01	138.96	69.27	1,835.16	4,583.88	3,175.85	3,065.91	109.93	28.888		
6,500.00	5,575.97	15,353.00	7,799.48	63.26	138.96	69.27	1,835.16	4,583.88	3,076.68	2,966.11	110.57	27.827		
6,600.00	5,656.26	15,353.00	7,799.48	64.51	138.96	69.27	1,835.16	4,583.88	2,977.56	2,866.33	111.23	26.768		
6,700.00	5,736.55	15,353.00	7,799.48	65.76	138.96	69.27	1,835.16	4,583.88	2,878.50	2,766.56	111.94	25.714		
6,800.00	5,816.85	15,353.00	7,799.48	67.01	138.96	69.27	1,835.16	4,583.88	2,779.52	2,666.82	112.70	24.664		
6,900.00	5,897.14	15,353.00	7,799.48	68.26	138.96	69.27	1,835.16	4,583.88	2,680.60	2,567.10	113.50	23.617		
7,000.00	5,977.43	15,353.00	7,799.48	69.50	138.96	69.27	1,835.16	4,583.88	2,581.78	2,467.41	114.36	22.576		
7,100.00	6,057.72	15,353.00	7,799.48	70.75	138.96	69.27	1,835.16	4,583.88	2,483.04	2,367.76	115.28	21.539		
7,200.00	6,138.02	15,353.00	7,799.48	72.00	138.96	69.27	1,835.16	4,583.88	2,384.41	2,268.14	116.28	20.507		
7,300.00	6,218.31	15,353.00	7,799.48	73.25	138.96	69.27	1,835.16	4,583.88	2,285.90	2,168.55	117.35	19.480		
7,400.00	6,298.60	15,353.00	7,799.48	74.50	138.96	69.27	1,835.16	4,583.88	2,187.53	2,069.02	118.51	18.459		
7,500.00	6,378.90	15,353.00	7,799.48	75.75	138.96	69.27	1,835.16	4,583.88	2,089.30	1,969.54	119.77	17.445		
7,600.00	6,459.19	15,353.00	7,799.48	77.00	138.96	69.27	1,835.16	4,583.88	1,991.26	1,870.12	121.15	16.437		
7,700.00	6,539.48	15,353.00	7,799.48	78.25	138.96	69.27	1,835.16	4,583.88	1,893.42	1,770.77	122.66	15.437		
7,800.00	6,619.77	15,353.00	7,799.48	79.50	138.96	69.27	1,835.16	4,583.88	1,795.82	1,671.50	124.32	14.445		
7,900.00	6,700.07	15,353.00	7,799.48	80.75	138.96	69.27	1,835.16	4,583.88	1,698.50	1,572.34	126.16	13.463		
8,000.00	6,780.36	15,353.00	7,799.48	82.00	138.96	69.27	1,835.16	4,583.88	1,601.51	1,473.30	128.21	12.491		
8,100.00	6,860.65	15,353.00	7,799.48	83.25	138.96	69.27	1,835.16	4,583.88	1,504.91	1,374.41	130.50	11.532		
8,200.00	6,940.94	15,353.00	7,799.48	84.50	138.96	69.27	1,835.16	4,583.88	1,408.79	1,275.70	133.08	10.586		
8,300.00	7,021.24	15,353.00	7,799.48	85.76	138.96	69.27	1,835.16	4,583.88	1,313.24	1,177.24	136.01	9.656		
8,400.00	7,101.53	15,353.00	7,799.48	87.01	138.96	69.27	1,835.16	4,583.88	1,218.41	1,079.08	139.34	8.744		
8,500.00	7,181.82	15,335.74	7,799.63	88.26	138.66	67.65	1,852.42	4,583.60	1,124.35	982.46	141.89	7.924		
8,605.60	7,266.61	15,308.15	7,799.88	89.58	138.18	64.85	1,880.01	4,583.14	1,025.56	881.27	144.29	7.108		
8,650.00	7,302.60	15,298.21	7,799.97	90.13	138.00	48.13	1,889.94	4,582.98	983.82	838.38	145.45	6.764		
8,700.00	7,343.78	15,292.17	7,800.03	90.72	137.90	26.22	1,895.98	4,582.88	936.31	789.31	146.99	6.370		
8,750.00	7,385.32	15,289.75	7,800.05	91.28	137.86	2.69	1,898.40	4,582.84	888.62	739.97	148.64	5.978		
8,800.00	7,426.92	15,291.02	7,800.04	91.81	137.88	-19.51	1,897.13	4,582.86	841.16	690.75	150.41	5.593		
8,850.00	7,468.27	15,300.27	7,800.00	92.29	138.04	-38.46	1,892.42	4,582.94	794.34	642.02	152.32	5.215		
8,900.00	7,509.04	15,305.94	7,799.90	92.72	138.14	-53.50	1,882.21	4,583.10	748.58	594.18	154.39	4.848		
8,950.00	7,548.93	15,320.37	7,799.77	93.10	138.39	-65.37	1,867.78	4,583.34	704.28	547.55	156.72	4.494		
9,000.00	7,587.63	15,338.92	7,799.60	93.43	138.71	-74.69	1,849.24	4,583.65	661.82	502.59	159.24	4.156		
9,050.00	7,624.85	15,353.00	7,799.48	93.71	138.96	-82.72	1,835.16	4,583.88	621.64	460.77	160.87	3.864		
9,100.00	7,660.30	15,353.00	7,799.48	93.93	138.96	-90.28	1,835.16	4,583.88	584.95	424.75	160.20	3.651		
9,150.00	7,693.72	15,353.00	7,799.48	94.10	138.96	-96.24	1,835.16	4,583.88	552.91	394.13	158.79	3.482		
9,200.00	7,724.85	15,353.00	7,799.48	94.23	138.96	-100.89	1,835.16	4,583.88	526.66	369.86	156.80	3.359		
9,250.00	7,753.45	15,353.00	7,799.48	94.30	138.96	-104.45	1,835.16	4,583.88	507.30	352.58	154.72	3.279		
9,300.00	7,779.31	15,353.00	7,799.48	94.34	138.96	-107.07	1,835.16	4,583.88	495.79	342.60	153.20	3.236		
9,342.37	7,798.93	15,353.00	7,799.48	94.33	138.96	-108.63	1,835.16	4,583.88	492.67	340.11	152.56	3.229 CC, ES, SF		
9,350.00	7,802.23	15,353.00	7,799.48	94.33	138.96	-108.85	1,835.16	4,583.88	492.78	340.28	152.50	3.231		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	15,353.00	7,799.48	94.28	138.96	-109.84	1,835.16	4,583.88	498.43	346.17	152.26	3.274		
9,450.00	7,838.57	15,353.00	7,799.48	94.20	138.96	-110.05	1,835.16	4,583.88	512.42	360.50	151.92	3.373		
9,500.00	7,851.72	15,353.00	7,799.48	94.10	138.96	-109.45	1,835.16	4,583.88	534.00	382.82	151.17	3.532		
9,550.00	7,861.37	15,353.00	7,799.48	93.96	138.96	-107.95	1,835.16	4,583.88	562.13	412.14	149.99	3.748		
9,600.00	7,867.46	15,353.00	7,799.48	93.81	138.96	-105.41	1,835.16	4,583.88	595.70	447.20	148.51	4.011		
9,650.00	7,869.94	15,353.00	7,799.48	93.64	138.96	-101.58	1,835.16	4,583.88	633.61	486.71	146.90	4.313		
9,659.14	7,870.00	15,353.00	7,799.48	93.60	138.96	-100.72	1,835.16	4,583.88	640.93	494.32	146.60	4.372		
9,700.00	7,870.00	15,353.00	7,799.48	93.46	138.96	-100.72	1,835.16	4,583.88	674.32	529.02	145.30	4.641		
9,800.00	7,870.00	15,353.00	7,799.48	93.11	138.96	-100.72	1,835.16	4,583.88	759.13	616.80	142.33	5.334		
9,900.00	7,870.00	15,353.00	7,799.48	92.77	138.96	-100.72	1,835.16	4,583.88	847.25	707.55	139.70	6.065		
10,000.00	7,870.00	15,353.00	7,799.48	92.46	138.96	-100.72	1,835.16	4,583.88	937.77	800.33	137.44	6.823		
10,100.00	7,870.00	15,353.00	7,799.48	92.16	138.96	-100.72	1,835.16	4,583.88	1,030.04	894.54	135.50	7.602		
10,200.00	7,870.00	15,353.00	7,799.48	91.87	138.96	-100.72	1,835.16	4,583.88	1,123.63	989.78	133.85	8.395		
10,300.00	7,870.00	15,353.00	7,799.48	91.60	138.96	-100.72	1,835.16	4,583.88	1,218.24	1,085.80	132.44	9.198		
10,400.00	7,870.00	15,353.00	7,799.48	91.34	138.96	-100.72	1,835.16	4,583.88	1,313.65	1,182.40	131.24	10.009		
10,500.00	7,870.00	15,353.00	7,799.48	91.11	138.96	-100.72	1,835.16	4,583.88	1,409.69	1,279.47	130.22	10.826		
10,600.00	7,870.00	15,353.00	7,799.48	90.88	138.96	-100.72	1,835.16	4,583.88	1,506.25	1,376.91	129.34	11.646		
10,700.00	7,870.00	15,353.00	7,799.48	90.67	138.96	-100.72	1,835.16	4,583.88	1,603.24	1,474.65	128.58	12.468		
10,800.00	7,870.00	15,353.00	7,799.48	90.48	138.96	-100.72	1,835.16	4,583.88	1,700.57	1,572.64	127.93	13.293		
10,900.00	7,870.00	15,353.00	7,799.48	90.31	138.96	-100.72	1,835.16	4,583.88	1,798.19	1,670.83	127.36	14.119		
11,000.00	7,870.00	15,353.00	7,799.48	90.15	138.96	-100.72	1,835.16	4,583.88	1,896.07	1,769.19	126.87	14.945		
11,100.00	7,870.00	15,353.00	7,799.48	90.00	138.96	-100.72	1,835.16	4,583.88	1,994.15	1,867.71	126.44	15.771		
11,200.00	7,870.00	15,353.00	7,799.48	89.88	138.96	-100.72	1,835.16	4,583.88	2,092.41	1,966.35	126.07	16.598		
11,300.00	7,870.00	15,353.00	7,799.48	89.77	138.96	-100.72	1,835.16	4,583.88	2,190.84	2,065.10	125.74	17.424		
11,400.00	7,870.00	15,353.00	7,799.48	89.68	138.96	-100.72	1,835.16	4,583.88	2,289.39	2,163.95	125.45	18.250		
11,500.00	7,870.00	15,353.00	7,799.48	89.60	138.96	-100.72	1,835.16	4,583.88	2,388.07	2,262.88	125.19	19.076		
11,600.00	7,870.00	15,353.00	7,799.48	89.55	138.96	-100.72	1,835.16	4,583.88	2,486.86	2,361.90	124.96	19.901		
11,700.00	7,870.00	15,353.00	7,799.48	89.52	138.96	-100.72	1,835.16	4,583.88	2,585.74	2,460.97	124.76	20.725		
11,800.00	7,870.00	15,353.00	7,799.48	89.50	138.96	-100.72	1,835.16	4,583.88	2,684.70	2,560.11	124.58	21.549		
11,900.00	7,870.00	15,353.00	7,799.48	89.51	138.96	-100.72	1,835.16	4,583.88	2,783.73	2,659.31	124.42	22.373		
12,000.00	7,870.00	15,353.00	7,799.48	89.54	138.96	-100.72	1,835.16	4,583.88	2,882.83	2,758.55	124.28	23.196		
12,100.00	7,870.00	15,353.00	7,799.48	89.59	138.96	-100.72	1,835.16	4,583.88	2,981.99	2,857.84	124.16	24.018		
12,200.00	7,870.00	15,353.00	7,799.48	89.66	138.96	-100.72	1,835.16	4,583.88	3,081.21	2,957.16	124.05	24.839		
12,300.00	7,870.00	15,353.00	7,799.48	89.77	138.96	-100.72	1,835.16	4,583.88	3,180.48	3,056.53	123.95	25.660		
12,400.00	7,870.00	15,353.00	7,799.48	89.89	138.96	-100.72	1,835.16	4,583.88	3,279.78	3,155.93	123.86	26.481		
12,500.00	7,870.00	15,353.00	7,799.48	90.05	138.96	-100.72	1,835.16	4,583.88	3,379.14	3,255.36	123.78	27.300		
12,600.00	7,870.00	15,353.00	7,799.48	90.24	138.96	-100.72	1,835.16	4,583.88	3,478.52	3,354.82	123.70	28.120		
12,700.00	7,870.00	15,353.00	7,799.48	90.46	138.96	-100.72	1,835.16	4,583.88	3,577.94	3,454.30	123.64	28.938		
12,800.00	7,870.00	15,353.00	7,799.48	90.71	138.96	-100.72	1,835.16	4,583.88	3,677.40	3,553.81	123.58	29.756		
12,900.00	7,870.00	15,353.00	7,799.48	90.99	138.96	-100.72	1,835.16	4,583.88	3,776.88	3,653.35	123.53	30.574		
13,000.00	7,870.00	15,353.00	7,799.48	91.32	138.96	-100.72	1,835.16	4,583.88	3,876.39	3,752.90	123.49	31.391		
13,100.00	7,870.00	15,353.00	7,799.48	91.68	138.96	-100.72	1,835.16	4,583.88	3,975.92	3,852.47	123.45	32.208		
13,200.00	7,870.00	15,353.00	7,799.48	92.08	138.96	-100.72	1,835.16	4,583.88	4,075.48	3,952.07	123.41	33.024		
13,300.00	7,870.00	15,353.00	7,799.48	92.52	138.96	-100.72	1,835.16	4,583.88	4,175.05	4,051.68	123.38	33.839		
13,400.00	7,870.00	15,353.00	7,799.48	93.00	138.96	-100.72	1,835.16	4,583.88	4,274.65	4,151.30	123.35	34.654		
13,500.00	7,870.00	15,353.00	7,799.48	93.53	138.96	-100.72	1,835.16	4,583.88	4,374.27	4,250.94	123.33	35.469		
13,600.00	7,870.00	15,353.00	7,799.48	94.10	138.96	-100.72	1,835.16	4,583.88	4,473.90	4,350.59	123.31	36.283		
13,700.00	7,870.00	15,353.00	7,799.48	94.72	138.96	-100.72	1,835.16	4,583.88	4,573.55	4,450.26	123.29	37.097		
13,800.00	7,870.00	15,353.00	7,799.48	95.38	138.96	-100.72	1,835.16	4,583.88	4,673.21	4,549.94	123.27	37.910		
13,900.00	7,870.00	15,353.00	7,799.48	96.09	138.96	-100.72	1,835.16	4,583.88	4,772.89	4,649.63	123.26	38.723		
14,000.00	7,870.00	15,353.00	7,799.48	96.84	138.96	-100.72	1,835.16	4,583.88	4,872.58	4,749.33	123.25	39.535		
14,100.00	7,870.00	15,353.00	7,799.48	97.64	138.96	-100.72	1,835.16	4,583.88	4,972.28	4,849.05	123.24	40.347		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	15,353.00	7,799.48	98.48	138.96	-100.72	1,835.16	4,583.88	5,072.00	4,948.77	123.23	41.158		
14,300.00	7,870.00	15,353.00	7,799.48	99.37	138.96	-100.72	1,835.16	4,583.88	5,171.73	5,048.50	123.23	41.969		
14,400.00	7,870.00	15,353.00	7,799.48	100.30	138.96	-100.72	1,835.16	4,583.88	5,271.46	5,148.24	123.22	42.780		
14,500.00	7,870.00	15,353.00	7,799.48	101.26	138.96	-100.72	1,835.16	4,583.88	5,371.21	5,247.99	123.22	43.590		
14,600.00	7,870.00	15,353.00	7,799.48	102.27	138.96	-100.72	1,835.16	4,583.88	5,470.96	5,347.74	123.22	44.400		
14,700.00	7,870.00	15,353.00	7,799.48	103.31	138.96	-100.72	1,835.16	4,583.88	5,570.73	5,447.51	123.22	45.209		
14,800.00	7,870.00	15,353.00	7,799.48	104.38	138.96	-100.72	1,835.16	4,583.88	5,670.50	5,547.28	123.22	46.018		
14,900.00	7,870.00	15,353.00	7,799.48	105.49	138.96	-100.72	1,835.16	4,583.88	5,770.28	5,647.05	123.23	46.827		
15,000.00	7,870.00	15,353.00	7,799.48	106.63	138.96	-100.72	1,835.16	4,583.88	5,870.07	5,746.84	123.23	47.635		
15,100.00	7,870.00	15,353.00	7,799.48	107.80	138.96	-100.72	1,835.16	4,583.88	5,969.86	5,846.63	123.24	48.443		
15,200.00	7,870.00	15,353.00	7,799.48	109.00	138.96	-100.72	1,835.16	4,583.88	6,069.67	5,946.42	123.24	49.250		
15,300.00	7,870.00	15,353.00	7,799.48	110.22	138.96	-100.72	1,835.16	4,583.88	6,169.47	6,046.22	123.25	50.057		
15,400.00	7,870.00	15,353.00	7,799.48	111.47	138.96	-100.72	1,835.16	4,583.88	6,269.29	6,146.03	123.26	50.863		
15,500.00	7,870.00	15,353.00	7,799.48	112.74	138.96	-100.72	1,835.16	4,583.88	6,369.11	6,245.84	123.27	51.670		
15,600.00	7,870.00	15,353.00	7,799.48	114.03	138.96	-100.72	1,835.16	4,583.88	6,468.93	6,345.66	123.28	52.475		
15,700.00	7,870.00	15,353.00	7,799.48	115.34	138.96	-100.72	1,835.16	4,583.88	6,568.76	6,445.48	123.29	53.281		
15,800.00	7,870.00	15,353.00	7,799.48	116.68	138.96	-100.72	1,835.16	4,583.88	6,668.60	6,545.30	123.30	54.085		
15,900.00	7,870.00	15,353.00	7,799.48	118.02	138.96	-100.72	1,835.16	4,583.88	6,768.44	6,645.13	123.31	54.890		
16,000.00	7,870.00	15,353.00	7,799.48	119.39	138.96	-100.72	1,835.16	4,583.88	6,868.29	6,744.96	123.32	55.694		
16,100.00	7,870.00	15,353.00	7,799.48	120.77	138.96	-100.72	1,835.16	4,583.88	6,968.14	6,844.80	123.34	56.498		
16,200.00	7,870.00	15,353.00	7,799.48	122.17	138.96	-100.72	1,835.16	4,583.88	7,067.99	6,944.64	123.35	57.301		
16,300.00	7,870.00	15,353.00	7,799.48	123.58	138.96	-100.72	1,835.16	4,583.88	7,167.85	7,044.49	123.36	58.104		
16,400.00	7,870.00	15,353.00	7,799.48	125.00	138.96	-100.72	1,835.16	4,583.88	7,267.71	7,144.33	123.38	58.906		
16,500.00	7,870.00	15,353.00	7,799.48	126.43	138.96	-100.72	1,835.16	4,583.88	7,367.58	7,244.18	123.39	59.708		
16,600.00	7,870.00	15,353.00	7,799.48	127.88	138.96	-100.72	1,835.16	4,583.88	7,467.45	7,344.04	123.41	60.510		
16,700.00	7,870.00	15,353.00	7,799.48	129.34	138.96	-100.72	1,835.16	4,583.88	7,567.32	7,443.89	123.43	61.311		
16,800.00	7,870.00	15,353.00	7,799.48	130.81	138.96	-100.72	1,835.16	4,583.88	7,667.20	7,543.75	123.44	62.111		
16,900.00	7,870.00	15,353.00	7,799.48	132.28	138.96	-100.72	1,835.16	4,583.88	7,767.08	7,643.61	123.46	62.912		
17,000.00	7,870.00	15,353.00	7,799.48	133.77	138.96	-100.72	1,835.16	4,583.88	7,866.96	7,743.48	123.48	63.711		
17,100.00	7,870.00	15,353.00	7,799.48	135.27	138.96	-100.72	1,835.16	4,583.88	7,966.84	7,843.35	123.50	64.511		
17,200.00	7,870.00	15,353.00	7,799.48	136.77	138.96	-100.72	1,835.16	4,583.88	8,066.73	7,943.22	123.52	65.310		
17,300.00	7,870.00	15,353.00	7,799.48	138.28	138.96	-100.72	1,835.16	4,583.88	8,166.62	8,043.09	123.53	66.108		
17,400.00	7,870.00	15,353.00	7,799.48	139.80	138.96	-100.72	1,835.16	4,583.88	8,266.52	8,142.96	123.55	66.906		
17,500.00	7,870.00	15,353.00	7,799.48	141.33	138.96	-100.72	1,835.16	4,583.88	8,366.41	8,242.84	123.57	67.704		
17,600.00	7,870.00	15,353.00	7,799.48	142.86	138.96	-100.72	1,835.16	4,583.88	8,466.31	8,342.72	123.59	68.501		
17,700.00	7,870.00	15,353.00	7,799.48	144.40	138.96	-100.72	1,835.16	4,583.88	8,566.21	8,442.60	123.61	69.298		
17,800.00	7,870.00	15,353.00	7,799.48	145.95	138.96	-100.72	1,835.16	4,583.88	8,666.12	8,542.48	123.64	70.094		
17,900.00	7,870.00	15,353.00	7,799.48	147.50	138.96	-100.72	1,835.16	4,583.88	8,766.02	8,642.36	123.66	70.890		
18,000.00	7,870.00	15,353.00	7,799.48	149.06	138.96	-100.72	1,835.16	4,583.88	8,865.93	8,742.25	123.68	71.685		
18,100.00	7,870.00	15,353.00	7,799.48	150.63	138.96	-100.72	1,835.16	4,583.88	8,965.84	8,842.14	123.70	72.480		
18,200.00	7,870.00	15,353.00	7,799.48	152.20	138.96	-100.72	1,835.16	4,583.88	9,065.75	8,942.03	123.72	73.274		
18,300.00	7,870.00	15,353.00	7,799.48	153.77	138.96	-100.72	1,835.16	4,583.88	9,165.66	9,041.92	123.75	74.068		
18,400.00	7,870.00	15,353.00	7,799.48	155.35	138.96	-100.72	1,835.16	4,583.88	9,265.58	9,141.81	123.77	74.861		
18,500.00	7,870.00	15,353.00	7,799.48	156.93	138.96	-100.72	1,835.16	4,583.88	9,365.50	9,241.70	123.79	75.654		
18,600.00	7,870.00	15,353.00	7,799.48	158.52	138.96	-100.72	1,835.16	4,583.88	9,465.41	9,341.60	123.82	76.447		
18,700.00	7,870.00	15,353.00	7,799.48	160.11	138.96	-100.72	1,835.16	4,583.88	9,565.34	9,441.49	123.84	77.239		
18,800.00	7,870.00	15,353.00	7,799.48	161.71	138.96	-100.72	1,835.16	4,583.88	9,665.26	9,541.39	123.87	78.030		
18,900.00	7,870.00	15,353.00	7,799.48	163.31	138.96	-100.72	1,835.16	4,583.88	9,765.18	9,641.29	123.89	78.821		
19,000.00	7,870.00	15,353.00	7,799.48	164.91	138.96	-100.72	1,835.16	4,583.88	9,865.11	9,741.19	123.92	79.611		
19,100.00	7,870.00	15,353.00	7,799.48	166.52	138.96	-100.72	1,835.16	4,583.88	9,965.03	9,841.09	123.94	80.401		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	69.45	1,844.59	4,919.58	9,412.26					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.45	1,844.59	4,919.58	9,329.46	9,238.48	90.98	102.541		
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.45	1,844.59	4,919.58	9,247.00	9,155.57	91.43	101.142		
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.45	1,844.59	4,919.58	9,164.88	9,072.98	91.90	99.722		
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.45	1,844.59	4,919.58	9,083.13	8,990.71	92.42	98.286		
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.45	1,844.59	4,919.58	9,001.74	8,908.78	92.96	96.836		
600.00	600.00	15,243.00	7,668.35	1.93	138.66	69.45	1,844.59	4,919.58	8,920.73	8,827.20	93.53	95.376		
700.00	699.98	15,243.00	7,668.35	2.28	138.66	5.91	1,844.59	4,919.58	8,839.10	8,744.96	94.14	93.895		
800.00	799.84	15,243.00	7,668.35	2.64	138.66	6.23	1,844.59	4,919.58	8,755.86	8,661.11	94.76	92.405		
900.00	899.45	15,243.00	7,668.35	3.00	138.66	6.59	1,844.59	4,919.58	8,671.08	8,575.71	95.36	90.928		
1,000.00	998.70	15,243.00	7,668.35	3.37	138.66	6.99	1,844.59	4,919.58	8,584.81	8,488.85	95.96	89.465		
1,100.00	1,097.47	15,243.00	7,668.35	3.76	138.66	7.45	1,844.59	4,919.58	8,497.11	8,400.58	96.54	88.020		
1,200.00	1,195.62	15,243.00	7,668.35	4.18	138.66	7.97	1,844.59	4,919.58	8,408.06	8,310.96	97.10	86.592		
1,300.00	1,293.06	15,243.00	7,668.35	4.63	138.66	8.58	1,844.59	4,919.58	8,317.70	8,220.06	97.64	85.185		
1,400.00	1,389.64	15,243.00	7,668.35	5.11	138.66	9.29	1,844.59	4,919.58	8,226.13	8,127.96	98.17	83.797		
1,500.00	1,485.27	15,243.00	7,668.35	5.63	138.66	10.12	1,844.59	4,919.58	8,133.40	8,034.73	98.67	82.432		
1,600.00	1,579.82	15,243.00	7,668.35	6.20	138.66	11.12	1,844.59	4,919.58	8,039.59	7,940.44	99.15	81.088		
1,700.00	1,673.17	15,243.00	7,668.35	6.83	138.66	12.33	1,844.59	4,919.58	7,944.78	7,845.18	99.60	79.767		
1,800.00	1,765.21	15,243.00	7,668.35	7.51	138.66	13.83	1,844.59	4,919.58	7,849.05	7,749.03	100.03	78.469		
1,900.00	1,855.84	15,243.00	7,668.35	8.24	138.66	15.73	1,844.59	4,919.58	7,752.49	7,652.07	100.43	77.196		
2,000.00	1,944.94	15,243.00	7,668.35	9.05	138.66	18.19	1,844.59	4,919.58	7,655.18	7,554.39	100.80	75.948		
2,100.00	2,032.39	15,243.00	7,668.35	9.91	138.66	21.51	1,844.59	4,919.58	7,557.22	7,456.09	101.13	74.726		
2,200.00	2,118.11	15,243.00	7,668.35	10.85	138.66	26.15	1,844.59	4,919.58	7,458.70	7,357.27	101.44	73.530		
2,300.00	2,201.97	15,243.00	7,668.35	11.85	138.66	33.00	1,844.59	4,919.58	7,359.73	7,258.02	101.71	72.361		
2,400.00	2,283.88	15,243.00	7,668.35	12.93	138.66	43.67	1,844.59	4,919.58	7,260.40	7,158.46	101.94	71.221		
2,429.47	2,307.63	15,243.00	7,668.35	13.26	138.66	47.90	1,844.59	4,919.58	7,231.07	7,129.07	102.00	70.889		
2,500.00	2,364.26	15,243.00	7,668.35	14.06	138.66	47.90	1,844.59	4,919.58	7,160.87	7,058.72	102.15	70.102		
2,600.00	2,444.56	15,243.00	7,668.35	15.22	138.66	47.90	1,844.59	4,919.58	7,061.35	6,958.99	102.36	68.986		
2,700.00	2,524.85	15,243.00	7,668.35	16.39	138.66	47.90	1,844.59	4,919.58	6,961.84	6,859.26	102.58	67.868		
2,800.00	2,605.14	15,243.00	7,668.35	17.57	138.66	47.90	1,844.59	4,919.58	6,862.35	6,759.54	102.80	66.751		
2,900.00	2,685.43	15,243.00	7,668.35	18.76	138.66	47.90	1,844.59	4,919.58	6,762.87	6,659.83	103.04	65.634		
3,000.00	2,765.73	15,243.00	7,668.35	19.96	138.66	47.90	1,844.59	4,919.58	6,663.41	6,560.12	103.28	64.516		
3,100.00	2,846.02	15,243.00	7,668.35	21.16	138.66	47.90	1,844.59	4,919.58	6,563.96	6,460.42	103.53	63.399		
3,200.00	2,926.31	15,243.00	7,668.35	22.37	138.66	47.90	1,844.59	4,919.58	6,464.53	6,360.73	103.79	62.282		
3,300.00	3,006.60	15,243.00	7,668.35	23.59	138.66	47.90	1,844.59	4,919.58	6,365.11	6,261.05	104.06	61.165		
3,400.00	3,086.90	15,243.00	7,668.35	24.81	138.66	47.90	1,844.59	4,919.58	6,265.72	6,161.38	104.34	60.049		
3,500.00	3,167.19	15,243.00	7,668.35	26.03	138.66	47.90	1,844.59	4,919.58	6,166.35	6,061.72	104.63	58.934		
3,600.00	3,247.48	15,243.00	7,668.35	27.25	138.66	47.90	1,844.59	4,919.58	6,066.99	5,962.06	104.93	57.819		
3,700.00	3,327.77	15,243.00	7,668.35	28.48	138.66	47.90	1,844.59	4,919.58	5,967.66	5,862.42	105.24	56.706		
3,800.00	3,408.07	15,243.00	7,668.35	29.71	138.66	47.90	1,844.59	4,919.58	5,868.35	5,762.79	105.56	55.594		
3,900.00	3,488.36	15,243.00	7,668.35	30.94	138.66	47.90	1,844.59	4,919.58	5,769.07	5,663.18	105.89	54.483		
4,000.00	3,568.65	15,243.00	7,668.35	32.17	138.66	47.90	1,844.59	4,919.58	5,669.81	5,563.58	106.23	53.373		
4,100.00	3,648.95	15,243.00	7,668.35	33.41	138.66	47.90	1,844.59	4,919.58	5,570.57	5,463.99	106.58	52.265		
4,200.00	3,729.24	15,243.00	7,668.35	34.64	138.66	47.90	1,844.59	4,919.58	5,471.37	5,364.42	106.95	51.159		
4,300.00	3,809.53	15,243.00	7,668.35	35.88	138.66	47.90	1,844.59	4,919.58	5,372.19	5,264.86	107.33	50.054		
4,400.00	3,889.82	15,243.00	7,668.35	37.12	138.66	47.90	1,844.59	4,919.58	5,273.04	5,165.32	107.72	48.952		
4,500.00	3,970.12	15,243.00	7,668.35	38.36	138.66	47.90	1,844.59	4,919.58	5,173.93	5,065.81	108.13	47.851		
4,600.00	4,050.41	15,243.00	7,668.35	39.60	138.66	47.90	1,844.59	4,919.58	5,074.85	4,966.31	108.55	46.753		
4,700.00	4,130.70	15,243.00	7,668.35	40.84	138.66	47.90	1,844.59	4,919.58	4,975.81	4,866.83	108.98	45.656		
4,800.00	4,210.99	15,243.00	7,668.35	42.08	138.66	47.90	1,844.59	4,919.58	4,876.81	4,767.37	109.44	44.563		
4,900.00	4,291.29	15,243.00	7,668.35	43.32	138.66	47.90	1,844.59	4,919.58	4,777.85	4,667.94	109.91	43.472		
5,000.00	4,371.58	15,243.00	7,668.35	44.57	138.66	47.90	1,844.59	4,919.58	4,678.93	4,568.54	110.40	42.383		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	15,243.00	7,668.35	45.81	138.66	47.90	1,844.59	4,919.58	4,580.07	4,469.16	110.90	41.298		
5,200.00	4,532.16	15,243.00	7,668.35	47.05	138.66	47.90	1,844.59	4,919.58	4,481.25	4,369.81	111.43	40.215		
5,300.00	4,612.46	15,243.00	7,668.35	48.30	138.66	47.90	1,844.59	4,919.58	4,382.48	4,270.50	111.98	39.136		
5,400.00	4,692.75	15,243.00	7,668.35	49.54	138.66	47.90	1,844.59	4,919.58	4,283.77	4,171.22	112.56	38.059		
5,500.00	4,773.04	15,243.00	7,668.35	50.79	138.66	47.90	1,844.59	4,919.58	4,185.13	4,071.97	113.15	36.987		
5,600.00	4,853.34	15,243.00	7,668.35	52.03	138.66	47.90	1,844.59	4,919.58	4,086.55	3,972.77	113.78	35.917		
5,700.00	4,933.63	15,243.00	7,668.35	53.28	138.66	47.90	1,844.59	4,919.58	3,988.04	3,873.61	114.43	34.852		
5,800.00	5,013.92	15,243.00	7,668.35	54.53	138.66	47.90	1,844.59	4,919.58	3,889.60	3,774.49	115.11	33.791		
5,900.00	5,094.21	15,243.00	7,668.35	55.77	138.66	47.90	1,844.59	4,919.58	3,791.25	3,675.43	115.82	32.733		
6,000.00	5,174.51	15,243.00	7,668.35	57.02	138.66	47.90	1,844.59	4,919.58	3,692.99	3,576.42	116.57	31.680		
6,100.00	5,254.80	15,243.00	7,668.35	58.27	138.66	47.90	1,844.59	4,919.58	3,594.82	3,477.46	117.36	30.632		
6,200.00	5,335.09	15,243.00	7,668.35	59.52	138.66	47.90	1,844.59	4,919.58	3,496.76	3,378.58	118.18	29.588		
6,300.00	5,415.38	15,243.00	7,668.35	60.76	138.66	47.90	1,844.59	4,919.58	3,398.80	3,279.76	119.05	28.550		
6,400.00	5,495.68	15,243.00	7,668.35	62.01	138.66	47.90	1,844.59	4,919.58	3,300.98	3,181.01	119.96	27.516		
6,500.00	5,575.97	15,243.00	7,668.35	63.26	138.66	47.90	1,844.59	4,919.58	3,203.28	3,082.35	120.93	26.489		
6,600.00	5,656.26	15,243.00	7,668.35	64.51	138.66	47.90	1,844.59	4,919.58	3,105.74	2,983.79	121.95	25.467		
6,700.00	5,736.55	15,243.00	7,668.35	65.76	138.66	47.90	1,844.59	4,919.58	3,008.35	2,885.32	123.03	24.452		
6,800.00	5,816.85	15,243.00	7,668.35	67.01	138.66	47.90	1,844.59	4,919.58	2,911.14	2,786.96	124.18	23.443		
6,900.00	5,897.14	15,243.00	7,668.35	68.26	138.66	47.90	1,844.59	4,919.58	2,814.13	2,688.73	125.40	22.442		
7,000.00	5,977.43	15,243.00	7,668.35	69.50	138.66	47.90	1,844.59	4,919.58	2,717.33	2,590.64	126.70	21.448		
7,100.00	6,057.72	15,243.00	7,668.35	70.75	138.66	47.90	1,844.59	4,919.58	2,620.77	2,492.69	128.08	20.462		
7,200.00	6,138.02	15,243.00	7,668.35	72.00	138.66	47.90	1,844.59	4,919.58	2,524.49	2,394.93	129.56	19.485		
7,300.00	6,218.31	15,243.00	7,668.35	73.25	138.66	47.90	1,844.59	4,919.58	2,428.50	2,297.35	131.15	18.517		
7,400.00	6,298.60	15,243.00	7,668.35	74.50	138.66	47.90	1,844.59	4,919.58	2,332.85	2,200.00	132.85	17.560		
7,500.00	6,378.90	15,243.00	7,668.35	75.75	138.66	47.90	1,844.59	4,919.58	2,237.58	2,102.90	134.68	16.614		
7,600.00	6,459.19	15,243.00	7,668.35	77.00	138.66	47.90	1,844.59	4,919.58	2,142.74	2,006.08	136.66	15.680		
7,700.00	6,539.48	15,243.00	7,668.35	78.25	138.66	47.90	1,844.59	4,919.58	2,048.39	1,909.59	138.79	14.758		
7,800.00	6,619.77	15,243.00	7,668.35	79.50	138.66	47.90	1,844.59	4,919.58	1,954.60	1,813.49	141.11	13.852		
7,900.00	6,700.07	15,243.00	7,668.35	80.75	138.66	47.90	1,844.59	4,919.58	1,861.46	1,717.84	143.62	12.961		
8,000.00	6,780.36	15,243.00	7,668.35	82.00	138.66	47.90	1,844.59	4,919.58	1,769.07	1,622.71	146.36	12.087		
8,100.00	6,860.65	15,243.00	7,668.35	83.25	138.66	47.90	1,844.59	4,919.58	1,677.55	1,528.21	149.34	11.233		
8,200.00	6,940.94	15,243.00	7,668.35	84.50	138.66	47.90	1,844.59	4,919.58	1,587.06	1,434.46	152.60	10.400		
8,300.00	7,021.24	15,243.00	7,668.35	85.76	138.66	47.90	1,844.59	4,919.58	1,497.78	1,341.62	156.16	9.591		
8,400.00	7,101.53	15,235.45	7,668.29	87.01	138.53	47.36	1,852.14	4,919.41	1,409.91	1,250.29	159.62	8.833		
8,500.00	7,181.82	15,210.98	7,668.11	88.26	138.10	45.57	1,876.60	4,918.86	1,323.42	1,161.04	162.39	8.150		
8,605.60	7,266.61	15,190.86	7,667.91	89.58	137.75	43.63	1,902.43	4,918.27	1,233.79	1,068.12	165.68	7.447		
8,650.00	7,302.60	15,178.35	7,667.86	90.13	137.53	30.70	1,909.22	4,918.13	1,196.41	1,029.23	167.19	7.156		
8,700.00	7,343.78	15,173.17	7,667.84	90.72	137.44	15.49	1,914.40	4,918.02	1,154.30	985.31	168.99	6.831		
8,750.00	7,385.32	15,171.44	7,667.83	91.28	137.41	0.32	1,916.13	4,917.98	1,112.53	941.71	170.82	6.513		
8,800.00	7,426.92	15,173.27	7,667.84	91.81	137.44	-14.15	1,914.30	4,918.02	1,071.51	898.85	172.66	6.206		
8,850.00	7,468.27	15,178.75	7,667.87	92.29	137.54	-27.40	1,908.82	4,918.14	1,031.64	857.14	174.50	5.912		
8,900.00	7,509.04	15,188.05	7,667.93	92.72	137.70	-39.11	1,899.62	4,918.34	993.29	816.97	176.32	5.634		
8,950.00	7,548.93	15,203.21	7,668.05	93.10	137.97	-49.00	1,884.37	4,918.68	956.82	778.57	178.26	5.368		
9,000.00	7,587.63	15,222.56	7,668.19	93.43	138.30	-57.28	1,865.02	4,919.12	922.53	742.37	180.16	5.121		
9,050.00	7,624.85	15,245.85	7,668.37	93.71	138.71	-64.08	1,841.74	4,919.64	890.69	708.69	182.00	4.894		
9,100.00	7,660.30	15,243.00	7,668.35	93.93	138.66	-71.26	1,844.59	4,919.58	862.02	680.70	181.32	4.754		
9,150.00	7,693.72	15,243.00	7,668.35	94.10	138.66	-77.02	1,844.59	4,919.58	837.32	656.98	180.34	4.643		
9,200.00	7,724.85	15,243.00	7,668.35	94.23	138.66	-81.66	1,844.59	4,919.58	817.15	638.27	178.88	4.568		
9,250.00	7,753.45	15,243.00	7,668.35	94.30	138.66	-85.30	1,844.59	4,919.58	802.00	624.99	177.01	4.531		
9,300.00	7,779.31	15,243.00	7,668.35	94.34	138.66	-88.05	1,844.59	4,919.58	792.29	617.38	174.91	4.530 SF		
9,350.00	7,802.23	15,243.00	7,668.35	94.33	138.66	-89.98	1,844.59	4,919.58	788.29	615.53	172.76	4.563 ES		
9,359.36	7,806.18	15,243.00	7,668.35	94.32	138.66	-90.25	1,844.59	4,919.58	788.19	615.82	172.37	4.573 CC		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	15,243.00	7,668.35	94.28	138.66	-91.14	1,844.59	4,919.58	790.11	619.38	170.73	4.628		
9,450.00	7,838.57	15,243.00	7,668.35	94.20	138.66	-91.56	1,844.59	4,919.58	797.71	628.77	168.94	4.722		
9,500.00	7,851.72	15,243.00	7,668.35	94.10	138.66	-91.24	1,844.59	4,919.58	810.87	643.46	167.41	4.844		
9,550.00	7,861.37	15,243.00	7,668.35	93.96	138.66	-90.18	1,844.59	4,919.58	829.21	663.12	166.09	4.993		
9,600.00	7,867.46	15,243.00	7,668.35	93.81	138.66	-88.34	1,844.59	4,919.58	852.28	687.36	164.92	5.168		
9,650.00	7,869.94	15,243.00	7,668.35	93.64	138.66	-85.68	1,844.59	4,919.58	879.54	715.69	163.85	5.368		
9,659.14	7,870.00	15,243.00	7,668.35	93.60	138.66	-85.10	1,844.59	4,919.58	884.92	721.27	163.66	5.407		
9,700.00	7,870.00	15,243.00	7,668.35	93.46	138.66	-85.10	1,844.59	4,919.58	909.87	747.04	162.83	5.588		
9,800.00	7,870.00	15,243.00	7,668.35	93.11	138.66	-85.10	1,844.59	4,919.58	975.47	814.55	160.92	6.062		
9,900.00	7,870.00	15,243.00	7,668.35	92.77	138.66	-85.10	1,844.59	4,919.58	1,046.53	887.47	159.06	6.579		
10,000.00	7,870.00	15,243.00	7,668.35	92.46	138.66	-85.10	1,844.59	4,919.58	1,122.01	964.79	157.22	7.137		
10,100.00	7,870.00	15,243.00	7,668.35	92.16	138.66	-85.10	1,844.59	4,919.58	1,201.08	1,045.66	155.41	7.728		
10,200.00	7,870.00	15,243.00	7,668.35	91.87	138.66	-85.10	1,844.59	4,919.58	1,283.07	1,129.39	153.67	8.349		
10,300.00	7,870.00	15,243.00	7,668.35	91.60	138.66	-85.10	1,844.59	4,919.58	1,367.46	1,215.44	152.02	8.995		
10,400.00	7,870.00	15,243.00	7,668.35	91.34	138.66	-85.10	1,844.59	4,919.58	1,453.83	1,303.37	150.46	9.663		
10,500.00	7,870.00	15,243.00	7,668.35	91.11	138.66	-85.10	1,844.59	4,919.58	1,541.85	1,392.85	149.00	10.348		
10,600.00	7,870.00	15,243.00	7,668.35	90.88	138.66	-85.10	1,844.59	4,919.58	1,631.25	1,483.60	147.64	11.049		
10,700.00	7,870.00	15,243.00	7,668.35	90.67	138.66	-85.10	1,844.59	4,919.58	1,721.81	1,575.43	146.39	11.762		
10,800.00	7,870.00	15,243.00	7,668.35	90.48	138.66	-85.10	1,844.59	4,919.58	1,813.37	1,668.15	145.23	12.487		
10,900.00	7,870.00	15,243.00	7,668.35	90.31	138.66	-85.10	1,844.59	4,919.58	1,905.78	1,761.63	144.15	13.220		
11,000.00	7,870.00	15,243.00	7,668.35	90.15	138.66	-85.10	1,844.59	4,919.58	1,998.92	1,855.75	143.17	13.962		
11,100.00	7,870.00	15,243.00	7,668.35	90.00	138.66	-85.10	1,844.59	4,919.58	2,092.69	1,950.44	142.26	14.711		
11,200.00	7,870.00	15,243.00	7,668.35	89.88	138.66	-85.10	1,844.59	4,919.58	2,187.01	2,045.60	141.42	15.465		
11,300.00	7,870.00	15,243.00	7,668.35	89.77	138.66	-85.10	1,844.59	4,919.58	2,281.82	2,141.18	140.64	16.225		
11,400.00	7,870.00	15,243.00	7,668.35	89.68	138.66	-85.10	1,844.59	4,919.58	2,377.05	2,237.13	139.92	16.988		
11,500.00	7,870.00	15,243.00	7,668.35	89.60	138.66	-85.10	1,844.59	4,919.58	2,472.66	2,333.40	139.26	17.755		
11,600.00	7,870.00	15,243.00	7,668.35	89.55	138.66	-85.10	1,844.59	4,919.58	2,568.61	2,429.96	138.65	18.526		
11,700.00	7,870.00	15,243.00	7,668.35	89.52	138.66	-85.10	1,844.59	4,919.58	2,664.85	2,526.76	138.08	19.299		
11,800.00	7,870.00	15,243.00	7,668.35	89.50	138.66	-85.10	1,844.59	4,919.58	2,761.36	2,623.80	137.56	20.074		
11,900.00	7,870.00	15,243.00	7,668.35	89.51	138.66	-85.10	1,844.59	4,919.58	2,858.11	2,721.04	137.07	20.851		
12,000.00	7,870.00	15,243.00	7,668.35	89.54	138.66	-85.10	1,844.59	4,919.58	2,955.07	2,818.45	136.62	21.630		
12,100.00	7,870.00	15,243.00	7,668.35	89.59	138.66	-85.10	1,844.59	4,919.58	3,052.23	2,916.04	136.20	22.410		
12,200.00	7,870.00	15,243.00	7,668.35	89.66	138.66	-85.10	1,844.59	4,919.58	3,149.57	3,013.77	135.81	23.192		
12,300.00	7,870.00	15,243.00	7,668.35	89.77	138.66	-85.10	1,844.59	4,919.58	3,247.07	3,111.63	135.44	23.974		
12,400.00	7,870.00	15,243.00	7,668.35	89.89	138.66	-85.10	1,844.59	4,919.58	3,344.72	3,209.62	135.10	24.757		
12,500.00	7,870.00	15,243.00	7,668.35	90.05	138.66	-85.10	1,844.59	4,919.58	3,442.50	3,307.72	134.78	25.541		
12,600.00	7,870.00	15,243.00	7,668.35	90.24	138.66	-85.10	1,844.59	4,919.58	3,540.41	3,405.93	134.49	26.326		
12,700.00	7,870.00	15,243.00	7,668.35	90.46	138.66	-85.10	1,844.59	4,919.58	3,638.43	3,504.22	134.21	27.110		
12,800.00	7,870.00	15,243.00	7,668.35	90.71	138.66	-85.10	1,844.59	4,919.58	3,736.56	3,602.61	133.95	27.896		
12,900.00	7,870.00	15,243.00	7,668.35	90.99	138.66	-85.10	1,844.59	4,919.58	3,834.78	3,701.08	133.70	28.681		
13,000.00	7,870.00	15,243.00	7,668.35	91.32	138.66	-85.10	1,844.59	4,919.58	3,933.09	3,799.62	133.48	29.467		
13,100.00	7,870.00	15,243.00	7,668.35	91.68	138.66	-85.10	1,844.59	4,919.58	4,031.49	3,898.23	133.26	30.253		
13,200.00	7,870.00	15,243.00	7,668.35	92.08	138.66	-85.10	1,844.59	4,919.58	4,129.96	3,996.90	133.06	31.039		
13,300.00	7,870.00	15,243.00	7,668.35	92.52	138.66	-85.10	1,844.59	4,919.58	4,228.51	4,095.64	132.87	31.824		
13,400.00	7,870.00	15,243.00	7,668.35	93.00	138.66	-85.10	1,844.59	4,919.58	4,327.12	4,194.42	132.69	32.610		
13,500.00	7,870.00	15,243.00	7,668.35	93.53	138.66	-85.10	1,844.59	4,919.58	4,425.79	4,293.27	132.52	33.396		
13,600.00	7,870.00	15,243.00	7,668.35	94.10	138.66	-85.10	1,844.59	4,919.58	4,524.52	4,392.15	132.37	34.182		
13,700.00	7,870.00	15,243.00	7,668.35	94.72	138.66	-85.10	1,844.59	4,919.58	4,623.31	4,491.09	132.22	34.967		
13,800.00	7,870.00	15,243.00	7,668.35	95.38	138.66	-85.10	1,844.59	4,919.58	4,722.14	4,590.07	132.08	35.753		
13,900.00	7,870.00	15,243.00	7,668.35	96.09	138.66	-85.10	1,844.59	4,919.58	4,821.03	4,689.08	131.95	36.538		
14,000.00	7,870.00	15,243.00	7,668.35	96.84	138.66	-85.10	1,844.59	4,919.58	4,919.96	4,788.14	131.82	37.323		
14,100.00	7,870.00	15,243.00	7,668.35	97.64	138.66	-85.10	1,844.59	4,919.58	5,018.93	4,887.23	131.70	38.108		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	15,243.00	7,668.35	98.48	138.66	-85.10	1,844.59	4,919.58	5,117.94	4,986.35	131.59	38.893		
14,300.00	7,870.00	15,243.00	7,668.35	99.37	138.66	-85.10	1,844.59	4,919.58	5,216.99	5,085.51	131.49	39.677		
14,400.00	7,870.00	15,243.00	7,668.35	100.30	138.66	-85.10	1,844.59	4,919.58	5,316.08	5,184.69	131.39	40.461		
14,500.00	7,870.00	15,243.00	7,668.35	101.26	138.66	-85.10	1,844.59	4,919.58	5,415.20	5,283.90	131.29	41.245		
14,600.00	7,870.00	15,243.00	7,668.35	102.27	138.66	-85.10	1,844.59	4,919.58	5,514.35	5,383.14	131.21	42.028		
14,700.00	7,870.00	15,243.00	7,668.35	103.31	138.66	-85.10	1,844.59	4,919.58	5,613.53	5,482.41	131.12	42.811		
14,800.00	7,870.00	15,243.00	7,668.35	104.38	138.66	-85.10	1,844.59	4,919.58	5,712.74	5,581.70	131.04	43.594		
14,900.00	7,870.00	15,243.00	7,668.35	105.49	138.66	-85.10	1,844.59	4,919.58	5,811.98	5,681.01	130.97	44.377		
15,000.00	7,870.00	15,243.00	7,668.35	106.63	138.66	-85.10	1,844.59	4,919.58	5,911.24	5,780.34	130.90	45.159		
15,100.00	7,870.00	15,243.00	7,668.35	107.80	138.66	-85.10	1,844.59	4,919.58	6,010.53	5,879.70	130.83	45.941		
15,200.00	7,870.00	15,243.00	7,668.35	109.00	138.66	-85.10	1,844.59	4,919.58	6,109.84	5,979.07	130.77	46.722		
15,300.00	7,870.00	15,243.00	7,668.35	110.22	138.66	-85.10	1,844.59	4,919.58	6,209.17	6,078.46	130.71	47.503		
15,400.00	7,870.00	15,243.00	7,668.35	111.47	138.66	-85.10	1,844.59	4,919.58	6,308.52	6,177.87	130.65	48.284		
15,500.00	7,870.00	15,243.00	7,668.35	112.74	138.66	-85.10	1,844.59	4,919.58	6,407.90	6,277.30	130.60	49.065		
15,600.00	7,870.00	15,243.00	7,668.35	114.03	138.66	-85.10	1,844.59	4,919.58	6,507.29	6,376.74	130.55	49.845		
15,700.00	7,870.00	15,243.00	7,668.35	115.34	138.66	-85.10	1,844.59	4,919.58	6,606.70	6,476.20	130.50	50.624		
15,800.00	7,870.00	15,243.00	7,668.35	116.68	138.66	-85.10	1,844.59	4,919.58	6,706.13	6,575.67	130.46	51.404		
15,900.00	7,870.00	15,243.00	7,668.35	118.02	138.66	-85.10	1,844.59	4,919.58	6,805.58	6,675.16	130.42	52.183		
16,000.00	7,870.00	15,243.00	7,668.35	119.39	138.66	-85.10	1,844.59	4,919.58	6,905.04	6,774.66	130.38	52.961		
16,100.00	7,870.00	15,243.00	7,668.35	120.77	138.66	-85.10	1,844.59	4,919.58	7,004.51	6,874.17	130.34	53.739		
16,200.00	7,870.00	15,243.00	7,668.35	122.17	138.66	-85.10	1,844.59	4,919.58	7,104.01	6,973.70	130.31	54.517		
16,300.00	7,870.00	15,243.00	7,668.35	123.58	138.66	-85.10	1,844.59	4,919.58	7,203.51	7,073.24	130.28	55.295		
16,400.00	7,870.00	15,243.00	7,668.35	125.00	138.66	-85.10	1,844.59	4,919.58	7,303.03	7,172.79	130.24	56.071		
16,500.00	7,870.00	15,243.00	7,668.35	126.43	138.66	-85.10	1,844.59	4,919.58	7,402.56	7,272.35	130.22	56.848		
16,600.00	7,870.00	15,243.00	7,668.35	127.88	138.66	-85.10	1,844.59	4,919.58	7,502.11	7,371.92	130.19	57.624		
16,700.00	7,870.00	15,243.00	7,668.35	129.34	138.66	-85.10	1,844.59	4,919.58	7,601.66	7,471.50	130.17	58.400		
16,800.00	7,870.00	15,243.00	7,668.35	130.81	138.66	-85.10	1,844.59	4,919.58	7,701.23	7,571.09	130.14	59.175		
16,900.00	7,870.00	15,243.00	7,668.35	132.28	138.66	-85.10	1,844.59	4,919.58	7,800.81	7,670.69	130.12	59.950		
17,000.00	7,870.00	15,243.00	7,668.35	133.77	138.66	-85.10	1,844.59	4,919.58	7,900.40	7,770.30	130.10	60.725		
17,100.00	7,870.00	15,243.00	7,668.35	135.27	138.66	-85.10	1,844.59	4,919.58	8,000.00	7,869.92	130.08	61.499		
17,200.00	7,870.00	15,243.00	7,668.35	136.77	138.66	-85.10	1,844.59	4,919.58	8,099.61	7,969.54	130.07	62.272		
17,300.00	7,870.00	15,243.00	7,668.35	138.28	138.66	-85.10	1,844.59	4,919.58	8,199.23	8,069.18	130.05	63.046		
17,400.00	7,870.00	15,243.00	7,668.35	139.80	138.66	-85.10	1,844.59	4,919.58	8,298.86	8,168.82	130.04	63.818		
17,500.00	7,870.00	15,243.00	7,668.35	141.33	138.66	-85.10	1,844.59	4,919.58	8,398.49	8,268.47	130.03	64.591		
17,600.00	7,870.00	15,243.00	7,668.35	142.86	138.66	-85.10	1,844.59	4,919.58	8,498.14	8,368.12	130.02	65.363		
17,700.00	7,870.00	15,243.00	7,668.35	144.40	138.66	-85.10	1,844.59	4,919.58	8,597.79	8,467.79	130.01	66.134		
17,800.00	7,870.00	15,243.00	7,668.35	145.95	138.66	-85.10	1,844.59	4,919.58	8,697.46	8,567.46	130.00	66.905		
17,900.00	7,870.00	15,243.00	7,668.35	147.50	138.66	-85.10	1,844.59	4,919.58	8,797.13	8,667.14	129.99	67.676		
18,000.00	7,870.00	15,243.00	7,668.35	149.06	138.66	-85.10	1,844.59	4,919.58	8,896.80	8,766.82	129.98	68.446		
18,100.00	7,870.00	15,243.00	7,668.35	150.63	138.66	-85.10	1,844.59	4,919.58	8,996.49	8,866.51	129.98	69.216		
18,200.00	7,870.00	15,243.00	7,668.35	152.20	138.66	-85.10	1,844.59	4,919.58	9,096.18	8,966.20	129.97	69.985		
18,300.00	7,870.00	15,243.00	7,668.35	153.77	138.66	-85.10	1,844.59	4,919.58	9,195.88	9,065.90	129.97	70.754		
18,400.00	7,870.00	15,243.00	7,668.35	155.35	138.66	-85.10	1,844.59	4,919.58	9,295.58	9,165.61	129.97	71.522		
18,500.00	7,870.00	15,243.00	7,668.35	156.93	138.66	-85.10	1,844.59	4,919.58	9,395.29	9,265.32	129.97	72.290		
18,600.00	7,870.00	15,243.00	7,668.35	158.52	138.66	-85.10	1,844.59	4,919.58	9,495.01	9,365.04	129.97	73.057		
18,700.00	7,870.00	15,243.00	7,668.35	160.11	138.66	-85.10	1,844.59	4,919.58	9,594.73	9,464.76	129.97	73.824		
18,800.00	7,870.00	15,243.00	7,668.35	161.71	138.66	-85.10	1,844.59	4,919.58	9,694.46	9,564.49	129.97	74.590		
18,900.00	7,870.00	15,243.00	7,668.35	163.31	138.66	-85.10	1,844.59	4,919.58	9,794.19	9,664.22	129.97	75.356		
19,000.00	7,870.00	15,243.00	7,668.35	164.91	138.66	-85.10	1,844.59	4,919.58	9,893.93	9,763.96	129.98	76.122		
19,100.00	7,870.00	15,243.00	7,668.35	166.52	138.66	-85.10	1,844.59	4,919.58	9,993.68	9,863.70	129.98	76.887		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	65.55	1,824.04	4,011.31	8,878.31					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.55	1,824.04	4,011.31	8,791.64	8,706.11	85.53	102.790		
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.55	1,824.04	4,011.31	8,705.25	8,619.35	85.90	101.338		
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.55	1,824.04	4,011.31	8,619.16	8,532.85	86.31	99.868		
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.55	1,824.04	4,011.31	8,533.37	8,446.63	86.74	98.382		
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.55	1,824.04	4,011.31	8,447.89	8,360.69	87.20	96.883		
600.00	600.00	15,134.00	7,566.57	1.93	139.08	65.55	1,824.04	4,011.31	8,362.74	8,275.05	87.68	95.373		
700.00	699.98	15,134.00	7,566.57	2.28	139.08	1.83	1,824.04	4,011.31	8,277.00	8,188.80	88.20	93.843		
800.00	799.84	15,134.00	7,566.57	2.64	139.08	1.95	1,824.04	4,011.31	8,189.82	8,101.09	88.73	92.304		
900.00	899.45	15,134.00	7,566.57	3.00	139.08	2.08	1,824.04	4,011.31	8,101.25	8,012.01	89.24	90.780		
1,000.00	998.70	15,134.00	7,566.57	3.37	139.08	2.24	1,824.04	4,011.31	8,011.36	7,921.62	89.74	89.272		
1,100.00	1,097.47	15,134.00	7,566.57	3.76	139.08	2.42	1,824.04	4,011.31	7,920.21	7,829.99	90.22	87.783		
1,200.00	1,195.62	15,134.00	7,566.57	4.18	139.08	2.63	1,824.04	4,011.31	7,827.88	7,737.19	90.69	86.315		
1,300.00	1,293.06	15,134.00	7,566.57	4.63	139.08	2.88	1,824.04	4,011.31	7,734.43	7,643.30	91.13	84.868		
1,400.00	1,389.64	15,134.00	7,566.57	5.11	139.08	3.19	1,824.04	4,011.31	7,639.94	7,548.38	91.56	83.445		
1,500.00	1,485.27	15,134.00	7,566.57	5.63	139.08	3.56	1,824.04	4,011.31	7,544.49	7,452.54	91.95	82.046		
1,600.00	1,579.82	15,134.00	7,566.57	6.20	139.08	4.04	1,824.04	4,011.31	7,448.16	7,355.83	92.33	80.672		
1,700.00	1,673.17	15,134.00	7,566.57	6.83	139.08	4.66	1,824.04	4,011.31	7,351.03	7,258.36	92.67	79.325		
1,800.00	1,765.21	15,134.00	7,566.57	7.51	139.08	5.50	1,824.04	4,011.31	7,253.20	7,160.22	92.98	78.005		
1,900.00	1,855.84	15,134.00	7,566.57	8.24	139.08	6.69	1,824.04	4,011.31	7,154.76	7,061.49	93.27	76.714		
2,000.00	1,944.94	15,134.00	7,566.57	9.05	139.08	8.51	1,824.04	4,011.31	7,055.79	6,962.28	93.51	75.452		
2,100.00	2,032.39	15,134.00	7,566.57	9.91	139.08	11.65	1,824.04	4,011.31	6,956.41	6,862.69	93.73	74.220		
2,200.00	2,118.11	15,134.00	7,566.57	10.85	139.08	18.20	1,824.04	4,011.31	6,856.73	6,762.82	93.90	73.020		
2,300.00	2,201.97	15,134.00	7,566.57	11.85	139.08	38.53	1,824.04	4,011.31	6,756.84	6,662.80	94.04	71.852		
2,400.00	2,283.88	15,134.00	7,566.57	12.93	139.08	116.85	1,824.04	4,011.31	6,656.86	6,562.73	94.13	70.718		
2,429.47	2,307.63	15,134.00	7,566.57	13.26	139.08	135.58	1,824.04	4,011.31	6,627.40	6,533.25	94.15	70.390		
2,500.00	2,364.26	15,134.00	7,566.57	14.06	139.08	135.58	1,824.04	4,011.31	6,556.90	6,462.71	94.20	69.608		
2,600.00	2,444.56	15,134.00	7,566.57	15.22	139.08	135.58	1,824.04	4,011.31	6,456.95	6,362.68	94.26	68.500		
2,700.00	2,524.85	15,134.00	7,566.57	16.39	139.08	135.58	1,824.04	4,011.31	6,356.99	6,262.66	94.33	67.391		
2,800.00	2,605.14	15,134.00	7,566.57	17.57	139.08	135.58	1,824.04	4,011.31	6,257.03	6,162.63	94.40	66.281		
2,900.00	2,685.43	15,134.00	7,566.57	18.76	139.08	135.58	1,824.04	4,011.31	6,157.08	6,062.61	94.48	65.171		
3,000.00	2,765.73	15,134.00	7,566.57	19.96	139.08	135.58	1,824.04	4,011.31	6,057.13	5,962.58	94.55	64.060		
3,100.00	2,846.02	15,134.00	7,566.57	21.16	139.08	135.58	1,824.04	4,011.31	5,957.18	5,862.55	94.63	62.950		
3,200.00	2,926.31	15,134.00	7,566.57	22.37	139.08	135.58	1,824.04	4,011.31	5,857.23	5,762.52	94.72	61.840		
3,300.00	3,006.60	15,134.00	7,566.57	23.59	139.08	135.58	1,824.04	4,011.31	5,757.29	5,662.48	94.80	60.729		
3,400.00	3,086.90	15,134.00	7,566.57	24.81	139.08	135.58	1,824.04	4,011.31	5,657.34	5,562.45	94.89	59.619		
3,500.00	3,167.19	15,134.00	7,566.57	26.03	139.08	135.58	1,824.04	4,011.31	5,557.40	5,462.41	94.98	58.510		
3,600.00	3,247.48	15,134.00	7,566.57	27.25	139.08	135.58	1,824.04	4,011.31	5,457.46	5,362.38	95.08	57.400		
3,700.00	3,327.77	15,134.00	7,566.57	28.48	139.08	135.58	1,824.04	4,011.31	5,357.52	5,262.34	95.17	56.292		
3,800.00	3,408.07	15,134.00	7,566.57	29.71	139.08	135.58	1,824.04	4,011.31	5,257.58	5,162.31	95.27	55.184		
3,900.00	3,488.36	15,134.00	7,566.57	30.94	139.08	135.58	1,824.04	4,011.31	5,157.65	5,062.27	95.38	54.077		
4,000.00	3,568.65	15,134.00	7,566.57	32.17	139.08	135.58	1,824.04	4,011.31	5,057.72	4,962.24	95.48	52.970		
4,100.00	3,648.95	15,134.00	7,566.57	33.41	139.08	135.58	1,824.04	4,011.31	4,957.79	4,862.20	95.59	51.865		
4,200.00	3,729.24	15,134.00	7,566.57	34.64	139.08	135.58	1,824.04	4,011.31	4,857.86	4,762.16	95.70	50.761		
4,300.00	3,809.53	15,134.00	7,566.57	35.88	139.08	135.58	1,824.04	4,011.31	4,757.94	4,662.13	95.81	49.658		
4,400.00	3,889.82	15,134.00	7,566.57	37.12	139.08	135.58	1,824.04	4,011.31	4,658.02	4,562.09	95.93	48.556		
4,500.00	3,970.12	15,134.00	7,566.57	38.36	139.08	135.58	1,824.04	4,011.31	4,558.11	4,462.06	96.05	47.456		
4,600.00	4,050.41	15,134.00	7,566.57	39.60	139.08	135.58	1,824.04	4,011.31	4,458.20	4,362.03	96.17	46.357		
4,700.00	4,130.70	15,134.00	7,566.57	40.84	139.08	135.58	1,824.04	4,011.31	4,358.29	4,262.00	96.29	45.260		
4,800.00	4,210.99	15,134.00	7,566.57	42.08	139.08	135.58	1,824.04	4,011.31	4,258.39	4,161.97	96.42	44.164		
4,900.00	4,291.29	15,134.00	7,566.57	43.32	139.08	135.58	1,824.04	4,011.31	4,158.49	4,061.94	96.55	43.070		
5,000.00	4,371.58	15,134.00	7,566.57	44.57	139.08	135.58	1,824.04	4,011.31	4,058.60	3,961.91	96.68	41.978		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	15,134.00	7,566.57	45.81	139.08	135.58	1,824.04	4,011.31	3,958.71	3,861.89	96.82	40.888		
5,200.00	4,532.16	15,134.00	7,566.57	47.05	139.08	135.58	1,824.04	4,011.31	3,858.83	3,761.87	96.96	39.799		
5,300.00	4,612.46	15,134.00	7,566.57	48.30	139.08	135.58	1,824.04	4,011.31	3,758.95	3,661.85	97.10	38.713		
5,400.00	4,692.75	15,134.00	7,566.57	49.54	139.08	135.58	1,824.04	4,011.31	3,659.08	3,561.84	97.24	37.628		
5,500.00	4,773.04	15,134.00	7,566.57	50.79	139.08	135.58	1,824.04	4,011.31	3,559.22	3,461.83	97.39	36.546		
5,600.00	4,853.34	15,134.00	7,566.57	52.03	139.08	135.58	1,824.04	4,011.31	3,459.37	3,361.83	97.54	35.466		
5,700.00	4,933.63	15,134.00	7,566.57	53.28	139.08	135.58	1,824.04	4,011.31	3,359.52	3,261.83	97.69	34.389		
5,800.00	5,013.92	15,134.00	7,566.57	54.53	139.08	135.58	1,824.04	4,011.31	3,259.69	3,161.84	97.85	33.313		
5,900.00	5,094.21	15,134.00	7,566.57	55.77	139.08	135.58	1,824.04	4,011.31	3,159.86	3,061.85	98.01	32.240		
6,000.00	5,174.51	15,134.00	7,566.57	57.02	139.08	135.58	1,824.04	4,011.31	3,060.05	2,961.87	98.17	31.170		
6,100.00	5,254.80	15,134.00	7,566.57	58.27	139.08	135.58	1,824.04	4,011.31	2,960.25	2,861.91	98.34	30.102		
6,200.00	5,335.09	15,134.00	7,566.57	59.52	139.08	135.58	1,824.04	4,011.31	2,860.46	2,761.95	98.51	29.036		
6,300.00	5,415.38	15,134.00	7,566.57	60.76	139.08	135.58	1,824.04	4,011.31	2,760.69	2,662.00	98.69	27.974		
6,400.00	5,495.68	15,134.00	7,566.57	62.01	139.08	135.58	1,824.04	4,011.31	2,660.93	2,562.06	98.87	26.913		
6,500.00	5,575.97	15,134.00	7,566.57	63.26	139.08	135.58	1,824.04	4,011.31	2,561.20	2,462.14	99.06	25.856		
6,600.00	5,656.26	15,134.00	7,566.57	64.51	139.08	135.58	1,824.04	4,011.31	2,461.48	2,362.24	99.25	24.801		
6,700.00	5,736.55	15,134.00	7,566.57	65.76	139.08	135.58	1,824.04	4,011.31	2,361.79	2,262.35	99.45	23.749		
6,800.00	5,816.85	15,134.00	7,566.57	67.01	139.08	135.58	1,824.04	4,011.31	2,262.13	2,162.48	99.65	22.700		
6,900.00	5,897.14	15,134.00	7,566.57	68.26	139.08	135.58	1,824.04	4,011.31	2,162.50	2,062.63	99.87	21.654		
7,000.00	5,977.43	15,134.00	7,566.57	69.50	139.08	135.58	1,824.04	4,011.31	2,062.91	1,962.82	100.09	20.610		
7,100.00	6,057.72	15,134.00	7,566.57	70.75	139.08	135.58	1,824.04	4,011.31	1,963.35	1,863.03	100.33	19.570		
7,200.00	6,138.02	15,134.00	7,566.57	72.00	139.08	135.58	1,824.04	4,011.31	1,863.84	1,763.27	100.57	18.532		
7,300.00	6,218.31	15,134.00	7,566.57	73.25	139.08	135.58	1,824.04	4,011.31	1,764.39	1,663.56	100.84	17.497		
7,400.00	6,298.60	15,134.00	7,566.57	74.50	139.08	135.58	1,824.04	4,011.31	1,665.01	1,563.89	101.12	16.466		
7,500.00	6,378.90	15,134.00	7,566.57	75.75	139.08	135.58	1,824.04	4,011.31	1,565.70	1,464.27	101.43	15.437		
7,600.00	6,459.19	15,134.00	7,566.57	77.00	139.08	135.58	1,824.04	4,011.31	1,466.49	1,364.73	101.76	14.411		
7,700.00	6,539.48	15,134.00	7,566.57	78.25	139.08	135.58	1,824.04	4,011.31	1,367.39	1,265.26	102.14	13.388		
7,800.00	6,619.77	15,134.00	7,566.57	79.50	139.08	135.58	1,824.04	4,011.31	1,268.44	1,165.88	102.56	12.368		
7,900.00	6,700.07	15,134.00	7,566.57	80.75	139.08	135.58	1,824.04	4,011.31	1,169.66	1,066.62	103.03	11.352		
8,000.00	6,780.36	15,134.00	7,566.57	82.00	139.08	135.58	1,824.04	4,011.31	1,071.11	967.51	103.59	10.340		
8,100.00	6,860.65	15,134.00	7,566.57	83.25	139.08	135.58	1,824.04	4,011.31	972.85	868.60	104.25	9.332		
8,200.00	6,940.94	15,134.00	7,566.57	84.50	139.08	135.58	1,824.04	4,011.31	874.99	769.93	105.05	8.329		
8,300.00	7,021.24	15,134.00	7,566.57	85.76	139.08	135.58	1,824.04	4,011.31	777.67	671.63	106.04	7.334		
8,400.00	7,101.53	15,120.59	7,566.28	87.01	138.85	137.29	1,837.45	4,011.11	681.00	575.19	105.82	6.436		
8,500.00	7,181.82	15,096.90	7,565.75	88.26	138.43	140.93	1,861.13	4,010.74	584.58	480.37	104.21	5.610		
8,605.60	7,266.61	15,072.31	7,565.21	89.58	138.01	145.84	1,885.71	4,010.37	483.09	381.15	101.93	4.739		
8,650.00	7,302.60	15,063.90	7,565.03	90.13	137.86	153.29	1,894.12	4,010.24	440.21	339.47	100.75	4.370		
8,700.00	7,343.78	15,058.20	7,564.92	90.72	137.76	167.66	1,899.81	4,010.16	391.46	292.36	99.09	3.950		
8,750.00	7,385.32	15,056.60	7,564.89	91.28	137.73	-176.34	1,901.42	4,010.14	342.62	245.58	97.04	3.531		
8,800.00	7,426.92	15,059.18	7,564.94	91.81	137.78	-166.54	1,898.83	4,010.18	294.20	199.66	94.54	3.112		
8,850.00	7,468.27	15,066.01	7,565.08	92.29	137.90	-164.16	1,892.01	4,010.27	246.78	155.15	91.63	2.693		
8,900.00	7,509.04	15,077.11	7,565.31	92.72	138.09	-167.05	1,880.91	4,010.44	201.10	112.46	88.65	2.269		
8,950.00	7,548.93	15,092.71	7,565.66	93.10	138.36	-173.83	1,865.32	4,010.68	158.27	71.08	87.19	1.815		
9,000.00	7,587.63	15,112.43	7,566.10	93.43	138.70	175.88	1,845.61	4,010.98	120.18	27.35	92.83	1.295 Level 3		
9,050.00	7,624.85	15,136.08	7,566.62	93.71	139.11	161.52	1,821.97	4,011.34	90.75	-28.49	119.25	0.761 Level 1		
9,088.78	7,652.51	15,134.00	7,566.57	93.88	139.08	160.51	1,824.04	4,011.31	81.64	-83.49	165.12	0.494 Level 1, CC		
9,100.00	7,660.30	15,134.00	7,566.57	93.93	139.08	159.60	1,824.04	4,011.31	82.44	-94.43	176.88	0.466 Level 1, SF		
9,150.00	7,693.72	15,134.00	7,566.57	94.10	139.08	154.03	1,824.04	4,011.31	102.91	-96.02	198.93	0.517 Level 1, ES		
9,200.00	7,724.85	15,134.00	7,566.57	94.23	139.08	145.74	1,824.04	4,011.31	139.97	-54.05	194.02	0.721 Level 1		
9,250.00	7,753.45	15,134.00	7,566.57	94.30	139.08	134.35	1,824.04	4,011.31	183.66	-2.19	185.86	0.988 Level 1		
9,300.00	7,779.31	15,134.00	7,566.57	94.34	139.08	120.00	1,824.04	4,011.31	230.01	50.94	179.07	1.284 Level 3		
9,350.00	7,802.23	15,134.00	7,566.57	94.33	139.08	104.10	1,824.04	4,011.31	277.42	103.70	173.73	1.597		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	15,134.00	7,566.57	94.28	139.08	89.05	1,824.04	4,011.31	325.16	155.78	169.38	1.920		
9,450.00	7,838.57	15,134.00	7,566.57	94.20	139.08	76.63	1,824.04	4,011.31	372.79	207.12	165.67	2.250		
9,500.00	7,851.72	15,134.00	7,566.57	94.10	139.08	67.18	1,824.04	4,011.31	420.06	257.71	162.35	2.587		
9,550.00	7,861.37	15,134.00	7,566.57	93.96	139.08	60.23	1,824.04	4,011.31	466.77	307.50	159.27	2.931		
9,600.00	7,867.46	15,134.00	7,566.57	93.81	139.08	55.17	1,824.04	4,011.31	512.76	356.44	156.32	3.280		
9,650.00	7,869.94	15,134.00	7,566.57	93.64	139.08	51.51	1,824.04	4,011.31	557.91	404.48	153.43	3.636		
9,659.14	7,870.00	15,134.00	7,566.57	93.60	139.08	50.96	1,824.04	4,011.31	566.06	413.16	152.90	3.702		
9,700.00	7,870.00	15,134.00	7,566.57	93.46	139.08	50.96	1,824.04	4,011.31	602.73	452.07	150.66	4.001		
9,800.00	7,870.00	15,134.00	7,566.57	93.11	139.08	50.96	1,824.04	4,011.31	694.43	548.51	145.92	4.759		
9,900.00	7,870.00	15,134.00	7,566.57	92.77	139.08	50.96	1,824.04	4,011.31	788.16	646.04	142.11	5.546		
10,000.00	7,870.00	15,134.00	7,566.57	92.46	139.08	50.96	1,824.04	4,011.31	883.26	744.21	139.05	6.352		
10,100.00	7,870.00	15,134.00	7,566.57	92.16	139.08	50.96	1,824.04	4,011.31	979.34	842.78	136.55	7.172		
10,200.00	7,870.00	15,134.00	7,566.57	91.87	139.08	50.96	1,824.04	4,011.31	1,076.13	941.63	134.50	8.001		
10,300.00	7,870.00	15,134.00	7,566.57	91.60	139.08	50.96	1,824.04	4,011.31	1,173.46	1,040.67	132.80	8.837		
10,400.00	7,870.00	15,134.00	7,566.57	91.34	139.08	50.96	1,824.04	4,011.31	1,271.21	1,139.84	131.36	9.677		
10,500.00	7,870.00	15,134.00	7,566.57	91.11	139.08	50.96	1,824.04	4,011.31	1,369.28	1,239.13	130.15	10.521		
10,600.00	7,870.00	15,134.00	7,566.57	90.88	139.08	50.96	1,824.04	4,011.31	1,467.61	1,338.50	129.11	11.367		
10,700.00	7,870.00	15,134.00	7,566.57	90.67	139.08	50.96	1,824.04	4,011.31	1,566.15	1,437.94	128.21	12.216		
10,800.00	7,870.00	15,134.00	7,566.57	90.48	139.08	50.96	1,824.04	4,011.31	1,664.87	1,537.44	127.43	13.065		
10,900.00	7,870.00	15,134.00	7,566.57	90.31	139.08	50.96	1,824.04	4,011.31	1,763.73	1,636.99	126.74	13.916		
11,000.00	7,870.00	15,134.00	7,566.57	90.15	139.08	50.96	1,824.04	4,011.31	1,862.71	1,736.57	126.14	14.767		
11,100.00	7,870.00	15,134.00	7,566.57	90.00	139.08	50.96	1,824.04	4,011.31	1,961.80	1,836.20	125.60	15.619		
11,200.00	7,870.00	15,134.00	7,566.57	89.88	139.08	50.96	1,824.04	4,011.31	2,060.97	1,935.85	125.12	16.471		
11,300.00	7,870.00	15,134.00	7,566.57	89.77	139.08	50.96	1,824.04	4,011.31	2,160.22	2,035.53	124.70	17.324		
11,400.00	7,870.00	15,134.00	7,566.57	89.68	139.08	50.96	1,824.04	4,011.31	2,259.54	2,135.23	124.31	18.176		
11,500.00	7,870.00	15,134.00	7,566.57	89.60	139.08	50.96	1,824.04	4,011.31	2,358.91	2,234.95	123.96	19.029		
11,600.00	7,870.00	15,134.00	7,566.57	89.55	139.08	50.96	1,824.04	4,011.31	2,458.34	2,334.69	123.65	19.882		
11,700.00	7,870.00	15,134.00	7,566.57	89.52	139.08	50.96	1,824.04	4,011.31	2,557.81	2,434.45	123.36	20.735		
11,800.00	7,870.00	15,134.00	7,566.57	89.50	139.08	50.96	1,824.04	4,011.31	2,657.32	2,534.22	123.10	21.587		
11,900.00	7,870.00	15,134.00	7,566.57	89.51	139.08	50.96	1,824.04	4,011.31	2,756.86	2,634.01	122.85	22.440		
12,000.00	7,870.00	15,134.00	7,566.57	89.54	139.08	50.96	1,824.04	4,011.31	2,856.44	2,733.81	122.63	23.293		
12,100.00	7,870.00	15,134.00	7,566.57	89.59	139.08	50.96	1,824.04	4,011.31	2,956.05	2,833.62	122.43	24.145		
12,200.00	7,870.00	15,134.00	7,566.57	89.66	139.08	50.96	1,824.04	4,011.31	3,055.68	2,933.44	122.24	24.997		
12,300.00	7,870.00	15,134.00	7,566.57	89.77	139.08	50.96	1,824.04	4,011.31	3,155.33	3,033.27	122.07	25.849		
12,400.00	7,870.00	15,134.00	7,566.57	89.89	139.08	50.96	1,824.04	4,011.31	3,255.01	3,133.10	121.90	26.701		
12,500.00	7,870.00	15,134.00	7,566.57	90.05	139.08	50.96	1,824.04	4,011.31	3,354.70	3,232.95	121.75	27.553		
12,600.00	7,870.00	15,134.00	7,566.57	90.24	139.08	50.96	1,824.04	4,011.31	3,454.42	3,332.80	121.61	28.405		
12,700.00	7,870.00	15,134.00	7,566.57	90.46	139.08	50.96	1,824.04	4,011.31	3,554.14	3,432.66	121.48	29.256		
12,800.00	7,870.00	15,134.00	7,566.57	90.71	139.08	50.96	1,824.04	4,011.31	3,653.89	3,532.53	121.36	30.107		
12,900.00	7,870.00	15,134.00	7,566.57	90.99	139.08	50.96	1,824.04	4,011.31	3,753.65	3,632.40	121.25	30.958		
13,000.00	7,870.00	15,134.00	7,566.57	91.32	139.08	50.96	1,824.04	4,011.31	3,853.42	3,732.27	121.14	31.809		
13,100.00	7,870.00	15,134.00	7,566.57	91.68	139.08	50.96	1,824.04	4,011.31	3,953.20	3,832.16	121.04	32.660		
13,200.00	7,870.00	15,134.00	7,566.57	92.08	139.08	50.96	1,824.04	4,011.31	4,052.99	3,932.04	120.95	33.510		
13,300.00	7,870.00	15,134.00	7,566.57	92.52	139.08	50.96	1,824.04	4,011.31	4,152.79	4,031.93	120.86	34.360		
13,400.00	7,870.00	15,134.00	7,566.57	93.00	139.08	50.96	1,824.04	4,011.31	4,252.60	4,131.83	120.78	35.210		
13,500.00	7,870.00	15,134.00	7,566.57	93.53	139.08	50.96	1,824.04	4,011.31	4,352.42	4,231.72	120.70	36.060		
13,600.00	7,870.00	15,134.00	7,566.57	94.10	139.08	50.96	1,824.04	4,011.31	4,452.25	4,331.63	120.63	36.910		
13,700.00	7,870.00	15,134.00	7,566.57	94.72	139.08	50.96	1,824.04	4,011.31	4,552.09	4,431.53	120.56	37.759		
13,800.00	7,870.00	15,134.00	7,566.57	95.38	139.08	50.96	1,824.04	4,011.31	4,651.93	4,531.44	120.49	38.608		
13,900.00	7,870.00	15,134.00	7,566.57	96.09	139.08	50.96	1,824.04	4,011.31	4,751.78	4,631.35	120.43	39.456		
14,000.00	7,870.00	15,134.00	7,566.57	96.84	139.08	50.96	1,824.04	4,011.31	4,851.64	4,731.26	120.37	40.305		
14,100.00	7,870.00	15,134.00	7,566.57	97.64	139.08	50.96	1,824.04	4,011.31	4,951.50	4,831.18	120.32	41.153		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	15,134.00	7,566.57	98.48	139.08	50.96	1,824.04	4,011.31	5,051.36	4,931.10	120.27	42.001		
14,300.00	7,870.00	15,134.00	7,566.57	99.37	139.08	50.96	1,824.04	4,011.31	5,151.24	5,031.02	120.22	42.849		
14,400.00	7,870.00	15,134.00	7,566.57	100.30	139.08	50.96	1,824.04	4,011.31	5,251.11	5,130.94	120.17	43.696		
14,500.00	7,870.00	15,134.00	7,566.57	101.26	139.08	50.96	1,824.04	4,011.31	5,350.99	5,230.86	120.13	44.543		
14,600.00	7,870.00	15,134.00	7,566.57	102.27	139.08	50.96	1,824.04	4,011.31	5,450.88	5,330.79	120.09	45.390		
14,700.00	7,870.00	15,134.00	7,566.57	103.31	139.08	50.96	1,824.04	4,011.31	5,550.77	5,430.72	120.05	46.236		
14,800.00	7,870.00	15,134.00	7,566.57	104.38	139.08	50.96	1,824.04	4,011.31	5,650.66	5,530.65	120.02	47.082		
14,900.00	7,870.00	15,134.00	7,566.57	105.49	139.08	50.96	1,824.04	4,011.31	5,750.56	5,630.58	119.98	47.928		
15,000.00	7,870.00	15,134.00	7,566.57	106.63	139.08	50.96	1,824.04	4,011.31	5,850.46	5,730.51	119.95	48.773		
15,100.00	7,870.00	15,134.00	7,566.57	107.80	139.08	50.96	1,824.04	4,011.31	5,950.37	5,830.45	119.92	49.619		
15,200.00	7,870.00	15,134.00	7,566.57	109.00	139.08	50.96	1,824.04	4,011.31	6,050.28	5,930.38	119.89	50.463		
15,300.00	7,870.00	15,134.00	7,566.57	110.22	139.08	50.96	1,824.04	4,011.31	6,150.19	6,030.32	119.87	51.308		
15,400.00	7,870.00	15,134.00	7,566.57	111.47	139.08	50.96	1,824.04	4,011.31	6,250.10	6,130.26	119.84	52.152		
15,500.00	7,870.00	15,134.00	7,566.57	112.74	139.08	50.96	1,824.04	4,011.31	6,350.02	6,230.19	119.82	52.996		
15,600.00	7,870.00	15,134.00	7,566.57	114.03	139.08	50.96	1,824.04	4,011.31	6,449.93	6,330.13	119.80	53.839		
15,700.00	7,870.00	15,134.00	7,566.57	115.34	139.08	50.96	1,824.04	4,011.31	6,549.86	6,430.08	119.78	54.682		
15,800.00	7,870.00	15,134.00	7,566.57	116.68	139.08	50.96	1,824.04	4,011.31	6,649.78	6,530.02	119.76	55.525		
15,900.00	7,870.00	15,134.00	7,566.57	118.02	139.08	50.96	1,824.04	4,011.31	6,749.71	6,629.96	119.74	56.368		
16,000.00	7,870.00	15,134.00	7,566.57	119.39	139.08	50.96	1,824.04	4,011.31	6,849.63	6,729.90	119.73	57.210		
16,100.00	7,870.00	15,134.00	7,566.57	120.77	139.08	50.96	1,824.04	4,011.31	6,949.56	6,829.85	119.71	58.051		
16,200.00	7,870.00	15,134.00	7,566.57	122.17	139.08	50.96	1,824.04	4,011.31	7,049.50	6,929.79	119.70	58.892		
16,300.00	7,870.00	15,134.00	7,566.57	123.58	139.08	50.96	1,824.04	4,011.31	7,149.43	7,029.74	119.69	59.733		
16,400.00	7,870.00	15,134.00	7,566.57	125.00	139.08	50.96	1,824.04	4,011.31	7,249.37	7,129.69	119.68	60.574		
16,500.00	7,870.00	15,134.00	7,566.57	126.43	139.08	50.96	1,824.04	4,011.31	7,349.30	7,229.63	119.67	61.414		
16,600.00	7,870.00	15,134.00	7,566.57	127.88	139.08	50.96	1,824.04	4,011.31	7,449.24	7,329.58	119.66	62.253		
16,700.00	7,870.00	15,134.00	7,566.57	129.34	139.08	50.96	1,824.04	4,011.31	7,549.18	7,429.53	119.65	63.092		
16,800.00	7,870.00	15,134.00	7,566.57	130.81	139.08	50.96	1,824.04	4,011.31	7,649.13	7,529.48	119.65	63.931		
16,900.00	7,870.00	15,134.00	7,566.57	132.28	139.08	50.96	1,824.04	4,011.31	7,749.07	7,629.43	119.64	64.769		
17,000.00	7,870.00	15,134.00	7,566.57	133.77	139.08	50.96	1,824.04	4,011.31	7,849.01	7,729.38	119.64	65.607		
17,100.00	7,870.00	15,134.00	7,566.57	135.27	139.08	50.96	1,824.04	4,011.31	7,948.96	7,829.33	119.63	66.445		
17,200.00	7,870.00	15,134.00	7,566.57	136.77	139.08	50.96	1,824.04	4,011.31	8,048.91	7,929.28	119.63	67.282		
17,300.00	7,870.00	15,134.00	7,566.57	138.28	139.08	50.96	1,824.04	4,011.31	8,148.86	8,029.23	119.63	68.118		
17,400.00	7,870.00	15,134.00	7,566.57	139.80	139.08	50.96	1,824.04	4,011.31	8,248.81	8,129.18	119.63	68.955		
17,500.00	7,870.00	15,134.00	7,566.57	141.33	139.08	50.96	1,824.04	4,011.31	8,348.76	8,229.13	119.63	69.790		
17,600.00	7,870.00	15,134.00	7,566.57	142.86	139.08	50.96	1,824.04	4,011.31	8,448.71	8,329.09	119.63	70.625		
17,700.00	7,870.00	15,134.00	7,566.57	144.40	139.08	50.96	1,824.04	4,011.31	8,548.67	8,429.04	119.63	71.460		
17,800.00	7,870.00	15,134.00	7,566.57	145.95	139.08	50.96	1,824.04	4,011.31	8,648.62	8,528.99	119.63	72.294		
17,900.00	7,870.00	15,134.00	7,566.57	147.50	139.08	50.96	1,824.04	4,011.31	8,748.58	8,628.95	119.63	73.128		
18,000.00	7,870.00	15,134.00	7,566.57	149.06	139.08	50.96	1,824.04	4,011.31	8,848.54	8,728.90	119.64	73.961		
18,100.00	7,870.00	15,134.00	7,566.57	150.63	139.08	50.96	1,824.04	4,011.31	8,948.49	8,828.85	119.64	74.794		
18,200.00	7,870.00	15,134.00	7,566.57	152.20	139.08	50.96	1,824.04	4,011.31	9,048.45	8,928.81	119.65	75.626		
18,300.00	7,870.00	15,134.00	7,566.57	153.77	139.08	50.96	1,824.04	4,011.31	9,148.41	9,028.76	119.65	76.458		
18,400.00	7,870.00	15,134.00	7,566.57	155.35	139.08	50.96	1,824.04	4,011.31	9,248.37	9,128.71	119.66	77.289		
18,500.00	7,870.00	15,134.00	7,566.57	156.93	139.08	50.96	1,824.04	4,011.31	9,348.33	9,228.67	119.67	78.120		
18,600.00	7,870.00	15,134.00	7,566.57	158.52	139.08	50.96	1,824.04	4,011.31	9,448.30	9,328.62	119.67	78.950		
18,700.00	7,870.00	15,134.00	7,566.57	160.11	139.08	50.96	1,824.04	4,011.31	9,548.26	9,428.58	119.68	79.780		
18,800.00	7,870.00	15,134.00	7,566.57	161.71	139.08	50.96	1,824.04	4,011.31	9,648.22	9,528.53	119.69	80.609		
18,900.00	7,870.00	15,134.00	7,566.57	163.31	139.08	50.96	1,824.04	4,011.31	9,748.19	9,628.49	119.70	81.437		
19,000.00	7,870.00	15,134.00	7,566.57	164.91	139.08	50.96	1,824.04	4,011.31	9,848.15	9,728.44	119.71	82.265		
19,100.00	7,870.00	15,134.00	7,566.57	166.52	139.08	50.96	1,824.04	4,011.31	9,948.12	9,828.40	119.72	83.093		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	71.32	1,855.90	5,490.13	9,840.77					
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.32	1,855.90	5,490.13	9,760.13	9,665.97	94.16	103.656		
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.32	1,855.90	5,490.13	9,679.84	9,585.24	94.60	102.323		
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.32	1,855.90	5,490.13	9,599.93	9,504.85	95.08	100.968		
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.32	1,855.90	5,490.13	9,520.40	9,424.81	95.59	99.595		
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.32	1,855.90	5,490.13	9,441.26	9,345.12	96.14	98.207		
600.00	600.00	15,352.00	7,829.29	1.93	138.31	71.32	1,855.90	5,490.13	9,362.52	9,265.81	96.71	96.808		
700.00	699.98	15,352.00	7,829.29	2.28	138.31	7.85	1,855.90	5,490.13	9,283.12	9,185.80	97.32	95.388		
800.00	799.84	15,352.00	7,829.29	2.64	138.31	8.24	1,855.90	5,490.13	9,202.04	9,104.10	97.94	93.954		
900.00	899.45	15,352.00	7,829.29	3.00	138.31	8.67	1,855.90	5,490.13	9,119.34	9,020.79	98.55	92.531		
1,000.00	998.70	15,352.00	7,829.29	3.37	138.31	9.16	1,855.90	5,490.13	9,035.07	8,935.92	99.16	91.119		
1,100.00	1,097.47	15,352.00	7,829.29	3.76	138.31	9.70	1,855.90	5,490.13	8,949.30	8,849.55	99.75	89.720		
1,200.00	1,195.62	15,352.00	7,829.29	4.18	138.31	10.32	1,855.90	5,490.13	8,862.08	8,761.76	100.32	88.337		
1,300.00	1,293.06	15,352.00	7,829.29	4.63	138.31	11.03	1,855.90	5,490.13	8,773.48	8,672.60	100.88	86.970		
1,400.00	1,389.64	15,352.00	7,829.29	5.11	138.31	11.85	1,855.90	5,490.13	8,683.57	8,582.15	101.42	85.620		
1,500.00	1,485.27	15,352.00	7,829.29	5.63	138.31	12.79	1,855.90	5,490.13	8,592.41	8,490.47	101.94	84.287		
1,600.00	1,579.82	15,352.00	7,829.29	6.20	138.31	13.90	1,855.90	5,490.13	8,500.09	8,397.65	102.44	82.973		
1,700.00	1,673.17	15,352.00	7,829.29	6.83	138.31	15.22	1,855.90	5,490.13	8,406.67	8,303.75	102.92	81.678		
1,800.00	1,765.21	15,352.00	7,829.29	7.51	138.31	16.80	1,855.90	5,490.13	8,312.24	8,208.86	103.38	80.403		
1,900.00	1,855.84	15,352.00	7,829.29	8.24	138.31	18.74	1,855.90	5,490.13	8,216.88	8,113.06	103.82	79.148		
2,000.00	1,944.94	15,352.00	7,829.29	9.05	138.31	21.15	1,855.90	5,490.13	8,120.66	8,016.44	104.23	77.915		
2,100.00	2,032.39	15,352.00	7,829.29	9.91	138.31	24.21	1,855.90	5,490.13	8,023.69	7,919.09	104.61	76.703		
2,200.00	2,118.11	15,352.00	7,829.29	10.85	138.31	28.20	1,855.90	5,490.13	7,926.06	7,821.10	104.96	75.513		
2,300.00	2,201.97	15,352.00	7,829.29	11.85	138.31	33.55	1,855.90	5,490.13	7,827.85	7,722.56	105.29	74.346		
2,400.00	2,283.88	15,352.00	7,829.29	12.93	138.31	40.91	1,855.90	5,490.13	7,729.18	7,623.59	105.59	73.203		
2,429.47	2,307.63	15,352.00	7,829.29	13.26	138.31	43.59	1,855.90	5,490.13	7,700.02	7,594.35	105.67	72.870		
2,500.00	2,364.26	15,352.00	7,829.29	14.06	138.31	43.59	1,855.90	5,490.13	7,630.22	7,524.36	105.86	72.079		
2,600.00	2,444.56	15,352.00	7,829.29	15.22	138.31	43.59	1,855.90	5,490.13	7,531.27	7,425.13	106.14	70.957		
2,700.00	2,524.85	15,352.00	7,829.29	16.39	138.31	43.59	1,855.90	5,490.13	7,432.35	7,325.92	106.43	69.834		
2,800.00	2,605.14	15,352.00	7,829.29	17.57	138.31	43.59	1,855.90	5,490.13	7,333.46	7,226.74	106.73	68.711		
2,900.00	2,685.43	15,352.00	7,829.29	18.76	138.31	43.59	1,855.90	5,490.13	7,234.61	7,127.57	107.04	67.588		
3,000.00	2,765.73	15,352.00	7,829.29	19.96	138.31	43.59	1,855.90	5,490.13	7,135.78	7,028.42	107.36	66.465		
3,100.00	2,846.02	15,352.00	7,829.29	21.16	138.31	43.59	1,855.90	5,490.13	7,036.99	6,929.29	107.69	65.343		
3,200.00	2,926.31	15,352.00	7,829.29	22.37	138.31	43.59	1,855.90	5,490.13	6,938.23	6,830.19	108.04	64.221		
3,300.00	3,006.60	15,352.00	7,829.29	23.59	138.31	43.59	1,855.90	5,490.13	6,839.50	6,731.11	108.39	63.099		
3,400.00	3,086.90	15,352.00	7,829.29	24.81	138.31	43.59	1,855.90	5,490.13	6,740.82	6,632.06	108.76	61.979		
3,500.00	3,167.19	15,352.00	7,829.29	26.03	138.31	43.59	1,855.90	5,490.13	6,642.17	6,533.03	109.14	60.860		
3,600.00	3,247.48	15,352.00	7,829.29	27.25	138.31	43.59	1,855.90	5,490.13	6,543.57	6,434.04	109.53	59.742		
3,700.00	3,327.77	15,352.00	7,829.29	28.48	138.31	43.59	1,855.90	5,490.13	6,445.01	6,335.07	109.94	58.625		
3,800.00	3,408.07	15,352.00	7,829.29	29.71	138.31	43.59	1,855.90	5,490.13	6,346.49	6,236.14	110.35	57.510		
3,900.00	3,488.36	15,352.00	7,829.29	30.94	138.31	43.59	1,855.90	5,490.13	6,248.02	6,137.23	110.79	56.397		
4,000.00	3,568.65	15,352.00	7,829.29	32.17	138.31	43.59	1,855.90	5,490.13	6,149.60	6,038.37	111.23	55.286		
4,100.00	3,648.95	15,352.00	7,829.29	33.41	138.31	43.59	1,855.90	5,490.13	6,051.23	5,939.54	111.69	54.177		
4,200.00	3,729.24	15,352.00	7,829.29	34.64	138.31	43.59	1,855.90	5,490.13	5,952.92	5,840.75	112.17	53.071		
4,300.00	3,809.53	15,352.00	7,829.29	35.88	138.31	43.59	1,855.90	5,490.13	5,854.66	5,742.00	112.66	51.967		
4,400.00	3,889.82	15,352.00	7,829.29	37.12	138.31	43.59	1,855.90	5,490.13	5,756.46	5,643.29	113.17	50.866		
4,500.00	3,970.12	15,352.00	7,829.29	38.36	138.31	43.59	1,855.90	5,490.13	5,658.33	5,544.63	113.70	49.767		
4,600.00	4,050.41	15,352.00	7,829.29	39.60	138.31	43.59	1,855.90	5,490.13	5,560.26	5,446.02	114.24	48.672		
4,700.00	4,130.70	15,352.00	7,829.29	40.84	138.31	43.59	1,855.90	5,490.13	5,462.26	5,347.46	114.80	47.580		
4,800.00	4,210.99	15,352.00	7,829.29	42.08	138.31	43.59	1,855.90	5,490.13	5,364.34	5,248.96	115.38	46.491		
4,900.00	4,291.29	15,352.00	7,829.29	43.32	138.31	43.59	1,855.90	5,490.13	5,266.50	5,150.51	115.99	45.406		
5,000.00	4,371.58	15,352.00	7,829.29	44.57	138.31	43.59	1,855.90	5,490.13	5,168.73	5,052.12	116.61	44.324		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	15,352.00	7,829.29	45.81	138.31	43.59	1,855.90	5,490.13	5,071.06	4,953.80	117.26	43.247		
5,200.00	4,532.16	15,352.00	7,829.29	47.05	138.31	43.59	1,855.90	5,490.13	4,973.47	4,855.54	117.93	42.173		
5,300.00	4,612.46	15,352.00	7,829.29	48.30	138.31	43.59	1,855.90	5,490.13	4,875.99	4,757.36	118.63	41.104		
5,400.00	4,692.75	15,352.00	7,829.29	49.54	138.31	43.59	1,855.90	5,490.13	4,778.61	4,659.26	119.35	40.039		
5,500.00	4,773.04	15,352.00	7,829.29	50.79	138.31	43.59	1,855.90	5,490.13	4,681.34	4,561.24	120.10	38.979		
5,600.00	4,853.34	15,352.00	7,829.29	52.03	138.31	43.59	1,855.90	5,490.13	4,584.18	4,463.31	120.88	37.924		
5,700.00	4,933.63	15,352.00	7,829.29	53.28	138.31	43.59	1,855.90	5,490.13	4,487.15	4,365.47	121.69	36.875		
5,800.00	5,013.92	15,352.00	7,829.29	54.53	138.31	43.59	1,855.90	5,490.13	4,390.26	4,267.73	122.53	35.830		
5,900.00	5,094.21	15,352.00	7,829.29	55.77	138.31	43.59	1,855.90	5,490.13	4,293.51	4,170.10	123.41	34.791		
6,000.00	5,174.51	15,352.00	7,829.29	57.02	138.31	43.59	1,855.90	5,490.13	4,196.91	4,072.59	124.32	33.759		
6,100.00	5,254.80	15,352.00	7,829.29	58.27	138.31	43.59	1,855.90	5,490.13	4,100.47	3,975.19	125.27	32.732		
6,200.00	5,335.09	15,352.00	7,829.29	59.52	138.31	43.59	1,855.90	5,490.13	4,004.21	3,877.94	126.27	31.712		
6,300.00	5,415.38	15,352.00	7,829.29	60.76	138.31	43.59	1,855.90	5,490.13	3,908.13	3,780.82	127.31	30.699		
6,400.00	5,495.68	15,352.00	7,829.29	62.01	138.31	43.59	1,855.90	5,490.13	3,812.26	3,683.87	128.39	29.692		
6,500.00	5,575.97	15,352.00	7,829.29	63.26	138.31	43.59	1,855.90	5,490.13	3,716.60	3,587.08	129.53	28.694		
6,600.00	5,656.26	15,352.00	7,829.29	64.51	138.31	43.59	1,855.90	5,490.13	3,621.18	3,490.47	130.72	27.703		
6,700.00	5,736.55	15,352.00	7,829.29	65.76	138.31	43.59	1,855.90	5,490.13	3,526.01	3,394.05	131.96	26.720		
6,800.00	5,816.85	15,352.00	7,829.29	67.01	138.31	43.59	1,855.90	5,490.13	3,431.12	3,297.85	133.27	25.746		
6,900.00	5,897.14	15,352.00	7,829.29	68.26	138.31	43.59	1,855.90	5,490.13	3,336.53	3,201.89	134.64	24.781		
7,000.00	5,977.43	15,352.00	7,829.29	69.50	138.31	43.59	1,855.90	5,490.13	3,242.26	3,106.18	136.08	23.826		
7,100.00	6,057.72	15,352.00	7,829.29	70.75	138.31	43.59	1,855.90	5,490.13	3,148.34	3,010.75	137.60	22.881		
7,200.00	6,138.02	15,352.00	7,829.29	72.00	138.31	43.59	1,855.90	5,490.13	3,054.81	2,915.62	139.19	21.947		
7,300.00	6,218.31	15,352.00	7,829.29	73.25	138.31	43.59	1,855.90	5,490.13	2,961.71	2,820.84	140.87	21.024		
7,400.00	6,298.60	15,352.00	7,829.29	74.50	138.31	43.59	1,855.90	5,490.13	2,869.07	2,726.42	142.65	20.113		
7,500.00	6,378.90	15,352.00	7,829.29	75.75	138.31	43.59	1,855.90	5,490.13	2,776.93	2,632.42	144.52	19.215		
7,600.00	6,459.19	15,352.00	7,829.29	77.00	138.31	43.59	1,855.90	5,490.13	2,685.36	2,538.87	146.49	18.331		
7,700.00	6,539.48	15,352.00	7,829.29	78.25	138.31	43.59	1,855.90	5,490.13	2,594.42	2,445.84	148.58	17.461		
7,800.00	6,619.77	15,352.00	7,829.29	79.50	138.31	43.59	1,855.90	5,490.13	2,504.16	2,353.37	150.79	16.607		
7,900.00	6,700.07	15,352.00	7,829.29	80.75	138.31	43.59	1,855.90	5,490.13	2,414.67	2,261.54	153.13	15.769		
8,000.00	6,780.36	15,352.00	7,829.29	82.00	138.31	43.59	1,855.90	5,490.13	2,326.04	2,170.44	155.60	14.948		
8,100.00	6,860.65	15,352.00	7,829.29	83.25	138.31	43.59	1,855.90	5,490.13	2,238.37	2,080.15	158.22	14.147		
8,200.00	6,940.94	15,352.00	7,829.29	84.50	138.31	43.59	1,855.90	5,490.13	2,151.77	1,990.78	160.99	13.366		
8,300.00	7,021.24	15,352.00	7,829.29	85.76	138.31	43.59	1,855.90	5,490.13	2,066.38	1,902.47	163.92	12.606		
8,400.00	7,101.53	15,352.00	7,829.29	87.01	138.31	43.59	1,855.90	5,490.13	1,982.36	1,815.36	167.00	11.870		
8,500.00	7,181.82	15,346.37	7,829.17	88.26	138.21	43.33	1,861.52	5,490.13	1,899.88	1,729.90	169.98	11.177		
8,605.60	7,266.61	15,320.45	7,828.59	89.58	137.76	42.09	1,887.44	5,490.15	1,814.44	1,642.16	172.28	10.532		
8,650.00	7,302.60	15,311.23	7,828.39	90.13	137.60	30.07	1,896.66	5,490.16	1,778.73	1,605.44	173.29	10.264		
8,700.00	7,343.78	15,304.90	7,828.25	90.72	137.49	15.93	1,902.98	5,490.16	1,738.36	1,563.89	174.47	9.964		
8,750.00	7,385.32	15,302.93	7,828.20	91.28	137.46	1.64	1,904.96	5,490.16	1,698.15	1,522.48	175.67	9.667		
8,800.00	7,426.92	15,305.31	7,828.26	91.81	137.50	-12.23	1,902.58	5,490.16	1,658.47	1,481.57	176.90	9.375		
8,850.00	7,468.27	15,312.03	7,828.41	92.29	137.61	-25.20	1,895.86	5,490.15	1,619.63	1,441.50	178.13	9.092		
8,900.00	7,509.04	15,323.04	7,828.65	92.72	137.80	-36.93	1,884.85	5,490.15	1,581.95	1,402.60	179.36	8.820		
8,950.00	7,548.93	15,338.26	7,828.99	93.10	138.07	-47.26	1,869.63	5,490.14	1,545.73	1,365.16	180.57	8.560		
9,000.00	7,587.63	15,352.00	7,829.29	93.43	138.31	-56.39	1,855.90	5,490.13	1,511.24	1,329.80	181.44	8.329		
9,050.00	7,624.85	15,352.00	7,829.29	93.71	138.31	-64.80	1,855.90	5,490.13	1,478.96	1,297.72	181.24	8.160		
9,100.00	7,660.30	15,352.00	7,829.29	93.93	138.31	-71.93	1,855.90	5,490.13	1,449.36	1,268.63	180.73	8.019		
9,150.00	7,693.72	15,352.00	7,829.29	94.10	138.31	-77.90	1,855.90	5,490.13	1,422.84	1,242.92	179.92	7.908		
9,200.00	7,724.85	15,352.00	7,829.29	94.23	138.31	-82.84	1,855.90	5,490.13	1,399.78	1,220.96	178.82	7.828		
9,250.00	7,753.45	15,352.00	7,829.29	94.30	138.31	-86.86	1,855.90	5,490.13	1,380.54	1,203.07	177.47	7.779		
9,300.00	7,779.31	15,352.00	7,829.29	94.34	138.31	-90.05	1,855.90	5,490.13	1,365.42	1,189.51	175.91	7.762 SF		
9,350.00	7,802.23	15,352.00	7,829.29	94.33	138.31	-92.51	1,855.90	5,490.13	1,354.68	1,180.47	174.22	7.776		
9,400.00	7,822.03	15,352.00	7,829.29	94.28	138.31	-94.28	1,855.90	5,490.13	1,348.51	1,176.05	172.46	7.819		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,440.89	7,835.81	15,352.00	7,829.29	94.22	138.31	-95.26	1,855.90	5,490.13	1,346.94	1,175.91	171.03	7.876	CC, ES	
9,450.00	7,838.57	15,352.00	7,829.29	94.20	138.31	-95.43	1,855.90	5,490.13	1,347.01	1,176.30	170.71	7.891		
9,500.00	7,851.72	15,352.00	7,829.29	94.10	138.31	-95.97	1,855.90	5,490.13	1,350.22	1,181.18	169.05	7.987		
9,550.00	7,861.37	15,352.00	7,829.29	93.96	138.31	-95.91	1,855.90	5,490.13	1,358.08	1,190.56	167.52	8.107		
9,600.00	7,867.46	15,352.00	7,829.29	93.81	138.31	-95.27	1,855.90	5,490.13	1,370.44	1,204.29	166.15	8.248		
9,650.00	7,869.94	15,352.00	7,829.29	93.64	138.31	-94.02	1,855.90	5,490.13	1,387.09	1,222.15	164.94	8.410		
9,659.14	7,870.00	15,352.00	7,829.29	93.60	138.31	-93.73	1,855.90	5,490.13	1,390.58	1,225.84	164.74	8.441		
9,700.00	7,870.00	15,352.00	7,829.29	93.46	138.31	-93.73	1,855.90	5,490.13	1,406.97	1,243.07	163.90	8.584		
9,800.00	7,870.00	15,352.00	7,829.29	93.11	138.31	-93.73	1,855.90	5,490.13	1,451.17	1,288.85	162.32	8.940		
9,900.00	7,870.00	15,352.00	7,829.29	92.77	138.31	-93.73	1,855.90	5,490.13	1,500.74	1,339.53	161.20	9.310		
10,000.00	7,870.00	15,352.00	7,829.29	92.46	138.31	-93.73	1,855.90	5,490.13	1,555.17	1,394.82	160.34	9.699		
10,100.00	7,870.00	15,352.00	7,829.29	92.16	138.31	-93.73	1,855.90	5,490.13	1,613.96	1,454.36	159.60	10.112		
10,200.00	7,870.00	15,352.00	7,829.29	91.87	138.31	-93.73	1,855.90	5,490.13	1,676.66	1,517.77	158.89	10.552		
10,300.00	7,870.00	15,352.00	7,829.29	91.60	138.31	-93.73	1,855.90	5,490.13	1,742.85	1,584.67	158.18	11.018		
10,400.00	7,870.00	15,352.00	7,829.29	91.34	138.31	-93.73	1,855.90	5,490.13	1,812.14	1,654.70	157.44	11.510		
10,500.00	7,870.00	15,352.00	7,829.29	91.11	138.31	-93.73	1,855.90	5,490.13	1,884.19	1,727.51	156.67	12.026		
10,600.00	7,870.00	15,352.00	7,829.29	90.88	138.31	-93.73	1,855.90	5,490.13	1,958.69	1,802.81	155.89	12.565		
10,700.00	7,870.00	15,352.00	7,829.29	90.67	138.31	-93.73	1,855.90	5,490.13	2,035.39	1,880.31	155.08	13.125		
10,800.00	7,870.00	15,352.00	7,829.29	90.48	138.31	-93.73	1,855.90	5,490.13	2,114.03	1,959.76	154.27	13.704		
10,900.00	7,870.00	15,352.00	7,829.29	90.31	138.31	-93.73	1,855.90	5,490.13	2,194.41	2,040.96	153.46	14.300		
11,000.00	7,870.00	15,352.00	7,829.29	90.15	138.31	-93.73	1,855.90	5,490.13	2,276.35	2,123.70	152.65	14.912		
11,100.00	7,870.00	15,352.00	7,829.29	90.00	138.31	-93.73	1,855.90	5,490.13	2,359.68	2,207.83	151.86	15.539		
11,200.00	7,870.00	15,352.00	7,829.29	89.88	138.31	-93.73	1,855.90	5,490.13	2,444.26	2,293.19	151.08	16.179		
11,300.00	7,870.00	15,352.00	7,829.29	89.77	138.31	-93.73	1,855.90	5,490.13	2,529.97	2,379.65	150.32	16.830		
11,400.00	7,870.00	15,352.00	7,829.29	89.68	138.31	-93.73	1,855.90	5,490.13	2,616.69	2,467.10	149.59	17.493		
11,500.00	7,870.00	15,352.00	7,829.29	89.60	138.31	-93.73	1,855.90	5,490.13	2,704.33	2,555.45	148.88	18.164		
11,600.00	7,870.00	15,352.00	7,829.29	89.55	138.31	-93.73	1,855.90	5,490.13	2,792.80	2,644.60	148.20	18.845		
11,700.00	7,870.00	15,352.00	7,829.29	89.52	138.31	-93.73	1,855.90	5,490.13	2,882.02	2,734.48	147.54	19.533		
11,800.00	7,870.00	15,352.00	7,829.29	89.50	138.31	-93.73	1,855.90	5,490.13	2,971.93	2,825.02	146.91	20.229		
11,900.00	7,870.00	15,352.00	7,829.29	89.51	138.31	-93.73	1,855.90	5,490.13	3,062.47	2,916.15	146.31	20.931		
12,000.00	7,870.00	15,352.00	7,829.29	89.54	138.31	-93.73	1,855.90	5,490.13	3,153.57	3,007.83	145.74	21.639		
12,100.00	7,870.00	15,352.00	7,829.29	89.59	138.31	-93.73	1,855.90	5,490.13	3,245.20	3,100.01	145.19	22.352		
12,200.00	7,870.00	15,352.00	7,829.29	89.66	138.31	-93.73	1,855.90	5,490.13	3,337.31	3,192.65	144.67	23.069		
12,300.00	7,870.00	15,352.00	7,829.29	89.77	138.31	-93.73	1,855.90	5,490.13	3,429.87	3,285.70	144.17	23.791		
12,400.00	7,870.00	15,352.00	7,829.29	89.89	138.31	-93.73	1,855.90	5,490.13	3,522.83	3,379.14	143.69	24.517		
12,500.00	7,870.00	15,352.00	7,829.29	90.05	138.31	-93.73	1,855.90	5,490.13	3,616.16	3,472.92	143.24	25.246		
12,600.00	7,870.00	15,352.00	7,829.29	90.24	138.31	-93.73	1,855.90	5,490.13	3,709.85	3,567.04	142.81	25.978		
12,700.00	7,870.00	15,352.00	7,829.29	90.46	138.31	-93.73	1,855.90	5,490.13	3,803.85	3,661.45	142.40	26.713		
12,800.00	7,870.00	15,352.00	7,829.29	90.71	138.31	-93.73	1,855.90	5,490.13	3,898.15	3,756.15	142.01	27.450		
12,900.00	7,870.00	15,352.00	7,829.29	90.99	138.31	-93.73	1,855.90	5,490.13	3,992.74	3,851.10	141.64	28.190		
13,000.00	7,870.00	15,352.00	7,829.29	91.32	138.31	-93.73	1,855.90	5,490.13	4,087.57	3,946.29	141.29	28.931		
13,100.00	7,870.00	15,352.00	7,829.29	91.68	138.31	-93.73	1,855.90	5,490.13	4,182.65	4,041.70	140.95	29.674		
13,200.00	7,870.00	15,352.00	7,829.29	92.08	138.31	-93.73	1,855.90	5,490.13	4,277.96	4,137.32	140.63	30.419		
13,300.00	7,870.00	15,352.00	7,829.29	92.52	138.31	-93.73	1,855.90	5,490.13	4,373.47	4,233.14	140.33	31.165		
13,400.00	7,870.00	15,352.00	7,829.29	93.00	138.31	-93.73	1,855.90	5,490.13	4,469.18	4,329.13	140.04	31.913		
13,500.00	7,870.00	15,352.00	7,829.29	93.53	138.31	-93.73	1,855.90	5,490.13	4,565.07	4,425.30	139.77	32.661		
13,600.00	7,870.00	15,352.00	7,829.29	94.10	138.31	-93.73	1,855.90	5,490.13	4,661.14	4,521.63	139.51	33.410		
13,700.00	7,870.00	15,352.00	7,829.29	94.72	138.31	-93.73	1,855.90	5,490.13	4,757.37	4,618.10	139.27	34.160		
13,800.00	7,870.00	15,352.00	7,829.29	95.38	138.31	-93.73	1,855.90	5,490.13	4,853.75	4,714.71	139.03	34.911		
13,900.00	7,870.00	15,352.00	7,829.29	96.09	138.31	-93.73	1,855.90	5,490.13	4,950.27	4,811.46	138.81	35.662		
14,000.00	7,870.00	15,352.00	7,829.29	96.84	138.31	-93.73	1,855.90	5,490.13	5,046.93	4,908.33	138.60	36.414		
14,100.00	7,870.00	15,352.00	7,829.29	97.64	138.31	-93.73	1,855.90	5,490.13	5,143.72	5,005.32	138.40	37.166		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	15,352.00	7,829.29	98.48	138.31	-93.73	1,855.90	5,490.13	5,240.62	5,102.42	138.21	37.919		
14,300.00	7,870.00	15,352.00	7,829.29	99.37	138.31	-93.73	1,855.90	5,490.13	5,337.65	5,199.62	138.02	38.672		
14,400.00	7,870.00	15,352.00	7,829.29	100.30	138.31	-93.73	1,855.90	5,490.13	5,434.78	5,296.92	137.85	39.425		
14,500.00	7,870.00	15,352.00	7,829.29	101.26	138.31	-93.73	1,855.90	5,490.13	5,532.01	5,394.32	137.69	40.178		
14,600.00	7,870.00	15,352.00	7,829.29	102.27	138.31	-93.73	1,855.90	5,490.13	5,629.34	5,491.80	137.53	40.931		
14,700.00	7,870.00	15,352.00	7,829.29	103.31	138.31	-93.73	1,855.90	5,490.13	5,726.76	5,589.37	137.39	41.684		
14,800.00	7,870.00	15,352.00	7,829.29	104.38	138.31	-93.73	1,855.90	5,490.13	5,824.27	5,687.02	137.25	42.437		
14,900.00	7,870.00	15,352.00	7,829.29	105.49	138.31	-93.73	1,855.90	5,490.13	5,921.86	5,784.75	137.11	43.190		
15,000.00	7,870.00	15,352.00	7,829.29	106.63	138.31	-93.73	1,855.90	5,490.13	6,019.53	5,882.54	136.99	43.943		
15,100.00	7,870.00	15,352.00	7,829.29	107.80	138.31	-93.73	1,855.90	5,490.13	6,117.28	5,980.41	136.87	44.695		
15,200.00	7,870.00	15,352.00	7,829.29	109.00	138.31	-93.73	1,855.90	5,490.13	6,215.09	6,078.34	136.75	45.448		
15,300.00	7,870.00	15,352.00	7,829.29	110.22	138.31	-93.73	1,855.90	5,490.13	6,312.98	6,176.34	136.64	46.200		
15,400.00	7,870.00	15,352.00	7,829.29	111.47	138.31	-93.73	1,855.90	5,490.13	6,410.93	6,274.39	136.54	46.952		
15,500.00	7,870.00	15,352.00	7,829.29	112.74	138.31	-93.73	1,855.90	5,490.13	6,508.94	6,372.50	136.44	47.704		
15,600.00	7,870.00	15,352.00	7,829.29	114.03	138.31	-93.73	1,855.90	5,490.13	6,607.02	6,470.67	136.35	48.455		
15,700.00	7,870.00	15,352.00	7,829.29	115.34	138.31	-93.73	1,855.90	5,490.13	6,705.15	6,568.88	136.27	49.207		
15,800.00	7,870.00	15,352.00	7,829.29	116.68	138.31	-93.73	1,855.90	5,490.13	6,803.33	6,667.15	136.18	49.957		
15,900.00	7,870.00	15,352.00	7,829.29	118.02	138.31	-93.73	1,855.90	5,490.13	6,901.57	6,765.46	136.10	50.708		
16,000.00	7,870.00	15,352.00	7,829.29	119.39	138.31	-93.73	1,855.90	5,490.13	6,999.86	6,863.82	136.03	51.458		
16,100.00	7,870.00	15,352.00	7,829.29	120.77	138.31	-93.73	1,855.90	5,490.13	7,098.19	6,962.23	135.96	52.207		
16,200.00	7,870.00	15,352.00	7,829.29	122.17	138.31	-93.73	1,855.90	5,490.13	7,196.57	7,060.68	135.90	52.957		
16,300.00	7,870.00	15,352.00	7,829.29	123.58	138.31	-93.73	1,855.90	5,490.13	7,294.99	7,159.16	135.83	53.706		
16,400.00	7,870.00	15,352.00	7,829.29	125.00	138.31	-93.73	1,855.90	5,490.13	7,393.46	7,257.69	135.77	54.454		
16,500.00	7,870.00	15,352.00	7,829.29	126.43	138.31	-93.73	1,855.90	5,490.13	7,491.97	7,356.25	135.72	55.202		
16,600.00	7,870.00	15,352.00	7,829.29	127.88	138.31	-93.73	1,855.90	5,490.13	7,590.52	7,454.85	135.67	55.950		
16,700.00	7,870.00	15,352.00	7,829.29	129.34	138.31	-93.73	1,855.90	5,490.13	7,689.10	7,553.48	135.62	56.697		
16,800.00	7,870.00	15,352.00	7,829.29	130.81	138.31	-93.73	1,855.90	5,490.13	7,787.72	7,652.15	135.57	57.443		
16,900.00	7,870.00	15,352.00	7,829.29	132.28	138.31	-93.73	1,855.90	5,490.13	7,886.37	7,750.85	135.53	58.190		
17,000.00	7,870.00	15,352.00	7,829.29	133.77	138.31	-93.73	1,855.90	5,490.13	7,985.06	7,849.57	135.49	58.935		
17,100.00	7,870.00	15,352.00	7,829.29	135.27	138.31	-93.73	1,855.90	5,490.13	8,083.78	7,948.33	135.45	59.681		
17,200.00	7,870.00	15,352.00	7,829.29	136.77	138.31	-93.73	1,855.90	5,490.13	8,182.53	8,047.12	135.42	60.425		
17,300.00	7,870.00	15,352.00	7,829.29	138.28	138.31	-93.73	1,855.90	5,490.13	8,281.32	8,145.93	135.38	61.170		
17,400.00	7,870.00	15,352.00	7,829.29	139.80	138.31	-93.73	1,855.90	5,490.13	8,380.13	8,244.77	135.35	61.913		
17,500.00	7,870.00	15,352.00	7,829.29	141.33	138.31	-93.73	1,855.90	5,490.13	8,478.96	8,343.64	135.32	62.657		
17,600.00	7,870.00	15,352.00	7,829.29	142.86	138.31	-93.73	1,855.90	5,490.13	8,577.83	8,442.53	135.30	63.400		
17,700.00	7,870.00	15,352.00	7,829.29	144.40	138.31	-93.73	1,855.90	5,490.13	8,676.72	8,541.45	135.27	64.142		
17,800.00	7,870.00	15,352.00	7,829.29	145.95	138.31	-93.73	1,855.90	5,490.13	8,775.64	8,640.39	135.25	64.884		
17,900.00	7,870.00	15,352.00	7,829.29	147.50	138.31	-93.73	1,855.90	5,490.13	8,874.58	8,739.35	135.23	65.625		
18,000.00	7,870.00	15,352.00	7,829.29	149.06	138.31	-93.73	1,855.90	5,490.13	8,973.54	8,838.33	135.21	66.366		
18,100.00	7,870.00	15,352.00	7,829.29	150.63	138.31	-93.73	1,855.90	5,490.13	9,072.53	8,937.33	135.20	67.106		
18,200.00	7,870.00	15,352.00	7,829.29	152.20	138.31	-93.73	1,855.90	5,490.13	9,171.54	9,036.36	135.18	67.845		
18,300.00	7,870.00	15,352.00	7,829.29	153.77	138.31	-93.73	1,855.90	5,490.13	9,270.57	9,135.40	135.17	68.585		
18,400.00	7,870.00	15,352.00	7,829.29	155.35	138.31	-93.73	1,855.90	5,490.13	9,369.62	9,234.46	135.16	69.323		
18,500.00	7,870.00	15,352.00	7,829.29	156.93	138.31	-93.73	1,855.90	5,490.13	9,468.69	9,333.54	135.15	70.061		
18,600.00	7,870.00	15,352.00	7,829.29	158.52	138.31	-93.73	1,855.90	5,490.13	9,567.78	9,432.64	135.14	70.799		
18,700.00	7,870.00	15,352.00	7,829.29	160.11	138.31	-93.73	1,855.90	5,490.13	9,666.89	9,531.76	135.13	71.536		
18,800.00	7,870.00	15,352.00	7,829.29	161.71	138.31	-93.73	1,855.90	5,490.13	9,766.02	9,630.89	135.13	72.272		
18,900.00	7,870.00	15,352.00	7,829.29	163.31	138.31	-93.73	1,855.90	5,490.13	9,865.16	9,730.04	135.12	73.008		
19,000.00	7,870.00	15,352.00	7,829.29	164.91	138.31	-93.73	1,855.90	5,490.13	9,964.32	9,829.20	135.12	73.744		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	58.36	2,114.20	3,431.42	4,030.63					
100.00	100.00	51.28	51.28	0.13	0.09	58.36	2,114.21	3,431.46	4,030.50	4,030.27	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.37	2,114.22	3,432.00	4,031.12	4,030.27	0.85	4,729.943		
300.00	300.00	203.69	203.68	0.85	0.64	58.37	2,114.53	3,432.95	4,032.34	4,030.85	1.49	2,702.369		
400.00	400.00	306.38	306.36	1.21	1.01	58.37	2,115.36	3,434.22	4,033.82	4,031.60	2.22	1,819.107		
500.00	500.00	443.38	443.35	1.57	1.49	58.38	2,115.22	3,435.75	4,034.71	4,031.64	3.06	1,317.411		
600.00	600.00	538.41	538.37	1.93	1.83	58.40	2,114.53	3,436.75	4,035.23	4,031.47	3.76	1,073.660		
700.00	699.98	635.61	635.57	2.28	2.18	-5.42	2,114.41	3,437.59	4,034.16	4,029.70	4.46	904.883		
800.00	799.84	778.78	778.74	2.64	2.67	-5.45	2,115.10	3,437.29	4,029.00	4,023.70	5.30	759.858		
900.00	899.45	912.00	911.95	3.00	3.12	-5.48	2,114.37	3,436.44	4,019.50	4,013.39	6.11	657.883		
1,000.00	998.70	995.02	994.97	3.37	3.40	-5.52	2,113.87	3,435.65	4,006.26	3,999.51	6.75	593.347		
1,100.00	1,097.47	1,089.14	1,089.08	3.76	3.72	-5.58	2,114.05	3,434.75	3,989.99	3,982.55	7.44	536.580		
1,200.00	1,195.62	1,205.12	1,205.06	4.18	4.12	-5.66	2,114.11	3,433.45	3,970.09	3,961.89	8.20	484.159		
1,300.00	1,293.06	1,329.05	1,328.97	4.63	4.55	-5.77	2,113.95	3,431.71	3,946.55	3,937.55	9.00	438.685		
1,400.00	1,389.64	1,414.26	1,414.15	5.11	4.85	-5.88	2,114.04	3,429.52	3,918.78	3,909.12	9.66	405.535		
1,500.00	1,485.27	1,467.00	1,466.89	5.63	5.04	-5.97	2,114.03	3,428.92	3,888.72	3,878.50	10.22	380.389		
1,600.00	1,579.82	1,810.44	1,809.27	6.20	6.25	-5.93	2,090.22	3,427.47	3,851.81	3,840.04	11.77	327.174		
1,700.00	1,673.17	1,901.68	1,899.62	6.83	6.59	-5.90	2,077.57	3,427.76	3,809.66	3,797.19	12.48	305.354		
1,800.00	1,765.21	2,011.14	2,007.57	7.51	7.01	-5.80	2,059.56	3,429.75	3,764.33	3,751.08	13.25	284.052		
1,900.00	1,855.84	2,080.79	2,076.01	8.24	7.28	-5.75	2,046.78	3,431.68	3,715.78	3,701.88	13.90	267.255		
2,000.00	1,944.94	2,143.40	2,137.39	9.05	7.53	-5.71	2,034.71	3,434.20	3,664.74	3,650.21	14.54	252.111		
2,100.00	2,032.39	2,203.18	2,195.99	9.91	7.78	-5.68	2,023.24	3,437.03	3,611.33	3,596.16	15.17	238.075		
2,200.00	2,118.11	2,272.16	2,263.67	10.85	8.06	-5.63	2,010.34	3,440.50	3,555.47	3,539.63	15.84	224.466		
2,300.00	2,201.97	2,300.00	2,293.07	11.85	8.18	-5.51	1,991.69	3,445.09	3,496.55	3,480.22	16.32	214.188		
2,400.00	2,283.88	2,456.49	2,444.68	12.93	8.84	-5.44	1,976.43	3,448.36	3,434.51	3,417.16	17.35	197.921		
2,429.47	2,307.63	2,474.17	2,462.07	13.26	8.91	-5.44	1,973.29	3,449.05	3,415.78	3,398.24	17.55	194.667		
2,500.00	2,364.26	2,590.47	2,576.23	14.06	9.42	-5.12	1,951.46	3,452.85	3,370.00	3,351.75	18.25	184.679		
2,600.00	2,444.56	2,639.82	2,624.64	15.22	9.64	-4.98	1,941.97	3,454.40	3,305.05	3,286.19	18.86	175.255		
2,700.00	2,524.85	2,690.28	2,674.19	16.39	9.86	-4.83	1,932.60	3,456.26	3,240.71	3,221.23	19.48	166.335		
2,800.00	2,605.14	2,741.92	2,724.95	17.57	10.08	-4.68	1,923.41	3,458.38	3,177.00	3,156.88	20.12	157.896		
2,900.00	2,685.43	2,843.02	2,824.33	18.76	10.53	-4.36	1,905.36	3,462.80	3,113.52	3,092.60	20.92	148.838		
3,000.00	2,765.73	2,918.51	2,898.45	19.96	10.87	-4.11	1,891.37	3,465.84	3,049.53	3,027.89	21.64	140.901		
3,100.00	2,846.02	3,008.96	2,987.33	21.16	11.27	-3.81	1,874.90	3,469.24	2,985.54	2,963.12	22.42	133.191		
3,200.00	2,926.31	3,076.19	3,053.17	22.37	11.58	-3.54	1,861.62	3,472.07	2,921.30	2,898.17	23.13	126.306		
3,300.00	3,006.60	3,132.00	3,107.93	23.59	11.83	-3.33	1,851.15	3,474.56	2,857.63	2,833.82	23.82	119.971		
3,400.00	3,086.90	3,237.36	3,211.36	24.81	12.31	-2.91	1,831.55	3,478.84	2,793.79	2,769.15	24.64	113.400		
3,500.00	3,167.19	3,298.34	3,271.31	26.03	12.59	-2.67	1,820.62	3,480.97	2,729.89	2,704.54	25.35	107.705		
3,600.00	3,247.48	3,382.46	3,354.17	27.25	12.97	-2.35	1,806.34	3,483.73	2,666.24	2,640.13	26.11	102.124		
3,700.00	3,327.77	3,479.37	3,449.42	28.48	13.41	-1.93	1,788.77	3,486.77	2,602.12	2,575.23	26.90	96.742		
3,800.00	3,408.07	3,553.82	3,522.50	29.71	13.75	-1.57	1,774.71	3,488.98	2,537.67	2,510.02	27.65	91.792		
3,900.00	3,488.36	3,616.89	3,584.61	30.94	14.04	-1.29	1,763.91	3,490.52	2,473.55	2,445.17	28.38	87.164		
4,000.00	3,568.65	3,673.62	3,640.53	32.17	14.29	-1.04	1,754.47	3,492.20	2,410.02	2,380.91	29.11	82.800		
4,100.00	3,648.95	3,744.04	3,709.89	33.41	14.61	-0.69	1,742.61	3,494.89	2,347.03	2,317.17	29.86	78.594		
4,200.00	3,729.24	3,818.33	3,783.00	34.64	14.95	-0.29	1,729.78	3,497.88	2,284.12	2,253.49	30.63	74.565		
4,300.00	3,809.53	3,885.01	3,848.53	35.88	15.26	0.10	1,717.86	3,501.02	2,221.55	2,190.14	31.40	70.741		
4,400.00	3,889.82	4,009.06	3,970.24	37.12	15.84	0.90	1,694.35	3,505.62	2,157.77	2,125.54	32.23	66.954		
4,500.00	3,970.12	4,063.93	4,024.31	38.36	16.09	1.23	1,685.13	3,507.03	2,094.27	2,061.27	33.00	63.465		
4,600.00	4,050.41	4,124.37	4,084.05	39.60	16.36	1.58	1,676.08	3,508.66	2,031.55	1,997.78	33.78	60.147		
4,700.00	4,130.70	4,222.01	4,180.44	40.84	16.79	2.21	1,660.88	3,511.97	1,969.30	1,934.74	34.56	56.978		
4,800.00	4,210.99	4,324.20	4,280.99	42.08	17.26	2.98	1,642.79	3,514.12	1,905.39	1,870.04	35.35	53.894		
4,900.00	4,291.29	4,397.32	4,352.84	43.32	17.60	3.60	1,629.29	3,515.63	1,841.44	1,805.27	36.17	50.905		
5,000.00	4,371.58	4,468.56	4,422.67	44.57	17.94	4.27	1,615.34	3,517.66	1,777.85	1,740.83	37.02	48.025		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,547.75	4,500.24	45.81	18.32	5.09	1,599.59	3,519.99	1,714.41	1,676.52	37.88	45.255		
5,200.00	4,532.16	4,638.31	4,588.94	47.05	18.76	6.09	1,581.42	3,522.12	1,650.72	1,611.97	38.75	42.596		
5,300.00	4,612.46	4,698.05	4,647.49	48.30	19.05	6.80	1,569.64	3,523.42	1,587.25	1,547.56	39.69	39.996		
5,400.00	4,692.75	4,761.06	4,709.37	49.54	19.34	7.56	1,557.95	3,525.15	1,524.73	1,484.09	40.64	37.516		
5,500.00	4,773.04	4,829.91	4,777.16	50.79	19.66	8.41	1,546.02	3,527.14	1,462.92	1,421.30	41.62	35.152		
5,600.00	4,853.34	4,901.37	4,847.54	52.03	19.99	9.35	1,533.90	3,529.42	1,401.70	1,359.07	42.63	32.884		
5,700.00	4,933.63	4,979.94	4,924.89	53.28	20.35	10.49	1,520.34	3,532.15	1,340.93	1,297.25	43.67	30.702		
5,800.00	5,013.92	5,057.56	5,001.39	54.53	20.71	11.68	1,507.42	3,534.47	1,280.30	1,235.53	44.77	28.594		
5,900.00	5,094.21	5,130.48	5,073.40	55.77	21.04	12.85	1,496.16	3,536.47	1,220.17	1,174.23	45.94	26.561		
6,000.00	5,174.51	5,199.02	5,141.11	57.02	21.34	14.05	1,485.69	3,538.71	1,160.89	1,113.69	47.19	24.598		
6,100.00	5,254.80	5,268.93	5,210.12	58.27	21.66	15.39	1,474.86	3,541.54	1,102.65	1,054.10	48.55	22.711		
6,200.00	5,335.09	5,347.11	5,287.25	59.52	22.01	17.04	1,462.62	3,545.10	1,045.36	995.35	50.02	20.901		
6,300.00	5,415.38	5,430.02	5,369.03	60.76	22.38	18.99	1,449.45	3,548.49	988.41	936.79	51.62	19.148		
6,400.00	5,495.68	5,513.23	5,451.32	62.01	22.75	21.08	1,437.39	3,551.26	931.89	878.54	53.36	17.465		
6,500.00	5,575.97	5,599.36	5,536.49	63.26	23.13	23.51	1,424.82	3,553.37	875.62	820.33	55.29	15.836		
6,600.00	5,656.26	5,667.18	5,603.54	64.51	23.43	25.65	1,414.78	3,555.20	820.64	763.12	57.53	14.265		
6,700.00	5,736.55	5,739.65	5,675.17	65.76	23.75	28.20	1,403.99	3,557.62	767.56	707.51	60.05	12.782		
6,800.00	5,816.85	5,817.04	5,751.59	67.01	24.10	31.25	1,392.17	3,560.54	716.51	653.58	62.93	11.386		
6,900.00	5,897.14	5,896.24	5,829.74	68.26	24.45	34.79	1,379.58	3,563.23	667.35	601.10	66.25	10.074		
7,000.00	5,977.43	5,974.48	5,907.14	69.50	24.80	38.58	1,368.44	3,565.86	620.67	550.75	69.92	8.877		
7,100.00	6,057.72	6,050.89	5,982.73	70.75	25.13	42.71	1,357.67	3,568.44	577.15	503.12	74.03	7.796		
7,200.00	6,138.02	6,125.90	6,056.87	72.00	25.46	47.25	1,346.55	3,571.10	537.83	459.23	78.60	6.843		
7,300.00	6,218.31	6,207.09	6,137.14	73.25	25.82	52.63	1,334.75	3,574.11	503.48	419.95	83.53	6.028		
7,400.00	6,298.60	6,287.37	6,216.71	74.50	26.16	58.32	1,324.45	3,576.83	474.16	385.64	88.52	5.356		
7,500.00	6,378.90	6,364.63	6,293.25	75.75	26.49	64.23	1,314.25	3,579.36	451.78	358.44	93.34	4.840		
7,600.00	6,459.19	6,445.21	6,373.12	77.00	26.84	70.71	1,303.87	3,582.00	437.16	339.50	97.66	4.476		
7,700.00	6,539.48	6,533.29	6,460.63	78.25	27.20	77.89	1,294.30	3,584.89	429.97	328.79	101.18	4.249		
7,744.57	6,575.27	6,569.40	6,496.55	78.81	27.34	80.84	1,290.85	3,585.99	429.15	326.82	102.34	4.193 CC, ES		
7,800.00	6,619.77	6,614.66	6,541.60	79.50	27.52	84.55	1,286.61	3,587.21	430.42	326.97	103.46	4.160 SF		
7,900.00	6,700.07	6,696.09	6,622.67	80.75	27.83	91.18	1,279.15	3,588.84	439.08	334.55	104.53	4.200		
8,000.00	6,780.36	6,780.63	6,706.89	82.00	28.16	97.85	1,271.95	3,589.86	455.40	350.84	104.57	4.355		
8,100.00	6,860.65	6,869.30	6,795.36	83.25	28.48	104.42	1,265.95	3,590.74	477.88	374.06	103.82	4.603		
8,200.00	6,940.94	6,958.67	6,884.62	84.50	28.80	110.51	1,261.88	3,591.73	505.10	402.58	102.52	4.927		
8,300.00	7,021.24	7,046.31	6,972.22	85.76	29.09	115.95	1,259.38	3,592.88	536.41	435.51	100.90	5.316		
8,400.00	7,101.53	7,133.28	7,059.17	87.01	29.37	120.85	1,257.96	3,594.13	571.28	472.14	99.14	5.762		
8,500.00	7,181.82	7,220.76	7,146.64	88.26	29.64	125.29	1,257.50	3,595.65	608.98	511.57	97.40	6.252		
8,605.60	7,266.61	7,330.34	7,256.19	89.58	29.94	130.32	1,258.99	3,596.88	650.96	555.23	95.73	6.800		
8,650.00	7,302.60	7,409.52	7,335.15	90.13	30.14	127.39	1,264.60	3,597.82	666.16	571.17	94.99	7.013		
8,700.00	7,343.78	8,326.80	7,900.97	90.72	30.56	-177.55	1,863.82	3,582.43	658.05	601.49	56.56	11.634		
8,750.00	7,385.32	8,334.69	7,901.43	91.28	30.57	178.58	1,871.69	3,582.67	633.74	573.90	59.84	10.591		
8,800.00	7,426.92	8,336.99	7,901.56	91.81	30.58	173.70	1,873.98	3,582.74	612.31	549.04	63.27	9.678		
8,850.00	7,468.27	8,333.68	7,901.37	92.29	30.57	168.05	1,870.68	3,582.64	594.30	527.59	66.72	8.908		
8,900.00	7,509.04	8,324.81	7,900.85	92.72	30.56	161.90	1,861.83	3,582.37	580.10	510.09	70.00	8.287		
8,950.00	7,548.93	8,310.47	7,899.98	93.10	30.55	155.44	1,847.52	3,581.98	569.89	496.92	72.97	7.810		
9,000.00	7,587.63	8,293.44	7,898.86	93.43	30.53	149.06	1,830.54	3,581.61	563.65	488.02	75.63	7.452		
9,050.00	7,624.85	8,257.30	7,895.94	93.71	30.50	141.29	1,794.52	3,581.06	561.03	484.18	76.85	7.301		
9,069.13	7,638.63	8,243.09	7,894.35	93.79	30.50	138.39	1,780.39	3,580.90	560.82	483.61	77.21	7.264		
9,100.00	7,660.30	8,219.02	7,891.10	93.93	30.48	133.77	1,756.55	3,580.70	561.32	483.68	77.64	7.230		
9,150.00	7,693.72	8,173.64	7,883.12	94.10	30.47	126.08	1,711.88	3,580.77	563.96	486.24	77.71	7.257		
9,200.00	7,724.85	8,117.33	7,869.32	94.23	30.47	117.93	1,657.33	3,582.25	567.73	490.85	76.87	7.385		
9,250.00	7,753.45	8,082.22	7,858.30	94.30	30.48	112.06	1,624.03	3,583.42	572.87	495.82	77.05	7.435		
9,300.00	7,779.31	8,043.15	7,843.94	94.34	30.49	106.26	1,587.72	3,584.84	579.11	502.30	76.81	7.539		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	7,998.98	7,824.99	94.33	30.51	100.45	1,547.89	3,586.85	585.87	509.77	76.11	7.698		
9,400.00	7,822.03	7,967.46	7,809.50	94.28	30.53	96.01	1,520.49	3,588.50	592.95	516.72	76.23	7.779		
9,450.00	7,838.57	7,940.06	7,794.58	94.20	30.54	92.21	1,497.54	3,589.75	600.54	523.77	76.77	7.822		
9,500.00	7,851.72	7,915.45	7,779.98	94.10	30.55	88.91	1,477.76	3,590.67	608.53	530.78	77.75	7.827		
9,550.00	7,861.37	7,892.03	7,765.02	93.96	30.56	85.97	1,459.76	3,591.34	616.78	537.72	79.06	7.801		
9,600.00	7,867.46	7,869.61	7,749.77	93.81	30.57	83.39	1,443.33	3,591.78	625.13	544.42	80.71	7.746		
9,650.00	7,869.94	7,847.35	7,733.78	93.64	30.58	81.09	1,427.86	3,592.02	633.44	550.85	82.59	7.670		
9,659.14	7,870.00	7,842.23	7,729.99	93.60	30.58	80.63	1,424.41	3,592.07	634.93	552.07	82.86	7.663		
9,700.00	7,870.00	7,820.49	7,713.54	93.46	30.58	79.15	1,410.19	3,592.29	642.35	558.16	84.19	7.630		
9,800.00	7,870.00	7,774.87	7,677.16	93.11	30.58	75.91	1,382.71	3,593.00	667.54	579.56	87.98	7.587		
9,900.00	7,870.00	7,736.96	7,645.13	92.77	30.56	73.13	1,362.47	3,593.92	702.80	610.84	91.97	7.642		
10,000.00	7,870.00	7,710.00	7,621.56	92.46	30.55	71.12	1,349.41	3,594.81	747.47	651.44	96.03	7.783		
10,100.00	7,870.00	7,678.99	7,593.79	92.16	30.53	68.80	1,335.66	3,595.94	800.48	701.44	99.04	8.083		
10,200.00	7,870.00	7,661.00	7,577.41	91.87	30.52	67.46	1,328.26	3,596.60	860.73	758.69	102.03	8.436		
10,300.00	7,870.00	7,638.75	7,556.91	91.60	30.50	65.82	1,319.65	3,597.26	926.99	822.86	104.13	8.902		
10,400.00	7,870.00	7,614.00	7,533.83	91.34	30.47	64.03	1,310.70	3,597.68	998.32	892.71	105.60	9.453		
10,500.00	7,870.00	7,614.00	7,533.83	91.11	30.47	64.03	1,310.70	3,597.68	1,073.62	966.02	107.59	9.979		
10,600.00	7,870.00	7,593.04	7,514.08	90.88	30.45	62.55	1,303.68	3,597.83	1,152.21	1,043.76	108.45	10.624		
10,700.00	7,870.00	7,580.39	7,502.08	90.67	30.43	61.67	1,299.69	3,597.86	1,233.61	1,124.28	109.32	11.284		
10,800.00	7,870.00	7,567.00	7,489.30	90.48	30.42	60.75	1,295.69	3,597.84	1,317.29	1,207.32	109.97	11.979		
10,900.00	7,870.00	7,567.00	7,489.30	90.31	30.42	60.75	1,295.69	3,597.84	1,402.95	1,292.18	110.76	12.666		
11,000.00	7,870.00	7,547.20	7,470.29	90.15	30.39	59.42	1,290.18	3,597.79	1,490.04	1,379.06	110.98	13.426		
11,100.00	7,870.00	7,537.69	7,461.11	90.00	30.38	58.78	1,287.69	3,597.78	1,578.56	1,467.24	111.32	14.180		
11,200.00	7,870.00	7,520.00	7,443.95	89.88	30.35	57.62	1,283.37	3,597.76	1,668.32	1,556.87	111.45	14.970		
11,300.00	7,870.00	7,520.00	7,443.95	89.77	30.35	57.62	1,283.37	3,597.76	1,758.93	1,647.12	111.81	15.732		
11,400.00	7,870.00	7,520.00	7,443.95	89.68	30.35	57.62	1,283.37	3,597.76	1,850.51	1,738.41	112.09	16.509		
11,500.00	7,870.00	7,520.00	7,443.95	89.60	30.35	57.62	1,283.37	3,597.76	1,942.91	1,830.60	112.32	17.298		
11,600.00	7,870.00	7,499.66	7,424.12	89.55	30.32	56.32	1,278.87	3,597.79	2,035.70	1,923.45	112.25	18.135		
11,700.00	7,870.00	7,493.56	7,418.14	89.52	30.30	55.93	1,277.62	3,597.82	2,129.23	2,016.88	112.35	18.952		
11,800.00	7,870.00	7,473.00	7,397.96	89.50	30.27	54.65	1,273.74	3,597.95	2,223.44	2,111.17	112.26	19.805		
11,900.00	7,870.00	7,473.00	7,397.96	89.51	30.27	54.65	1,273.74	3,597.95	2,317.82	2,205.43	112.38	20.624		
12,000.00	7,870.00	7,473.00	7,397.96	89.54	30.27	54.65	1,273.74	3,597.95	2,412.66	2,300.17	112.48	21.449		
12,100.00	7,870.00	7,473.00	7,397.96	89.59	30.27	54.65	1,273.74	3,597.95	2,507.89	2,395.33	112.56	22.281		
12,200.00	7,870.00	7,473.00	7,397.96	89.66	30.27	54.65	1,273.74	3,597.95	2,603.49	2,490.87	112.62	23.118		
12,300.00	7,870.00	7,473.00	7,397.96	89.77	30.27	54.65	1,273.74	3,597.95	2,699.40	2,586.73	112.67	23.959		
12,400.00	7,870.00	7,473.00	7,397.96	89.89	30.27	54.65	1,273.74	3,597.95	2,795.60	2,682.90	112.70	24.805		
12,500.00	7,870.00	7,455.77	7,380.97	90.05	30.24	53.60	1,270.85	3,598.04	2,891.85	2,779.23	112.61	25.679		
12,600.00	7,870.00	7,451.99	7,377.24	90.24	30.23	53.37	1,270.26	3,598.05	2,988.44	2,875.82	112.62	26.537		
12,700.00	7,870.00	7,448.39	7,373.69	90.46	30.22	53.16	1,269.70	3,598.05	3,085.22	2,972.61	112.61	27.396		
12,800.00	7,870.00	7,444.96	7,370.29	90.71	30.21	52.95	1,269.19	3,598.05	3,182.20	3,069.59	112.61	28.259		
12,900.00	7,870.00	7,426.00	7,351.51	90.99	30.18	51.85	1,266.57	3,597.96	3,279.50	3,166.99	112.51	29.147		
13,000.00	7,870.00	7,426.00	7,351.51	91.32	30.18	51.85	1,266.57	3,597.96	3,376.73	3,264.20	112.53	30.008		
13,100.00	7,870.00	7,426.00	7,351.51	91.68	30.18	51.85	1,266.57	3,597.96	3,474.12	3,361.58	112.54	30.871		
13,200.00	7,870.00	7,426.00	7,351.51	92.08	30.18	51.85	1,266.57	3,597.96	3,571.65	3,459.11	112.54	31.736		
13,300.00	7,870.00	7,426.00	7,351.51	92.52	30.18	51.85	1,266.57	3,597.96	3,669.31	3,556.77	112.55	32.603		
13,400.00	7,870.00	7,426.00	7,351.51	93.00	30.18	51.85	1,266.57	3,597.96	3,767.10	3,654.55	112.55	33.471		
13,500.00	7,870.00	7,426.00	7,351.51	93.53	30.18	51.85	1,266.57	3,597.96	3,865.00	3,752.45	112.55	34.341		
13,600.00	7,870.00	7,426.00	7,351.51	94.10	30.18	51.85	1,266.57	3,597.96	3,963.01	3,850.46	112.54	35.213		
13,700.00	7,870.00	7,426.00	7,351.51	94.72	30.18	51.85	1,266.57	3,597.96	4,061.11	3,948.57	112.54	36.085		
13,800.00	7,870.00	7,426.00	7,351.51	95.38	30.18	51.85	1,266.57	3,597.96	4,159.30	4,046.76	112.54	36.959		
13,900.00	7,870.00	7,426.00	7,351.51	96.09	30.18	51.85	1,266.57	3,597.96	4,257.58	4,145.04	112.53	37.834		
14,000.00	7,870.00	7,426.00	7,351.51	96.84	30.18	51.85	1,266.57	3,597.96	4,355.93	4,243.40	112.53	38.710		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,426.00	7,351.51	97.64	30.18	51.85	1,266.57	3,597.96	4,454.36	4,341.84	112.52	39.587		
14,200.00	7,870.00	7,426.00	7,351.51	98.48	30.18	51.85	1,266.57	3,597.96	4,552.86	4,440.34	112.51	40.464		
14,300.00	7,870.00	7,426.00	7,351.51	99.37	30.18	51.85	1,266.57	3,597.96	4,651.42	4,538.91	112.51	41.343		
14,400.00	7,870.00	7,426.00	7,351.51	100.30	30.18	51.85	1,266.57	3,597.96	4,750.04	4,637.54	112.50	42.222		
14,500.00	7,870.00	7,405.76	7,331.42	101.26	30.13	50.72	1,264.20	3,597.78	4,848.43	4,736.01	112.43	43.125		
14,600.00	7,870.00	7,404.22	7,329.88	102.27	30.13	50.63	1,264.04	3,597.76	4,947.12	4,834.70	112.42	44.006		
14,700.00	7,870.00	7,402.72	7,328.39	103.31	30.12	50.55	1,263.88	3,597.75	5,045.86	4,933.45	112.41	44.888		
14,800.00	7,870.00	7,401.27	7,326.95	104.38	30.12	50.47	1,263.74	3,597.73	5,144.64	5,032.24	112.40	45.771		
14,900.00	7,870.00	7,399.87	7,325.56	105.49	30.12	50.39	1,263.60	3,597.72	5,243.46	5,131.07	112.39	46.653		
15,000.00	7,870.00	7,379.00	7,304.77	106.63	30.07	49.27	1,261.80	3,597.47	5,342.59	5,230.26	112.33	47.564		
15,100.00	7,870.00	7,379.00	7,304.77	107.80	30.07	49.27	1,261.80	3,597.47	5,441.46	5,329.14	112.32	48.445		
15,200.00	7,870.00	7,379.00	7,304.77	109.00	30.07	49.27	1,261.80	3,597.47	5,540.37	5,428.05	112.32	49.326		
15,300.00	7,870.00	7,379.00	7,304.77	110.22	30.07	49.27	1,261.80	3,597.47	5,639.32	5,527.00	112.32	50.207		
15,400.00	7,870.00	7,379.00	7,304.77	111.47	30.07	49.27	1,261.80	3,597.47	5,738.31	5,625.99	112.32	51.089		
15,500.00	7,870.00	7,379.00	7,304.77	112.74	30.07	49.27	1,261.80	3,597.47	5,837.33	5,725.01	112.32	51.971		
15,600.00	7,870.00	7,379.00	7,304.77	114.03	30.07	49.27	1,261.80	3,597.47	5,936.38	5,824.06	112.32	52.853		
15,700.00	7,870.00	7,379.00	7,304.77	115.34	30.07	49.27	1,261.80	3,597.47	6,035.47	5,923.15	112.32	53.736		
15,800.00	7,870.00	7,379.00	7,304.77	116.68	30.07	49.27	1,261.80	3,597.47	6,134.58	6,022.26	112.32	54.618		
15,900.00	7,870.00	7,379.00	7,304.77	118.02	30.07	49.27	1,261.80	3,597.47	6,233.72	6,121.40	112.32	55.500		
16,000.00	7,870.00	7,379.00	7,304.77	119.39	30.07	49.27	1,261.80	3,597.47	6,332.89	6,220.57	112.32	56.383		
16,100.00	7,870.00	7,379.00	7,304.77	120.77	30.07	49.27	1,261.80	3,597.47	6,432.09	6,319.77	112.32	57.265		
16,200.00	7,870.00	7,379.00	7,304.77	122.17	30.07	49.27	1,261.80	3,597.47	6,531.31	6,418.98	112.32	58.147		
16,300.00	7,870.00	7,379.00	7,304.77	123.58	30.07	49.27	1,261.80	3,597.47	6,630.55	6,518.22	112.33	59.029		
16,400.00	7,870.00	7,379.00	7,304.77	125.00	30.07	49.27	1,261.80	3,597.47	6,729.82	6,617.49	112.33	59.912		
16,500.00	7,870.00	7,379.00	7,304.77	126.43	30.07	49.27	1,261.80	3,597.47	6,829.10	6,716.77	112.33	60.794		
16,600.00	7,870.00	7,379.00	7,304.77	127.88	30.07	49.27	1,261.80	3,597.47	6,928.41	6,816.08	112.34	61.676		
16,700.00	7,870.00	7,379.00	7,304.77	129.34	30.07	49.27	1,261.80	3,597.47	7,027.74	6,915.40	112.34	62.558		
16,800.00	7,870.00	7,379.00	7,304.77	130.81	30.07	49.27	1,261.80	3,597.47	7,127.09	7,014.74	112.35	63.439		
16,900.00	7,870.00	7,379.00	7,304.77	132.28	30.07	49.27	1,261.80	3,597.47	7,226.45	7,114.10	112.35	64.321		
17,000.00	7,870.00	7,379.00	7,304.77	133.77	30.07	49.27	1,261.80	3,597.47	7,325.83	7,213.48	112.36	65.202		
17,100.00	7,870.00	7,379.00	7,304.77	135.27	30.07	49.27	1,261.80	3,597.47	7,425.23	7,312.87	112.36	66.083		
17,200.00	7,870.00	7,379.00	7,304.77	136.77	30.07	49.27	1,261.80	3,597.47	7,524.64	7,412.27	112.37	66.964		
17,300.00	7,870.00	7,379.00	7,304.77	138.28	30.07	49.27	1,261.80	3,597.47	7,624.07	7,511.70	112.38	67.844		
17,400.00	7,870.00	7,379.00	7,304.77	139.80	30.07	49.27	1,261.80	3,597.47	7,723.52	7,611.13	112.38	68.725		
17,500.00	7,870.00	7,379.00	7,304.77	141.33	30.07	49.27	1,261.80	3,597.47	7,822.98	7,710.58	112.39	69.605		
17,600.00	7,870.00	7,379.00	7,304.77	142.86	30.07	49.27	1,261.80	3,597.47	7,922.45	7,810.05	112.40	70.484		
17,700.00	7,870.00	7,379.00	7,304.77	144.40	30.07	49.27	1,261.80	3,597.47	8,021.93	7,909.52	112.41	71.364		
17,800.00	7,870.00	7,379.00	7,304.77	145.95	30.07	49.27	1,261.80	3,597.47	8,121.43	8,009.01	112.42	72.243		
17,900.00	7,870.00	7,379.00	7,304.77	147.50	30.07	49.27	1,261.80	3,597.47	8,220.94	8,108.51	112.43	73.121		
18,000.00	7,870.00	7,379.00	7,304.77	149.06	30.07	49.27	1,261.80	3,597.47	8,320.46	8,208.02	112.44	74.000		
18,100.00	7,870.00	7,379.00	7,304.77	150.63	30.07	49.27	1,261.80	3,597.47	8,419.99	8,307.54	112.45	74.877		
18,200.00	7,870.00	7,379.00	7,304.77	152.20	30.07	49.27	1,261.80	3,597.47	8,519.54	8,407.08	112.46	75.755		
18,300.00	7,870.00	7,379.00	7,304.77	153.77	30.07	49.27	1,261.80	3,597.47	8,619.09	8,506.62	112.47	76.632		
18,400.00	7,870.00	7,379.00	7,304.77	155.35	30.07	49.27	1,261.80	3,597.47	8,718.66	8,606.17	112.49	77.509		
18,500.00	7,870.00	7,379.00	7,304.77	156.93	30.07	49.27	1,261.80	3,597.47	8,818.23	8,705.73	112.50	78.385		
18,600.00	7,870.00	7,379.00	7,304.77	158.52	30.07	49.27	1,261.80	3,597.47	8,917.82	8,805.30	112.51	79.261		
18,700.00	7,870.00	7,379.00	7,304.77	160.11	30.07	49.27	1,261.80	3,597.47	9,017.41	8,904.88	112.53	80.136		
18,800.00	7,870.00	7,379.00	7,304.77	161.71	30.07	49.27	1,261.80	3,597.47	9,117.01	9,004.47	112.54	81.011		
18,900.00	7,870.00	7,379.00	7,304.77	163.31	30.07	49.27	1,261.80	3,597.47	9,216.62	9,104.07	112.55	81.886		
19,000.00	7,870.00	7,379.00	7,304.77	164.91	30.07	49.27	1,261.80	3,597.47	9,316.24	9,203.67	112.57	82.760		
19,100.00	7,870.00	7,379.00	7,304.77	166.52	30.07	49.27	1,261.80	3,597.47	9,415.87	9,303.28	112.59	83.633		
19,200.00	7,870.00	7,379.00	7,304.77	168.13	30.07	49.27	1,261.80	3,597.47	9,515.50	9,402.90	112.60	84.506		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,379.00	7,304.77	169.75	30.07	49.27	1,261.80	3,597.47	9,615.15	9,502.53	112.62	85.379	
19,383.51	7,870.00	7,379.00	7,304.77	171.10	30.07	49.27	1,261.80	3,597.47	9,698.36	9,585.73	112.63	86.107	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	57.92	2,113.10	3,371.78	3,979.39					
100.00	100.00	52.42	52.42	0.13	0.10	57.92	2,113.10	3,371.83	3,979.26	3,979.02	0.23	N/A		
200.00	200.00	126.98	126.97	0.49	0.37	57.93	2,113.01	3,372.38	3,979.82	3,978.96	0.86	4,631.500		
300.00	300.00	223.29	223.28	0.85	0.71	57.94	2,113.13	3,373.36	3,980.75	3,979.19	1.56	2,549.024		
400.00	400.00	311.20	311.19	1.21	1.02	57.94	2,113.60	3,374.23	3,981.87	3,979.64	2.23	1,782.344		
500.00	500.00	448.76	448.74	1.57	1.51	57.94	2,114.22	3,375.03	3,982.58	3,979.50	3.08	1,293.333		
600.00	600.00	534.25	534.23	1.93	1.81	57.93	2,114.99	3,375.12	3,983.13	3,979.40	3.74	1,065.495		
700.00	699.98	663.88	663.85	2.28	2.26	-5.92	2,116.54	3,374.58	3,981.67	3,977.13	4.54	876.250		
800.00	799.84	775.66	775.62	2.64	2.65	-5.95	2,117.12	3,373.92	3,976.24	3,970.95	5.28	752.478		
900.00	899.45	884.66	884.62	3.00	3.03	-6.00	2,117.34	3,373.20	3,967.12	3,961.10	6.02	659.252		
1,000.00	998.70	982.04	982.00	3.37	3.36	-6.05	2,117.37	3,372.46	3,954.38	3,947.67	6.71	589.151		
1,100.00	1,097.47	1,068.12	1,068.08	3.76	3.66	-6.10	2,116.97	3,372.31	3,938.43	3,931.06	7.37	534.327		
1,200.00	1,195.62	1,986.16	1,977.02	4.18	7.07	-6.25	2,051.30	3,292.93	3,904.25	3,893.44	10.82	360.953		
1,300.00	1,293.06	2,129.55	2,116.77	4.63	7.70	-6.25	2,026.68	3,272.34	3,861.79	3,850.13	11.67	331.014		
1,400.00	1,389.64	2,190.85	2,176.40	5.11	7.98	-6.31	2,015.69	3,263.36	3,815.45	3,803.20	12.25	311.447		
1,500.00	1,485.27	2,245.29	2,229.46	5.63	8.23	-6.40	2,006.16	3,255.73	3,766.74	3,753.93	12.82	293.915		
1,600.00	1,579.82	2,305.22	2,287.98	6.20	8.50	-6.49	1,995.99	3,247.76	3,715.80	3,702.40	13.40	277.279		
1,700.00	1,673.17	2,487.40	2,465.49	6.83	9.36	-6.53	1,964.08	3,222.11	3,661.24	3,646.86	14.38	254.633		
1,800.00	1,765.21	2,572.00	2,547.55	7.51	9.77	-6.65	1,948.43	3,208.72	3,601.99	3,586.95	15.04	239.432		
1,900.00	1,855.84	2,633.59	2,607.32	8.24	10.07	-6.80	1,937.24	3,198.97	3,540.25	3,524.61	15.64	226.401		
2,000.00	1,944.94	2,674.34	2,647.01	9.05	10.27	-6.99	1,930.35	3,192.80	3,476.72	3,460.55	16.17	215.033		
2,100.00	2,032.39	2,714.61	2,686.34	9.91	10.46	-7.21	1,923.96	3,186.92	3,411.34	3,394.64	16.70	204.265		
2,200.00	2,118.11	2,761.00	2,731.75	10.85	10.69	-7.46	1,917.11	3,180.43	3,344.14	3,326.89	17.25	193.836		
2,300.00	2,201.97	2,806.85	2,776.72	11.85	10.91	-7.74	1,910.53	3,174.31	3,275.01	3,257.20	17.80	183.949		
2,400.00	2,283.88	2,871.22	2,839.86	12.93	11.21	-8.05	1,901.03	3,166.24	3,203.77	3,185.37	18.41	174.068		
2,429.47	2,307.63	2,914.67	2,882.44	13.26	11.41	-8.16	1,894.31	3,160.76	3,182.23	3,163.58	18.65	170.631		
2,500.00	2,364.26	2,978.73	2,945.10	14.06	11.72	-8.19	1,883.88	3,152.45	3,130.05	3,110.94	19.11	163.764		
2,600.00	2,444.56	3,041.24	3,006.18	15.22	12.02	-8.20	1,873.08	3,144.70	3,056.08	3,036.37	19.70	155.112		
2,700.00	2,524.85	3,204.15	3,164.74	16.39	12.84	-8.23	1,843.50	3,121.95	2,980.54	2,960.03	20.52	145.279		
2,800.00	2,605.14	3,281.68	3,239.97	17.57	13.24	-8.25	1,829.09	3,109.94	2,904.32	2,883.19	21.13	137.425		
2,900.00	2,685.43	3,376.43	3,331.80	18.76	13.74	-8.29	1,811.44	3,094.71	2,827.82	2,806.04	21.78	129.835		
3,000.00	2,765.73	3,443.66	3,396.81	19.96	14.09	-8.34	1,798.78	3,083.12	2,750.53	2,728.15	22.38	122.912		
3,100.00	2,846.02	3,479.12	3,431.17	21.16	14.28	-8.36	1,792.34	3,077.20	2,673.78	2,650.84	22.94	116.560		
3,200.00	2,926.31	3,516.70	3,467.68	22.37	14.48	-8.39	1,785.79	3,071.21	2,597.72	2,574.20	23.52	110.462		
3,300.00	3,006.60	3,300.00	3,552.77	23.59	13.34	-8.45	1,769.71	3,057.31	2,521.29	2,498.35	22.93	109.938		
3,400.00	3,086.90	3,660.73	3,607.37	24.81	15.24	-8.47	1,759.06	3,048.43	2,444.84	2,420.08	24.76	98.729		
3,500.00	3,167.19	3,704.00	3,649.43	26.03	15.46	-8.50	1,751.30	3,041.91	2,369.08	2,343.71	25.38	93.360		
3,600.00	3,247.48	3,781.81	3,725.11	27.25	15.87	-8.55	1,737.36	3,030.35	2,293.47	2,267.47	26.01	88.193		
3,700.00	3,327.77	3,838.74	3,780.41	28.48	16.16	-8.57	1,726.80	3,021.94	2,217.68	2,191.04	26.64	83.261		
3,800.00	3,408.07	3,892.00	3,832.21	29.71	16.44	-8.59	1,716.93	3,014.46	2,142.29	2,115.01	27.27	78.546		
3,900.00	3,488.36	3,942.60	3,881.51	30.94	16.70	-8.61	1,707.78	3,007.59	2,067.33	2,039.41	27.92	74.033		
4,000.00	3,568.65	3,997.18	3,934.77	32.17	16.98	-8.65	1,698.39	3,000.29	1,992.81	1,964.22	28.58	69.720		
4,100.00	3,648.95	4,059.33	3,995.49	33.41	17.29	-8.71	1,688.13	2,991.96	1,918.55	1,889.31	29.24	65.614		
4,200.00	3,729.24	4,121.89	4,056.69	34.64	17.60	-8.80	1,678.23	2,983.49	1,844.45	1,814.55	29.90	61.683		
4,300.00	3,809.53	4,195.38	4,128.63	35.88	17.97	-8.95	1,667.28	2,973.25	1,770.49	1,739.95	30.55	57.961		
4,400.00	3,889.82	4,297.95	4,228.70	37.12	18.49	-9.20	1,651.52	2,957.21	1,695.28	1,664.18	31.10	54.510		
4,500.00	3,970.12	4,365.74	4,294.72	38.36	18.84	-9.40	1,640.88	2,946.07	1,619.61	1,587.87	31.74	51.022		
4,600.00	4,050.41	4,450.99	4,377.60	39.60	19.29	-9.68	1,627.22	2,931.52	1,543.47	1,511.16	32.31	47.769		
4,700.00	4,130.70	4,557.32	4,480.42	40.84	19.88	-10.03	1,608.47	2,911.99	1,466.05	1,433.32	32.73	44.788		
4,800.00	4,210.99	4,605.19	4,526.59	42.08	20.14	-10.20	1,599.60	2,903.00	1,388.07	1,354.60	33.46	41.479		
4,900.00	4,291.29	4,659.88	4,579.47	43.32	20.45	-10.42	1,589.84	2,893.01	1,310.62	1,276.45	34.18	38.349		
5,000.00	4,371.58	4,730.03	4,647.25	44.57	20.84	-10.71	1,576.99	2,880.35	1,233.14	1,198.36	34.78	35.453		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,780.03	4,695.57	45.81	21.11	-10.92	1,567.61	2,871.53	1,155.76	1,120.20	35.57	32.496		
5,200.00	4,532.16	4,827.48	4,741.59	47.05	21.37	-11.14	1,559.11	2,863.72	1,079.32	1,042.91	36.41	29.640		
5,300.00	4,612.46	4,907.55	4,819.30	48.30	21.80	-11.57	1,544.85	2,850.69	1,003.07	966.14	36.93	27.158		
5,400.00	4,692.75	4,995.77	4,904.41	49.54	22.30	-12.12	1,527.80	2,834.94	925.40	888.11	37.29	24.816		
5,500.00	4,773.04	5,059.63	4,965.68	50.79	22.67	-12.57	1,514.49	2,822.79	846.55	808.59	37.95	22.307		
5,600.00	4,853.34	5,113.66	5,017.63	52.03	22.98	-13.02	1,503.47	2,812.83	768.19	729.38	38.81	19.793		
5,700.00	4,933.63	5,169.29	5,071.24	53.28	23.30	-13.54	1,492.20	2,803.17	690.48	650.78	39.71	17.390		
5,800.00	5,013.92	5,228.99	5,128.85	54.53	23.64	-14.10	1,479.75	2,793.74	613.39	572.84	40.56	15.123		
5,900.00	5,094.21	5,296.97	5,194.38	55.77	24.02	-14.86	1,465.14	2,783.08	536.16	494.94	41.22	13.006		
6,000.00	5,174.51	5,354.79	5,250.11	57.02	24.34	-15.71	1,452.68	2,774.03	458.98	416.70	42.28	10.856		
6,100.00	5,254.80	5,414.60	5,308.01	58.27	24.68	-16.95	1,440.46	2,765.26	382.80	339.36	43.45	8.811		
6,200.00	5,335.09	5,482.91	5,374.07	59.52	25.06	-19.05	1,426.35	2,755.14	306.60	262.17	44.43	6.901		
6,300.00	5,415.38	5,546.13	5,435.12	60.76	25.41	-22.28	1,413.07	2,745.48	230.28	184.13	46.14	4.991		
6,400.00	5,495.68	5,609.25	5,496.18	62.01	25.76	-28.62	1,400.27	2,735.92	154.99	105.65	49.34	3.141		
6,500.00	5,575.97	5,673.41	5,558.33	63.26	26.11	-44.86	1,387.42	2,726.44	82.53	24.03	58.49	1.411 Level 3		
6,597.89	5,654.57	5,736.67	5,619.65	64.48	26.46	-98.42	1,374.88	2,717.29	35.37	-54.52	89.89	0.393 Level 1, CC, ES, SF		
6,600.00	5,656.26	5,738.04	5,620.98	64.51	26.46	-100.11	1,374.61	2,717.09	35.41	-54.35	89.76	0.394 Level 1		
6,700.00	5,736.55	5,802.73	5,683.76	65.76	26.82	-153.08	1,362.18	2,707.63	85.34	30.32	55.02	1.551		
6,800.00	5,816.85	5,866.61	5,745.75	67.01	27.16	-168.15	1,350.39	2,697.75	158.00	109.47	48.53	3.256		
6,900.00	5,897.14	5,932.72	5,809.97	68.26	27.52	-174.10	1,338.74	2,687.24	232.95	185.12	47.83	4.870		
7,000.00	5,977.43	5,998.61	5,874.10	69.50	27.87	-177.11	1,327.51	2,677.07	308.02	259.95	48.07	6.408		
7,100.00	6,057.72	6,061.97	5,935.63	70.75	28.21	-179.10	1,315.80	2,667.53	383.53	335.12	48.41	7.923		
7,200.00	6,138.02	6,141.78	6,013.33	72.00	28.63	-179.21	1,301.28	2,656.57	458.32	408.60	49.72	9.218		
7,300.00	6,218.31	6,228.61	6,098.54	73.25	29.05	-178.13	1,287.73	2,646.83	530.83	479.64	51.19	10.369		
7,400.00	6,298.60	6,308.18	6,177.05	74.50	29.41	-177.52	1,277.02	2,639.57	601.32	549.10	52.23	11.514		
7,500.00	6,378.90	6,381.69	6,249.70	75.75	29.74	-177.15	1,267.88	2,633.11	671.29	618.29	53.00	12.666		
7,600.00	6,459.19	6,457.02	6,324.23	77.00	30.06	-176.97	1,259.58	2,625.98	741.21	687.40	53.81	13.774		
7,700.00	6,539.48	6,557.80	6,424.31	78.25	30.47	-176.92	1,251.00	2,617.84	809.33	754.04	55.29	14.637		
7,800.00	6,619.77	6,647.14	6,513.29	79.50	30.81	-176.94	1,245.01	2,612.37	875.56	819.20	56.36	15.535		
7,900.00	6,700.07	6,729.55	6,595.44	80.75	31.10	-177.02	1,240.60	2,607.77	940.94	883.72	57.22	16.444		
8,000.00	6,780.36	6,812.22	6,677.92	82.00	31.39	-177.13	1,237.02	2,603.37	1,005.78	947.72	58.06	17.322		
8,100.00	6,860.65	6,908.78	6,774.32	83.25	31.71	-177.29	1,234.01	2,598.96	1,069.69	1,010.52	59.16	18.080		
8,200.00	6,940.94	6,998.32	6,863.80	84.50	32.00	-177.46	1,232.47	2,595.75	1,132.39	1,072.31	60.09	18.846		
8,300.00	7,021.24	7,078.63	6,944.07	85.76	32.24	-177.61	1,231.49	2,593.25	1,194.60	1,133.78	60.83	19.640		
8,400.00	7,101.53	7,164.84	7,030.24	87.01	32.51	-177.74	1,230.33	2,590.90	1,256.60	1,194.93	61.67	20.376		
8,500.00	7,181.82	7,268.29	7,133.66	88.26	32.81	-177.83	1,228.76	2,589.57	1,317.69	1,254.90	62.78	20.988		
8,605.60	7,266.61	7,361.48	7,226.84	89.58	33.07	-177.93	1,228.52	2,589.40	1,380.82	1,317.15	63.67	21.687		
8,650.00	7,302.60	7,627.16	7,487.99	90.13	33.54	-171.99	1,268.55	2,591.06	1,404.91	1,338.38	66.53	21.117		
8,700.00	7,343.78	8,433.72	7,903.72	90.72	32.39	-170.17	1,897.82	2,577.47	1,416.74	1,336.72	80.01	17.706		
8,750.00	7,385.32	8,440.04	7,903.99	91.28	32.38	-178.20	1,904.13	2,577.64	1,425.09	1,344.11	80.98	17.597		
8,800.00	7,426.92	8,441.24	7,904.04	91.81	32.38	-173.33	1,905.33	2,577.67	1,435.16	1,353.37	81.79	17.547		
8,850.00	7,468.27	8,437.50	7,903.88	92.29	32.39	-164.74	1,901.60	2,577.57	1,446.84	1,364.41	82.43	17.553		
8,900.00	7,509.04	8,429.03	7,903.50	92.72	32.40	-156.30	1,893.14	2,577.34	1,459.97	1,377.08	82.90	17.612		
8,950.00	7,548.93	8,416.04	7,902.88	93.10	32.43	-148.21	1,880.16	2,577.00	1,474.35	1,391.14	83.21	17.719		
9,000.00	7,587.63	8,398.76	7,902.00	93.43	32.46	-140.59	1,862.92	2,576.54	1,489.72	1,406.35	83.37	17.868		
9,050.00	7,624.85	8,207.40	7,872.93	93.71	32.88	-127.24	1,674.46	2,579.17	1,504.08	1,426.30	77.78	19.337		
9,100.00	7,660.30	8,197.29	7,869.76	93.93	32.91	-121.47	1,664.87	2,579.51	1,518.42	1,440.23	78.19	19.420		
9,150.00	7,693.72	8,175.22	7,862.21	94.10	32.95	-115.90	1,644.14	2,580.10	1,532.80	1,454.54	78.26	19.586		
9,200.00	7,724.85	8,152.16	7,853.54	94.23	33.00	-110.90	1,622.78	2,580.65	1,546.93	1,468.60	78.33	19.750		
9,250.00	7,753.45	8,123.88	7,841.92	94.30	33.06	-106.27	1,597.01	2,581.27	1,560.60	1,482.33	78.27	19.939		
9,300.00	7,779.31	8,092.11	7,827.93	94.34	33.13	-102.08	1,568.50	2,582.02	1,573.50	1,495.36	78.14	20.136		
9,350.00	7,802.23	8,067.78	7,816.52	94.33	33.18	-98.61	1,547.01	2,582.57	1,585.52	1,507.22	78.30	20.250		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,042.16	7,803.83	94.28	33.23	95.57	1,524.77	2,583.07	1,596.53	1,518.06	78.47	20.345		
9,450.00	7,838.57	8,014.80	7,789.35	94.20	33.28	92.90	1,501.56	2,583.53	1,606.35	1,527.70	78.65	20.423		
9,500.00	7,851.72	7,986.88	7,773.54	94.10	33.33	90.63	1,478.54	2,583.93	1,614.83	1,535.95	78.89	20.471		
9,550.00	7,861.37	7,958.31	7,756.57	93.96	33.38	88.73	1,455.71	2,584.30	1,621.85	1,542.68	79.17	20.486		
9,600.00	7,867.46	7,933.98	7,740.91	93.81	33.42	87.32	1,436.94	2,584.55	1,627.31	1,547.65	79.66	20.427		
9,650.00	7,869.94	7,911.04	7,725.49	93.64	33.45	86.30	1,419.95	2,584.70	1,631.23	1,550.95	80.28	20.319		
9,659.14	7,870.00	7,905.00	7,721.30	93.60	33.46	86.10	1,415.61	2,584.73	1,631.77	1,551.43	80.34	20.310		
9,700.00	7,870.00	7,882.85	7,705.45	93.46	33.49	85.55	1,400.14	2,584.83	1,634.37	1,553.59	80.79	20.231		
9,800.00	7,870.00	7,803.96	7,643.73	93.11	33.55	83.39	1,351.14	2,586.29	1,643.10	1,561.90	81.20	20.234		
9,900.00	7,870.00	7,764.00	7,610.33	92.77	33.57	82.22	1,329.25	2,587.74	1,655.51	1,572.63	82.88	19.974		
10,000.00	7,870.00	7,731.17	7,582.07	92.46	33.57	81.23	1,312.59	2,588.91	1,672.69	1,587.89	84.79	19.727		
10,100.00	7,870.00	7,706.53	7,560.40	92.16	33.57	80.48	1,300.88	2,589.69	1,694.80	1,607.89	86.90	19.502		
10,200.00	7,870.00	7,686.33	7,542.35	91.87	33.56	79.86	1,291.84	2,590.22	1,721.85	1,632.79	89.06	19.333		
10,300.00	7,870.00	7,670.00	7,527.57	91.60	33.56	79.35	1,284.91	2,590.56	1,753.72	1,662.51	91.22	19.226		
10,400.00	7,870.00	7,653.68	7,512.62	91.34	33.55	78.84	1,278.35	2,590.82	1,790.24	1,697.01	93.23	19.202		
10,500.00	7,870.00	7,640.44	7,500.38	91.11	33.54	78.42	1,273.33	2,590.97	1,831.21	1,736.04	95.16	19.242		
10,600.00	7,870.00	7,622.00	7,483.15	90.88	33.53	77.84	1,266.77	2,591.07	1,876.40	1,779.57	96.83	19.379		
10,700.00	7,870.00	7,622.00	7,483.15	90.67	33.53	77.84	1,266.77	2,591.07	1,925.46	1,826.76	98.70	19.508		
10,800.00	7,870.00	7,622.00	7,483.15	90.48	33.53	77.84	1,266.77	2,591.07	1,978.37	1,877.99	100.38	19.708		
10,900.00	7,870.00	7,598.55	7,460.94	90.31	33.51	77.09	1,259.24	2,591.10	2,034.35	1,932.87	101.47	20.048		
11,000.00	7,870.00	7,575.00	7,438.33	90.15	33.49	76.33	1,252.66	2,591.06	2,093.86	1,991.40	102.45	20.437		
11,100.00	7,870.00	7,575.00	7,438.33	90.00	33.49	76.33	1,252.66	2,591.06	2,155.91	2,052.24	103.67	20.795		
11,200.00	7,870.00	7,575.00	7,438.33	89.88	33.49	76.33	1,252.66	2,591.06	2,220.74	2,115.99	104.75	21.201		
11,300.00	7,870.00	7,575.00	7,438.33	89.77	33.49	76.33	1,252.66	2,591.06	2,288.10	2,182.41	105.69	21.649		
11,400.00	7,870.00	7,575.00	7,438.33	89.68	33.49	76.33	1,252.66	2,591.06	2,357.78	2,251.26	106.52	22.135		
11,500.00	7,870.00	7,575.00	7,438.33	89.60	33.49	76.33	1,252.66	2,591.06	2,429.58	2,322.34	107.24	22.656		
11,600.00	7,870.00	7,553.23	7,417.20	89.55	33.46	75.63	1,247.41	2,590.92	2,502.88	2,395.26	107.62	23.256		
11,700.00	7,870.00	7,548.42	7,412.51	89.52	33.45	75.47	1,246.35	2,590.87	2,578.18	2,470.04	108.13	23.842		
11,800.00	7,870.00	7,528.00	7,392.51	89.50	33.43	74.81	1,242.24	2,590.59	2,655.29	2,546.87	108.42	24.490		
11,900.00	7,870.00	7,528.00	7,392.51	89.51	33.43	74.81	1,242.24	2,590.59	2,733.53	2,624.68	108.86	25.111		
12,000.00	7,870.00	7,528.00	7,392.51	89.54	33.43	74.81	1,242.24	2,590.59	2,813.16	2,703.92	109.23	25.754		
12,100.00	7,870.00	7,528.00	7,392.51	89.59	33.43	74.81	1,242.24	2,590.59	2,894.04	2,784.49	109.56	26.416		
12,200.00	7,870.00	7,528.00	7,392.51	89.66	33.43	74.81	1,242.24	2,590.59	2,976.09	2,866.26	109.84	27.096		
12,300.00	7,870.00	7,528.00	7,392.51	89.77	33.43	74.81	1,242.24	2,590.59	3,059.21	2,949.13	110.08	27.792		
12,400.00	7,870.00	7,528.00	7,392.51	89.89	33.43	74.81	1,242.24	2,590.59	3,143.31	3,033.03	110.28	28.503		
12,500.00	7,870.00	7,528.00	7,392.51	90.05	33.43	74.81	1,242.24	2,590.59	3,228.32	3,117.86	110.46	29.227		
12,600.00	7,870.00	7,528.00	7,392.51	90.24	33.43	74.81	1,242.24	2,590.59	3,314.16	3,203.56	110.60	29.965		
12,700.00	7,870.00	7,509.04	7,373.84	90.46	33.39	74.20	1,238.95	2,590.27	3,400.53	3,289.92	110.61	30.744		
12,800.00	7,870.00	7,505.69	7,370.54	90.71	33.39	74.09	1,238.42	2,590.21	3,487.77	3,377.07	110.70	31.507		
12,900.00	7,870.00	7,502.50	7,367.39	90.99	33.38	73.99	1,237.92	2,590.16	3,575.66	3,464.89	110.77	32.279		
13,000.00	7,870.00	7,499.47	7,364.39	91.32	33.38	73.89	1,237.46	2,590.10	3,664.16	3,553.33	110.83	33.060		
13,100.00	7,870.00	7,481.00	7,346.11	91.68	33.35	73.30	1,234.88	2,589.75	3,753.40	3,642.60	110.80	33.876		
13,200.00	7,870.00	7,481.00	7,346.11	92.08	33.35	73.30	1,234.88	2,589.75	3,842.94	3,732.08	110.85	34.667		
13,300.00	7,870.00	7,481.00	7,346.11	92.52	33.35	73.30	1,234.88	2,589.75	3,932.98	3,822.08	110.90	35.465		
13,400.00	7,870.00	7,481.00	7,346.11	93.00	33.35	73.30	1,234.88	2,589.75	4,023.49	3,912.56	110.93	36.270		
13,500.00	7,870.00	7,481.00	7,346.11	93.53	33.35	73.30	1,234.88	2,589.75	4,114.44	4,003.49	110.96	37.082		
13,600.00	7,870.00	7,481.00	7,346.11	94.10	33.35	73.30	1,234.88	2,589.75	4,205.81	4,094.83	110.97	37.900		
13,700.00	7,870.00	7,481.00	7,346.11	94.72	33.35	73.30	1,234.88	2,589.75	4,297.55	4,186.57	110.98	38.723		
13,800.00	7,870.00	7,481.00	7,346.11	95.38	33.35	73.30	1,234.88	2,589.75	4,389.66	4,278.67	110.99	39.551		
13,900.00	7,870.00	7,481.00	7,346.11	96.09	33.35	73.30	1,234.88	2,589.75	4,482.11	4,371.12	110.99	40.384		
14,000.00	7,870.00	7,481.00	7,346.11	96.84	33.35	73.30	1,234.88	2,589.75	4,574.87	4,463.89	110.98	41.221		
14,100.00	7,870.00	7,481.00	7,346.11	97.64	33.35	73.30	1,234.88	2,589.75	4,667.94	4,556.96	110.98	42.063		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	7,481.00	7,346.11	98.48	33.35	73.30	1,234.88	2,589.75	4,761.28	4,650.32	110.96	42.908		
14,300.00	7,870.00	7,481.00	7,346.11	99.37	33.35	73.30	1,234.88	2,589.75	4,854.89	4,743.94	110.95	43.757		
14,400.00	7,870.00	7,481.00	7,346.11	100.30	33.35	73.30	1,234.88	2,589.75	4,948.75	4,837.82	110.93	44.610		
14,500.00	7,870.00	7,481.00	7,346.11	101.26	33.35	73.30	1,234.88	2,589.75	5,042.84	4,931.93	110.92	45.466		
14,600.00	7,870.00	7,481.00	7,346.11	102.27	33.35	73.30	1,234.88	2,589.75	5,137.16	5,026.27	110.90	46.325		
14,700.00	7,870.00	7,481.00	7,346.11	103.31	33.35	73.30	1,234.88	2,589.75	5,231.69	5,120.82	110.87	47.186		
14,800.00	7,870.00	7,481.00	7,346.11	104.38	33.35	73.30	1,234.88	2,589.75	5,326.42	5,215.57	110.85	48.050		
14,900.00	7,870.00	7,481.00	7,346.11	105.49	33.35	73.30	1,234.88	2,589.75	5,421.34	5,310.51	110.83	48.917		
15,000.00	7,870.00	7,460.40	7,325.64	106.63	33.31	72.64	1,232.52	2,589.43	5,516.13	5,405.39	110.74	49.811		
15,100.00	7,870.00	7,459.16	7,324.41	107.80	33.30	72.60	1,232.40	2,589.41	5,611.36	5,500.65	110.72	50.683		
15,200.00	7,870.00	7,457.97	7,323.23	109.00	33.30	72.57	1,232.29	2,589.40	5,706.76	5,596.07	110.69	51.557		
15,300.00	7,870.00	7,456.82	7,322.09	110.22	33.30	72.53	1,232.18	2,589.39	5,802.30	5,691.64	110.66	52.433		
15,400.00	7,870.00	7,455.71	7,320.98	111.47	33.30	72.49	1,232.07	2,589.37	5,897.99	5,787.36	110.63	53.311		
15,500.00	7,870.00	7,454.64	7,319.91	112.74	33.30	72.46	1,231.97	2,589.36	5,993.82	5,883.22	110.61	54.190		
15,600.00	7,870.00	7,433.00	7,298.33	114.03	33.25	71.77	1,230.32	2,589.22	6,090.09	5,979.56	110.53	55.100		
15,700.00	7,870.00	7,433.00	7,298.33	115.34	33.25	71.77	1,230.32	2,589.22	6,186.15	6,075.65	110.51	55.980		
15,800.00	7,870.00	7,433.00	7,298.33	116.68	33.25	71.77	1,230.32	2,589.22	6,282.33	6,171.85	110.48	56.862		
15,900.00	7,870.00	7,433.00	7,298.33	118.02	33.25	71.77	1,230.32	2,589.22	6,378.63	6,268.17	110.46	57.746		
16,000.00	7,870.00	7,433.00	7,298.33	119.39	33.25	71.77	1,230.32	2,589.22	6,475.05	6,364.61	110.44	58.630		
16,100.00	7,870.00	7,433.00	7,298.33	120.77	33.25	71.77	1,230.32	2,589.22	6,571.57	6,461.15	110.42	59.516		
16,200.00	7,870.00	7,433.00	7,298.33	122.17	33.25	71.77	1,230.32	2,589.22	6,668.19	6,557.79	110.39	60.403		
16,300.00	7,870.00	7,433.00	7,298.33	123.58	33.25	71.77	1,230.32	2,589.22	6,764.91	6,654.53	110.37	61.291		
16,400.00	7,870.00	7,433.00	7,298.33	125.00	33.25	71.77	1,230.32	2,589.22	6,861.72	6,751.37	110.35	62.180		
16,500.00	7,870.00	7,433.00	7,298.33	126.43	33.25	71.77	1,230.32	2,589.22	6,958.63	6,848.29	110.33	63.069		
16,600.00	7,870.00	7,433.00	7,298.33	127.88	33.25	71.77	1,230.32	2,589.22	7,055.62	6,945.30	110.31	63.960		
16,700.00	7,870.00	7,433.00	7,298.33	129.34	33.25	71.77	1,230.32	2,589.22	7,152.69	7,042.40	110.29	64.851		
16,800.00	7,870.00	7,433.00	7,298.33	130.81	33.25	71.77	1,230.32	2,589.22	7,249.85	7,139.57	110.28	65.743		
16,900.00	7,870.00	7,433.00	7,298.33	132.28	33.25	71.77	1,230.32	2,589.22	7,347.07	7,236.82	110.26	66.635		
17,000.00	7,870.00	7,433.00	7,298.33	133.77	33.25	71.77	1,230.32	2,589.22	7,444.38	7,334.14	110.24	67.528		
17,100.00	7,870.00	7,433.00	7,298.33	135.27	33.25	71.77	1,230.32	2,589.22	7,541.75	7,431.53	110.22	68.422		
17,200.00	7,870.00	7,433.00	7,298.33	136.77	33.25	71.77	1,230.32	2,589.22	7,639.19	7,528.98	110.21	69.316		
17,300.00	7,870.00	7,433.00	7,298.33	138.28	33.25	71.77	1,230.32	2,589.22	7,736.70	7,626.51	110.19	70.210		
17,400.00	7,870.00	7,433.00	7,298.33	139.80	33.25	71.77	1,230.32	2,589.22	7,834.27	7,724.09	110.18	71.105		
17,500.00	7,870.00	7,433.00	7,298.33	141.33	33.25	71.77	1,230.32	2,589.22	7,931.90	7,821.73	110.17	72.000		
17,600.00	7,870.00	7,433.00	7,298.33	142.86	33.25	71.77	1,230.32	2,589.22	8,029.59	7,919.44	110.15	72.895		
17,700.00	7,870.00	7,433.00	7,298.33	144.40	33.25	71.77	1,230.32	2,589.22	8,127.33	8,017.19	110.14	73.791		
17,800.00	7,870.00	7,433.00	7,298.33	145.95	33.25	71.77	1,230.32	2,589.22	8,225.13	8,115.00	110.13	74.687		
17,900.00	7,870.00	7,433.00	7,298.33	147.50	33.25	71.77	1,230.32	2,589.22	8,322.98	8,212.87	110.12	75.583		
18,000.00	7,870.00	7,433.00	7,298.33	149.06	33.25	71.77	1,230.32	2,589.22	8,420.88	8,310.78	110.11	76.479		
18,100.00	7,870.00	7,433.00	7,298.33	150.63	33.25	71.77	1,230.32	2,589.22	8,518.84	8,408.74	110.10	77.375		
18,200.00	7,870.00	7,433.00	7,298.33	152.20	33.25	71.77	1,230.32	2,589.22	8,616.83	8,506.74	110.09	78.271		
18,300.00	7,870.00	7,433.00	7,298.33	153.77	33.25	71.77	1,230.32	2,589.22	8,714.88	8,604.79	110.08	79.167		
18,400.00	7,870.00	7,433.00	7,298.33	155.35	33.25	71.77	1,230.32	2,589.22	8,812.96	8,702.89	110.07	80.064		
18,500.00	7,870.00	7,433.00	7,298.33	156.93	33.25	71.77	1,230.32	2,589.22	8,911.09	8,801.02	110.07	80.960		
18,600.00	7,870.00	7,433.00	7,298.33	158.52	33.25	71.77	1,230.32	2,589.22	9,009.26	8,899.20	110.06	81.856		
18,700.00	7,870.00	7,433.00	7,298.33	160.11	33.25	71.77	1,230.32	2,589.22	9,107.47	8,997.42	110.06	82.752		
18,800.00	7,870.00	7,433.00	7,298.33	161.71	33.25	71.77	1,230.32	2,589.22	9,205.72	9,095.67	110.05	83.648		
18,900.00	7,870.00	7,433.00	7,298.33	163.31	33.25	71.77	1,230.32	2,589.22	9,304.01	9,193.96	110.05	84.544		
19,000.00	7,870.00	7,433.00	7,298.33	164.91	33.25	71.77	1,230.32	2,589.22	9,402.33	9,292.28	110.05	85.439		
19,100.00	7,870.00	7,433.00	7,298.33	166.52	33.25	71.77	1,230.32	2,589.22	9,500.69	9,390.64	110.04	86.335		
19,200.00	7,870.00	7,433.00	7,298.33	168.13	33.25	71.77	1,230.32	2,589.22	9,599.08	9,489.04	110.04	87.230		
19,300.00	7,870.00	7,433.00	7,298.33	169.75	33.25	71.77	1,230.32	2,589.22	9,697.50	9,587.46	110.04	88.125		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	7,433.00	7,298.33	171.10	33.25	71.77	1,230.32	2,589.22	9,779.72	9,669.68	110.04	88.872	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	58.16	2,113.11	3,402.30	4,005.29					
100.00	100.00	51.34	51.34	0.13	0.09	58.16	2,113.11	3,402.34	4,005.16	4,004.93	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.16	2,113.17	3,402.86	4,005.78	4,004.93	0.85	4,700.330		
300.00	300.00	195.09	195.08	0.85	0.61	58.16	2,113.46	3,403.78	4,007.11	4,005.65	1.46	2,740.237		
400.00	400.00	290.10	290.08	1.21	0.95	58.16	2,114.30	3,405.34	4,008.96	4,006.80	2.16	1,855.427		
500.00	500.00	444.47	444.43	1.57	1.50	58.17	2,114.99	3,407.10	4,010.21	4,007.14	3.07	1,306.805		
600.00	600.00	568.68	568.64	1.93	1.93	58.17	2,114.79	3,407.24	4,010.20	4,006.35	3.85	1,040.886		
700.00	699.98	680.24	680.20	2.28	2.30	-5.66	2,115.04	3,406.81	4,008.25	4,003.67	4.58	874.325		
800.00	799.84	804.17	804.12	2.64	2.73	-5.69	2,115.04	3,405.67	4,002.26	3,996.90	5.36	746.460		
900.00	899.45	883.13	883.08	3.00	3.00	-5.72	2,114.89	3,404.91	3,992.71	3,986.72	5.99	666.419		
1,000.00	998.70	977.40	977.34	3.37	3.33	-5.77	2,115.22	3,404.39	3,980.28	3,973.60	6.68	595.938		
1,100.00	1,097.47	1,110.52	1,110.46	3.76	3.79	-5.85	2,115.67	3,402.79	3,963.90	3,956.39	7.51	528.075		
1,200.00	1,195.62	1,823.93	1,820.11	4.18	6.37	-6.04	2,080.47	3,357.79	3,943.82	3,933.53	10.29	383.243		
1,300.00	1,293.06	1,956.44	1,950.10	4.63	6.90	-6.00	2,058.88	3,343.90	3,904.57	3,893.47	11.11	351.565		
1,400.00	1,389.64	2,024.24	2,016.47	5.11	7.18	-6.01	2,046.42	3,337.79	3,862.35	3,850.64	11.71	329.746		
1,500.00	1,485.27	2,151.68	2,140.72	5.63	7.73	-5.90	2,020.23	3,327.05	3,816.27	3,803.74	12.53	304.652		
1,600.00	1,579.82	2,220.01	2,207.36	6.20	8.02	-5.90	2,006.23	3,321.47	3,767.51	3,754.36	13.15	286.558		
1,700.00	1,673.17	2,311.55	2,296.61	6.83	8.43	-5.86	1,987.19	3,314.12	3,715.74	3,701.89	13.85	268.264		
1,800.00	1,765.21	2,375.60	2,359.11	7.51	8.72	-5.88	1,974.19	3,308.98	3,661.29	3,646.82	14.47	253.097		
1,900.00	1,855.84	2,430.52	2,412.82	8.24	8.96	-5.94	1,963.56	3,304.63	3,604.47	3,589.42	15.05	239.445		
2,000.00	1,944.94	2,482.97	2,464.20	9.05	9.20	-6.02	1,953.81	3,300.72	3,545.48	3,529.84	15.64	226.760		
2,100.00	2,032.39	2,534.71	2,514.98	9.91	9.43	-6.11	1,944.58	3,297.08	3,484.33	3,468.12	16.22	214.854		
2,200.00	2,118.11	2,573.00	2,552.61	10.85	9.60	-6.24	1,937.99	3,294.53	3,421.12	3,404.36	16.76	204.136		
2,300.00	2,201.97	2,633.63	2,612.30	11.85	9.86	-6.36	1,928.08	3,290.74	3,355.79	3,338.42	17.37	193.185		
2,400.00	2,283.88	2,681.26	2,659.29	12.93	10.07	-6.53	1,920.77	3,287.96	3,288.50	3,270.55	17.94	183.265		
2,429.47	2,307.63	2,695.14	2,673.00	13.26	10.13	-6.58	1,918.71	3,287.19	3,268.29	3,250.17	18.12	180.404		
2,500.00	2,364.26	2,728.46	2,705.92	14.06	10.27	-6.56	1,913.94	3,285.39	3,219.87	3,201.35	18.52	173.885		
2,600.00	2,444.56	2,802.42	2,779.10	15.22	10.59	-6.52	1,903.97	3,281.46	3,151.61	3,132.44	19.16	164.456		
2,700.00	2,524.85	2,938.46	2,913.64	16.39	11.17	-6.50	1,886.32	3,271.81	3,082.45	3,062.48	19.97	154.378		
2,800.00	2,605.14	3,016.93	2,991.09	17.57	11.52	-6.48	1,875.37	3,265.59	3,012.38	2,991.76	20.62	146.058		
2,900.00	2,685.43	3,077.40	3,050.72	18.76	11.78	-6.44	1,866.28	3,261.22	2,942.35	2,921.10	21.25	138.481		
3,000.00	2,765.73	3,130.00	3,102.61	19.96	12.02	-6.40	1,858.45	3,257.70	2,872.69	2,850.83	21.86	131.403		
3,100.00	2,846.02	3,177.70	3,149.73	21.16	12.22	-6.37	1,851.70	3,254.71	2,803.59	2,781.12	22.47	124.749		
3,200.00	2,926.31	3,226.00	3,197.55	22.37	12.43	-6.35	1,845.47	3,251.88	2,735.19	2,712.09	23.10	118.419		
3,300.00	3,006.60	3,429.85	3,398.78	23.59	13.33	-6.31	1,818.03	3,234.65	2,664.35	2,640.40	23.96	111.219		
3,400.00	3,086.90	3,484.77	3,452.90	24.81	13.57	-6.32	1,810.63	3,228.93	2,592.94	2,568.36	24.59	105.468		
3,500.00	3,167.19	3,575.56	3,542.37	26.03	13.98	-6.33	1,798.45	3,219.56	2,521.66	2,496.41	25.25	99.857		
3,600.00	3,247.48	3,655.90	3,621.42	27.25	14.35	-6.34	1,787.19	3,210.62	2,449.61	2,423.70	25.91	94.554		
3,700.00	3,327.77	3,744.10	3,708.14	28.48	14.76	-6.34	1,774.52	3,200.71	2,377.41	2,350.85	26.56	89.507		
3,800.00	3,408.07	3,829.70	3,792.03	29.71	15.16	-6.29	1,760.63	3,190.94	2,304.36	2,277.15	27.21	84.690		
3,900.00	3,488.36	3,886.00	3,847.15	30.94	15.43	-6.23	1,750.92	3,184.77	2,231.29	2,203.43	27.86	80.084		
4,000.00	3,568.65	3,937.98	3,898.07	32.17	15.68	-6.17	1,741.97	3,179.47	2,158.67	2,130.14	28.53	75.675		
4,100.00	3,648.95	3,987.23	3,946.44	33.41	15.91	-6.11	1,733.82	3,174.90	2,086.80	2,057.60	29.20	71.460		
4,200.00	3,729.24	4,062.51	4,020.32	34.64	16.27	-5.99	1,720.96	3,168.38	2,015.14	1,985.27	29.86	67.475		
4,300.00	3,809.53	4,111.36	4,068.23	35.88	16.49	-5.89	1,712.29	3,164.49	1,943.67	1,913.11	30.56	63.596		
4,400.00	3,889.82	4,156.09	4,112.19	37.12	16.70	-5.79	1,704.62	3,161.47	1,873.15	1,841.87	31.28	59.879		
4,500.00	3,970.12	4,235.72	4,190.59	38.36	17.07	-5.62	1,691.62	3,156.34	1,803.14	1,771.19	31.95	56.440		
4,600.00	4,050.41	4,374.71	4,327.14	39.60	17.72	-5.39	1,669.15	3,143.46	1,731.48	1,699.05	32.44	53.382		
4,700.00	4,130.70	4,459.21	4,409.74	40.84	18.14	-5.21	1,654.08	3,134.02	1,658.07	1,625.03	33.03	50.194		
4,800.00	4,210.99	4,513.53	4,462.84	42.08	18.40	-5.08	1,644.34	3,128.00	1,584.65	1,550.91	33.74	46.962		
4,900.00	4,291.29	4,586.13	4,533.88	43.32	18.76	-4.90	1,631.60	3,120.15	1,511.57	1,477.19	34.38	43.964		
5,000.00	4,371.58	4,661.09	4,607.00	44.57	19.13	-4.63	1,617.26	3,111.93	1,437.82	1,402.82	35.00	41.080		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,713.89	4,658.57	45.81	19.40	-4.42	1,607.39	3,106.36	1,364.49	1,328.74	35.75	38.165		
5,200.00	4,532.16	4,778.52	4,721.85	47.05	19.71	-4.19	1,596.10	3,099.69	1,291.74	1,255.30	36.44	35.448		
5,300.00	4,612.46	4,852.70	4,794.55	48.30	20.07	-3.96	1,583.86	3,091.47	1,218.89	1,181.83	37.06	32.890		
5,400.00	4,692.75	4,931.93	4,871.96	49.54	20.47	-3.58	1,569.42	3,082.76	1,145.51	1,107.89	37.62	30.450		
5,500.00	4,773.04	4,996.40	4,934.83	50.79	20.79	-3.16	1,556.91	3,075.91	1,071.96	1,033.64	38.32	27.977		
5,600.00	4,853.34	5,059.42	4,996.29	52.03	21.11	-2.69	1,544.58	3,069.45	998.61	959.57	39.04	25.579		
5,700.00	4,933.63	5,121.64	5,057.02	53.28	21.42	-2.13	1,532.44	3,063.45	925.70	885.91	39.79	23.262		
5,800.00	5,013.92	5,184.42	5,118.38	54.53	21.74	-1.50	1,520.44	3,057.71	853.28	812.71	40.57	21.034		
5,900.00	5,094.21	5,247.20	5,179.82	55.77	22.04	-0.77	1,508.76	3,052.28	781.40	740.03	41.37	18.886		
6,000.00	5,174.51	5,310.57	5,241.91	57.02	22.35	0.11	1,497.08	3,047.33	710.19	667.97	42.22	16.822		
6,100.00	5,254.80	5,375.37	5,305.44	58.27	22.66	1.22	1,485.12	3,042.86	639.68	596.58	43.10	14.842		
6,200.00	5,335.09	5,448.38	5,377.01	59.52	23.02	2.81	1,471.51	3,038.18	569.60	525.71	43.90	12.976		
6,300.00	5,415.38	5,518.44	5,445.66	60.76	23.36	4.73	1,458.38	3,033.21	499.32	454.45	44.87	11.129		
6,400.00	5,495.68	5,583.46	5,509.44	62.01	23.67	7.04	1,446.45	3,029.09	430.04	383.84	46.20	9.308		
6,500.00	5,575.97	5,654.52	5,579.24	63.26	24.00	10.37	1,433.82	3,024.88	361.79	314.01	47.77	7.573		
6,600.00	5,656.26	5,725.80	5,649.32	64.51	24.34	15.01	1,421.57	3,020.49	294.50	244.39	50.11	5.877		
6,700.00	5,736.55	5,799.25	5,721.59	65.76	24.68	22.18	1,409.34	3,015.68	228.82	174.78	54.03	4.235		
6,800.00	5,816.85	5,874.03	5,794.98	67.01	25.04	34.46	1,396.55	3,009.28	165.51	103.58	61.92	2.673		
6,900.00	5,897.14	5,943.39	5,862.90	68.26	25.39	54.57	1,384.31	3,002.31	111.88	33.35	78.53	1.425 Level 3		
6,990.55	5,969.85	6,005.38	5,923.57	69.39	25.68	81.17	1,373.35	2,995.91	90.38	-3.11	93.49	0.967 Level 1, CC, ES, SF		
7,000.00	5,977.43	6,011.92	5,929.99	69.50	25.72	84.17	1,372.22	2,995.27	90.64	-3.04	93.68	0.968 Level 1		
7,100.00	6,057.72	6,082.63	5,999.43	70.75	26.05	112.73	1,360.54	2,988.89	119.67	37.48	82.19	1.456 Level 3		
7,200.00	6,138.02	6,156.01	6,071.73	72.00	26.40	131.16	1,349.30	2,983.28	174.05	103.15	70.89	2.455		
7,300.00	6,218.31	6,225.55	6,140.29	73.25	26.72	141.40	1,339.02	2,977.84	236.79	171.96	64.82	3.653		
7,400.00	6,298.60	6,294.95	6,208.64	74.50	27.04	147.86	1,328.63	2,971.91	303.32	241.60	61.72	4.915		
7,500.00	6,378.90	6,368.10	6,280.66	75.75	27.38	152.23	1,317.19	2,966.07	371.53	311.11	60.42	6.149		
7,600.00	6,459.19	6,449.70	6,361.22	77.00	27.76	155.55	1,305.38	2,960.71	439.22	378.94	60.28	7.286		
7,700.00	6,539.48	6,531.97	6,442.68	78.25	28.11	157.93	1,294.59	2,956.56	505.90	445.42	60.48	8.365		
7,800.00	6,619.77	6,618.60	6,528.66	79.50	28.46	159.82	1,284.57	2,953.43	571.31	510.31	61.00	9.365		
7,900.00	6,700.07	6,706.84	6,616.44	80.75	28.81	161.33	1,275.69	2,951.54	635.35	573.71	61.65	10.306		
8,000.00	6,780.36	6,794.03	6,703.28	82.00	29.13	162.53	1,268.06	2,950.74	698.18	635.89	62.30	11.208		
8,100.00	6,860.65	6,877.58	6,786.64	83.25	29.43	163.61	1,262.39	2,949.88	760.23	697.41	62.82	12.102		
8,200.00	6,940.94	6,971.21	6,880.17	84.50	29.75	164.84	1,258.72	2,948.10	821.59	758.05	63.54	12.931		
8,300.00	7,021.24	7,058.83	6,967.77	85.76	30.03	165.89	1,257.09	2,947.09	881.59	817.48	64.11	13.751		
8,400.00	7,101.53	7,145.56	7,054.49	87.01	30.29	166.84	1,256.26	2,946.15	941.28	876.60	64.68	14.553		
8,500.00	7,181.82	8,500.00	7,403.25	88.26	31.33	173.63	1,333.26	2,944.50	992.45	924.27	68.18	14.556		
8,605.60	7,266.61	8,154.82	7,767.68	89.58	30.51	-160.03	1,837.42	2,953.83	1,012.75	937.98	74.77	13.544		
8,650.00	7,302.60	8,179.98	7,770.55	90.13	30.50	-164.73	1,862.40	2,954.75	1,015.00	938.37	76.63	13.245		
8,700.00	7,343.78	8,193.91	7,771.84	90.72	30.50	-171.50	1,876.27	2,955.18	1,019.52	941.31	78.21	13.035		
8,750.00	7,385.32	8,202.46	7,772.57	91.28	30.51	-179.15	1,884.78	2,955.42	1,026.33	946.75	79.58	12.897		
8,800.00	7,426.92	8,205.47	7,772.81	91.81	30.51	172.61	1,887.78	2,955.50	1,035.43	954.73	80.69	12.832		
8,850.00	7,468.27	8,203.54	7,772.65	92.29	30.51	164.10	1,885.86	2,955.45	1,046.74	965.18	81.56	12.833		
8,900.00	7,509.04	8,197.25	7,772.13	92.72	30.50	155.62	1,879.59	2,955.27	1,060.08	977.87	82.21	12.895		
8,950.00	7,548.93	8,187.11	7,771.23	93.10	30.50	147.40	1,869.50	2,954.97	1,075.22	992.55	82.66	13.007		
9,000.00	7,587.63	8,173.80	7,769.93	93.43	30.50	139.59	1,856.25	2,954.55	1,091.84	1,008.89	82.96	13.162		
9,050.00	7,624.85	8,159.23	7,768.25	93.71	30.51	132.33	1,841.79	2,954.01	1,109.65	1,026.45	83.20	13.337		
9,100.00	7,660.30	8,143.09	7,766.03	93.93	30.51	125.60	1,825.82	2,953.31	1,128.34	1,044.95	83.39	13.531		
9,150.00	7,693.72	8,118.28	7,761.89	94.10	30.52	119.08	1,801.39	2,952.08	1,147.59	1,064.38	83.20	13.793		
9,200.00	7,724.85	8,080.79	7,754.28	94.23	30.54	112.62	1,764.73	2,950.39	1,166.78	1,084.32	82.46	14.150		
9,250.00	7,753.45	8,037.73	7,743.02	94.30	30.56	106.56	1,723.20	2,948.88	1,185.42	1,103.91	81.52	14.542		
9,300.00	7,779.31	8,007.57	7,733.20	94.34	30.59	101.65	1,694.70	2,948.01	1,203.36	1,122.09	81.27	14.807		
9,350.00	7,802.23	7,982.08	7,723.57	94.33	30.61	97.44	1,671.12	2,947.30	1,220.53	1,139.21	81.32	15.009		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,960.81	7,714.69	94.28	30.62	93.87	1,651.80	2,946.61	1,236.89	1,155.23	81.66	15.147		
9,450.00	7,838.57	7,933.04	7,702.04	94.20	30.65	90.54	1,627.10	2,945.57	1,252.26	1,170.47	81.79	15.311		
9,500.00	7,851.72	7,889.98	7,680.45	94.10	30.69	87.17	1,589.87	2,944.38	1,266.02	1,184.73	81.29	15.574		
9,550.00	7,861.37	7,853.51	7,660.58	93.96	30.72	84.49	1,559.30	2,943.76	1,278.00	1,196.79	81.21	15.737		
9,600.00	7,867.46	7,826.18	7,644.83	93.81	30.74	82.53	1,536.97	2,943.38	1,288.21	1,206.56	81.66	15.776		
9,650.00	7,869.94	7,799.02	7,628.48	93.64	30.77	80.98	1,515.29	2,942.93	1,296.70	1,214.49	82.21	15.774		
9,659.14	7,870.00	7,793.44	7,625.03	93.60	30.77	80.73	1,510.91	2,942.84	1,298.05	1,215.76	82.29	15.774		
9,700.00	7,870.00	7,769.12	7,609.62	93.46	30.80	80.05	1,492.09	2,942.44	1,304.27	1,221.58	82.69	15.772		
9,800.00	7,870.00	7,696.08	7,559.27	93.11	30.85	77.86	1,439.26	2,942.60	1,321.81	1,238.69	83.11	15.903		
9,900.00	7,870.00	7,661.00	7,532.72	92.77	30.87	76.71	1,416.35	2,943.24	1,343.88	1,258.63	85.25	15.764		
10,000.00	7,870.00	7,622.97	7,502.54	92.46	30.88	75.42	1,393.22	2,943.91	1,371.23	1,284.03	87.19	15.726		
10,100.00	7,870.00	7,593.28	7,478.17	92.16	30.89	74.38	1,376.27	2,944.42	1,403.76	1,314.40	89.36	15.710		
10,200.00	7,870.00	7,567.00	7,456.03	91.87	30.89	73.45	1,362.14	2,944.77	1,441.46	1,349.98	91.48	15.756		
10,300.00	7,870.00	7,549.30	7,440.81	91.60	30.89	72.82	1,353.09	2,944.88	1,484.17	1,390.46	93.71	15.838		
10,400.00	7,870.00	7,519.00	7,414.24	91.34	30.88	71.73	1,338.55	2,944.67	1,531.84	1,436.53	95.31	16.073		
10,500.00	7,870.00	7,519.00	7,414.24	91.11	30.88	71.73	1,338.55	2,944.67	1,583.56	1,485.95	97.62	16.222		
10,600.00	7,870.00	7,496.08	7,393.74	90.88	30.87	70.90	1,328.30	2,944.33	1,639.40	1,540.39	99.01	16.558		
10,700.00	7,870.00	7,472.00	7,371.90	90.67	30.87	70.03	1,318.16	2,944.00	1,698.82	1,598.62	100.20	16.954		
10,800.00	7,870.00	7,459.02	7,360.01	90.48	30.86	69.55	1,312.96	2,943.85	1,761.45	1,659.95	101.49	17.355		
10,900.00	7,870.00	7,441.19	7,343.55	90.31	30.85	68.90	1,306.11	2,943.71	1,827.02	1,724.52	102.50	17.824		
11,000.00	7,870.00	7,425.00	7,328.49	90.15	30.84	68.31	1,300.18	2,943.65	1,895.27	1,791.86	103.41	18.328		
11,100.00	7,870.00	7,425.00	7,328.49	90.00	30.84	68.31	1,300.18	2,943.65	1,966.09	1,861.61	104.49	18.816		
11,200.00	7,870.00	7,402.39	7,307.24	89.88	30.81	67.49	1,292.45	2,943.65	2,038.96	1,933.95	105.02	19.416		
11,300.00	7,870.00	7,378.00	7,284.04	89.77	30.79	66.60	1,284.92	2,943.75	2,114.16	2,008.72	105.44	20.051		
11,400.00	7,870.00	7,378.00	7,284.04	89.68	30.79	66.60	1,284.92	2,943.75	2,190.91	2,084.74	106.17	20.636		
11,500.00	7,870.00	7,378.00	7,284.04	89.60	30.79	66.60	1,284.92	2,943.75	2,269.47	2,162.68	106.79	21.251		
11,600.00	7,870.00	7,378.00	7,284.04	89.55	30.79	66.60	1,284.92	2,943.75	2,349.66	2,242.33	107.33	21.893		
11,700.00	7,870.00	7,359.83	7,266.60	89.52	30.77	65.93	1,279.84	2,943.87	2,431.06	2,323.51	107.56	22.603		
11,800.00	7,870.00	7,352.96	7,259.97	89.50	30.76	65.68	1,278.03	2,943.92	2,513.82	2,405.94	107.88	23.302		
11,900.00	7,870.00	7,331.00	7,238.68	89.51	30.73	64.88	1,272.66	2,944.08	2,597.91	2,489.92	107.99	24.058		
12,000.00	7,870.00	7,331.00	7,238.68	89.54	30.73	64.88	1,272.66	2,944.08	2,682.74	2,574.44	108.30	24.771		
12,100.00	7,870.00	7,331.00	7,238.68	89.59	30.73	64.88	1,272.66	2,944.08	2,768.58	2,660.01	108.57	25.501		
12,200.00	7,870.00	7,331.00	7,238.68	89.66	30.73	64.88	1,272.66	2,944.08	2,855.34	2,746.55	108.80	26.245		
12,300.00	7,870.00	7,331.00	7,238.68	89.77	30.73	64.88	1,272.66	2,944.08	2,942.95	2,833.96	108.99	27.002		
12,400.00	7,870.00	7,331.00	7,238.68	89.89	30.73	64.88	1,272.66	2,944.08	3,031.32	2,922.17	109.16	27.771		
12,500.00	7,870.00	7,331.00	7,238.68	90.05	30.73	64.88	1,272.66	2,944.08	3,120.40	3,011.10	109.29	28.550		
12,600.00	7,870.00	7,331.00	7,238.68	90.24	30.73	64.88	1,272.66	2,944.08	3,210.11	3,100.70	109.41	29.340		
12,700.00	7,870.00	7,311.27	7,219.41	90.46	30.70	64.17	1,268.44	2,944.25	3,300.06	3,190.69	109.37	30.174		
12,800.00	7,870.00	7,308.17	7,216.37	90.71	30.69	64.06	1,267.84	2,944.28	3,390.79	3,281.35	109.44	30.984		
12,900.00	7,870.00	7,305.24	7,213.49	90.99	30.69	63.95	1,267.29	2,944.31	3,482.01	3,372.52	109.49	31.801		
13,000.00	7,870.00	7,284.00	7,192.55	91.32	30.65	63.19	1,263.73	2,944.58	3,574.00	3,464.58	109.42	32.662		
13,100.00	7,870.00	7,284.00	7,192.55	91.68	30.65	63.19	1,263.73	2,944.58	3,666.02	3,556.53	109.48	33.485		
13,200.00	7,870.00	7,284.00	7,192.55	92.08	30.65	63.19	1,263.73	2,944.58	3,758.44	3,648.91	109.53	34.315		
13,300.00	7,870.00	7,284.00	7,192.55	92.52	30.65	63.19	1,263.73	2,944.58	3,851.24	3,741.67	109.57	35.150		
13,400.00	7,870.00	7,284.00	7,192.55	93.00	30.65	63.19	1,263.73	2,944.58	3,944.39	3,834.79	109.60	35.990		
13,500.00	7,870.00	7,284.00	7,192.55	93.53	30.65	63.19	1,263.73	2,944.58	4,037.87	3,928.25	109.62	36.835		
13,600.00	7,870.00	7,284.00	7,192.55	94.10	30.65	63.19	1,263.73	2,944.58	4,131.65	4,022.01	109.64	37.684		
13,700.00	7,870.00	7,284.00	7,192.55	94.72	30.65	63.19	1,263.73	2,944.58	4,225.72	4,116.07	109.65	38.538		
13,800.00	7,870.00	7,284.00	7,192.55	95.38	30.65	63.19	1,263.73	2,944.58	4,320.06	4,210.40	109.66	39.395		
13,900.00	7,870.00	7,284.00	7,192.55	96.09	30.65	63.19	1,263.73	2,944.58	4,414.64	4,304.98	109.66	40.256		
14,000.00	7,870.00	7,284.00	7,192.55	96.84	30.65	63.19	1,263.73	2,944.58	4,509.46	4,399.80	109.66	41.121		
14,100.00	7,870.00	7,284.00	7,192.55	97.64	30.65	63.19	1,263.73	2,944.58	4,604.50	4,494.84	109.66	41.988		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,284.00	7,192.55	98.48	30.65	63.19	1,263.73	2,944.58	4,699.74	4,590.08	109.66	42.858		
14,300.00	7,870.00	7,284.00	7,192.55	99.37	30.65	63.19	1,263.73	2,944.58	4,795.18	4,685.53	109.65	43.731		
14,400.00	7,870.00	7,284.00	7,192.55	100.30	30.65	63.19	1,263.73	2,944.58	4,890.80	4,781.16	109.64	44.607		
14,500.00	7,870.00	7,284.00	7,192.55	101.26	30.65	63.19	1,263.73	2,944.58	4,986.59	4,876.96	109.63	45.484		
14,600.00	7,870.00	7,284.00	7,192.55	102.27	30.65	63.19	1,263.73	2,944.58	5,082.55	4,972.92	109.62	46.364		
14,700.00	7,870.00	7,284.00	7,192.55	103.31	30.65	63.19	1,263.73	2,944.58	5,178.65	5,069.04	109.61	47.246		
14,800.00	7,870.00	7,284.00	7,192.55	104.38	30.65	63.19	1,263.73	2,944.58	5,274.90	5,165.31	109.60	48.130		
14,900.00	7,870.00	7,284.00	7,192.55	105.49	30.65	63.19	1,263.73	2,944.58	5,371.29	5,261.71	109.58	49.016		
15,000.00	7,870.00	7,284.00	7,192.55	106.63	30.65	63.19	1,263.73	2,944.58	5,467.81	5,358.24	109.57	49.903		
15,100.00	7,870.00	7,284.00	7,192.55	107.80	30.65	63.19	1,263.73	2,944.58	5,564.45	5,454.90	109.56	50.791		
15,200.00	7,870.00	7,284.00	7,192.55	109.00	30.65	63.19	1,263.73	2,944.58	5,661.21	5,551.67	109.54	51.681		
15,300.00	7,870.00	7,284.00	7,192.55	110.22	30.65	63.19	1,263.73	2,944.58	5,758.08	5,648.55	109.53	52.573		
15,400.00	7,870.00	7,284.00	7,192.55	111.47	30.65	63.19	1,263.73	2,944.58	5,855.05	5,745.54	109.51	53.465		
15,500.00	7,870.00	7,284.00	7,192.55	112.74	30.65	63.19	1,263.73	2,944.58	5,952.13	5,842.63	109.50	54.359		
15,600.00	7,870.00	7,284.00	7,192.55	114.03	30.65	63.19	1,263.73	2,944.58	6,049.30	5,939.82	109.48	55.254		
15,700.00	7,870.00	7,284.00	7,192.55	115.34	30.65	63.19	1,263.73	2,944.58	6,146.56	6,037.09	109.47	56.150		
15,800.00	7,870.00	7,284.00	7,192.55	116.68	30.65	63.19	1,263.73	2,944.58	6,243.91	6,134.45	109.45	57.046		
15,900.00	7,870.00	7,284.00	7,192.55	118.02	30.65	63.19	1,263.73	2,944.58	6,341.33	6,231.90	109.44	57.944		
16,000.00	7,870.00	7,284.00	7,192.55	119.39	30.65	63.19	1,263.73	2,944.58	6,438.84	6,329.42	109.43	58.842		
16,100.00	7,870.00	7,284.00	7,192.55	120.77	30.65	63.19	1,263.73	2,944.58	6,536.43	6,427.01	109.41	59.741		
16,200.00	7,870.00	7,284.00	7,192.55	122.17	30.65	63.19	1,263.73	2,944.58	6,634.08	6,524.68	109.40	60.641		
16,300.00	7,870.00	7,284.00	7,192.55	123.58	30.65	63.19	1,263.73	2,944.58	6,731.81	6,622.42	109.39	61.541		
16,400.00	7,870.00	7,284.00	7,192.55	125.00	30.65	63.19	1,263.73	2,944.58	6,829.60	6,720.22	109.38	62.442		
16,500.00	7,870.00	7,284.00	7,192.55	126.43	30.65	63.19	1,263.73	2,944.58	6,927.45	6,818.09	109.36	63.343		
16,600.00	7,870.00	7,284.00	7,192.55	127.88	30.65	63.19	1,263.73	2,944.58	7,025.36	6,916.01	109.35	64.244		
16,700.00	7,870.00	7,284.00	7,192.55	129.34	30.65	63.19	1,263.73	2,944.58	7,123.34	7,013.99	109.34	65.146		
16,800.00	7,870.00	7,284.00	7,192.55	130.81	30.65	63.19	1,263.73	2,944.58	7,221.36	7,112.03	109.33	66.049		
16,900.00	7,870.00	7,284.00	7,192.55	132.28	30.65	63.19	1,263.73	2,944.58	7,319.44	7,210.12	109.32	66.951		
17,000.00	7,870.00	7,284.00	7,192.55	133.77	30.65	63.19	1,263.73	2,944.58	7,417.58	7,308.26	109.32	67.854		
17,100.00	7,870.00	7,284.00	7,192.55	135.27	30.65	63.19	1,263.73	2,944.58	7,515.76	7,406.45	109.31	68.757		
17,200.00	7,870.00	7,284.00	7,192.55	136.77	30.65	63.19	1,263.73	2,944.58	7,613.99	7,504.68	109.30	69.661		
17,300.00	7,870.00	7,284.00	7,192.55	138.28	30.65	63.19	1,263.73	2,944.58	7,712.26	7,602.97	109.29	70.564		
17,400.00	7,870.00	7,284.00	7,192.55	139.80	30.65	63.19	1,263.73	2,944.58	7,810.58	7,701.29	109.29	71.467		
17,500.00	7,870.00	7,284.00	7,192.55	141.33	30.65	63.19	1,263.73	2,944.58	7,908.94	7,799.65	109.28	72.371		
17,600.00	7,870.00	7,240.83	7,149.69	142.86	30.55	61.65	1,258.68	2,945.16	8,005.82	7,896.63	109.19	73.321		
17,700.00	7,870.00	7,240.19	7,149.05	144.40	30.55	61.63	1,258.63	2,945.17	8,104.22	7,995.03	109.18	74.225		
17,800.00	7,870.00	7,239.56	7,148.43	145.95	30.54	61.61	1,258.57	2,945.17	8,202.65	8,093.47	109.18	75.129		
17,900.00	7,870.00	7,238.95	7,147.82	147.50	30.54	61.58	1,258.52	2,945.18	8,301.12	8,191.94	109.18	76.033		
18,000.00	7,870.00	7,238.36	7,147.23	149.06	30.54	61.56	1,258.48	2,945.19	8,399.63	8,290.45	109.18	76.937		
18,100.00	7,870.00	7,237.77	7,146.65	150.63	30.54	61.54	1,258.43	2,945.19	8,498.17	8,388.99	109.17	77.841		
18,200.00	7,870.00	7,237.20	7,146.08	152.20	30.54	61.52	1,258.38	2,945.20	8,596.74	8,487.57	109.17	78.745		
18,300.00	7,870.00	7,236.65	7,145.52	153.77	30.54	61.50	1,258.34	2,945.21	8,695.35	8,586.17	109.17	79.648		
18,400.00	7,870.00	7,236.10	7,144.97	155.35	30.54	61.48	1,258.30	2,945.21	8,793.98	8,684.81	109.17	80.551		
18,500.00	7,870.00	7,235.56	7,144.44	156.93	30.53	61.46	1,258.26	2,945.22	8,892.65	8,783.48	109.17	81.455		
18,600.00	7,870.00	7,235.04	7,143.92	158.52	30.53	61.45	1,258.22	2,945.23	8,991.35	8,882.17	109.17	82.357		
18,700.00	7,870.00	7,234.53	7,143.41	160.11	30.53	61.43	1,258.18	2,945.23	9,090.07	8,980.89	109.18	83.260		
18,800.00	7,870.00	7,234.02	7,142.90	161.71	30.53	61.41	1,258.14	2,945.24	9,188.82	9,079.64	109.18	84.162		
18,900.00	7,870.00	7,233.53	7,142.41	163.31	30.53	61.39	1,258.10	2,945.25	9,287.60	9,178.42	109.18	85.065		
19,000.00	7,870.00	7,233.05	7,141.93	164.91	30.53	61.38	1,258.07	2,945.25	9,386.40	9,277.21	109.19	85.966		
19,100.00	7,870.00	7,189.00	7,097.93	166.52	30.42	59.85	1,256.34	2,945.72	9,486.76	9,377.65	109.12	86.942		
19,200.00	7,870.00	7,189.00	7,097.93	168.13	30.42	59.85	1,256.34	2,945.72	9,585.58	9,476.46	109.12	87.842		
19,300.00	7,870.00	7,189.00	7,097.93	169.75	30.42	59.85	1,256.34	2,945.72	9,684.42	9,575.29	109.13	88.742		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	7,189.00	7,097.93	171.10	30.42	59.85	1,256.34	2,945.72	9,766.98	9,657.85	109.14	89.493	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	175.50	-4,018.10	316.45	4,030.57					
100.00	100.00	53.36	53.36	0.13	0.09	175.49	-4,018.29	316.70	4,030.87	4,030.65	0.22	N/A		
200.00	200.00	120.00	119.99	0.49	0.20	175.48	-4,019.06	317.69	4,032.12	4,031.44	0.69	5,869.539		
300.00	300.00	295.16	295.11	0.85	0.82	175.44	-4,020.42	320.56	4,033.19	4,031.52	1.67	2,413.746		
400.00	400.00	410.64	410.59	1.21	1.23	175.43	-4,019.74	321.57	4,032.66	4,030.22	2.44	1,654.433		
500.00	500.00	513.50	513.41	1.57	1.60	175.39	-4,018.94	323.88	4,032.07	4,028.90	3.16	1,274.332		
600.00	600.00	801.73	800.10	1.93	2.68	175.01	-4,008.48	349.87	4,029.46	4,024.85	4.61	874.752		
700.00	699.98	990.64	985.96	2.28	3.48	110.89	-3,993.63	380.14	4,023.57	4,017.82	5.75	700.090		
800.00	799.84	1,085.65	1,078.84	2.64	3.91	110.80	-3,984.77	398.05	4,017.82	4,011.30	6.52	615.872		
900.00	899.45	1,166.67	1,157.95	3.00	4.29	110.73	-3,977.59	414.04	4,013.86	4,006.60	7.26	552.869		
1,000.00	998.70	1,305.99	1,294.31	3.37	4.95	110.63	-3,964.75	439.47	4,010.63	4,002.36	8.27	484.713		
1,100.00	1,097.47	1,380.88	1,367.69	3.76	5.30	110.62	-3,957.92	452.81	4,008.74	3,999.73	9.01	444.800		
1,200.00	1,195.62	1,520.23	1,503.79	4.18	5.98	110.59	-3,944.75	479.64	4,007.93	3,997.84	10.09	397.275		
1,300.00	1,293.06	1,646.85	1,626.98	4.63	6.62	110.59	-3,931.43	505.75	4,007.35	3,996.20	11.15	359.292		
1,329.01	1,321.17	1,681.99	1,661.07	4.77	6.80	110.60	-3,927.58	513.33	4,007.32	3,995.85	11.47	349.487		
1,400.00	1,389.64	1,763.42	1,740.25	5.11	7.22	110.63	-3,918.54	530.07	4,007.50	3,995.29	12.21	328.243		
1,500.00	1,485.27	1,852.51	1,827.08	5.63	7.68	110.70	-3,908.76	547.44	4,008.85	3,995.69	13.16	304.647		
1,600.00	1,579.82	1,931.21	1,903.81	6.20	8.08	110.76	-3,900.43	562.84	4,011.86	3,997.76	14.10	284.516		
1,700.00	1,673.17	2,030.72	2,000.82	6.83	8.58	110.86	-3,890.17	582.46	4,016.41	4,001.22	15.19	264.410		
1,800.00	1,765.21	2,135.73	2,103.03	7.51	9.13	110.99	-3,879.16	603.85	4,022.15	4,005.79	16.36	245.816		
1,900.00	1,855.84	2,237.81	2,202.07	8.24	9.67	111.12	-3,868.24	626.02	4,029.09	4,011.51	17.59	229.064		
2,000.00	1,944.94	2,352.58	2,313.41	9.05	10.29	111.32	-3,855.75	650.93	4,037.21	4,018.28	18.93	213.216		
2,100.00	2,032.39	2,471.09	2,428.42	9.91	10.92	111.56	-3,842.09	676.06	4,046.03	4,025.69	20.35	198.833		
2,200.00	2,118.11	2,548.59	2,503.64	10.85	11.34	111.68	-3,833.11	692.42	4,056.29	4,034.67	21.61	187.671		
2,300.00	2,201.97	2,720.81	2,670.48	11.85	12.27	112.20	-3,812.62	729.81	4,067.98	4,044.56	23.42	173.719		
2,400.00	2,283.88	2,787.00	2,734.74	12.93	12.63	112.30	-3,803.98	743.16	4,079.90	4,055.17	24.73	164.991		
2,429.47	2,307.63	2,809.49	2,756.58	13.26	12.74	112.34	-3,801.13	747.69	4,083.82	4,058.68	25.14	162.450		
2,500.00	2,364.26	2,838.74	2,785.00	14.06	12.90	112.50	-3,797.65	753.65	4,093.92	4,067.91	26.01	157.410		
2,600.00	2,444.56	2,881.00	2,826.09	15.22	13.12	112.71	-3,793.06	762.43	4,109.48	4,082.23	27.25	150.811		
2,700.00	2,524.85	3,015.63	2,956.80	16.39	13.85	113.39	-3,778.31	791.07	4,125.21	4,096.23	28.97	142.371		
2,800.00	2,605.14	3,088.60	3,027.51	17.57	14.25	113.75	-3,770.12	807.13	4,141.08	4,110.69	30.39	136.260		
2,900.00	2,685.43	3,137.03	3,074.46	18.76	14.51	113.98	-3,765.13	817.92	4,158.06	4,126.38	31.68	131.258		
3,000.00	2,765.73	3,290.10	3,222.69	19.96	15.36	114.71	-3,749.36	852.71	4,175.45	4,141.92	33.53	124.530		
3,100.00	2,846.02	3,377.29	3,307.05	21.16	15.84	115.12	-3,739.63	872.41	4,192.17	4,157.15	35.03	119.690		
3,200.00	2,926.31	3,470.28	3,397.09	22.37	16.36	115.56	-3,729.34	893.29	4,209.27	4,172.72	36.55	115.179		
3,300.00	3,006.60	3,567.92	3,491.65	23.59	16.89	116.02	-3,718.31	914.95	4,226.41	4,188.33	38.08	110.981		
3,400.00	3,086.90	3,639.00	3,560.58	24.81	17.28	116.35	-3,710.52	930.48	4,244.15	4,204.68	39.47	107.528		
3,500.00	3,167.19	3,720.51	3,639.70	26.03	17.73	116.74	-3,701.88	948.07	4,262.50	4,221.60	40.90	104.212		
3,600.00	3,247.48	3,786.80	3,704.11	27.25	18.08	117.05	-3,695.07	962.14	4,281.46	4,239.22	42.24	101.356		
3,700.00	3,327.77	3,850.70	3,766.34	28.48	18.42	117.36	-3,688.91	975.29	4,301.31	4,257.76	43.55	98.758		
3,800.00	3,408.07	3,922.00	3,835.99	29.71	18.78	117.71	-3,682.43	989.10	4,322.01	4,277.13	44.89	96.289		
3,900.00	3,488.36	3,978.43	3,891.30	30.94	19.05	118.00	-3,677.59	999.20	4,343.57	4,297.46	46.11	94.192		
4,000.00	3,568.65	4,016.00	3,928.22	32.17	19.24	118.19	-3,674.52	1,005.46	4,366.13	4,318.90	47.23	92.438		
4,100.00	3,648.95	4,078.80	3,990.09	33.41	19.52	118.53	-3,669.87	1,015.13	4,389.73	4,341.29	48.45	90.611		
4,200.00	3,729.24	4,125.34	4,036.08	34.64	19.72	118.78	-3,666.93	1,021.66	4,414.63	4,365.07	49.56	89.076		
4,300.00	3,809.53	4,176.42	4,086.68	35.88	19.93	119.07	-3,664.05	1,028.01	4,440.66	4,390.00	50.67	87.641		
4,400.00	3,889.82	4,240.16	4,149.99	37.12	20.18	119.44	-3,660.81	1,034.68	4,467.74	4,415.93	51.81	86.240		
4,500.00	3,970.12	4,299.00	4,208.54	38.36	20.41	119.79	-3,657.79	1,039.62	4,495.47	4,442.58	52.89	84.990		
4,600.00	4,050.41	4,356.67	4,266.01	39.60	20.60	120.15	-3,655.03	1,043.44	4,524.15	4,470.21	53.94	83.869		
4,700.00	4,130.70	4,394.00	4,303.26	40.84	20.73	120.38	-3,653.53	1,045.43	4,554.05	4,499.16	54.89	82.962		
4,800.00	4,210.99	4,434.26	4,343.46	42.08	20.86	120.64	-3,652.24	1,047.17	4,585.23	4,529.40	55.83	82.133		
4,900.00	4,291.29	4,488.00	4,397.16	43.32	21.02	120.98	-3,651.22	1,048.89	4,617.86	4,561.06	56.80	81.307		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,371.58	4,516.26	4,425.42	44.57	21.10	121.17	-3,650.90	1,049.57	4,651.55	4,593.91	57.64	80.700		
5,100.00	4,451.87	4,584.94	4,494.08	45.81	21.30	121.61	-3,650.22	1,050.93	4,686.15	4,627.52	58.63	79.931		
5,200.00	4,532.16	4,678.59	4,587.71	47.05	21.57	122.21	-3,649.26	1,052.65	4,721.21	4,661.51	59.70	79.077		
5,300.00	4,612.46	4,757.59	4,666.68	48.30	21.80	122.71	-3,648.42	1,054.29	4,756.64	4,695.92	60.72	78.343		
5,400.00	4,692.75	4,842.56	4,751.62	49.54	22.05	123.23	-3,647.55	1,056.28	4,792.49	4,730.75	61.75	77.615		
5,500.00	4,773.04	4,934.46	4,843.49	50.79	22.33	123.79	-3,646.55	1,058.68	4,828.66	4,765.86	62.80	76.888		
5,600.00	4,853.34	5,016.48	4,925.48	52.03	22.58	124.29	-3,645.54	1,060.85	4,865.11	4,801.30	63.81	76.247		
5,700.00	4,933.63	5,101.93	5,010.89	53.28	22.84	124.80	-3,644.48	1,062.98	4,901.99	4,837.17	64.82	75.628		
5,800.00	5,013.92	5,188.45	5,097.39	54.53	23.10	125.31	-3,643.19	1,064.79	4,939.13	4,873.32	65.82	75.043		
5,900.00	5,094.21	5,264.50	5,173.41	55.77	23.33	125.76	-3,641.91	1,065.82	4,976.68	4,909.92	66.76	74.549		
6,000.00	5,174.51	5,330.94	5,239.84	57.02	23.52	126.16	-3,640.84	1,066.32	5,014.80	4,947.16	67.64	74.138		
6,100.00	5,254.80	5,387.12	5,296.01	58.27	23.68	126.49	-3,640.07	1,066.44	5,053.63	4,985.16	68.46	73.814		
6,200.00	5,335.09	5,442.42	5,351.32	59.52	23.83	126.82	-3,639.52	1,066.24	5,093.25	5,023.99	69.27	73.529		
6,300.00	5,415.38	5,501.27	5,410.17	60.76	23.99	127.17	-3,639.15	1,065.84	5,133.62	5,063.56	70.07	73.265		
6,400.00	5,495.68	5,574.23	5,483.12	62.01	24.18	127.60	-3,638.93	1,065.25	5,174.64	5,103.73	70.92	72.968		
6,500.00	5,575.97	5,655.10	5,563.99	63.26	24.40	128.07	-3,638.65	1,064.58	5,216.02	5,144.23	71.79	72.659		
6,600.00	5,656.26	5,733.97	5,642.85	64.51	24.61	128.52	-3,638.35	1,063.73	5,257.78	5,185.14	72.64	72.380		
6,700.00	5,736.55	5,821.85	5,730.72	65.76	24.84	129.02	-3,637.89	1,062.65	5,299.83	5,226.31	73.52	72.083		
6,800.00	5,816.85	5,889.67	5,798.54	67.01	25.02	129.40	-3,637.54	1,061.71	5,342.28	5,267.96	74.32	71.886		
6,900.00	5,897.14	5,975.77	5,884.63	68.26	25.26	129.89	-3,637.11	1,060.44	5,385.12	5,309.94	75.18	71.632		
7,000.00	5,977.43	6,094.20	6,003.04	69.50	25.58	130.54	-3,636.15	1,059.01	5,427.99	5,351.82	76.18	71.255		
7,100.00	6,057.72	6,178.78	6,087.62	70.75	25.83	130.99	-3,635.25	1,058.50	5,470.82	5,393.78	77.04	71.014		
7,200.00	6,138.02	6,282.65	6,191.48	72.00	26.13	131.53	-3,634.03	1,058.26	5,513.77	5,435.78	77.99	70.701		
7,300.00	6,218.31	6,379.36	6,288.18	73.25	26.42	132.03	-3,632.46	1,057.94	5,556.72	5,477.82	78.90	70.430		
7,400.00	6,298.60	6,452.37	6,361.17	74.50	26.64	132.41	-3,631.09	1,057.37	5,599.90	5,520.21	79.69	70.273		
7,500.00	6,378.90	6,528.14	6,436.92	75.75	26.86	132.80	-3,629.63	1,056.48	5,643.47	5,562.99	80.48	70.123		
7,600.00	6,459.19	6,612.28	6,521.04	77.00	27.11	133.23	-3,628.03	1,055.47	5,687.37	5,606.06	81.30	69.952		
7,700.00	6,539.48	6,680.69	6,589.44	78.25	27.31	133.57	-3,626.74	1,054.86	5,731.49	5,649.43	82.05	69.850		
7,800.00	6,619.77	6,721.23	6,629.97	79.50	27.43	133.77	-3,626.24	1,054.49	5,776.33	5,693.66	82.67	69.874		
7,900.00	6,700.07	6,769.02	6,677.76	80.75	27.57	134.01	-3,626.00	1,054.02	5,821.98	5,738.68	83.31	69.886		
8,000.00	6,780.36	6,863.76	6,772.49	82.00	27.84	134.46	-3,625.55	1,053.03	5,867.97	5,783.81	84.16	69.725		
8,100.00	6,860.65	6,947.12	6,855.85	83.25	28.08	134.86	-3,625.14	1,052.39	5,914.11	5,829.15	84.96	69.612		
8,200.00	6,940.94	7,050.72	6,959.44	84.50	28.39	135.34	-3,624.54	1,052.13	5,960.24	5,874.37	85.86	69.415		
8,300.00	7,021.24	7,113.45	7,022.18	85.76	28.59	135.62	-3,624.25	1,052.13	6,006.62	5,920.05	86.57	69.384		
8,400.00	7,101.53	7,212.67	7,121.40	87.01	28.89	136.07	-3,623.90	1,052.17	6,053.30	5,965.84	87.46	69.214		
8,500.00	7,181.82	7,293.32	7,202.04	88.26	29.14	136.42	-3,623.35	1,052.18	6,099.97	6,011.72	88.24	69.126		
8,605.60	7,266.61	7,390.38	7,299.10	89.58	29.45	136.85	-3,622.65	1,052.14	6,149.48	6,060.34	89.13	68.993		
8,650.00	7,302.60	7,436.28	7,345.00	90.13	29.59	130.32	-3,622.28	1,052.26	6,168.89	6,079.35	89.54	68.898		
8,700.00	7,343.78	7,465.45	7,374.17	90.72	29.68	122.56	-3,622.05	1,052.30	6,187.42	6,097.53	89.89	68.834		
8,750.00	7,385.32	7,501.11	7,409.83	91.28	29.79	114.68	-3,621.79	1,052.32	6,202.30	6,112.01	90.29	68.696		
8,800.00	7,426.92	7,547.31	7,456.03	91.81	29.94	106.97	-3,621.46	1,052.34	6,213.42	6,122.68	90.74	68.471		
8,850.00	7,468.27	7,597.33	7,506.05	92.29	30.10	99.69	-3,621.09	1,052.47	6,220.66	6,129.43	91.23	68.190		
8,900.00	7,509.04	7,649.85	7,558.56	92.72	30.26	93.10	-3,620.65	1,052.69	6,223.97	6,132.25	91.72	67.860		
8,950.00	7,548.93	7,701.82	7,610.53	93.10	30.43	87.33	-3,620.12	1,052.95	6,223.33	6,131.13	92.20	67.497		
9,000.00	7,587.63	7,731.30	7,640.01	93.43	30.52	82.33	-3,619.82	1,053.11	6,218.84	6,126.28	92.56	67.189		
9,050.00	7,624.85	7,760.76	7,669.47	93.71	30.62	78.22	-3,619.57	1,053.28	6,210.61	6,117.71	92.90	66.852		
9,100.00	7,660.30	7,788.87	7,697.57	93.93	30.71	74.97	-3,619.38	1,053.46	6,198.70	6,105.48	93.22	66.493		
9,150.00	7,693.72	7,817.23	7,725.93	94.10	30.80	72.51	-3,619.23	1,053.65	6,183.22	6,089.69	93.53	66.108		
9,200.00	7,724.85	7,844.07	7,752.77	94.23	30.89	70.81	-3,619.10	1,053.82	6,164.26	6,070.45	93.81	65.707		
9,250.00	7,753.45	7,868.74	7,777.44	94.30	30.96	69.81	-3,619.00	1,053.97	6,141.99	6,047.92	94.07	65.292		
9,300.00	7,779.31	7,891.68	7,800.38	94.34	31.04	69.49	-3,618.92	1,054.12	6,116.55	6,022.25	94.30	64.864		
9,350.00	7,802.23	7,915.43	7,824.13	94.33	31.11	69.90	-3,618.85	1,054.27	6,088.13	5,993.61	94.52	64.414		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,935.95	7,844.65	94.28	31.18	71.00	-3,618.79	1,054.42	6,056.93	5,962.23	94.70	63.958		
9,450.00	7,838.57	7,953.07	7,861.77	94.20	31.23	72.85	-3,618.74	1,054.55	6,023.19	5,928.33	94.86	63.498		
9,500.00	7,851.72	7,966.67	7,875.37	94.10	31.28	75.53	-3,618.70	1,054.66	5,987.14	5,892.16	94.98	63.035		
9,550.00	7,861.37	7,976.63	7,885.33	93.96	31.31	79.12	-3,618.68	1,054.74	5,949.05	5,853.97	95.08	62.571		
9,600.00	7,867.46	7,982.94	7,891.63	93.81	31.33	83.75	-3,618.66	1,054.79	5,909.18	5,814.03	95.15	62.105		
9,650.00	7,869.94	7,985.58	7,894.28	93.64	31.34	89.53	-3,618.66	1,054.81	5,867.82	5,772.62	95.19	61.640		
9,659.14	7,870.00	7,985.62	7,894.32	93.60	31.34	90.72	-3,618.65	1,054.81	5,860.12	5,764.92	95.20	61.555		
9,700.00	7,870.00	7,985.50	7,894.20	93.46	31.34	90.72	-3,618.66	1,054.81	5,825.66	5,730.43	95.23	61.177		
9,800.00	7,870.00	7,985.20	7,893.90	93.11	31.33	90.71	-3,618.66	1,054.81	5,741.66	5,646.37	95.29	60.254		
9,900.00	7,870.00	7,984.90	7,893.60	92.77	31.33	90.70	-3,618.66	1,054.80	5,658.19	5,562.83	95.36	59.334		
10,000.00	7,870.00	7,984.60	7,893.30	92.46	31.33	90.70	-3,618.66	1,054.80	5,575.26	5,479.82	95.44	58.416		
10,100.00	7,870.00	7,984.31	7,893.01	92.16	31.33	90.69	-3,618.66	1,054.80	5,492.90	5,397.37	95.53	57.501		
10,200.00	7,870.00	7,984.02	7,892.72	91.87	31.33	90.69	-3,618.66	1,054.80	5,411.14	5,315.51	95.62	56.589		
10,300.00	7,870.00	7,983.73	7,892.43	91.60	31.33	90.68	-3,618.66	1,054.79	5,329.99	5,234.27	95.73	55.680		
10,400.00	7,870.00	7,983.44	7,892.14	91.34	31.33	90.68	-3,618.66	1,054.79	5,249.50	5,153.66	95.84	54.774		
10,500.00	7,870.00	7,983.16	7,891.85	91.11	31.33	90.67	-3,618.66	1,054.79	5,169.69	5,073.73	95.96	53.873		
10,600.00	7,870.00	7,982.87	7,891.57	90.88	31.33	90.67	-3,618.66	1,054.79	5,090.59	4,994.50	96.09	52.975		
10,700.00	7,870.00	7,982.59	7,891.29	90.67	31.33	90.66	-3,618.66	1,054.79	5,012.24	4,916.00	96.24	52.082		
10,800.00	7,870.00	7,982.31	7,891.01	90.48	31.33	90.66	-3,618.66	1,054.78	4,934.67	4,838.28	96.39	51.193		
10,900.00	7,870.00	7,982.03	7,890.73	90.31	31.32	90.65	-3,618.66	1,054.78	4,857.92	4,761.36	96.56	50.309		
11,000.00	7,870.00	7,981.76	7,890.46	90.15	31.32	90.65	-3,618.66	1,054.78	4,782.03	4,685.29	96.74	49.431		
11,100.00	7,870.00	7,981.49	7,890.19	90.00	31.32	90.64	-3,618.67	1,054.78	4,707.04	4,610.11	96.94	48.558		
11,200.00	7,870.00	7,981.22	7,889.92	89.88	31.32	90.64	-3,618.67	1,054.77	4,633.00	4,535.85	97.14	47.692		
11,300.00	7,870.00	7,980.95	7,889.65	89.77	31.32	90.63	-3,618.67	1,054.77	4,559.94	4,462.58	97.37	46.832		
11,400.00	7,870.00	7,980.68	7,889.37	89.68	31.32	90.63	-3,618.67	1,054.77	4,487.93	4,390.32	97.61	45.979		
11,500.00	7,870.00	7,980.40	7,889.10	89.60	31.32	90.62	-3,618.67	1,054.77	4,417.01	4,319.14	97.86	45.135		
11,600.00	7,870.00	7,980.13	7,888.83	89.55	31.32	90.62	-3,618.67	1,054.76	4,347.22	4,249.09	98.14	44.298		
11,700.00	7,870.00	7,979.86	7,888.55	89.52	31.32	90.61	-3,618.67	1,054.76	4,278.64	4,180.22	98.43	43.471		
11,800.00	7,870.00	7,979.58	7,888.28	89.50	31.32	90.61	-3,618.67	1,054.76	4,211.32	4,112.58	98.74	42.653		
11,900.00	7,870.00	7,979.31	7,888.01	89.51	31.32	90.60	-3,618.67	1,054.76	4,145.32	4,046.25	99.06	41.845		
12,000.00	7,870.00	7,979.03	7,887.73	89.54	31.31	90.60	-3,618.67	1,054.76	4,080.69	3,981.28	99.41	41.049		
12,100.00	7,870.00	7,978.76	7,887.46	89.59	31.31	90.59	-3,618.67	1,054.75	4,017.52	3,917.74	99.78	40.264		
12,200.00	7,870.00	7,978.48	7,887.18	89.66	31.31	90.59	-3,618.67	1,054.75	3,955.87	3,855.70	100.17	39.492		
12,300.00	7,870.00	7,978.21	7,886.91	89.77	31.31	90.58	-3,618.67	1,054.75	3,895.81	3,795.23	100.58	38.734		
12,400.00	7,870.00	7,977.93	7,886.63	89.89	31.31	90.58	-3,618.67	1,054.75	3,837.42	3,736.41	101.01	37.991		
12,500.00	7,870.00	7,977.66	7,886.35	90.05	31.31	90.57	-3,618.68	1,054.74	3,780.76	3,679.30	101.46	37.263		
12,600.00	7,870.00	7,977.38	7,886.08	90.24	31.31	90.57	-3,618.68	1,054.74	3,725.94	3,624.00	101.93	36.552		
12,700.00	7,870.00	7,977.10	7,885.80	90.46	31.31	90.56	-3,618.68	1,054.74	3,673.01	3,570.58	102.43	35.859		
12,800.00	7,870.00	7,976.82	7,885.52	90.71	31.31	90.56	-3,618.68	1,054.74	3,622.08	3,519.13	102.94	35.185		
12,900.00	7,870.00	7,976.55	7,885.24	90.99	31.31	90.55	-3,618.68	1,054.74	3,573.22	3,469.74	103.48	34.531		
13,000.00	7,870.00	7,976.27	7,884.97	91.32	31.31	90.55	-3,618.68	1,054.73	3,526.51	3,422.48	104.03	33.898		
13,100.00	7,870.00	7,975.99	7,884.69	91.68	31.31	90.54	-3,618.68	1,054.73	3,482.06	3,377.45	104.60	33.288		
13,200.00	7,870.00	7,975.71	7,884.41	92.08	31.30	90.54	-3,618.68	1,054.73	3,439.93	3,334.74	105.19	32.702		
13,300.00	7,870.00	7,975.43	7,884.13	92.52	31.30	90.53	-3,618.68	1,054.73	3,400.23	3,294.44	105.79	32.140		
13,400.00	7,870.00	7,975.15	7,883.85	93.00	31.30	90.53	-3,618.68	1,054.72	3,363.03	3,256.62	106.41	31.605		
13,500.00	7,870.00	7,974.87	7,883.57	93.53	31.30	90.52	-3,618.68	1,054.72	3,328.42	3,221.39	107.03	31.097		
13,600.00	7,870.00	7,974.59	7,883.29	94.10	31.30	90.52	-3,618.68	1,054.72	3,296.49	3,188.82	107.67	30.618		
13,700.00	7,870.00	7,974.31	7,883.01	94.72	31.30	90.51	-3,618.68	1,054.72	3,267.30	3,159.00	108.30	30.168		
13,800.00	7,870.00	7,974.03	7,882.73	95.38	31.30	90.51	-3,618.68	1,054.71	3,240.94	3,131.99	108.94	29.749		
13,900.00	7,870.00	7,973.75	7,882.44	96.09	31.30	90.50	-3,618.69	1,054.71	3,217.47	3,107.89	109.58	29.362		
14,000.00	7,870.00	7,973.46	7,882.16	96.84	31.30	90.50	-3,618.69	1,054.71	3,196.95	3,086.74	110.21	29.007		
14,100.00	7,870.00	7,973.18	7,881.88	97.64	31.30	90.49	-3,618.69	1,054.71	3,179.46	3,068.62	110.84	28.685		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	7,972.90	7,881.60	98.48	31.30	90.49	-3,618.69	1,054.71	3,165.02	3,053.57	111.45	28.398		
14,300.00	7,870.00	7,972.62	7,881.31	99.37	31.29	90.48	-3,618.69	1,054.70	3,153.69	3,041.64	112.05	28.145		
14,400.00	7,870.00	7,972.33	7,881.03	100.30	31.29	90.48	-3,618.69	1,054.70	3,145.51	3,032.88	112.63	27.928		
14,500.00	7,870.00	7,972.05	7,880.75	101.26	31.29	90.47	-3,618.69	1,054.70	3,140.48	3,027.29	113.19	27.746		
14,600.00	7,870.00	7,971.76	7,880.46	102.27	31.29	90.46	-3,618.69	1,054.70	3,138.64	3,024.92	113.72	27.600		
14,607.90	7,870.00	7,971.74	7,880.44	102.35	31.29	90.46	-3,618.69	1,054.70	3,138.63	3,024.87	113.76	27.590 CC, ES		
14,700.00	7,870.00	7,971.48	7,880.18	103.31	31.29	90.46	-3,618.69	1,054.69	3,139.98	3,025.76	114.22	27.490		
14,800.00	7,870.00	7,971.19	7,879.89	104.38	31.29	90.45	-3,618.69	1,054.69	3,144.50	3,029.80	114.70	27.416		
14,900.00	7,870.00	7,970.91	7,879.61	105.49	31.29	90.45	-3,618.69	1,054.69	3,152.19	3,037.05	115.14	27.378		
15,000.00	7,870.00	7,970.62	7,879.32	106.63	31.29	90.44	-3,618.69	1,054.69	3,163.02	3,047.48	115.54	27.375 SF		
15,100.00	7,870.00	7,970.34	7,879.03	107.80	31.29	90.44	-3,618.69	1,054.68	3,176.97	3,061.05	115.92	27.407		
15,200.00	7,870.00	7,970.05	7,878.75	109.00	31.29	90.43	-3,618.70	1,054.68	3,193.99	3,077.74	116.25	27.475		
15,300.00	7,870.00	7,969.76	7,878.46	110.22	31.29	90.43	-3,618.70	1,054.68	3,214.03	3,097.48	116.55	27.576		
15,400.00	7,870.00	7,969.47	7,878.17	111.47	31.28	90.42	-3,618.70	1,054.68	3,237.04	3,120.22	116.81	27.712		
15,500.00	7,870.00	7,969.19	7,877.88	112.74	31.28	90.42	-3,618.70	1,054.68	3,262.95	3,145.91	117.04	27.880		
15,600.00	7,870.00	7,968.90	7,877.60	114.03	31.28	90.41	-3,618.70	1,054.67	3,291.69	3,174.47	117.23	28.080		
15,700.00	7,870.00	7,968.61	7,877.31	115.34	31.28	90.41	-3,618.70	1,054.67	3,323.20	3,205.82	117.38	28.311		
15,800.00	7,870.00	7,968.32	7,877.02	116.68	31.28	90.40	-3,618.70	1,054.67	3,357.39	3,239.89	117.50	28.573		
15,900.00	7,870.00	7,968.03	7,876.73	118.02	31.28	90.40	-3,618.70	1,054.67	3,394.19	3,276.60	117.59	28.865		
16,000.00	7,870.00	7,967.74	7,876.44	119.39	31.28	90.39	-3,618.70	1,054.66	3,433.50	3,315.85	117.65	29.184		
16,100.00	7,870.00	7,967.45	7,876.15	120.77	31.28	90.39	-3,618.70	1,054.66	3,475.25	3,357.57	117.68	29.532		
16,200.00	7,870.00	7,967.16	7,875.86	122.17	31.28	90.38	-3,618.70	1,054.66	3,519.34	3,401.66	117.68	29.906		
16,300.00	7,870.00	7,966.87	7,875.57	123.58	31.28	90.38	-3,618.70	1,054.66	3,565.69	3,448.03	117.66	30.305		
16,400.00	7,870.00	7,966.58	7,875.27	125.00	31.28	90.37	-3,618.70	1,054.65	3,614.22	3,496.60	117.62	30.729		
16,500.00	7,870.00	7,966.28	7,874.98	126.43	31.27	90.36	-3,618.71	1,054.65	3,664.83	3,547.28	117.55	31.176		
16,600.00	7,870.00	7,965.99	7,874.69	127.88	31.27	90.36	-3,618.71	1,054.65	3,717.45	3,599.98	117.47	31.646		
16,700.00	7,870.00	7,965.70	7,874.40	129.34	31.27	90.35	-3,618.71	1,054.65	3,771.98	3,654.61	117.37	32.138		
16,800.00	7,870.00	7,965.41	7,874.10	130.81	31.27	90.35	-3,618.71	1,054.64	3,828.35	3,711.10	117.25	32.651		
16,900.00	7,870.00	7,965.11	7,873.81	132.28	31.27	90.34	-3,618.71	1,054.64	3,886.47	3,769.35	117.12	33.183		
17,000.00	7,870.00	7,964.82	7,873.52	133.77	31.27	90.34	-3,618.71	1,054.64	3,946.28	3,829.29	116.98	33.734		
17,100.00	7,870.00	7,964.52	7,873.22	135.27	31.27	90.33	-3,618.71	1,054.64	4,007.68	3,890.85	116.83	34.303		
17,200.00	7,870.00	7,964.23	7,872.93	136.77	31.27	90.33	-3,618.71	1,054.64	4,070.62	3,953.94	116.67	34.889		
17,300.00	7,870.00	7,963.93	7,872.63	138.28	31.27	90.32	-3,618.71	1,054.63	4,135.01	4,018.51	116.51	35.491		
17,400.00	7,870.00	7,963.64	7,872.34	139.80	31.27	90.32	-3,618.71	1,054.63	4,200.80	4,084.47	116.34	36.109		
17,500.00	7,870.00	7,963.34	7,872.04	141.33	31.26	90.31	-3,618.71	1,054.63	4,267.92	4,151.76	116.16	36.742		
17,600.00	7,870.00	7,963.04	7,871.74	142.86	31.26	90.31	-3,618.71	1,054.63	4,336.31	4,220.33	115.98	37.389		
17,700.00	7,870.00	7,962.75	7,871.45	144.40	31.26	90.30	-3,618.71	1,054.62	4,405.91	4,290.11	115.79	38.049		
17,800.00	7,870.00	7,962.45	7,871.15	145.95	31.26	90.29	-3,618.72	1,054.62	4,476.65	4,361.04	115.61	38.722		
17,900.00	7,870.00	7,962.15	7,870.85	147.50	31.26	90.29	-3,618.72	1,054.62	4,548.50	4,433.08	115.42	39.408		
18,000.00	7,870.00	7,961.85	7,870.55	149.06	31.26	90.28	-3,618.72	1,054.62	4,621.39	4,506.16	115.23	40.104		
18,100.00	7,870.00	7,961.56	7,870.25	150.63	31.26	90.28	-3,618.72	1,054.61	4,695.28	4,580.23	115.05	40.812		
18,200.00	7,870.00	7,961.26	7,869.95	152.20	31.26	90.27	-3,618.72	1,054.61	4,770.12	4,655.26	114.86	41.530		
18,300.00	7,870.00	7,960.96	7,869.66	153.77	31.26	90.27	-3,618.72	1,054.61	4,845.87	4,731.20	114.67	42.258		
18,400.00	7,870.00	7,960.66	7,869.36	155.35	31.26	90.26	-3,618.72	1,054.61	4,922.49	4,808.00	114.49	42.995		
18,500.00	7,870.00	7,960.36	7,869.05	156.93	31.26	90.26	-3,618.72	1,054.60	4,999.93	4,885.62	114.31	43.741		
18,600.00	7,870.00	7,960.06	7,868.75	158.52	31.25	90.25	-3,618.72	1,054.60	5,078.16	4,964.04	114.13	44.496		
18,700.00	7,870.00	7,959.75	7,868.45	160.11	31.25	90.25	-3,618.72	1,054.60	5,157.15	5,043.20	113.95	45.258		
18,800.00	7,870.00	7,959.45	7,868.15	161.71	31.25	90.24	-3,618.72	1,054.60	5,236.85	5,123.07	113.77	46.028		
18,900.00	7,870.00	7,959.15	7,867.85	163.31	31.25	90.23	-3,618.72	1,054.60	5,317.23	5,203.63	113.60	46.805		
19,000.00	7,870.00	7,958.85	7,867.55	164.91	31.25	90.23	-3,618.73	1,054.59	5,398.28	5,284.84	113.43	47.590		
19,100.00	7,870.00	7,958.55	7,867.24	166.52	31.25	90.22	-3,618.73	1,054.59	5,479.95	5,366.68	113.27	48.380		
19,200.00	7,870.00	7,958.24	7,866.94	168.13	31.25	90.22	-3,618.73	1,054.59	5,562.21	5,449.11	113.11	49.177		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,870.00	7,957.94	7,866.64	169.75	31.25	90.21	-3,618.73	1,054.59	5,645.05	5,532.11	112.95	49.980	
19,383.51	7,870.00	7,957.68	7,866.38	171.10	31.25	90.21	-3,618.73	1,054.58	5,714.65	5,601.84	112.82	50.654	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	175.51	-4,029.02	316.45	4,041.46					
100.00	100.00	98.31	98.31	0.13	0.16	175.51	-4,028.86	316.68	4,041.31	4,041.01	0.30	N/A		
200.00	200.00	248.96	248.93	0.49	0.71	175.47	-4,027.25	318.72	4,040.35	4,039.15	1.20	3,365.500		
300.00	300.00	305.00	304.94	0.85	0.91	175.45	-4,026.12	320.15	4,038.88	4,037.12	1.76	2,295.863		
319.94	319.94	305.00	304.94	0.92	0.91	175.45	-4,026.12	320.15	4,038.83	4,037.00	1.83	2,205.977		
400.00	400.00	305.00	304.94	1.21	0.91	175.45	-4,026.12	320.15	4,039.62	4,037.50	2.12	1,904.902		
429.73	429.73	387.71	387.59	1.32	1.21	175.41	-4,025.30	323.21	4,038.35	4,035.82	2.53	1,598.686		
500.00	500.00	417.88	417.72	1.57	1.32	175.39	-4,025.54	324.66	4,039.17	4,036.28	2.89	1,398.460		
600.00	600.00	460.76	460.53	1.93	1.48	175.36	-4,026.37	327.04	4,041.54	4,038.14	3.40	1,187.381		
700.00	699.98	503.60	503.26	2.28	1.64	111.43	-4,027.77	329.78	4,045.97	4,042.05	3.91	1,033.499		
800.00	799.84	546.35	545.85	2.64	1.79	111.28	-4,029.74	332.88	4,053.08	4,048.65	4.42	915.991		
900.00	899.45	639.00	637.94	3.00	2.13	111.11	-4,035.97	340.84	4,063.56	4,058.44	5.12	793.693		
1,000.00	998.70	639.00	637.94	3.37	2.13	110.89	-4,035.97	340.84	4,075.27	4,069.78	5.49	742.281		
1,100.00	1,097.47	676.97	675.59	3.76	2.28	110.64	-4,039.27	344.50	4,090.24	4,084.22	6.02	679.681		
1,200.00	1,195.62	731.00	729.08	4.18	2.50	110.38	-4,044.63	349.92	4,107.72	4,101.10	6.62	620.231		
1,300.00	1,293.06	759.63	757.37	4.63	2.62	110.04	-4,047.85	352.96	4,127.72	4,120.56	7.16	576.752		
1,400.00	1,389.64	794.03	791.27	5.11	2.76	109.67	-4,052.17	356.89	4,150.39	4,142.65	7.74	536.215		
1,500.00	1,485.27	825.00	821.70	5.63	2.89	109.25	-4,056.47	360.68	4,175.69	4,167.35	8.34	500.688		
1,600.00	1,579.82	864.50	860.40	6.20	3.07	108.81	-4,062.49	365.83	4,203.52	4,194.50	9.02	466.205		
1,700.00	1,673.17	920.00	914.53	6.83	3.32	108.39	-4,071.90	373.64	4,233.92	4,224.12	9.80	431.997		
1,800.00	1,765.21	920.00	914.53	7.51	3.32	107.73	-4,071.90	373.64	4,266.55	4,256.17	10.38	410.996		
1,900.00	1,855.84	968.49	961.60	8.24	3.56	107.21	-4,081.06	380.81	4,301.52	4,290.29	11.23	383.159		
2,000.00	1,944.94	1,014.00	1,005.60	9.05	3.78	106.64	-4,090.47	387.69	4,338.90	4,326.80	12.10	358.492		
2,100.00	2,032.39	1,040.31	1,030.95	9.91	3.92	105.95	-4,096.21	391.72	4,378.37	4,365.43	12.94	338.407		
2,200.00	2,118.11	1,083.00	1,072.01	10.85	4.15	105.30	-4,105.84	398.37	4,419.85	4,405.95	13.90	317.969		
2,300.00	2,201.97	1,142.88	1,129.46	11.85	4.47	104.72	-4,119.86	407.74	4,463.16	4,448.16	15.00	297.547		
2,400.00	2,283.88	1,293.80	1,274.75	12.93	5.30	104.72	-4,154.17	429.87	4,506.99	4,490.35	16.64	270.852		
2,429.47	2,307.63	1,306.82	1,287.30	13.26	5.37	104.52	-4,157.05	431.84	4,520.00	4,503.03	16.97	266.368		
2,500.00	2,364.26	1,337.87	1,317.17	14.06	5.55	104.72	-4,164.04	436.65	4,551.54	4,533.78	17.76	256.258		
2,600.00	2,444.56	1,415.52	1,391.66	15.22	5.99	105.21	-4,181.93	449.32	4,597.02	4,577.94	19.09	240.862		
2,700.00	2,524.85	1,516.70	1,488.71	16.39	6.58	105.82	-4,204.62	466.75	4,642.31	4,621.74	20.56	225.751		
2,800.00	2,605.14	1,586.68	1,555.80	17.57	7.00	106.23	-4,220.31	478.98	4,687.95	4,666.08	21.87	214.349		
2,900.00	2,685.43	1,650.13	1,616.54	18.76	7.38	106.60	-4,234.75	490.32	4,734.16	4,711.02	23.14	204.566		
3,000.00	2,765.73	1,723.91	1,687.10	19.96	7.82	107.02	-4,251.71	503.56	4,780.86	4,756.38	24.48	195.286		
3,100.00	2,846.02	1,858.70	1,816.11	21.16	8.64	107.76	-4,282.04	528.17	4,827.42	4,801.20	26.21	184.156		
3,200.00	2,926.31	1,916.33	1,871.34	22.37	8.99	108.08	-4,294.83	538.53	4,874.00	4,846.55	27.46	177.521		
3,300.00	3,006.60	2,008.58	1,959.89	23.59	9.54	108.59	-4,315.47	554.13	4,921.06	4,892.15	28.91	170.205		
3,400.00	3,086.90	2,103.35	2,050.97	24.81	10.10	109.10	-4,336.29	570.01	4,968.05	4,937.67	30.38	163.507		
3,500.00	3,167.19	2,154.94	2,100.51	26.03	10.41	109.37	-4,347.65	578.88	5,015.37	4,983.79	31.58	158.833		
3,600.00	3,247.48	2,194.05	2,137.93	27.25	10.65	109.58	-4,356.59	585.83	5,063.57	5,030.90	32.68	154.951		
3,700.00	3,327.77	2,255.51	2,196.60	28.48	11.03	109.89	-4,371.14	596.99	5,112.61	5,078.68	33.93	150.690		
3,800.00	3,408.07	2,356.06	2,292.75	29.71	11.66	110.40	-4,394.69	614.63	5,161.74	5,126.29	35.45	145.617		
3,900.00	3,488.36	2,390.00	2,411.10	30.94	12.10	111.01	-4,422.77	636.55	5,210.47	5,166.04	44.43	117.283		
4,000.00	3,568.65	2,551.74	2,480.19	32.17	12.86	111.36	-4,438.82	649.35	5,259.10	5,220.66	38.45	136.790		
4,100.00	3,648.95	2,598.48	2,524.86	33.41	13.15	111.58	-4,449.57	657.96	5,308.48	5,268.90	39.58	134.123		
4,200.00	3,729.24	2,754.48	2,674.15	34.64	14.11	112.30	-4,484.66	686.48	5,357.61	5,316.10	41.51	129.076		
4,300.00	3,809.53	2,846.05	2,762.03	35.88	14.67	112.72	-4,504.51	702.92	5,406.33	5,363.37	42.96	125.848		
4,400.00	3,889.82	2,909.47	2,822.94	37.12	15.05	113.01	-4,518.25	714.01	5,455.32	5,411.12	44.20	123.423		
4,500.00	3,970.12	2,971.00	2,881.96	38.36	15.43	113.28	-4,531.92	724.80	5,504.90	5,459.48	45.42	121.196		
4,600.00	4,050.41	3,048.24	2,956.01	39.60	15.90	113.63	-4,549.22	738.32	5,554.85	5,508.10	46.76	118.808		
4,700.00	4,130.70	3,117.77	3,022.68	40.84	16.32	113.93	-4,564.77	750.47	5,604.96	5,556.94	48.03	116.703		
4,800.00	4,210.99	3,185.89	3,087.91	42.08	16.74	114.22	-4,580.21	762.58	5,655.47	5,606.18	49.29	114.748		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,291.29	3,273.05	3,171.35	43.32	17.28	114.59	-4,600.06	778.07	5,706.23	5,655.55	50.69	112.573		
5,000.00	4,371.58	3,398.25	3,291.37	44.57	18.05	115.10	-4,627.75	800.51	5,756.54	5,704.15	52.39	109.885		
5,100.00	4,451.87	3,472.36	3,362.35	45.81	18.51	115.40	-4,644.08	814.25	5,806.93	5,753.24	53.69	108.157		
5,200.00	4,532.16	3,540.35	3,427.43	47.05	18.93	115.67	-4,659.17	826.83	5,857.62	5,802.67	54.94	106.616		
5,300.00	4,612.46	3,591.22	3,476.12	48.30	19.25	115.86	-4,670.63	836.11	5,908.75	5,852.70	56.05	105.423		
5,400.00	4,692.75	3,655.85	3,537.95	49.54	19.65	116.11	-4,685.49	847.70	5,960.43	5,903.17	57.26	104.098		
5,500.00	4,773.04	3,719.24	3,603.04	50.79	20.05	116.37	-4,700.35	858.29	6,012.11	5,955.91	58.47	102.773		
5,600.00	4,853.34	3,789.77	3,673.57	52.03	21.02	116.98	-4,734.59	886.86	6,062.39	6,001.97	60.42	100.341		
5,700.00	4,933.63	3,919.00	3,790.53	53.28	21.25	117.12	-4,743.25	893.63	6,113.92	6,052.52	61.40	99.568		
5,800.00	5,013.92	3,958.68	3,828.58	54.53	21.50	117.27	-4,752.26	900.36	6,166.13	6,103.75	62.38	98.842		
5,900.00	5,094.21	4,014.00	3,881.60	55.77	21.84	117.48	-4,765.27	909.33	6,219.15	6,155.67	63.48	97.967		
6,000.00	5,174.51	4,074.29	3,934.62	57.02	22.55	118.56	-4,800.06	943.29	6,272.41	6,200.66	71.75	87.418		
6,100.00	5,254.80	4,154.58	4,014.91	58.27	27.95	123.32	-4,932.74	1,044.03	6,310.38	6,237.29	73.09	86.339		
6,200.00	5,335.09	4,234.87	4,095.20	59.52	28.19	123.79	-4,932.54	1,044.99	6,347.91	6,273.69	74.22	85.532		
6,300.00	5,415.38	4,315.16	4,175.49	60.76	28.39	124.17	-4,932.27	1,045.59	6,385.70	6,310.43	75.27	84.832		
6,400.00	5,495.68	4,395.46	4,255.79	62.01	28.60	124.58	-4,931.95	1,046.15	6,423.81	6,347.47	76.34	84.143		
6,500.00	5,575.97	4,475.75	4,336.08	63.26	28.80	124.98	-4,931.53	1,046.75	6,462.12	6,384.72	77.40	83.491		
6,600.00	5,656.26	4,556.04	4,416.37	64.51	29.01	125.37	-4,931.09	1,047.34	6,500.73	6,422.28	78.44	82.872		
6,700.00	5,736.55	4,636.33	4,496.66	65.76	29.23	125.80	-4,930.46	1,047.84	6,539.53	6,460.03	79.50	82.261		
6,800.00	5,816.85	4,716.62	4,576.95	67.01	29.45	126.22	-4,929.59	1,048.24	6,578.48	6,497.93	80.55	81.673		
6,900.00	5,897.14	4,796.91	4,657.24	68.26	29.66	126.64	-4,928.55	1,048.62	6,617.57	6,535.99	81.58	81.117		
7,000.00	5,977.43	4,877.20	4,737.53	69.50	29.87	127.04	-4,927.40	1,048.96	6,656.82	6,574.23	82.59	80.597		
7,100.00	6,057.72	4,957.49	4,817.82	70.75	30.08	127.43	-4,926.20	1,049.32	6,696.32	6,612.72	83.60	80.099		
7,200.00	6,138.02	5,037.78	4,898.11	72.00	30.37	127.95	-4,924.11	1,049.94	6,735.76	6,651.06	84.70	79.530		
7,300.00	6,218.31	5,118.07	4,978.40	73.25	30.55	128.29	-4,922.46	1,050.37	6,775.21	6,689.55	85.66	79.096		
7,400.00	6,298.60	5,198.36	5,058.69	74.50	30.69	128.53	-4,921.57	1,050.87	6,815.18	6,728.64	86.54	78.750		
7,500.00	6,378.90	5,278.65	5,138.98	75.75	30.85	128.80	-4,920.80	1,051.64	6,855.69	6,768.24	87.45	78.392		
7,600.00	6,459.19	5,358.94	5,219.27	77.00	31.03	129.09	-4,920.13	1,052.52	6,896.62	6,808.24	88.38	78.034		
7,700.00	6,539.48	5,439.23	5,299.56	78.25	31.24	129.41	-4,919.50	1,053.58	6,937.90	6,848.57	89.33	77.665		
7,800.00	6,619.77	5,519.52	5,379.85	79.50	31.54	129.86	-4,918.44	1,055.31	6,979.26	6,888.87	90.39	77.210		
7,900.00	6,700.07	5,599.81	5,460.14	80.75	31.78	130.23	-4,917.19	1,056.79	7,020.50	6,929.12	91.38	76.831		
8,000.00	6,780.36	5,680.10	5,540.43	82.00	31.92	130.45	-4,916.41	1,057.20	7,062.18	6,969.97	92.21	76.586		
8,100.00	6,860.65	5,760.39	5,620.72	83.25	32.19	130.89	-4,914.63	1,057.23	7,104.18	7,010.96	93.22	76.212		
8,200.00	6,940.94	5,840.68	5,701.01	84.50	32.47	131.35	-4,912.08	1,057.05	7,145.99	7,051.77	94.22	75.844		
8,300.00	7,021.24	5,920.97	5,781.30	85.76	32.70	131.75	-4,909.28	1,056.47	7,187.68	7,092.52	95.16	75.534		
8,400.00	7,101.53	6,001.26	5,861.59	87.01	32.86	132.00	-4,907.48	1,056.01	7,229.69	7,133.71	95.98	75.324		
8,500.00	7,181.82	6,081.55	5,941.88	88.26	32.96	132.17	-4,906.43	1,055.73	7,272.23	7,175.50	96.73	75.178		
8,605.60	7,266.61	6,166.84	6,027.17	89.58	33.11	132.40	-4,905.53	1,055.56	7,317.92	7,220.35	97.56	75.007		
8,650.00	7,302.60	6,202.83	6,063.16	90.13	33.13	125.94	-4,905.45	1,055.55	7,335.83	7,237.97	97.86	74.960		
8,700.00	7,343.78	6,243.91	6,104.24	90.72	33.30	118.51	-4,904.69	1,055.63	7,352.47	7,254.05	98.42	74.708		
8,750.00	7,385.32	6,285.45	6,145.78	91.28	33.45	110.86	-4,903.96	1,055.91	7,365.14	7,266.18	98.96	74.427		
8,800.00	7,426.92	6,327.05	6,187.38	91.81	33.59	103.30	-4,903.28	1,056.39	7,373.82	7,274.32	99.50	74.111		
8,850.00	7,468.27	6,368.69	6,228.98	92.29	33.89	96.38	-4,901.49	1,058.03	7,378.32	7,278.06	100.27	73.587		
8,900.00	7,509.04	6,409.46	6,269.75	92.72	34.03	89.84	-4,900.51	1,058.93	7,378.61	7,277.80	100.80	73.198		
8,950.00	7,548.93	6,450.23	6,310.52	93.10	34.17	84.14	-4,899.39	1,059.99	7,374.84	7,273.49	101.35	72.767		
9,000.00	7,587.63	6,491.00	6,351.29	93.43	34.20	79.10	-4,899.20	1,060.14	7,367.20	7,265.48	101.72	72.423		
9,050.00	7,624.85	6,531.77	6,391.96	93.71	34.25	74.99	-4,898.84	1,060.42	7,355.78	7,253.66	102.12	72.032		
9,100.00	7,660.30	6,572.54	6,432.73	93.93	34.30	71.72	-4,898.53	1,060.64	7,340.66	7,238.17	102.49	71.622		
9,150.00	7,693.72	6,613.31	6,473.50	94.10	34.39	69.32	-4,898.05	1,060.90	7,321.98	7,219.09	102.90	71.159		
9,200.00	7,724.85	6,654.08	6,514.27	94.23	34.40	67.50	-4,898.00	1,060.92	7,299.79	7,196.62	103.17	70.752		
9,250.00	7,753.45	6,694.85	6,555.04	94.30	34.47	66.56	-4,897.59	1,061.10	7,274.29	7,170.76	103.53	70.265		
9,300.00	7,779.31	6,735.62	6,595.81	94.34	34.54	66.34	-4,897.23	1,061.26	7,245.62	7,141.77	103.85	69.771		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	8,058.24	7,900.52	94.33	34.61	66.83	-4,896.91	1,061.41	7,213.98	7,109.85	104.14	69.274		
9,400.00	7,822.03	8,077.52	7,919.81	94.28	34.66	68.10	-4,896.64	1,061.54	7,179.63	7,075.23	104.39	68.774		
9,450.00	7,838.57	8,093.45	7,935.73	94.20	34.70	70.22	-4,896.41	1,061.65	7,142.79	7,038.17	104.62	68.273		
9,500.00	7,851.72	8,105.95	7,948.23	94.10	34.74	73.32	-4,896.23	1,061.73	7,103.74	6,998.93	104.82	67.773		
9,550.00	7,861.37	8,114.93	7,957.21	93.96	34.76	77.59	-4,896.10	1,061.79	7,062.77	6,957.79	104.98	67.276		
9,600.00	7,867.46	8,120.32	7,962.60	93.81	34.78	83.23	-4,896.03	1,061.82	7,020.16	6,915.04	105.12	66.782		
9,650.00	7,869.94	8,122.09	7,964.37	93.64	34.78	90.49	-4,896.00	1,061.83	6,976.23	6,870.99	105.23	66.293		
9,659.14	7,870.00	8,122.02	7,964.30	93.60	34.78	92.00	-4,896.00	1,061.83	6,968.08	6,862.83	105.25	66.203		
9,700.00	7,870.00	8,121.44	7,963.72	93.46	34.78	91.99	-4,896.01	1,061.83	6,931.59	6,826.26	105.33	65.807		
9,800.00	7,870.00	8,120.01	7,962.29	93.11	34.77	91.96	-4,896.03	1,061.82	6,842.51	6,736.98	105.53	64.840		
9,900.00	7,870.00	8,118.58	7,960.86	92.77	34.77	91.94	-4,896.05	1,061.81	6,753.73	6,648.00	105.74	63.873		
10,000.00	7,870.00	8,117.15	7,959.43	92.46	34.77	91.91	-4,896.07	1,061.80	6,665.27	6,559.32	105.95	62.909		
10,100.00	7,870.00	8,115.72	7,958.00	92.16	34.76	91.89	-4,896.09	1,061.79	6,577.14	6,470.97	106.18	61.946		
10,200.00	7,870.00	8,114.29	7,956.57	91.87	34.76	91.86	-4,896.11	1,061.78	6,489.36	6,382.95	106.41	60.985		
10,300.00	7,870.00	8,112.87	7,955.15	91.60	34.76	91.83	-4,896.13	1,061.77	6,401.93	6,295.28	106.65	60.026		
10,400.00	7,870.00	8,111.44	7,953.72	91.34	34.75	91.81	-4,896.15	1,061.77	6,314.87	6,207.97	106.91	59.070		
10,500.00	7,870.00	8,110.02	7,952.30	91.11	34.75	91.78	-4,896.17	1,061.76	6,228.21	6,121.04	107.17	58.116		
10,600.00	7,870.00	8,108.59	7,950.88	90.88	34.74	91.76	-4,896.19	1,061.75	6,141.94	6,034.50	107.44	57.164		
10,700.00	7,870.00	8,107.17	7,949.45	90.67	34.74	91.73	-4,896.21	1,061.74	6,056.10	5,948.37	107.73	56.216		
10,800.00	7,870.00	8,105.75	7,948.03	90.48	34.74	91.70	-4,896.23	1,061.73	5,970.70	5,862.68	108.03	55.270		
10,900.00	7,870.00	8,104.33	7,946.61	90.31	34.73	91.68	-4,896.25	1,061.72	5,885.77	5,777.43	108.34	54.328		
11,000.00	7,870.00	8,102.91	7,945.19	90.15	34.73	91.65	-4,896.27	1,061.71	5,801.31	5,692.65	108.66	53.390		
11,100.00	7,870.00	8,101.49	7,943.77	90.00	34.72	91.63	-4,896.29	1,061.70	5,717.35	5,608.35	109.00	52.455		
11,200.00	7,870.00	8,100.07	7,942.35	89.88	34.72	91.60	-4,896.32	1,061.69	5,633.91	5,524.57	109.35	51.524		
11,300.00	7,870.00	8,098.65	7,940.94	89.77	34.72	91.57	-4,896.34	1,061.68	5,551.02	5,441.31	109.71	50.598		
11,400.00	7,870.00	8,097.24	7,939.52	89.68	34.71	91.55	-4,896.36	1,061.67	5,468.71	5,358.62	110.09	49.676		
11,500.00	7,870.00	8,095.82	7,938.10	89.60	34.71	91.52	-4,896.38	1,061.66	5,386.99	5,276.51	110.48	48.760		
11,600.00	7,870.00	8,094.41	7,936.69	89.55	34.70	91.50	-4,896.40	1,061.65	5,305.90	5,195.01	110.89	47.849		
11,700.00	7,870.00	8,092.99	7,935.28	89.52	34.70	91.47	-4,896.42	1,061.64	5,225.46	5,114.15	111.31	46.944		
11,800.00	7,870.00	8,091.58	7,933.86	89.50	34.70	91.44	-4,896.44	1,061.64	5,145.71	5,033.95	111.75	46.045		
11,900.00	7,870.00	8,090.17	7,932.45	89.51	34.69	91.42	-4,896.46	1,061.63	5,066.67	4,954.46	112.21	45.152		
12,000.00	7,870.00	8,088.76	7,931.04	89.54	34.69	91.39	-4,896.48	1,061.62	4,988.39	4,875.70	112.69	44.267		
12,100.00	7,870.00	8,087.35	7,929.63	89.59	34.69	91.37	-4,896.50	1,061.61	4,910.90	4,797.72	113.18	43.389		
12,200.00	7,870.00	8,085.94	7,928.22	89.66	34.68	91.34	-4,896.52	1,061.60	4,834.23	4,720.54	113.69	42.520		
12,300.00	7,870.00	8,084.53	7,926.81	89.77	34.68	91.32	-4,896.54	1,061.59	4,758.43	4,644.20	114.22	41.659		
12,400.00	7,870.00	8,083.12	7,925.40	89.89	34.67	91.29	-4,896.55	1,061.58	4,683.53	4,568.76	114.77	40.806		
12,500.00	7,870.00	8,081.71	7,924.00	90.05	34.67	91.27	-4,896.57	1,061.57	4,609.59	4,494.25	115.34	39.964		
12,600.00	7,870.00	8,080.30	7,922.59	90.24	34.67	91.24	-4,896.59	1,061.56	4,536.65	4,420.72	115.93	39.133		
12,700.00	7,870.00	8,079.02	7,921.30	90.46	34.66	91.21	-4,896.61	1,061.55	4,464.75	4,348.22	116.54	38.312		
12,800.00	7,870.00	8,077.58	7,919.87	90.71	34.66	91.19	-4,896.64	1,061.54	4,393.96	4,276.80	117.16	37.503		
12,900.00	7,870.00	8,076.15	7,918.43	90.99	34.65	91.16	-4,896.66	1,061.53	4,324.32	4,206.51	117.81	36.706		
13,000.00	7,870.00	8,074.71	7,916.99	91.32	34.65	91.14	-4,896.68	1,061.52	4,255.88	4,137.41	118.47	35.923		
13,100.00	7,870.00	8,073.27	7,915.56	91.68	34.65	91.11	-4,896.70	1,061.51	4,188.72	4,069.56	119.16	35.153		
13,200.00	7,870.00	8,071.83	7,914.12	92.08	34.64	91.08	-4,896.72	1,061.50	4,122.89	4,003.03	119.86	34.399		
13,300.00	7,870.00	8,070.39	7,912.68	92.52	34.64	91.06	-4,896.74	1,061.49	4,058.45	3,937.87	120.57	33.659		
13,400.00	7,870.00	8,068.95	7,911.24	93.00	34.63	91.03	-4,896.76	1,061.48	3,995.48	3,874.17	121.31	32.936		
13,500.00	7,870.00	8,067.51	7,909.80	93.53	34.63	91.00	-4,896.78	1,061.47	3,934.04	3,811.98	122.06	32.231		
13,600.00	7,870.00	8,066.07	7,908.36	94.10	34.63	90.98	-4,896.80	1,061.46	3,874.20	3,751.38	122.82	31.543		
13,700.00	7,870.00	8,064.63	7,906.91	94.72	34.62	90.95	-4,896.82	1,061.45	3,816.05	3,692.45	123.60	30.875		
13,800.00	7,870.00	8,063.18	7,905.47	95.38	34.62	90.92	-4,896.84	1,061.44	3,759.66	3,635.28	124.38	30.227		
13,900.00	7,870.00	8,061.74	7,904.03	96.09	34.61	90.90	-4,896.86	1,061.43	3,705.11	3,579.93	125.18	29.599		
14,000.00	7,870.00	8,060.29	7,902.58	96.84	34.61	90.87	-4,896.88	1,061.43	3,652.48	3,526.51	125.97	28.994		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	8,058.85	7,901.13	97.64	34.61	90.85	-4,896.90	1,061.42	3,601.86	3,475.09	126.77	28.411		
14,200.00	7,870.00	8,057.40	7,899.69	98.48	34.60	90.82	-4,896.92	1,061.41	3,553.34	3,425.76	127.58	27.853		
14,300.00	7,870.00	8,055.95	7,898.24	99.37	34.60	90.79	-4,896.94	1,061.40	3,506.99	3,378.62	128.37	27.319		
14,400.00	7,870.00	8,054.50	7,896.79	100.30	34.60	90.77	-4,896.96	1,061.39	3,462.91	3,333.75	129.16	26.811		
14,500.00	7,870.00	8,053.05	7,895.34	101.26	34.59	90.74	-4,896.98	1,061.38	3,421.19	3,291.25	129.94	26.330		
14,600.00	7,870.00	8,051.60	7,893.89	102.27	34.59	90.71	-4,897.00	1,061.37	3,381.91	3,251.21	130.70	25.876		
14,700.00	7,870.00	8,050.15	7,892.44	103.31	34.58	90.69	-4,897.02	1,061.36	3,345.15	3,213.72	131.44	25.451		
14,800.00	7,870.00	8,048.70	7,890.99	104.38	34.58	90.66	-4,897.05	1,061.35	3,311.01	3,178.86	132.15	25.055		
14,900.00	7,870.00	8,047.25	7,889.53	105.49	34.58	90.63	-4,897.07	1,061.34	3,279.57	3,146.73	132.83	24.689		
15,000.00	7,870.00	8,045.79	7,888.08	106.63	34.57	90.61	-4,897.09	1,061.33	3,250.89	3,117.41	133.48	24.354		
15,100.00	7,870.00	8,044.34	7,886.63	107.80	34.57	90.58	-4,897.11	1,061.32	3,225.07	3,090.97	134.09	24.051		
15,200.00	7,870.00	8,042.88	7,885.17	109.00	34.56	90.55	-4,897.13	1,061.31	3,202.15	3,067.50	134.66	23.780		
15,300.00	7,870.00	8,041.43	7,883.71	110.22	34.56	90.53	-4,897.15	1,061.30	3,182.22	3,047.05	135.18	23.541		
15,400.00	7,870.00	8,039.97	7,882.26	111.47	34.56	90.50	-4,897.17	1,061.29	3,165.32	3,029.68	135.64	23.336		
15,500.00	7,870.00	8,038.51	7,880.80	112.74	34.55	90.47	-4,897.19	1,061.28	3,151.51	3,015.46	136.05	23.164		
15,600.00	7,870.00	8,037.05	7,879.34	114.03	34.55	90.45	-4,897.21	1,061.27	3,140.81	3,004.42	136.40	23.027		
15,700.00	7,870.00	8,035.59	7,877.88	115.34	34.54	90.42	-4,897.23	1,061.26	3,133.28	2,996.59	136.69	22.923		
15,800.00	7,870.00	8,034.13	7,876.42	116.68	34.54	90.39	-4,897.25	1,061.25	3,128.92	2,992.01	136.91	22.853		
15,886.45	7,870.00	8,032.86	7,875.15	117.84	34.54	90.37	-4,897.27	1,061.24	3,127.73	2,990.67	137.05	22.821 CC, ES		
15,900.00	7,870.00	8,032.67	7,874.96	118.02	34.54	90.37	-4,897.27	1,061.24	3,127.76	2,990.68	137.07	22.818		
16,000.00	7,870.00	8,031.20	7,873.49	119.39	34.53	90.34	-4,897.30	1,061.23	3,129.79	2,992.62	137.17	22.817 SF		
16,100.00	7,870.00	8,029.74	7,872.03	120.77	34.53	90.31	-4,897.32	1,061.22	3,135.01	2,997.81	137.20	22.850		
16,200.00	7,870.00	8,028.28	7,870.57	122.17	34.52	90.29	-4,897.34	1,061.22	3,143.40	3,006.24	137.16	22.917		
16,300.00	7,870.00	8,026.81	7,869.10	123.58	34.52	90.26	-4,897.36	1,061.21	3,154.94	3,017.88	137.07	23.017		
16,400.00	7,870.00	8,025.34	7,867.63	125.00	34.52	90.23	-4,897.38	1,061.20	3,169.60	3,032.69	136.91	23.151		
16,500.00	7,870.00	8,023.88	7,866.17	126.43	34.51	90.20	-4,897.40	1,061.19	3,187.33	3,050.63	136.70	23.317		
16,600.00	7,870.00	8,022.41	7,864.70	127.88	34.51	90.18	-4,897.42	1,061.18	3,208.07	3,071.65	136.43	23.515		
16,700.00	7,870.00	8,020.94	7,863.23	129.34	34.50	90.15	-4,897.44	1,061.17	3,231.78	3,095.67	136.11	23.744		
16,800.00	7,870.00	8,019.47	7,861.76	130.81	34.50	90.12	-4,897.46	1,061.16	3,258.39	3,122.65	135.74	24.005		
16,900.00	7,870.00	8,018.00	7,860.29	132.28	34.50	90.10	-4,897.48	1,061.15	3,287.82	3,152.49	135.33	24.295		
17,000.00	7,870.00	8,016.53	7,858.82	133.77	34.49	90.07	-4,897.51	1,061.14	3,320.00	3,185.12	134.88	24.614		
17,100.00	7,870.00	8,015.06	7,857.35	135.27	34.49	90.04	-4,897.53	1,061.13	3,354.86	3,220.46	134.40	24.962		
17,200.00	7,870.00	8,013.58	7,855.87	136.77	34.48	90.02	-4,897.55	1,061.12	3,392.30	3,258.42	133.89	25.337		
17,300.00	7,870.00	8,012.11	7,854.40	138.28	34.48	89.99	-4,897.57	1,061.11	3,432.26	3,298.91	133.35	25.739		
17,400.00	7,870.00	8,010.63	7,852.92	139.80	34.47	89.96	-4,897.59	1,061.10	3,474.63	3,341.84	132.79	26.167		
17,500.00	7,870.00	8,009.16	7,851.45	141.33	34.47	89.93	-4,897.61	1,061.09	3,519.33	3,387.12	132.21	26.619		
17,600.00	7,870.00	8,007.68	7,849.97	142.86	34.47	89.91	-4,897.63	1,061.08	3,566.28	3,434.66	131.62	27.095		
17,700.00	7,870.00	8,006.20	7,848.49	144.40	34.46	89.88	-4,897.65	1,061.07	3,615.38	3,484.36	131.02	27.595		
17,800.00	7,870.00	8,004.72	7,847.02	145.95	34.46	89.85	-4,897.68	1,061.06	3,666.55	3,536.14	130.41	28.116		
17,900.00	7,870.00	8,003.24	7,845.54	147.50	34.45	89.83	-4,897.70	1,061.06	3,719.71	3,589.91	129.80	28.658		
18,000.00	7,870.00	8,001.76	7,844.06	149.06	34.45	89.80	-4,897.72	1,061.05	3,774.76	3,645.58	129.18	29.221		
18,100.00	7,870.00	8,000.28	7,842.58	150.63	34.45	89.77	-4,897.74	1,061.04	3,831.64	3,703.07	128.57	29.803		
18,200.00	7,870.00	7,998.80	7,841.09	152.20	34.44	89.75	-4,897.76	1,061.03	3,890.25	3,762.30	127.96	30.403		
18,300.00	7,870.00	7,997.32	7,839.61	153.77	34.44	89.72	-4,897.78	1,061.02	3,950.53	3,823.18	127.35	31.021		
18,400.00	7,870.00	7,995.83	7,838.13	155.35	34.43	89.69	-4,897.80	1,061.01	4,012.39	3,885.64	126.75	31.655		
18,500.00	7,870.00	7,994.35	7,836.64	156.93	34.43	89.66	-4,897.82	1,061.00	4,075.77	3,949.61	126.16	32.306		
18,600.00	7,870.00	7,992.86	7,835.16	158.52	34.43	89.64	-4,897.85	1,060.99	4,140.59	4,015.01	125.58	32.972		
18,700.00	7,870.00	7,991.37	7,833.67	160.11	34.42	89.61	-4,897.87	1,060.98	4,206.79	4,081.78	125.01	33.652		
18,800.00	7,870.00	7,989.89	7,832.18	161.71	34.42	89.58	-4,897.89	1,060.97	4,274.30	4,149.86	124.45	34.346		
18,900.00	7,870.00	7,988.40	7,830.69	163.31	34.41	89.55	-4,897.91	1,060.96	4,343.07	4,219.17	123.90	35.053		
19,000.00	7,870.00	7,986.91	7,829.20	164.91	34.41	89.53	-4,897.93	1,060.95	4,413.03	4,289.67	123.36	35.772		
19,100.00	7,870.00	7,985.42	7,827.71	166.52	34.41	89.50	-4,897.95	1,060.94	4,484.13	4,361.29	122.84	36.503		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,870.00	7,983.93	7,826.22	168.13	34.40	89.47	-4,897.97	1,060.93	4,556.31	4,433.98	122.33	37.246	
19,300.00	7,870.00	7,982.43	7,824.73	169.75	34.40	89.45	-4,898.00	1,060.93	4,629.53	4,507.69	121.84	37.998	
19,383.51	7,870.00	7,981.19	7,823.48	171.10	34.39	89.42	-4,898.01	1,060.92	4,691.43	4,570.00	121.43	38.634	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	135.24	-2,139.01	2,121.20	3,012.85					
100.00	100.00	52.21	52.21	0.13	0.08	135.24	-2,138.95	2,121.25	3,012.44	3,012.22	0.22	N/A		
200.00	200.00	158.42	158.42	0.49	0.37	135.23	-2,138.54	2,121.48	3,012.33	3,011.47	0.86	3,499.978		
300.00	300.00	258.00	258.00	0.85	0.72	135.23	-2,138.22	2,121.39	3,012.03	3,010.46	1.57	1,920.524		
400.00	400.00	353.44	353.44	1.21	1.05	135.23	-2,138.32	2,121.09	3,011.88	3,009.63	2.26	1,334.461		
500.00	500.00	453.94	453.94	1.57	1.40	135.24	-2,138.52	2,120.80	3,011.82	3,008.86	2.97	1,015.579		
600.00	600.00	555.70	555.69	1.93	1.76	135.25	-2,138.92	2,120.20	3,011.68	3,008.00	3.68	817.728		
700.00	699.98	657.69	657.68	2.28	2.12	71.49	-2,139.35	2,119.51	3,010.95	3,006.55	4.40	684.445		
800.00	799.84	767.59	767.57	2.64	2.51	71.66	-2,139.85	2,118.46	3,008.95	3,003.81	5.14	584.925		
900.00	899.45	869.94	869.92	3.00	2.88	71.91	-2,140.30	2,117.04	3,005.56	2,999.69	5.87	511.981		
1,000.00	998.70	957.74	957.71	3.37	3.19	72.21	-2,140.84	2,115.84	3,001.27	2,994.71	6.56	457.800		
1,100.00	1,097.47	1,047.27	1,047.23	3.76	3.51	72.58	-2,141.76	2,114.82	2,996.42	2,989.16	7.26	412.521		
1,200.00	1,195.62	1,151.16	1,151.10	4.18	3.88	73.09	-2,142.95	2,113.60	2,990.71	2,982.67	8.05	371.723		
1,300.00	1,293.06	1,255.04	1,254.96	4.63	4.25	73.68	-2,143.93	2,112.07	2,983.80	2,974.94	8.86	336.902		
1,400.00	1,389.64	1,350.56	1,350.46	5.11	4.60	74.32	-2,144.96	2,110.47	2,976.07	2,966.40	9.67	307.683		
1,500.00	1,485.27	1,446.70	1,446.58	5.63	4.94	75.05	-2,146.04	2,108.81	2,967.69	2,957.16	10.53	281.795		
1,600.00	1,579.82	1,541.35	1,541.22	6.20	5.28	75.84	-2,147.08	2,107.11	2,958.68	2,947.24	11.43	258.821		
1,700.00	1,673.17	1,632.03	1,631.87	6.83	5.61	76.67	-2,148.16	2,105.44	2,949.27	2,936.90	12.37	238.441		
1,800.00	1,765.21	1,722.73	1,722.55	7.51	5.94	77.57	-2,149.24	2,103.86	2,939.61	2,926.24	13.36	219.971		
1,900.00	1,855.84	1,816.40	1,816.20	8.24	6.27	78.56	-2,150.27	2,102.24	2,929.73	2,915.30	14.43	203.026		
2,000.00	1,944.94	1,914.94	1,914.72	9.05	6.63	79.66	-2,151.09	2,100.43	2,919.61	2,904.03	15.58	187.399		
2,100.00	2,032.39	2,007.38	2,007.14	9.91	6.96	80.76	-2,151.59	2,098.69	2,909.41	2,892.64	16.78	173.429		
2,200.00	2,118.11	2,094.10	2,093.85	10.85	7.27	81.86	-2,151.90	2,097.07	2,899.42	2,881.39	18.02	160.872		
2,300.00	2,201.97	2,181.81	2,181.54	11.85	7.59	83.02	-2,152.04	2,095.50	2,889.82	2,870.47	19.35	149.369		
2,400.00	2,283.88	2,270.56	2,270.28	12.93	7.90	84.22	-2,151.86	2,094.02	2,880.73	2,859.98	20.75	138.846		
2,429.47	2,307.63	2,296.54	2,296.26	13.26	8.00	84.59	-2,151.75	2,093.60	2,878.16	2,856.99	21.17	135.934		
2,500.00	2,364.26	2,347.85	2,347.56	14.06	8.18	85.20	-2,151.52	2,092.80	2,872.45	2,850.28	22.17	129.571		
2,600.00	2,444.56	2,420.93	2,420.63	15.22	8.44	86.09	-2,151.32	2,091.76	2,865.59	2,841.99	23.60	121.420		
2,700.00	2,524.85	2,497.05	2,496.74	16.39	8.71	87.01	-2,151.25	2,090.68	2,860.12	2,835.06	25.06	114.137		
2,800.00	2,605.14	2,609.05	2,608.72	17.57	9.11	88.37	-2,150.75	2,088.69	2,855.55	2,828.90	26.65	107.144		
2,900.00	2,685.43	2,689.33	2,688.98	18.76	9.40	89.35	-2,150.03	2,086.98	2,851.81	2,823.67	28.14	101.343		
3,000.00	2,765.73	2,808.36	2,807.96	19.96	9.82	90.80	-2,148.12	2,084.28	2,848.84	2,819.08	29.76	95.725		
3,100.00	2,846.02	2,884.85	2,884.41	21.16	10.09	91.74	-2,146.47	2,082.30	2,846.62	2,815.38	31.24	91.122		
3,198.40	2,925.02	2,952.43	2,951.96	22.35	10.33	92.57	-2,145.14	2,080.47	2,845.82	2,813.15	32.67	87.112		
3,200.00	2,926.31	2,953.50	2,953.02	22.37	10.33	92.58	-2,145.12	2,080.45	2,845.82	2,813.13	32.69	87.050		
3,300.00	3,006.60	3,023.14	3,022.64	23.59	10.58	93.43	-2,143.96	2,078.88	2,846.66	2,812.52	34.14	83.376		
3,400.00	3,086.90	3,100.87	3,100.34	24.81	10.85	94.37	-2,142.63	2,077.54	2,848.93	2,813.31	35.61	79.997		
3,500.00	3,167.19	3,169.83	3,169.29	26.03	11.09	95.20	-2,141.54	2,076.55	2,852.64	2,815.59	37.05	77.004		
3,600.00	3,247.48	3,238.36	3,237.81	27.25	11.33	96.03	-2,140.71	2,075.65	2,857.92	2,819.45	38.47	74.297		
3,700.00	3,327.77	3,306.85	3,306.29	28.48	11.58	96.85	-2,140.11	2,074.95	2,864.78	2,824.90	39.87	71.844		
3,800.00	3,408.07	3,377.34	3,376.77	29.71	11.82	97.69	-2,139.68	2,074.45	2,873.16	2,831.88	41.28	69.607		
3,900.00	3,488.36	3,453.29	3,452.73	30.94	12.09	98.59	-2,139.38	2,074.10	2,882.98	2,840.29	42.69	67.540		
4,000.00	3,568.65	3,532.22	3,531.66	32.17	12.37	99.53	-2,139.13	2,073.74	2,894.05	2,849.96	44.09	65.640		
4,100.00	3,648.95	3,611.98	3,611.42	33.41	12.66	100.46	-2,138.88	2,073.38	2,906.34	2,860.86	45.48	63.902		
4,200.00	3,729.24	3,692.47	3,691.91	34.64	12.94	101.40	-2,138.63	2,073.04	2,919.79	2,872.94	46.86	62.312		
4,300.00	3,809.53	3,772.50	3,771.93	35.88	13.23	102.33	-2,138.37	2,072.75	2,934.40	2,886.19	48.21	60.861		
4,400.00	3,889.82	3,850.45	3,849.88	37.12	13.50	103.23	-2,138.13	2,072.49	2,950.18	2,900.63	49.54	59.546		
4,500.00	3,970.12	3,928.86	3,928.29	38.36	13.78	104.12	-2,137.97	2,072.27	2,967.14	2,916.29	50.86	58.342		
4,600.00	4,050.41	4,010.25	4,009.68	39.60	14.07	105.05	-2,137.83	2,071.80	2,985.21	2,933.05	52.16	57.229		
4,700.00	4,130.70	4,095.30	4,094.72	40.84	14.38	106.01	-2,137.61	2,071.08	3,004.28	2,950.82	53.46	56.194		
4,800.00	4,210.99	4,181.62	4,181.04	42.08	14.68	106.98	-2,137.26	2,070.04	3,024.27	2,969.53	54.75	55.241		
4,900.00	4,291.29	4,270.20	4,269.61	43.32	15.00	107.98	-2,136.71	2,068.66	3,045.14	2,989.12	56.02	54.361		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,371.58	4,353.85	4,353.24	44.57	15.30	108.91	-2,135.98	2,067.33	3,066.86	3,009.61	57.25	53.573		
5,100.00	4,451.87	4,431.88	4,431.26	45.81	15.58	109.77	-2,135.28	2,066.01	3,089.58	3,031.15	58.43	52.875		
5,200.00	4,532.16	4,508.15	4,507.51	47.05	15.85	110.60	-2,134.71	2,064.53	3,113.42	3,053.83	59.59	52.250		
5,300.00	4,612.46	4,607.79	4,607.12	48.30	16.21	111.68	-2,133.66	2,062.16	3,138.02	3,077.20	60.81	51.600		
5,400.00	4,692.75	4,684.70	4,684.00	49.54	16.49	112.51	-2,132.65	2,060.16	3,163.40	3,101.47	61.93	51.082		
5,500.00	4,773.04	4,761.50	4,760.76	50.79	16.76	113.33	-2,131.68	2,058.15	3,189.77	3,126.76	63.02	50.616		
5,600.00	4,853.34	4,840.79	4,840.02	52.03	17.05	114.17	-2,130.72	2,056.14	3,217.15	3,153.05	64.10	50.190		
5,700.00	4,933.63	4,921.23	4,920.43	53.28	17.34	115.01	-2,129.71	2,054.18	3,245.38	3,180.22	65.16	49.803		
5,800.00	5,013.92	4,996.77	4,995.95	54.53	17.61	115.78	-2,128.81	2,052.39	3,274.56	3,208.37	66.19	49.474		
5,900.00	5,094.21	5,077.42	5,076.56	55.77	17.90	116.60	-2,127.88	2,050.52	3,304.63	3,237.42	67.21	49.166		
6,000.00	5,174.51	5,157.06	5,156.19	57.02	18.18	117.40	-2,126.94	2,048.72	3,335.52	3,267.30	68.22	48.896		
6,100.00	5,254.80	5,252.33	5,251.42	58.27	18.52	118.33	-2,125.72	2,046.68	3,367.14	3,297.87	69.27	48.611		
6,200.00	5,335.09	5,349.81	5,348.88	59.52	18.87	119.27	-2,123.85	2,045.15	3,398.96	3,328.65	70.31	48.343		
6,300.00	5,415.38	5,434.72	5,433.75	60.76	19.17	120.07	-2,122.06	2,044.16	3,431.35	3,360.07	71.28	48.138		
6,400.00	5,495.68	5,518.00	5,517.01	62.01	19.46	120.84	-2,120.26	2,043.51	3,464.36	3,392.13	72.23	47.963		
6,500.00	5,575.97	5,596.55	5,595.55	63.26	19.74	121.55	-2,118.61	2,043.19	3,498.08	3,424.93	73.14	47.825		
6,600.00	5,656.26	5,673.94	5,672.93	64.51	20.00	122.23	-2,117.07	2,043.04	3,532.52	3,458.48	74.04	47.713		
6,700.00	5,736.55	5,750.45	5,749.42	65.76	20.27	122.90	-2,115.64	2,042.92	3,567.69	3,492.78	74.91	47.625		
6,800.00	5,816.85	5,828.03	5,826.98	67.01	20.54	123.57	-2,114.29	2,042.80	3,603.58	3,527.80	75.78	47.556		
6,900.00	5,897.14	5,908.48	5,907.42	68.26	20.82	124.25	-2,112.91	2,042.69	3,640.10	3,563.46	76.64	47.496		
7,000.00	5,977.43	5,987.24	5,986.17	69.50	21.10	124.91	-2,111.59	2,042.59	3,677.23	3,599.75	77.48	47.459		
7,100.00	6,057.72	6,062.70	6,061.63	70.75	21.36	125.53	-2,110.39	2,042.48	3,715.01	3,636.71	78.30	47.447		
7,200.00	6,138.02	6,143.89	6,142.80	72.00	21.64	126.19	-2,109.19	2,042.37	3,753.42	3,674.30	79.13	47.435		
7,300.00	6,218.31	6,232.22	6,231.12	73.25	21.95	126.90	-2,107.74	2,042.21	3,792.26	3,712.28	79.98	47.415		
7,400.00	6,298.60	6,315.80	6,314.69	74.50	22.24	127.55	-2,106.18	2,042.02	3,831.44	3,750.65	80.80	47.421		
7,500.00	6,378.90	6,380.43	6,379.31	75.75	22.47	128.05	-2,105.14	2,041.92	3,871.32	3,789.81	81.51	47.493		
7,600.00	6,459.19	6,454.51	6,453.39	77.00	22.73	128.62	-2,104.22	2,041.84	3,911.95	3,829.68	82.27	47.553		
7,700.00	6,539.48	6,533.05	6,531.92	78.25	23.00	129.20	-2,103.29	2,041.73	3,953.11	3,870.08	83.03	47.611		
7,800.00	6,619.77	6,611.41	6,610.28	79.50	23.28	129.78	-2,102.39	2,041.59	3,994.76	3,910.97	83.78	47.679		
7,900.00	6,700.07	6,686.20	6,685.06	80.75	23.54	130.32	-2,101.62	2,041.46	4,036.93	3,952.42	84.51	47.768		
8,000.00	6,780.36	6,765.20	6,764.06	82.00	23.82	130.89	-2,100.94	2,041.48	4,079.62	3,994.37	85.25	47.855		
8,100.00	6,860.65	6,861.17	6,860.02	83.25	24.15	131.55	-2,100.20	2,042.00	4,122.63	4,036.56	86.07	47.898		
8,200.00	6,940.94	6,953.42	6,952.26	84.50	24.46	132.17	-2,099.13	2,042.74	4,165.65	4,078.78	86.86	47.956		
8,300.00	7,021.24	7,038.38	7,037.21	85.76	24.75	132.73	-2,098.07	2,043.48	4,208.96	4,121.35	87.61	48.040		
8,400.00	7,101.53	7,124.59	7,123.41	87.01	25.05	133.30	-2,096.91	2,044.32	4,252.54	4,164.17	88.37	48.124		
8,500.00	7,181.82	7,209.53	7,208.33	88.26	25.34	133.84	-2,095.71	2,045.18	4,296.40	4,207.29	89.10	48.218		
8,605.60	7,266.61	7,311.35	7,310.13	89.58	25.69	134.48	-2,094.07	2,046.33	4,342.90	4,252.96	89.94	48.286		
8,650.00	7,302.60	7,363.52	7,362.30	90.13	25.87	128.23	-2,093.07	2,047.04	4,360.98	4,270.64	90.34	48.271		
8,700.00	7,343.78	7,412.87	7,411.63	90.72	26.04	120.79	-2,091.98	2,047.80	4,377.76	4,287.01	90.75	48.237		
8,750.00	7,385.32	7,446.11	7,444.85	91.28	26.15	113.07	-2,091.27	2,048.30	4,390.84	4,299.75	91.09	48.205		
8,800.00	7,426.92	7,479.27	7,478.00	91.81	26.26	105.46	-2,090.61	2,048.75	4,400.18	4,308.77	91.42	48.132		
8,850.00	7,468.27	7,514.21	7,512.93	92.29	26.38	98.26	-2,089.98	2,049.19	4,405.76	4,314.01	91.75	48.017		
8,900.00	7,509.04	7,552.03	7,550.75	92.72	26.51	91.74	-2,089.30	2,049.61	4,407.51	4,315.42	92.10	47.858		
8,950.00	7,548.93	7,588.88	7,587.59	93.10	26.64	86.02	-2,088.63	2,049.94	4,405.44	4,313.02	92.42	47.668		
9,000.00	7,587.63	7,624.66	7,623.37	93.43	26.77	81.19	-2,087.99	2,050.22	4,399.58	4,306.86	92.72	47.450		
9,050.00	7,624.85	7,659.10	7,657.80	93.71	26.89	77.25	-2,087.39	2,050.49	4,390.00	4,297.00	93.00	47.205		
9,100.00	7,660.30	7,691.86	7,690.55	93.93	27.00	74.15	-2,086.85	2,050.75	4,376.78	4,283.54	93.25	46.936		
9,150.00	7,693.72	7,715.00	7,713.50	94.10	32.13	74.57	-2,074.77	2,056.71	4,359.49	4,260.75	98.74	44.152		
9,200.00	7,724.85	8,035.69	8,033.81	94.23	28.19	73.51	-2,071.09	2,058.86	4,337.41	4,242.36	95.05	45.632		
9,250.00	7,753.45	8,059.44	8,057.48	94.30	28.27	72.93	-2,069.44	2,059.92	4,312.27	4,217.06	95.21	45.292		
9,300.00	7,779.31	8,080.63	8,078.60	94.34	28.35	73.07	-2,067.99	2,060.87	4,284.26	4,188.92	95.34	44.939		
9,350.00	7,802.23	8,099.06	8,096.97	94.33	28.41	73.95	-2,066.75	2,061.71	4,253.59	4,158.16	95.43	44.572		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,100.00	8,097.91	94.28	28.41	75.35	-2,066.69	2,061.76	4,220.51	4,125.09	95.43	44.227		
9,450.00	7,838.57	8,100.00	8,097.91	94.20	28.41	77.55	-2,066.69	2,061.76	4,185.28	4,089.87	95.41	43.868		
9,500.00	7,851.72	8,100.00	8,097.91	94.10	28.41	80.63	-2,066.69	2,061.76	4,148.09	4,052.72	95.37	43.495		
9,550.00	7,861.37	8,100.00	8,097.91	93.96	28.41	84.69	-2,066.69	2,061.76	4,109.20	4,013.87	95.32	43.107		
9,600.00	7,867.46	8,100.00	8,097.91	93.81	28.41	89.83	-2,066.69	2,061.76	4,068.84	3,973.57	95.27	42.707		
9,650.00	7,869.94	8,100.00	8,097.91	93.64	28.41	96.11	-2,066.69	2,061.76	4,027.30	3,932.07	95.22	42.294		
9,659.14	7,870.00	8,100.00	8,097.91	93.60	28.41	97.38	-2,066.69	2,061.76	4,019.60	3,924.38	95.21	42.216		
9,700.00	7,870.00	8,100.00	8,097.91	93.46	28.41	97.38	-2,066.69	2,061.76	3,985.16	3,889.99	95.17	41.873		
9,800.00	7,870.00	8,100.00	8,097.91	93.11	28.41	97.38	-2,066.69	2,061.76	3,901.41	3,806.34	95.07	41.039		
9,900.00	7,870.00	8,100.00	8,097.91	92.77	28.41	97.38	-2,066.69	2,061.76	3,818.44	3,723.48	94.96	40.211		
10,000.00	7,870.00	8,100.00	8,097.91	92.46	28.41	97.38	-2,066.69	2,061.76	3,736.31	3,641.46	94.85	39.392		
10,100.00	7,870.00	8,100.00	8,097.91	92.16	28.41	97.38	-2,066.69	2,061.76	3,655.06	3,560.33	94.74	38.581		
10,200.00	7,870.00	8,100.00	8,097.91	91.87	28.41	97.38	-2,066.69	2,061.76	3,574.77	3,480.15	94.62	37.780		
10,300.00	7,870.00	8,105.57	8,103.45	91.60	28.43	97.53	-2,066.32	2,062.01	3,495.49	3,400.95	94.54	36.975		
10,400.00	7,870.00	8,099.33	8,097.24	91.34	28.41	97.37	-2,066.73	2,061.73	3,417.31	3,322.93	94.38	36.208		
10,500.00	7,870.00	8,093.04	8,090.97	91.11	28.39	97.20	-2,067.16	2,061.44	3,340.27	3,246.06	94.22	35.452		
10,600.00	7,870.00	8,086.69	8,084.64	90.88	28.37	97.03	-2,067.58	2,061.15	3,264.47	3,170.42	94.05	34.709		
10,700.00	7,870.00	8,080.28	8,078.25	90.67	28.34	96.86	-2,068.02	2,060.85	3,190.00	3,096.11	93.88	33.978		
10,800.00	7,870.00	8,073.81	8,071.80	90.48	28.32	96.69	-2,068.46	2,060.56	3,116.93	3,023.22	93.71	33.261		
10,900.00	7,870.00	8,067.27	8,065.28	90.31	28.30	96.52	-2,068.90	2,060.27	3,045.38	2,951.85	93.53	32.559		
11,000.00	7,870.00	8,060.67	8,058.71	90.15	28.28	96.34	-2,069.35	2,059.97	2,975.46	2,882.11	93.35	31.873		
11,100.00	7,870.00	8,054.01	8,052.06	90.00	28.25	96.17	-2,069.81	2,059.67	2,907.28	2,814.11	93.17	31.203		
11,200.00	7,870.00	8,047.28	8,045.36	89.88	28.23	95.99	-2,070.28	2,059.37	2,840.97	2,747.98	92.99	30.552		
11,300.00	7,870.00	8,040.48	8,038.59	89.77	28.21	95.81	-2,070.75	2,059.07	2,776.66	2,683.86	92.81	29.919		
11,400.00	7,870.00	8,033.62	8,031.75	89.68	28.18	95.63	-2,071.23	2,058.77	2,714.49	2,621.87	92.62	29.307		
11,500.00	7,870.00	8,026.69	8,024.84	89.60	28.16	95.44	-2,071.72	2,058.47	2,654.62	2,562.18	92.44	28.716		
11,600.00	7,870.00	8,019.69	8,017.87	89.55	28.14	95.26	-2,072.21	2,058.16	2,597.20	2,504.93	92.27	28.148		
11,700.00	7,870.00	8,012.62	8,010.82	89.52	28.11	95.07	-2,072.72	2,057.85	2,542.40	2,450.30	92.10	27.604		
11,800.00	7,870.00	8,009.07	8,007.28	89.50	28.10	94.97	-2,072.96	2,057.70	2,490.39	2,398.41	91.98	27.075		
11,900.00	7,870.00	7,997.17	7,995.43	89.51	28.06	94.66	-2,073.82	2,057.19	2,441.35	2,349.56	91.79	26.598		
12,000.00	7,870.00	7,985.53	7,983.82	89.54	28.02	94.35	-2,074.65	2,056.70	2,395.45	2,303.84	91.61	26.149		
12,100.00	7,870.00	7,974.13	7,972.46	89.59	27.98	94.04	-2,075.45	2,056.25	2,352.87	2,261.42	91.45	25.728		
12,200.00	7,870.00	7,962.97	7,961.34	89.66	27.94	93.75	-2,076.23	2,055.82	2,313.79	2,222.48	91.31	25.339		
12,300.00	7,870.00	7,952.05	7,950.45	89.77	27.90	93.46	-2,076.99	2,055.42	2,278.41	2,187.21	91.20	24.982		
12,400.00	7,870.00	7,941.35	7,939.78	89.89	27.86	93.17	-2,077.72	2,055.04	2,246.89	2,155.77	91.12	24.658		
12,500.00	7,870.00	7,930.86	7,929.33	90.05	27.83	92.89	-2,078.43	2,054.69	2,219.40	2,128.32	91.07	24.369		
12,600.00	7,870.00	7,920.59	7,919.08	90.24	27.79	92.62	-2,079.11	2,054.36	2,196.09	2,105.03	91.06	24.116		
12,700.00	7,870.00	7,914.77	7,913.28	90.46	27.77	92.46	-2,079.46	2,054.18	2,177.09	2,085.94	91.15	23.886		
12,800.00	7,870.00	7,900.85	7,899.39	90.71	27.72	92.09	-2,080.42	2,053.76	2,162.54	2,071.38	91.16	23.722		
12,900.00	7,870.00	7,889.10	7,887.67	90.99	27.68	91.78	-2,081.16	2,053.44	2,152.49	2,061.26	91.24	23.592		
13,000.00	7,870.00	7,879.04	7,877.63	91.32	27.65	91.51	-2,081.74	2,053.18	2,147.04	2,055.66	91.38	23.496		
13,067.92	7,870.00	7,873.00	7,871.60	91.56	27.63	91.35	-2,082.07	2,053.04	2,145.97	2,054.46	91.50	23.452 CC, ES		
13,100.00	7,870.00	7,870.34	7,868.95	91.68	27.62	91.28	-2,082.21	2,052.97	2,146.21	2,054.64	91.57	23.438		
13,200.00	7,870.00	7,862.74	7,861.36	92.08	27.59	91.08	-2,082.60	2,052.80	2,150.01	2,058.20	91.81	23.419 SF		
13,300.00	7,870.00	7,856.04	7,854.67	92.52	27.57	90.90	-2,082.92	2,052.66	2,158.43	2,066.34	92.09	23.439		
13,400.00	7,870.00	7,850.09	7,848.73	93.00	27.55	90.74	-2,083.19	2,052.54	2,171.42	2,079.02	92.40	23.500		
13,500.00	7,870.00	7,844.77	7,843.41	93.53	27.53	90.60	-2,083.41	2,052.44	2,188.89	2,096.14	92.74	23.602		
13,600.00	7,870.00	7,839.99	7,838.64	94.10	27.51	90.47	-2,083.60	2,052.35	2,210.73	2,117.63	93.10	23.745		
13,700.00	7,870.00	7,835.67	7,834.32	94.72	27.50	90.36	-2,083.77	2,052.27	2,236.84	2,143.36	93.48	23.930		
13,800.00	7,870.00	7,831.75	7,830.40	95.38	27.48	90.25	-2,083.91	2,052.21	2,267.05	2,173.19	93.86	24.155		
13,900.00	7,870.00	7,828.17	7,826.82	96.09	27.47	90.16	-2,084.04	2,052.15	2,301.20	2,206.97	94.24	24.419		
14,000.00	7,870.00	7,824.89	7,823.54	96.84	27.46	90.07	-2,084.15	2,052.10	2,339.13	2,244.52	94.61	24.723		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,821.87	7,820.53	97.64	27.45	89.99	-2,084.24	2,052.05	2,380.66	2,285.67	94.98	25.064		
14,200.00	7,870.00	7,819.09	7,817.75	98.48	27.44	89.91	-2,084.33	2,052.01	2,425.59	2,330.25	95.34	25.440		
14,300.00	7,870.00	7,816.51	7,815.17	99.37	27.43	89.84	-2,084.40	2,051.97	2,473.76	2,378.07	95.69	25.852		
14,400.00	7,870.00	7,814.12	7,812.78	100.30	27.42	89.78	-2,084.47	2,051.94	2,524.96	2,428.94	96.02	26.296		
14,500.00	7,870.00	7,811.90	7,810.56	101.26	27.42	89.72	-2,084.53	2,051.91	2,579.02	2,482.68	96.34	26.771		
14,600.00	7,870.00	7,809.82	7,808.49	102.27	27.41	89.67	-2,084.59	2,051.88	2,635.76	2,539.13	96.63	27.276		
14,700.00	7,870.00	7,807.88	7,806.55	103.31	27.40	89.61	-2,084.64	2,051.86	2,695.03	2,598.11	96.91	27.809		
14,800.00	7,870.00	7,808.18	7,806.85	104.38	27.40	89.62	-2,084.64	2,051.86	2,756.64	2,659.44	97.19	28.363		
14,900.00	7,870.00	7,806.03	7,804.70	105.49	27.40	89.56	-2,084.69	2,051.83	2,820.45	2,723.02	97.43	28.947		
15,000.00	7,870.00	7,803.90	7,802.57	106.63	27.39	89.51	-2,084.74	2,051.81	2,886.32	2,788.66	97.66	29.555		
15,100.00	7,870.00	7,801.80	7,800.46	107.80	27.38	89.45	-2,084.78	2,051.78	2,954.10	2,856.23	97.87	30.185		
15,200.00	7,870.00	7,799.71	7,798.38	109.00	27.37	89.40	-2,084.83	2,051.76	3,023.67	2,925.61	98.06	30.835		
15,300.00	7,870.00	7,797.65	7,796.32	110.22	27.37	89.34	-2,084.87	2,051.74	3,094.90	2,996.66	98.24	31.503		
15,400.00	7,870.00	7,795.61	7,794.28	111.47	27.36	89.29	-2,084.92	2,051.72	3,167.69	3,069.29	98.41	32.190		
15,500.00	7,870.00	7,793.59	7,792.26	112.74	27.35	89.23	-2,084.96	2,051.69	3,241.93	3,143.37	98.56	32.892		
15,600.00	7,870.00	7,791.60	7,790.27	114.03	27.35	89.18	-2,085.00	2,051.67	3,317.52	3,218.82	98.70	33.611		
15,700.00	7,870.00	7,789.62	7,788.29	115.34	27.34	89.13	-2,085.04	2,051.65	3,394.38	3,295.54	98.84	34.343		
15,800.00	7,870.00	7,787.66	7,786.34	116.68	27.33	89.07	-2,085.09	2,051.63	3,472.41	3,373.45	98.96	35.089		
15,900.00	7,870.00	7,785.73	7,784.40	118.02	27.32	89.02	-2,085.13	2,051.61	3,551.54	3,452.46	99.07	35.848		
16,000.00	7,870.00	7,783.81	7,782.49	119.39	27.32	88.97	-2,085.17	2,051.59	3,631.70	3,532.52	99.18	36.618		
16,100.00	7,870.00	7,781.92	7,780.59	120.77	27.31	88.92	-2,085.21	2,051.57	3,712.82	3,613.54	99.28	37.399		
16,200.00	7,870.00	7,780.04	7,778.71	122.17	27.31	88.87	-2,085.24	2,051.55	3,794.84	3,695.47	99.37	38.190		
16,300.00	7,870.00	7,778.18	7,776.85	123.58	27.30	88.82	-2,085.28	2,051.53	3,877.70	3,778.25	99.45	38.990		
16,400.00	7,870.00	7,776.34	7,775.02	125.00	27.29	88.77	-2,085.32	2,051.51	3,961.35	3,861.82	99.53	39.800		
16,500.00	7,870.00	7,774.52	7,773.20	126.43	27.29	88.72	-2,085.36	2,051.49	4,045.75	3,946.14	99.61	40.617		
16,600.00	7,870.00	7,772.72	7,771.39	127.88	27.28	88.68	-2,085.39	2,051.47	4,130.84	4,031.16	99.68	41.443		
16,700.00	7,870.00	7,770.93	7,769.61	129.34	27.27	88.63	-2,085.43	2,051.45	4,216.59	4,116.84	99.74	42.275		
16,800.00	7,870.00	7,769.16	7,767.84	130.81	27.27	88.58	-2,085.47	2,051.44	4,302.95	4,203.14	99.80	43.114		
16,900.00	7,870.00	7,767.41	7,766.09	132.28	27.26	88.53	-2,085.50	2,051.42	4,389.88	4,290.02	99.86	43.960		
17,000.00	7,870.00	7,765.68	7,764.36	133.77	27.26	88.49	-2,085.53	2,051.40	4,477.36	4,377.45	99.92	44.812		
17,100.00	7,870.00	7,763.96	7,762.64	135.27	27.25	88.44	-2,085.57	2,051.38	4,565.36	4,465.39	99.97	45.669		
17,200.00	7,870.00	7,762.26	7,760.94	136.77	27.24	88.40	-2,085.60	2,051.37	4,653.84	4,553.82	100.02	46.531		
17,300.00	7,870.00	7,760.58	7,759.26	138.28	27.24	88.35	-2,085.63	2,051.35	4,742.78	4,642.71	100.06	47.398		
17,400.00	7,870.00	7,758.91	7,757.59	139.80	27.23	88.31	-2,085.67	2,051.33	4,832.15	4,732.04	100.11	48.270		
17,500.00	7,870.00	7,757.26	7,755.94	141.33	27.23	88.26	-2,085.70	2,051.32	4,921.92	4,821.77	100.15	49.145		
17,600.00	7,870.00	7,755.62	7,754.30	142.86	27.22	88.22	-2,085.73	2,051.30	5,012.09	4,911.90	100.19	50.025		
17,700.00	7,870.00	7,754.00	7,752.68	144.40	27.21	88.18	-2,085.76	2,051.29	5,102.62	5,002.39	100.23	50.909		
17,800.00	7,870.00	7,752.40	7,751.08	145.95	27.21	88.13	-2,085.79	2,051.27	5,193.49	5,093.22	100.27	51.796		
17,900.00	7,870.00	7,750.81	7,749.49	147.50	27.20	88.09	-2,085.82	2,051.26	5,284.70	5,184.39	100.30	52.686		
18,000.00	7,870.00	7,749.23	7,747.91	149.06	27.20	88.05	-2,085.85	2,051.24	5,376.22	5,275.88	100.34	53.580		
18,100.00	7,870.00	7,747.67	7,746.35	150.63	27.19	88.01	-2,085.88	2,051.23	5,468.03	5,367.65	100.37	54.476		
18,200.00	7,870.00	7,746.12	7,744.81	152.20	27.19	87.97	-2,085.91	2,051.21	5,560.13	5,459.72	100.41	55.375		
18,300.00	7,870.00	7,744.59	7,743.27	153.77	27.18	87.93	-2,085.94	2,051.20	5,652.49	5,552.05	100.44	56.277		
18,400.00	7,870.00	7,743.07	7,741.76	155.35	27.18	87.89	-2,085.97	2,051.18	5,745.11	5,644.64	100.47	57.180		
18,500.00	7,870.00	7,741.57	7,740.25	156.93	27.17	87.85	-2,086.00	2,051.17	5,837.97	5,737.47	100.50	58.086		
18,600.00	7,870.00	7,740.08	7,738.76	158.52	27.17	87.81	-2,086.02	2,051.16	5,931.07	5,830.53	100.54	58.995		
18,700.00	7,870.00	7,738.60	7,737.28	160.11	27.16	87.77	-2,086.05	2,051.14	6,024.38	5,923.81	100.57	59.905		
18,800.00	7,870.00	7,737.13	7,735.82	161.71	27.16	87.73	-2,086.08	2,051.13	6,117.91	6,017.31	100.60	60.816		
18,900.00	7,870.00	7,735.68	7,734.37	163.31	27.15	87.69	-2,086.10	2,051.12	6,211.63	6,111.01	100.63	61.730		
19,000.00	7,870.00	7,734.24	7,732.93	164.91	27.15	87.65	-2,086.13	2,051.10	6,305.55	6,204.90	100.66	62.645		
19,100.00	7,870.00	7,732.82	7,731.50	166.52	27.14	87.61	-2,086.16	2,051.09	6,399.66	6,298.97	100.68	63.561		
19,200.00	7,870.00	7,731.40	7,730.09	168.13	27.14	87.58	-2,086.18	2,051.08	6,493.94	6,393.22	100.71	64.479		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	7,730.00	7,728.69	169.75	27.13	87.54	-2,086.21	2,051.06	6,588.38	6,487.64	100.74	65.398	
19,383.51	7,870.00	7,728.84	7,727.53	171.10	27.13	87.51	-2,086.23	2,051.05	6,667.38	6,566.61	100.77	66.166	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	69.88	765.09	2,088.76	2,224.85					
100.00	100.00	81.42	81.42	0.13	0.13	69.88	765.06	2,088.33	2,224.17	2,223.91	0.26	8,426.383		
200.00	200.00	231.22	231.18	0.49	0.64	69.83	765.71	2,085.03	2,222.36	2,221.22	1.14	1,955.444		
300.00	300.00	479.30	478.35	0.85	1.58	69.54	770.55	2,065.42	2,215.37	2,212.94	2.42	914.625		
400.00	400.00	627.45	624.85	1.21	2.20	69.16	778.22	2,044.89	2,204.06	2,200.71	3.35	658.703		
500.00	500.00	732.83	728.38	1.57	2.67	68.77	787.55	2,027.65	2,191.84	2,187.71	4.13	531.184		
600.00	600.00	817.26	810.97	1.93	3.07	68.39	797.39	2,013.14	2,179.92	2,175.07	4.84	449.972		
700.00	699.98	896.58	888.24	2.28	3.45	4.18	808.76	1,999.30	2,167.11	2,161.54	5.56	389.687		
800.00	799.84	972.39	961.80	2.64	3.83	3.76	821.44	1,986.10	2,151.90	2,145.62	6.28	342.549		
900.00	899.45	1,076.87	1,062.74	3.00	4.38	3.10	841.26	1,967.75	2,134.16	2,126.99	7.17	297.730		
1,000.00	998.70	1,172.28	1,154.85	3.37	4.89	2.50	858.96	1,950.28	2,112.42	2,104.40	8.02	263.393		
1,100.00	1,097.47	1,266.83	1,246.37	3.76	5.40	1.91	875.78	1,933.57	2,087.82	2,078.95	8.87	235.284		
1,200.00	1,195.62	1,365.74	1,341.57	4.18	5.95	1.21	895.23	1,915.09	2,059.91	2,050.13	9.78	210.719		
1,300.00	1,293.06	1,456.88	1,428.81	4.63	6.48	0.49	914.61	1,897.25	2,028.82	2,018.16	10.66	190.286		
1,400.00	1,389.64	1,544.51	1,512.52	5.11	7.00	-0.27	933.90	1,879.89	1,994.85	1,983.31	11.55	172.788		
1,500.00	1,485.27	1,626.44	1,590.80	5.63	7.49	-1.01	951.97	1,863.84	1,958.17	1,945.77	12.40	157.882		
1,600.00	1,579.82	1,713.43	1,674.12	6.20	8.01	-1.84	970.75	1,847.31	1,918.92	1,905.63	13.29	144.361		
1,700.00	1,673.17	1,802.43	1,759.45	6.83	8.53	-2.73	989.59	1,830.44	1,876.71	1,862.51	14.20	132.191		
1,800.00	1,765.21	1,889.57	1,843.03	7.51	9.05	-3.68	1,007.89	1,813.94	1,831.69	1,816.59	15.10	121.323		
1,900.00	1,855.84	1,972.78	1,922.86	8.24	9.54	-4.68	1,025.27	1,798.12	1,783.85	1,767.87	15.98	111.619		
2,000.00	1,944.94	2,052.33	1,999.48	9.05	10.00	-5.69	1,041.03	1,783.71	1,733.60	1,716.75	16.85	102.906		
2,100.00	2,032.39	2,151.14	2,094.65	9.91	10.57	-7.06	1,060.26	1,765.36	1,680.31	1,662.50	17.81	94.327		
2,200.00	2,118.11	2,234.43	2,174.61	10.85	11.06	-8.44	1,076.89	1,749.02	1,624.07	1,605.34	18.73	86.720		
2,300.00	2,201.97	2,309.00	2,246.10	11.85	11.51	-9.86	1,092.00	1,734.10	1,565.37	1,545.75	19.62	79.792		
2,400.00	2,283.88	2,382.23	2,316.32	12.93	11.95	-11.46	1,106.75	1,719.50	1,504.48	1,483.96	20.52	73.324		
2,429.47	2,307.63	2,403.47	2,336.71	13.26	12.08	-11.95	1,110.96	1,715.32	1,486.14	1,465.35	20.79	71.485		
2,500.00	2,364.26	2,451.95	2,383.30	14.06	12.37	-12.91	1,120.48	1,705.86	1,442.22	1,420.80	21.42	67.325		
2,600.00	2,444.56	2,519.40	2,448.15	15.22	12.76	-14.32	1,133.74	1,692.90	1,380.70	1,358.36	22.34	61.796		
2,700.00	2,524.85	2,583.50	2,509.74	16.39	13.14	-15.76	1,146.66	1,680.72	1,320.31	1,297.02	23.30	56.678		
2,800.00	2,605.14	2,649.73	2,573.33	17.57	13.54	-17.36	1,160.43	1,668.29	1,261.24	1,236.92	24.31	51.875		
2,900.00	2,685.43	2,716.41	2,637.35	18.76	13.93	-19.07	1,174.43	1,656.04	1,203.52	1,178.13	25.39	47.397		
3,000.00	2,765.73	2,781.83	2,700.29	19.96	14.31	-20.86	1,188.12	1,644.62	1,147.44	1,120.92	26.53	43.256		
3,100.00	2,846.02	2,859.29	2,774.92	21.16	14.76	-23.10	1,204.19	1,631.49	1,092.87	1,065.08	27.80	39.314		
3,200.00	2,926.31	2,938.41	2,851.16	22.37	15.22	-25.59	1,220.33	1,617.79	1,039.45	1,010.28	29.17	35.630		
3,300.00	3,006.60	3,013.55	2,923.67	23.59	15.64	-28.13	1,235.16	1,604.82	987.46	956.83	30.63	32.242		
3,400.00	3,086.90	3,085.93	2,993.68	24.81	16.05	-30.73	1,249.13	1,592.89	937.57	905.40	32.17	29.143		
3,500.00	3,167.19	3,163.72	3,068.79	26.03	16.49	-33.77	1,264.32	1,579.53	889.85	855.96	33.89	26.259		
3,600.00	3,247.48	3,234.51	3,136.89	27.25	16.91	-36.81	1,278.59	1,566.50	844.83	809.11	35.72	23.651		
3,700.00	3,327.77	3,309.50	3,208.89	28.48	17.35	-40.29	1,294.03	1,552.32	803.31	765.58	37.73	21.291		
3,800.00	3,408.07	3,385.68	3,282.23	29.71	17.80	-44.02	1,309.07	1,538.16	765.24	725.38	39.86	19.197		
3,900.00	3,488.36	3,457.21	3,351.14	30.94	18.22	-47.72	1,323.07	1,525.09	731.65	689.61	42.04	17.405		
4,000.00	3,568.65	3,523.81	3,415.17	32.17	18.62	-51.35	1,336.52	1,512.63	703.55	659.35	44.20	15.916		
4,100.00	3,648.95	3,596.04	3,484.40	33.41	19.05	-55.48	1,351.62	1,498.63	681.75	635.33	46.42	14.687		
4,200.00	3,729.24	3,671.82	3,557.17	34.64	19.50	-59.93	1,367.11	1,484.23	666.14	617.56	48.58	13.713		
4,300.00	3,809.53	3,747.16	3,629.72	35.88	19.94	-64.40	1,382.14	1,470.59	657.01	606.46	50.56	12.996		
4,376.35	3,870.83	3,800.33	3,680.93	36.83	20.25	-67.58	1,392.78	1,461.03	654.83	602.97	51.85	12.629 CC		
4,400.00	3,889.82	3,816.75	3,696.73	37.12	20.35	-68.56	1,396.11	1,458.04	655.04	602.81	52.22	12.543 ES		
4,500.00	3,970.12	3,887.48	3,764.74	38.36	20.77	-72.79	1,410.56	1,445.05	660.52	606.87	53.65	12.311		
4,600.00	4,050.41	3,959.77	3,834.20	39.60	21.19	-77.05	1,425.47	1,431.70	673.14	618.29	54.85	12.272 SF		
4,700.00	4,130.70	4,035.18	3,906.69	40.84	21.64	-81.38	1,440.95	1,417.82	692.29	636.40	55.89	12.386		
4,800.00	4,210.99	4,116.66	3,985.22	42.08	22.11	-85.88	1,457.11	1,403.25	716.87	660.01	56.86	12.607		
4,900.00	4,291.29	4,184.31	4,050.43	43.32	22.51	-89.46	1,470.36	1,391.09	746.79	689.35	57.44	13.001		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,254.19	4,117.69	44.57	22.92	-93.00	1,484.15	1,378.12	781.96	724.00	57.96	13.491		
5,100.00	4,451.87	4,327.69	4,188.40	45.81	23.35	-96.53	1,498.57	1,364.18	821.56	763.07	58.49	14.047		
5,200.00	4,532.16	4,407.05	4,264.89	47.05	23.81	-100.11	1,513.53	1,349.20	864.44	805.36	59.08	14.631		
5,300.00	4,612.46	4,475.50	4,330.85	48.30	24.21	-102.96	1,526.89	1,336.70	910.50	851.03	59.47	15.311		
5,400.00	4,692.75	4,542.23	4,395.06	49.54	24.60	-105.54	1,540.38	1,324.57	959.53	899.70	59.83	16.038		
5,500.00	4,773.04	4,616.16	4,466.15	50.79	25.04	-108.24	1,554.90	1,310.34	1,011.26	950.94	60.32	16.764		
5,600.00	4,853.34	4,728.02	4,574.26	52.03	25.67	-112.01	1,575.07	1,289.98	1,063.91	1,002.43	61.48	17.305		
5,700.00	4,933.63	4,852.00	4,695.56	53.28	26.29	-115.82	1,593.14	1,271.85	1,114.41	1,051.71	62.70	17.775		
5,800.00	5,013.92	4,954.96	4,796.98	54.53	26.75	-118.75	1,605.42	1,259.03	1,164.30	1,100.79	63.51	18.333		
5,900.00	5,094.21	5,047.87	4,888.77	55.77	27.15	-121.18	1,615.68	1,248.98	1,214.26	1,150.08	64.18	18.921		
6,000.00	5,174.51	5,194.09	5,033.91	57.02	27.70	-124.72	1,628.61	1,237.13	1,263.01	1,197.68	65.33	19.332		
6,100.00	5,254.80	5,324.05	5,163.57	58.27	28.11	-127.67	1,635.15	1,231.67	1,308.95	1,242.81	66.14	19.791		
6,200.00	5,335.09	5,443.01	5,282.49	59.52	28.43	-130.26	1,637.45	1,229.50	1,353.63	1,286.88	66.74	20.281		
6,300.00	5,415.38	5,539.82	5,379.30	60.76	28.65	-132.27	1,637.54	1,229.21	1,397.92	1,330.76	67.16	20.814		
6,400.00	5,495.68	5,624.66	5,464.13	62.01	28.83	-133.94	1,637.50	1,229.58	1,442.72	1,375.20	67.52	21.367		
6,500.00	5,575.97	5,700.86	5,540.34	63.26	29.00	-135.35	1,637.48	1,229.96	1,488.49	1,420.65	67.84	21.940		
6,600.00	5,656.26	5,778.90	5,618.38	64.51	29.17	-136.74	1,637.33	1,230.14	1,535.36	1,467.20	68.17	22.523		
6,700.00	5,736.55	5,856.08	5,695.56	65.76	29.35	-138.05	1,637.24	1,230.22	1,583.21	1,514.71	68.49	23.115		
6,800.00	5,816.85	5,931.93	5,771.40	67.01	29.53	-139.27	1,637.22	1,230.12	1,632.02	1,563.20	68.82	23.714		
6,900.00	5,897.14	6,008.65	5,848.12	68.26	29.72	-140.44	1,637.48	1,229.83	1,681.76	1,612.60	69.17	24.315		
7,000.00	5,977.43	6,098.97	5,938.44	69.50	29.94	-141.74	1,637.84	1,229.71	1,731.95	1,662.35	69.60	24.883		
7,100.00	6,057.72	6,172.05	6,011.52	70.75	30.13	-142.73	1,638.25	1,229.65	1,782.68	1,712.73	69.95	25.487		
7,200.00	6,138.02	6,264.30	6,103.76	72.00	30.36	-143.91	1,639.08	1,229.68	1,833.89	1,763.46	70.42	26.041		
7,300.00	6,218.31	6,348.19	6,187.65	73.25	30.58	-144.93	1,640.02	1,230.17	1,885.11	1,814.25	70.86	26.604		
7,400.00	6,298.60	6,429.69	6,269.14	74.50	30.78	-145.86	1,640.96	1,230.69	1,936.73	1,865.44	71.29	27.168		
7,500.00	6,378.90	6,532.08	6,371.52	75.75	31.05	-146.97	1,642.22	1,231.70	1,988.51	1,916.64	71.86	27.670		
7,600.00	6,459.19	6,610.97	6,450.38	77.00	31.25	-147.76	1,643.94	1,233.26	2,039.81	1,967.51	72.31	28.209		
7,700.00	6,539.48	6,678.39	6,517.79	78.25	31.42	-148.43	1,644.56	1,234.04	2,092.08	2,019.41	72.67	28.790		
7,800.00	6,619.77	6,761.35	6,600.73	79.50	31.63	-149.20	1,645.92	1,234.81	2,144.86	2,071.71	73.15	29.323		
7,900.00	6,700.07	6,860.72	6,700.08	80.75	31.89	-150.11	1,646.75	1,236.24	2,197.52	2,123.79	73.73	29.806		
8,000.00	6,780.36	6,957.79	6,797.13	82.00	32.12	-150.97	1,646.71	1,238.39	2,249.85	2,175.57	74.27	30.292		
8,100.00	6,860.65	7,044.81	6,824.15	83.25	32.19	-151.20	1,646.77	1,238.53	2,303.35	2,228.98	74.37	30.971		
8,200.00	6,940.94	7,135.00	6,904.34	84.50	32.33	-151.61	1,647.01	1,237.99	2,358.66	2,284.04	74.62	31.610		
8,300.00	7,021.24	7,225.19	6,984.51	85.76	32.55	-152.24	1,647.69	1,236.60	2,414.88	2,339.77	75.11	32.152		
8,400.00	7,101.53	7,315.51	7,074.83	87.01	32.81	-152.94	1,648.48	1,235.87	2,470.53	2,394.82	75.71	32.632		
8,500.00	7,181.82	7,405.04	7,164.36	88.26	33.05	-153.58	1,648.97	1,235.52	2,526.10	2,449.83	76.27	33.123		
8,605.60	7,266.61	7,497.28	7,256.59	89.58	33.33	-154.28	1,649.44	1,235.56	2,584.62	2,507.70	76.92	33.602		
8,650.00	7,302.60	7,547.77	7,297.08	90.13	33.43	-163.26	1,649.48	1,235.74	2,609.21	2,532.05	77.16	33.816		
8,700.00	7,343.78	7,598.15	7,338.46	90.72	33.53	-173.80	1,649.51	1,235.91	2,636.97	2,559.55	77.42	34.061		
8,750.00	7,385.32	7,649.20	7,389.51	91.28	33.63	-175.46	1,649.54	1,236.05	2,664.61	2,586.92	77.69	34.297		
8,800.00	7,426.92	7,699.75	7,439.06	91.81	33.74	-184.84	1,649.48	1,236.20	2,691.88	2,613.90	77.98	34.518		
8,850.00	7,468.27	7,750.09	7,489.40	92.29	33.85	-154.69	1,649.32	1,236.36	2,718.60	2,640.32	78.28	34.728		
8,900.00	7,509.04	7,798.62	7,537.92	92.72	33.95	-145.28	1,649.09	1,236.52	2,744.58	2,665.99	78.59	34.923		
8,950.00	7,548.93	7,847.32	7,586.63	93.10	34.06	-136.77	1,648.92	1,236.69	2,769.69	2,690.79	78.90	35.103		
9,000.00	7,587.63	7,895.98	7,635.29	93.43	34.16	-129.24	1,648.77	1,236.86	2,793.79	2,714.56	79.23	35.263		
9,050.00	7,624.85	7,944.18	7,684.48	93.71	34.26	-122.68	1,648.52	1,237.08	2,816.76	2,737.20	79.56	35.404		
9,100.00	7,660.30	7,992.70	7,733.00	93.93	34.36	-117.01	1,648.18	1,237.34	2,838.52	2,758.62	79.90	35.528		
9,150.00	7,693.72	8,041.87	7,782.17	94.10	34.44	-112.02	1,647.90	1,237.51	2,859.05	2,778.87	80.19	35.656		
9,200.00	7,724.85	8,089.91	7,831.21	94.23	34.51	-107.76	1,647.64	1,237.65	2,878.33	2,797.84	80.49	35.761		
9,250.00	7,753.45	8,137.67	7,879.96	94.30	34.57	-104.11	1,647.42	1,237.74	2,896.30	2,815.50	80.80	35.845		
9,300.00	7,779.31	8,185.55	7,927.85	94.34	34.64	-101.02	1,647.21	1,237.81	2,912.92	2,831.79	81.13	35.903		
9,350.00	7,802.23	8,233.34	8,000.63	94.33	34.70	-98.42	1,647.00	1,237.87	2,928.14	2,846.66	81.48	35.936		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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		
9,400.00	7,822.03	7,949.13	7,788.43	94.28	34.75	96.24	1,646.82	1,237.92	2,941.93	2,860.10	81.84	35.948		
9,450.00	7,838.57	7,965.78	7,805.07	94.20	34.79	94.42	1,646.66	1,237.95	2,954.28	2,872.08	82.21	35.937		
9,500.00	7,851.72	7,979.14	7,818.43	94.10	34.82	92.94	1,646.52	1,237.98	2,965.17	2,882.58	82.59	35.904		
9,550.00	7,861.37	7,989.40	7,828.69	93.96	34.85	91.77	1,646.42	1,238.00	2,974.57	2,891.59	82.98	35.847		
9,600.00	7,867.46	7,996.25	7,835.54	93.81	34.87	90.89	1,646.35	1,238.01	2,982.46	2,899.08	83.38	35.769		
9,650.00	7,869.94	7,999.35	7,838.64	93.64	34.88	90.27	1,646.32	1,238.02	2,988.82	2,905.03	83.79	35.670		
9,659.14	7,870.00	7,999.51	7,838.80	93.60	34.88	90.19	1,646.31	1,238.02	2,989.81	2,905.95	83.87	35.650		
9,700.00	7,870.00	7,999.94	7,839.23	93.46	34.88	90.20	1,646.31	1,238.02	2,994.42	2,910.21	84.20	35.561		
9,800.00	7,870.00	8,001.00	7,840.29	93.11	34.88	90.22	1,646.30	1,238.02	3,008.00	2,922.96	85.04	35.371		
9,900.00	7,870.00	8,002.06	7,841.35	92.77	34.88	90.24	1,646.29	1,238.03	3,024.83	2,938.95	85.88	35.223		
10,000.00	7,870.00	8,003.12	7,842.41	92.46	34.89	90.26	1,646.28	1,238.03	3,044.85	2,958.14	86.71	35.116		
10,100.00	7,870.00	8,004.18	7,843.47	92.16	34.89	90.28	1,646.27	1,238.03	3,068.01	2,980.48	87.53	35.050		
10,200.00	7,870.00	8,005.23	7,844.53	91.87	34.89	90.30	1,646.26	1,238.03	3,094.22	3,005.88	88.34	35.026		
10,300.00	7,870.00	8,006.29	7,845.58	91.60	34.89	90.32	1,646.25	1,238.04	3,123.42	3,034.29	89.13	35.044		
10,400.00	7,870.00	8,007.35	7,846.64	91.34	34.90	90.34	1,646.23	1,238.04	3,155.51	3,065.61	89.90	35.101		
10,500.00	7,870.00	8,008.40	7,847.69	91.11	34.90	90.36	1,646.22	1,238.04	3,190.42	3,099.78	90.64	35.198		
10,600.00	7,870.00	8,009.45	7,848.75	90.88	34.90	90.38	1,646.21	1,238.04	3,228.05	3,136.68	91.36	35.332		
10,700.00	7,870.00	8,010.51	7,849.80	90.67	34.91	90.40	1,646.20	1,238.05	3,268.30	3,176.25	92.06	35.504		
10,800.00	7,870.00	8,011.56	7,850.85	90.48	34.91	90.42	1,646.19	1,238.05	3,311.09	3,218.37	92.72	35.711		
10,900.00	7,870.00	8,012.61	7,851.90	90.31	34.91	90.44	1,646.18	1,238.05	3,356.31	3,262.96	93.35	35.952		
11,000.00	7,870.00	8,013.66	7,852.96	90.15	34.91	90.46	1,646.17	1,238.05	3,403.87	3,309.91	93.96	36.226		
11,100.00	7,870.00	8,014.72	7,854.01	90.00	34.92	90.48	1,646.16	1,238.06	3,453.67	3,359.13	94.54	36.532		
11,200.00	7,870.00	8,015.77	7,855.06	89.88	34.92	90.50	1,646.15	1,238.06	3,505.62	3,410.53	95.09	36.867		
11,300.00	7,870.00	8,016.82	7,856.11	89.77	34.92	90.52	1,646.14	1,238.06	3,559.62	3,464.01	95.61	37.232		
11,400.00	7,870.00	8,017.86	7,857.15	89.68	34.92	90.54	1,646.13	1,238.06	3,615.57	3,519.47	96.10	37.623		
11,500.00	7,870.00	8,018.91	7,858.20	89.60	34.93	90.56	1,646.12	1,238.07	3,673.40	3,576.84	96.57	38.040		
11,600.00	7,870.00	8,019.96	7,859.25	89.55	34.93	90.58	1,646.11	1,238.07	3,733.01	3,636.01	97.01	38.482		
11,700.00	7,870.00	8,021.01	7,860.30	89.52	34.93	90.60	1,646.10	1,238.07	3,794.32	3,696.90	97.42	38.948		
11,800.00	7,870.00	8,022.05	7,861.34	89.50	34.93	90.62	1,646.08	1,238.07	3,857.25	3,759.44	97.81	39.435		
11,900.00	7,870.00	8,023.10	7,862.39	89.51	34.94	90.64	1,646.07	1,238.08	3,921.72	3,823.54	98.18	39.944		
12,000.00	7,870.00	8,024.14	7,863.43	89.54	34.94	90.66	1,646.06	1,238.08	3,987.65	3,889.12	98.53	40.473		
12,100.00	7,870.00	8,025.19	7,864.48	89.59	34.94	90.68	1,646.05	1,238.08	4,054.98	3,956.12	98.85	41.020		
12,200.00	7,870.00	8,026.23	7,865.52	89.66	34.95	90.70	1,646.04	1,238.08	4,123.63	4,024.47	99.16	41.586		
12,300.00	7,870.00	8,027.27	7,866.56	89.77	34.95	90.72	1,646.03	1,238.09	4,193.54	4,094.10	99.45	42.168		
12,400.00	7,870.00	8,028.31	7,867.60	89.89	34.95	90.74	1,646.02	1,238.09	4,264.66	4,164.94	99.72	42.767		
12,500.00	7,870.00	8,029.36	7,868.65	90.05	34.95	90.76	1,646.01	1,238.09	4,336.91	4,236.94	99.97	43.381		
12,600.00	7,870.00	8,030.40	7,869.69	90.24	34.96	90.78	1,646.00	1,238.09	4,410.24	4,310.03	100.21	44.010		
12,700.00	7,870.00	8,031.44	7,870.73	90.46	34.96	90.80	1,645.99	1,238.10	4,484.61	4,384.17	100.43	44.652		
12,800.00	7,870.00	8,032.48	7,871.77	90.71	34.96	90.82	1,645.98	1,238.10	4,559.96	4,459.31	100.64	45.308		
12,900.00	7,870.00	8,033.51	7,872.80	90.99	34.96	90.84	1,645.97	1,238.10	4,636.23	4,535.39	100.84	45.975		
13,000.00	7,870.00	8,034.55	7,873.84	91.32	34.97	90.86	1,645.96	1,238.11	4,713.40	4,612.37	101.03	46.655		
13,100.00	7,870.00	8,035.59	7,874.88	91.68	34.97	90.88	1,645.95	1,238.11	4,791.41	4,690.21	101.20	47.346		
13,200.00	7,870.00	8,036.63	7,875.92	92.08	34.97	90.90	1,645.94	1,238.11	4,870.22	4,768.86	101.36	48.047		
13,300.00	7,870.00	8,037.66	7,876.95	92.52	34.98	90.92	1,645.93	1,238.11	4,949.80	4,848.28	101.52	48.758		
13,400.00	7,870.00	8,038.70	7,877.99	93.00	34.98	90.94	1,645.92	1,238.12	5,030.11	4,928.45	101.66	49.479		
13,500.00	7,870.00	8,039.73	7,879.02	93.53	34.98	90.96	1,645.91	1,238.12	5,111.11	5,009.31	101.80	50.209		
13,600.00	7,870.00	8,040.77	7,880.05	94.10	34.98	90.98	1,645.89	1,238.12	5,192.77	5,090.85	101.92	50.947		
13,700.00	7,870.00	8,041.80	7,881.09	94.72	34.99	91.00	1,645.88	1,238.12	5,275.07	5,173.03	102.04	51.694		
13,800.00	7,870.00	8,042.83	7,882.12	95.38	34.99	91.02	1,645.87	1,238.13	5,357.97	5,255.81	102.16	52.449		
13,900.00	7,870.00	8,043.86	7,883.15	96.09	34.99	91.04	1,645.86	1,238.13	5,441.44	5,339.18	102.26	53.210		
14,000.00	7,870.00	8,044.89	7,884.18	96.84	34.99	91.06	1,645.85	1,238.13	5,525.46	5,423.10	102.36	53.979		
14,100.00	7,870.00	8,045.92	7,885.21	97.64	35.00	91.08	1,645.84	1,238.14	5,610.00	5,507.55	102.46	54.755		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,046.95	7,886.24	98.48	35.00	91.10	1,645.83	1,238.14	5,695.05	5,592.50	102.55	55.537		
14,300.00	7,870.00	8,047.98	7,887.27	99.37	35.00	91.12	1,645.82	1,238.14	5,780.57	5,677.94	102.63	56.325		
14,400.00	7,870.00	8,049.01	7,888.30	100.30	35.00	91.14	1,645.81	1,238.14	5,866.56	5,763.85	102.71	57.118		
14,500.00	7,870.00	8,050.04	7,889.33	101.26	35.01	91.16	1,645.80	1,238.15	5,952.98	5,850.19	102.78	57.917		
14,600.00	7,870.00	8,051.07	7,890.36	102.27	35.01	91.18	1,645.79	1,238.15	6,039.81	5,936.96	102.85	58.722		
14,700.00	7,870.00	8,052.09	7,891.38	103.31	35.01	91.20	1,645.78	1,238.15	6,127.05	6,024.13	102.92	59.531		
14,800.00	7,870.00	8,053.12	7,892.41	104.38	35.02	91.22	1,645.77	1,238.16	6,214.68	6,111.69	102.99	60.345		
14,900.00	7,870.00	8,054.15	7,893.43	105.49	35.02	91.24	1,645.76	1,238.16	6,302.67	6,199.62	103.05	61.164		
15,000.00	7,870.00	8,055.17	7,894.46	106.63	35.02	91.26	1,645.75	1,238.16	6,391.02	6,287.91	103.10	61.987		
15,100.00	7,870.00	8,056.19	7,895.48	107.80	35.02	91.28	1,645.74	1,238.16	6,479.70	6,376.54	103.16	62.814		
15,200.00	7,870.00	8,057.22	7,896.51	109.00	35.03	91.30	1,645.73	1,238.17	6,568.71	6,465.50	103.21	63.644		
15,300.00	7,870.00	8,058.24	7,897.53	110.22	35.03	91.32	1,645.72	1,238.17	6,658.03	6,554.77	103.26	64.479		
15,400.00	7,870.00	8,059.26	7,898.55	111.47	35.03	91.34	1,645.71	1,238.17	6,747.65	6,644.34	103.31	65.317		
15,500.00	7,870.00	8,060.28	7,899.57	112.74	35.03	91.36	1,645.70	1,238.18	6,837.56	6,734.21	103.35	66.158		
15,600.00	7,870.00	8,061.30	7,900.59	114.03	35.04	91.38	1,645.69	1,238.18	6,927.74	6,824.35	103.39	67.003		
15,700.00	7,870.00	8,062.32	7,901.61	115.34	35.04	91.40	1,645.68	1,238.18	7,018.19	6,914.76	103.44	67.851		
15,800.00	7,870.00	8,063.34	7,902.63	116.68	35.04	91.42	1,645.67	1,238.19	7,108.90	7,005.42	103.48	68.701		
15,900.00	7,870.00	8,064.36	7,903.65	118.02	35.04	91.44	1,645.66	1,238.19	7,199.85	7,096.34	103.51	69.554		
16,000.00	7,870.00	8,065.38	7,904.67	119.39	35.05	91.46	1,645.65	1,238.19	7,291.04	7,187.49	103.55	70.410		
16,100.00	7,870.00	8,066.40	7,905.69	120.77	35.05	91.48	1,645.64	1,238.19	7,382.45	7,278.87	103.59	71.269		
16,200.00	7,870.00	8,067.41	7,906.70	122.17	35.05	91.50	1,645.63	1,238.20	7,474.09	7,370.47	103.62	72.129		
16,300.00	7,870.00	8,068.43	7,907.72	123.58	35.05	91.52	1,645.62	1,238.20	7,565.94	7,462.29	103.65	72.992		
16,400.00	7,870.00	8,069.45	7,908.73	125.00	35.06	91.54	1,645.61	1,238.20	7,657.99	7,554.31	103.69	73.858		
16,500.00	7,870.00	8,070.46	7,909.75	126.43	35.06	91.56	1,645.60	1,238.21	7,750.24	7,646.52	103.72	74.725		
16,600.00	7,870.00	8,071.47	7,910.76	127.88	35.06	91.58	1,645.59	1,238.21	7,842.68	7,738.93	103.75	75.594		
16,700.00	7,870.00	8,072.49	7,911.78	129.34	35.07	91.59	1,645.58	1,238.21	7,935.30	7,831.53	103.78	76.465		
16,800.00	7,870.00	8,073.50	7,912.79	130.81	35.07	91.61	1,645.57	1,238.22	8,028.10	7,924.30	103.81	77.337		
16,900.00	7,870.00	8,074.51	7,913.80	132.28	35.07	91.63	1,645.56	1,238.22	8,121.07	8,017.24	103.83	78.212		
17,000.00	7,870.00	8,075.52	7,914.81	133.77	35.07	91.65	1,645.55	1,238.22	8,214.21	8,110.34	103.86	79.087		
17,100.00	7,870.00	8,076.54	7,915.82	135.27	35.08	91.67	1,645.54	1,238.23	8,307.50	8,203.61	103.89	79.965		
17,200.00	7,870.00	8,077.55	7,916.83	136.77	35.08	91.69	1,645.53	1,238.23	8,400.95	8,297.03	103.92	80.843		
17,300.00	7,870.00	8,078.56	7,917.84	138.28	35.08	91.71	1,645.52	1,238.23	8,494.55	8,390.61	103.94	81.723		
17,400.00	7,870.00	8,080.00	7,919.29	139.80	35.08	91.74	1,645.50	1,238.24	8,588.29	8,484.32	103.97	82.604		
17,500.00	7,870.00	8,081.81	7,921.10	141.33	35.09	91.77	1,645.48	1,238.24	8,682.17	8,578.17	104.00	83.485		
17,600.00	7,870.00	8,083.64	7,922.93	142.86	35.09	91.81	1,645.46	1,238.25	8,776.19	8,672.16	104.02	84.367		
17,700.00	7,870.00	8,085.49	7,924.78	144.40	35.10	91.85	1,645.45	1,238.25	8,870.33	8,766.28	104.05	85.250		
17,800.00	7,870.00	8,087.37	7,926.65	145.95	35.10	91.88	1,645.43	1,238.26	8,964.61	8,860.53	104.08	86.134		
17,900.00	7,870.00	8,089.27	7,928.55	147.50	35.11	91.92	1,645.41	1,238.27	9,059.00	8,954.90	104.10	87.019		
18,000.00	7,870.00	8,091.19	7,930.47	149.06	35.11	91.96	1,645.39	1,238.28	9,153.52	9,049.39	104.13	87.904		
18,100.00	7,870.00	8,093.13	7,932.42	150.63	35.12	91.99	1,645.37	1,238.28	9,248.15	9,143.99	104.16	88.790		
18,200.00	7,870.00	8,095.11	7,934.39	152.20	35.12	92.03	1,645.35	1,238.29	9,342.89	9,238.71	104.18	89.677		
18,300.00	7,870.00	8,097.10	7,936.39	153.77	35.13	92.07	1,645.32	1,238.30	9,437.74	9,333.53	104.21	90.565		
18,400.00	7,870.00	8,099.13	7,938.41	155.35	35.13	92.11	1,645.30	1,238.31	9,532.70	9,428.46	104.24	91.453		
18,500.00	7,870.00	8,101.17	7,940.46	156.93	35.14	92.15	1,645.28	1,238.32	9,627.75	9,523.49	104.26	92.341		
18,600.00	7,870.00	8,103.25	7,942.53	158.52	35.14	92.19	1,645.26	1,238.33	9,722.91	9,618.62	104.29	93.230		
18,700.00	7,870.00	8,105.35	7,944.64	160.11	35.15	92.23	1,645.24	1,238.34	9,818.16	9,713.84	104.32	94.119		
18,800.00	7,870.00	8,107.48	7,946.77	161.71	35.16	92.27	1,645.21	1,238.35	9,913.51	9,809.16	104.34	95.009		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.17	-2,061.78	2,122.60	2,959.40					
100.00	100.00	74.38	74.38	0.13	0.12	134.17	-2,061.69	2,122.42	2,958.96	2,958.71	0.26	N/A		
200.00	200.00	195.56	195.56	0.49	0.46	134.17	-2,060.87	2,121.68	2,958.05	2,957.10	0.96	3,092.019		
300.00	300.00	872.44	865.03	0.85	3.21	133.11	-1,974.56	2,109.59	2,952.38	2,948.39	3.98	741.354		
400.00	400.00	1,204.00	1,180.34	1.21	5.10	131.86	-1,874.23	2,091.79	2,926.25	2,920.39	5.86	499.201		
500.00	500.00	1,358.21	1,323.96	1.57	6.12	131.14	-1,818.88	2,082.33	2,897.00	2,890.03	6.97	415.691		
600.00	600.00	1,503.90	1,458.65	1.93	7.12	130.40	-1,764.14	2,073.02	2,866.88	2,858.81	8.07	355.249		
700.00	699.98	1,624.17	1,568.82	2.28	7.99	66.59	-1,716.66	2,064.54	2,834.30	2,825.23	9.07	312.501		
800.00	799.84	1,718.51	1,654.95	2.64	8.69	66.81	-1,678.70	2,058.19	2,800.32	2,790.37	9.95	281.498		
900.00	899.45	1,806.21	1,735.04	3.00	9.34	67.15	-1,643.49	2,051.91	2,764.96	2,754.16	10.80	256.018		
1,000.00	998.70	1,873.00	1,796.24	3.37	9.83	67.64	-1,617.15	2,047.44	2,729.18	2,717.63	11.55	236.325		
1,100.00	1,097.47	1,980.07	1,894.45	3.76	10.62	68.09	-1,575.10	2,040.37	2,692.44	2,679.91	12.53	214.921		
1,200.00	1,195.62	2,041.08	1,950.62	4.18	11.06	68.75	-1,551.65	2,036.14	2,654.80	2,641.53	13.27	200.040		
1,300.00	1,293.06	2,138.91	2,041.03	4.63	11.77	69.46	-1,514.94	2,029.17	2,616.51	2,602.29	14.22	183.963		
1,400.00	1,389.64	2,256.15	2,148.94	5.11	12.63	70.28	-1,469.92	2,020.61	2,576.39	2,561.09	15.30	168.383		
1,500.00	1,485.27	2,360.75	2,244.86	5.63	13.41	71.24	-1,428.98	2,012.50	2,534.38	2,518.04	16.34	155.064		
1,600.00	1,579.82	2,436.64	2,314.56	6.20	13.97	72.28	-1,399.56	2,006.46	2,491.48	2,474.21	17.27	144.247		
1,700.00	1,673.17	2,502.70	2,375.48	6.83	14.45	73.40	-1,374.57	2,001.27	2,448.33	2,430.14	18.18	134.646		
1,800.00	1,765.21	2,617.00	2,480.90	7.51	15.29	74.81	-1,331.25	1,992.83	2,404.70	2,385.34	19.36	124.193		
1,900.00	1,855.84	2,693.00	2,550.41	8.24	15.86	76.14	-1,300.89	1,987.99	2,359.63	2,339.20	20.42	115.530		
2,000.00	1,944.94	2,780.51	2,630.65	9.05	16.52	77.65	-1,266.39	1,982.50	2,314.33	2,292.75	21.58	107.244		
2,100.00	2,032.39	2,890.67	2,731.90	9.91	17.34	79.54	-1,223.91	1,973.77	2,268.09	2,245.23	22.85	99.239		
2,200.00	2,118.11	3,000.56	2,832.61	10.85	18.17	81.64	-1,181.10	1,963.68	2,220.54	2,196.38	24.16	91.915		
2,300.00	2,201.97	3,089.24	2,913.35	11.85	18.85	83.67	-1,145.24	1,956.01	2,172.33	2,146.88	25.44	85.380		
2,400.00	2,283.88	3,206.74	3,019.70	12.93	19.78	86.22	-1,096.44	1,945.30	2,123.26	2,096.40	26.86	79.040		
2,429.47	2,307.63	3,223.28	3,034.64	13.26	19.91	86.77	-1,089.51	1,943.74	2,108.76	2,081.52	27.23	77.429		
2,500.00	2,364.26	3,262.93	3,070.54	14.06	20.22	87.32	-1,073.09	1,940.07	2,074.58	2,046.44	28.14	73.723		
2,600.00	2,444.56	3,326.91	3,128.69	15.22	20.72	88.22	-1,047.02	1,934.41	2,027.39	1,997.92	29.47	68.802		
2,700.00	2,524.85	3,395.41	3,191.01	16.39	21.25	89.21	-1,019.16	1,928.79	1,981.38	1,950.55	30.83	64.278		
2,800.00	2,605.14	3,458.55	3,248.60	17.57	21.74	90.14	-993.71	1,924.01	1,936.76	1,904.57	32.19	60.164		
2,900.00	2,685.43	3,536.02	3,319.46	18.76	22.33	91.33	-962.94	1,918.26	1,893.49	1,859.90	33.59	56.372		
3,000.00	2,765.73	3,647.35	3,421.09	19.96	23.19	93.13	-918.38	1,909.32	1,850.73	1,815.70	35.02	52.846		
3,100.00	2,846.02	3,718.99	3,485.98	21.16	23.75	94.29	-888.46	1,904.04	1,808.01	1,771.58	36.42	49.639		
3,200.00	2,926.31	3,784.32	3,545.39	22.37	24.25	95.39	-861.68	1,899.49	1,767.04	1,729.21	37.83	46.714		
3,300.00	3,006.60	3,854.09	3,609.09	23.59	24.79	96.62	-833.70	1,894.46	1,727.72	1,688.49	39.23	44.039		
3,400.00	3,086.90	3,918.44	3,668.11	24.81	25.27	97.80	-808.50	1,889.66	1,690.23	1,649.59	40.63	41.599		
3,500.00	3,167.19	3,996.93	3,740.33	26.03	25.86	99.28	-778.28	1,883.94	1,654.63	1,612.61	42.02	39.376		
3,600.00	3,247.48	4,082.71	3,818.99	27.25	26.50	100.92	-744.53	1,878.39	1,620.13	1,576.74	43.40	37.333		
3,700.00	3,327.77	4,163.90	3,893.44	28.48	27.12	102.53	-712.59	1,872.98	1,587.03	1,542.27	44.77	35.452		
3,800.00	3,408.07	4,242.05	3,965.12	29.71	27.70	104.14	-681.95	1,867.36	1,555.44	1,509.31	46.13	33.722		
3,900.00	3,488.36	4,300.86	4,019.27	30.94	28.14	105.39	-659.42	1,863.13	1,526.24	1,478.73	47.52	32.119		
4,000.00	3,568.65	4,371.69	4,084.82	32.17	28.66	106.92	-633.03	1,858.28	1,499.82	1,450.94	48.87	30.689		
4,100.00	3,648.95	4,452.57	4,159.71	33.41	29.24	108.71	-602.94	1,852.91	1,475.44	1,425.25	50.19	29.399		
4,200.00	3,729.24	4,534.99	4,236.01	34.64	29.84	110.59	-572.38	1,846.88	1,453.00	1,401.52	51.48	28.226		
4,300.00	3,809.53	4,619.69	4,314.36	35.88	30.45	112.56	-540.78	1,840.77	1,432.53	1,379.79	52.74	27.161		
4,400.00	3,889.82	4,709.47	4,397.23	37.12	31.11	114.69	-506.83	1,834.34	1,413.87	1,359.90	53.97	26.197		
4,500.00	3,970.12	4,784.75	4,466.67	38.36	31.67	116.48	-478.20	1,829.43	1,397.41	1,342.16	55.24	25.295		
4,600.00	4,050.41	4,848.82	4,525.93	39.60	32.13	118.02	-454.16	1,825.55	1,383.81	1,327.26	56.55	24.470		
4,700.00	4,130.70	4,906.14	4,579.24	40.84	32.53	119.43	-433.48	1,821.54	1,373.79	1,315.93	57.86	23.745		
4,800.00	4,210.99	4,955.16	4,625.19	42.08	32.86	120.65	-416.78	1,817.99	1,367.96	1,308.81	59.15	23.126		
4,885.07	4,279.30	4,999.29	4,666.87	43.14	33.16	121.75	-402.63	1,814.83	1,366.46	1,306.26	60.21	22.696 CC		
4,900.00	4,291.29	5,008.38	4,675.48	43.32	33.21	121.97	-399.80	1,814.20	1,366.50	1,306.12	60.38	22.630 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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	5,069.69	4,733.76	44.57	33.60	123.48	-381.14	1,810.23	1,368.91	1,307.36	61.55	22.241		
5,100.00	4,451.87	5,128.90	4,790.32	45.81	33.95	124.92	-363.98	1,806.82	1,375.02	1,312.35	62.67	21.942		
5,200.00	4,532.16	5,188.30	4,847.36	47.05	34.30	126.35	-347.73	1,803.66	1,384.87	1,321.14	63.73	21.732		
5,300.00	4,612.46	5,249.72	4,906.62	48.30	34.64	127.79	-331.86	1,800.66	1,398.27	1,333.54	64.72	21.603		
5,400.00	4,692.75	5,307.00	4,962.13	49.54	34.94	129.11	-317.96	1,798.15	1,415.15	1,349.49	65.66	21.554 SF		
5,500.00	4,773.04	5,364.00	5,017.68	50.79	35.23	130.38	-305.33	1,796.19	1,435.61	1,369.09	66.53	21.580		
5,600.00	4,853.34	5,414.98	5,067.61	52.03	35.46	131.48	-295.14	1,794.86	1,459.59	1,392.29	67.30	21.687		
5,700.00	4,933.63	5,459.00	5,110.91	53.28	35.66	132.39	-287.26	1,793.97	1,487.05	1,419.06	67.99	21.873		
5,800.00	5,013.92	5,517.82	5,168.99	54.53	35.89	133.57	-278.06	1,792.97	1,517.73	1,449.09	68.65	22.110		
5,900.00	5,094.21	5,571.38	5,222.08	55.77	36.09	134.60	-270.99	1,792.10	1,551.59	1,482.36	69.23	22.412		
6,000.00	5,174.51	5,632.19	5,282.47	57.02	36.30	135.73	-263.97	1,791.23	1,588.01	1,518.21	69.80	22.752		
6,100.00	5,254.80	5,689.98	5,339.97	58.27	36.48	136.76	-258.21	1,790.49	1,626.76	1,556.45	70.30	23.139		
6,200.00	5,335.09	5,742.00	5,391.80	59.52	36.65	137.66	-253.82	1,789.73	1,667.83	1,597.10	70.73	23.579		
6,300.00	5,415.38	5,793.79	5,443.47	60.76	36.78	138.51	-250.45	1,788.95	1,711.30	1,640.19	71.12	24.064		
6,400.00	5,495.68	5,843.07	5,492.71	62.01	36.91	139.29	-248.39	1,788.23	1,757.20	1,685.75	71.45	24.594		
6,500.00	5,575.97	5,905.91	5,555.51	63.26	37.05	140.23	-246.67	1,787.28	1,804.94	1,733.08	71.86	25.118		
6,600.00	5,656.26	5,972.77	5,622.35	64.51	37.19	141.18	-245.53	1,786.27	1,854.08	1,781.80	72.28	25.650		
6,700.00	5,736.55	6,045.41	5,694.99	65.76	37.33	142.16	-245.02	1,785.58	1,904.29	1,831.54	72.75	26.174		
6,800.00	5,816.85	6,126.98	5,776.56	67.01	37.49	143.20	-244.55	1,784.81	1,955.15	1,881.85	73.29	26.676		
6,900.00	5,897.14	6,218.94	5,868.51	68.26	37.68	144.33	-243.73	1,784.11	2,006.22	1,932.31	73.92	27.142		
7,000.00	5,977.43	6,306.42	5,955.98	69.50	37.86	145.34	-242.60	1,783.65	2,057.40	1,982.89	74.50	27.615		
7,100.00	6,057.72	6,384.47	6,034.02	70.75	38.03	146.21	-241.52	1,783.33	2,108.90	2,033.90	75.01	28.117		
7,200.00	6,138.02	6,470.99	6,120.53	72.00	38.21	147.12	-240.40	1,783.11	2,160.79	2,085.21	75.58	28.590		
7,300.00	6,218.31	6,548.30	6,197.83	73.25	38.38	147.91	-239.24	1,782.97	2,212.89	2,136.82	76.08	29.088		
7,400.00	6,298.60	6,624.63	6,274.16	74.50	38.54	148.65	-238.25	1,782.63	2,265.60	2,189.04	76.56	29.592		
7,500.00	6,378.90	6,707.98	6,357.50	75.75	38.73	149.42	-237.32	1,782.52	2,318.60	2,241.49	77.11	30.069		
7,600.00	6,459.19	6,789.86	6,439.38	77.00	38.90	150.15	-236.37	1,782.47	2,371.82	2,294.18	77.64	30.548		
7,700.00	6,539.48	6,871.01	6,520.52	78.25	39.08	150.84	-235.39	1,782.42	2,425.30	2,347.12	78.17	31.024		
7,800.00	6,619.77	6,951.54	6,601.05	79.50	39.26	151.50	-234.40	1,782.37	2,479.03	2,400.32	78.70	31.499		
7,900.00	6,700.07	7,028.72	6,678.22	80.75	39.43	152.10	-233.57	1,782.40	2,533.04	2,453.84	79.20	31.982		
8,000.00	6,780.36	7,117.76	6,767.26	82.00	39.63	152.76	-232.90	1,782.73	2,587.31	2,507.50	79.81	32.419		
8,100.00	6,860.65	7,210.75	6,860.24	83.25	39.83	153.42	-231.97	1,783.59	2,641.32	2,560.88	80.45	32.833		
8,200.00	6,940.94	7,304.17	6,953.64	84.50	40.04	154.03	-231.15	1,785.08	2,695.25	2,614.15	81.09	33.237		
8,300.00	7,021.24	7,395.13	7,044.57	85.76	40.23	154.59	-230.43	1,787.30	2,748.92	2,667.20	81.72	33.638		
8,400.00	7,101.53	7,472.14	7,121.55	87.01	40.40	155.04	-229.99	1,789.47	2,802.67	2,720.43	82.24	34.080		
8,500.00	7,181.82	7,539.57	7,188.96	88.26	40.54	155.41	-229.92	1,791.30	2,856.90	2,774.22	82.68	34.554		
8,605.60	7,266.61	7,610.41	7,259.77	89.58	40.69	155.79	-230.24	1,793.11	2,914.74	2,831.60	83.14	35.057		
8,650.00	7,302.60	7,639.33	7,288.68	90.13	40.75	148.25	-230.50	1,793.82	2,938.20	2,854.87	83.33	35.262		
8,700.00	7,343.78	7,669.70	7,319.04	90.72	40.81	139.56	-230.89	1,794.53	2,962.16	2,878.65	83.51	35.472		
8,750.00	7,385.32	7,700.33	7,349.65	91.28	40.87	130.85	-231.41	1,795.23	2,983.41	2,899.73	83.68	35.652		
8,800.00	7,426.92	7,734.19	7,383.51	91.81	40.93	122.41	-232.15	1,795.97	3,001.85	2,917.97	83.88	35.790		
8,850.00	7,468.27	7,781.08	7,430.37	92.29	41.02	114.60	-233.25	1,797.07	3,017.23	2,933.06	84.17	35.847		
8,900.00	7,509.04	7,827.62	7,476.87	92.72	41.11	107.55	-234.37	1,798.30	3,029.41	2,944.96	84.45	35.872		
8,950.00	7,548.93	7,849.31	7,498.55	93.10	41.15	101.14	-234.95	1,798.82	3,038.57	2,954.07	84.50	35.960		
9,000.00	7,587.63	7,873.69	7,522.92	93.43	41.20	95.68	-235.68	1,799.32	3,044.77	2,960.22	84.55	36.010		
9,050.00	7,624.85	7,897.19	7,546.40	93.71	41.24	91.14	-236.45	1,799.71	3,048.03	2,963.44	84.58	36.036		
9,100.00	7,660.30	7,914.00	7,563.20	93.93	41.27	87.38	-237.04	1,799.94	3,048.35	2,963.82	84.53	36.062		
9,150.00	7,693.72	7,942.52	7,591.69	94.10	41.33	84.57	-238.11	1,800.21	3,045.76	2,961.19	84.57	36.014		
9,200.00	7,724.85	7,963.60	7,612.75	94.23	41.36	82.39	-238.94	1,800.32	3,040.32	2,955.80	84.53	35.968		
9,250.00	7,753.45	7,983.09	7,632.23	94.30	41.40	80.85	-239.74	1,800.35	3,032.11	2,947.66	84.46	35.901		
9,300.00	7,779.31	8,009.00	7,658.12	94.34	41.45	80.03	-240.84	1,800.30	3,021.23	2,936.79	84.44	35.779		
9,350.00	7,802.23	8,009.00	7,658.12	94.33	41.45	79.34	-240.84	1,800.30	3,007.75	2,923.58	84.17	35.735		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,027.97	7,677.07	94.28	41.48	79.51	-241.68	1,800.17	2,991.80	2,907.72	84.08	35.583		
9,450.00	7,838.57	8,038.40	7,687.49	94.20	41.50	80.03	-242.17	1,800.07	2,973.53	2,889.62	83.91	35.437		
9,500.00	7,851.72	8,047.02	7,696.10	94.10	41.51	81.02	-242.58	1,799.96	2,953.06	2,869.32	83.73	35.268		
9,550.00	7,861.37	8,053.76	7,702.83	93.96	41.53	82.47	-242.90	1,799.87	2,930.52	2,846.97	83.55	35.075		
9,600.00	7,867.46	8,058.55	7,707.61	93.81	41.54	84.36	-243.14	1,799.79	2,906.07	2,822.70	83.37	34.857		
9,650.00	7,869.94	8,061.36	7,710.42	93.64	41.54	86.71	-243.28	1,799.75	2,879.86	2,796.66	83.20	34.615		
9,659.14	7,870.00	8,061.65	7,710.71	93.60	41.54	87.18	-243.30	1,799.74	2,874.89	2,791.73	83.17	34.568		
9,700.00	7,870.00	8,062.82	7,711.88	93.46	41.54	87.21	-243.35	1,799.72	2,852.77	2,769.74	83.03	34.358		
9,800.00	7,870.00	8,065.71	7,714.76	93.11	41.55	87.28	-243.50	1,799.67	2,800.41	2,717.68	82.73	33.851		
9,900.00	7,870.00	8,068.64	7,717.69	92.77	41.55	87.35	-243.65	1,799.62	2,750.68	2,668.21	82.47	33.355		
10,000.00	7,870.00	8,071.61	7,720.66	92.46	41.56	87.42	-243.80	1,799.57	2,703.72	2,621.47	82.26	32.868		
10,100.00	7,870.00	8,074.63	7,723.67	92.16	41.56	87.49	-243.95	1,799.51	2,659.70	2,577.58	82.12	32.389		
10,200.00	7,870.00	8,077.69	7,726.73	91.87	41.57	87.57	-244.11	1,799.45	2,618.75	2,536.70	82.05	31.916		
10,300.00	7,870.00	8,080.80	7,729.83	91.60	41.57	87.64	-244.28	1,799.38	2,581.02	2,498.95	82.07	31.449		
10,400.00	7,870.00	8,083.96	7,732.98	91.34	41.58	87.71	-244.44	1,799.32	2,546.66	2,464.48	82.18	30.988		
10,500.00	7,870.00	8,087.16	7,736.18	91.11	41.59	87.79	-244.61	1,799.24	2,515.79	2,433.40	82.40	30.533		
10,600.00	7,870.00	8,090.42	7,739.43	90.88	41.59	87.87	-244.78	1,799.17	2,488.56	2,405.84	82.72	30.086		
10,700.00	7,870.00	8,103.00	7,751.99	90.67	41.61	88.17	-245.47	1,798.86	2,465.11	2,381.84	83.27	29.604		
10,800.00	7,870.00	8,103.00	7,751.99	90.48	41.61	88.17	-245.47	1,798.86	2,445.47	2,361.71	83.76	29.198		
10,900.00	7,870.00	8,103.00	7,751.99	90.31	41.61	88.17	-245.47	1,798.86	2,429.79	2,345.45	84.34	28.808		
11,000.00	7,870.00	8,111.90	7,760.87	90.15	41.63	88.38	-245.97	1,798.64	2,418.15	2,333.01	85.14	28.402		
11,100.00	7,870.00	8,154.90	7,803.78	90.00	41.70	89.40	-248.78	1,798.01	2,410.53	2,324.10	86.43	27.890		
11,200.00	7,870.00	8,299.01	7,947.16	89.88	41.90	92.81	-262.56	1,801.33	2,406.62	2,317.83	88.80	27.103		
11,249.71	7,870.00	8,302.93	7,951.05	89.82	41.91	92.91	-263.00	1,801.53	2,406.11	2,316.87	89.24	26.962		
11,300.00	7,870.00	8,306.75	7,954.84	89.77	41.92	93.00	-263.41	1,801.72	2,406.64	2,316.95	89.68	26.835		
11,400.00	7,870.00	8,313.92	7,961.95	89.68	41.93	93.17	-264.17	1,802.07	2,410.77	2,320.17	90.59	26.611		
11,500.00	7,870.00	8,320.57	7,968.57	89.60	41.94	93.33	-264.85	1,802.38	2,419.00	2,327.48	91.52	26.433		
11,600.00	7,870.00	8,326.77	7,974.73	89.55	41.94	93.47	-265.46	1,802.67	2,431.29	2,338.86	92.43	26.303		
11,700.00	7,870.00	8,332.56	7,980.49	89.52	41.95	93.61	-266.01	1,802.94	2,447.59	2,354.25	93.34	26.222		
11,800.00	7,870.00	8,337.97	7,985.87	89.50	41.96	93.74	-266.51	1,803.18	2,467.81	2,373.59	94.23	26.191		
11,900.00	7,870.00	8,343.05	7,990.92	89.51	41.97	93.86	-266.96	1,803.40	2,491.87	2,396.79	95.08	26.209		
12,000.00	7,870.00	8,347.82	7,995.67	89.54	41.98	93.97	-267.37	1,803.60	2,519.65	2,423.76	95.89	26.275		
12,100.00	7,870.00	8,352.31	8,000.14	89.59	41.98	94.08	-267.75	1,803.79	2,551.03	2,454.37	96.67	26.390		
12,200.00	7,870.00	8,356.55	8,004.36	89.66	41.99	94.18	-268.09	1,803.97	2,585.90	2,488.50	97.39	26.551		
12,300.00	7,870.00	8,360.55	8,008.34	89.77	41.99	94.27	-268.41	1,804.13	2,624.09	2,526.02	98.07	26.757		
12,400.00	7,870.00	8,364.33	8,012.11	89.89	42.00	94.36	-268.70	1,804.28	2,665.49	2,566.79	98.70	27.006		
12,500.00	7,870.00	8,386.00	8,033.72	90.05	42.03	94.88	-270.22	1,805.10	2,710.05	2,610.69	99.36	27.274		
12,600.00	7,870.00	8,386.00	8,033.72	90.24	42.03	94.88	-270.22	1,805.10	2,757.36	2,657.48	99.88	27.608		
12,700.00	7,870.00	8,386.00	8,033.72	90.46	42.03	94.88	-270.22	1,805.10	2,807.42	2,707.08	100.34	27.978		
12,800.00	7,870.00	8,386.00	8,033.72	90.71	42.03	94.88	-270.22	1,805.10	2,860.11	2,759.35	100.77	28.383		
12,900.00	7,870.00	8,386.00	8,033.72	90.99	42.03	94.88	-270.22	1,805.10	2,915.28	2,814.13	101.15	28.821		
13,000.00	7,870.00	8,386.00	8,033.72	91.32	42.03	94.88	-270.22	1,805.10	2,972.79	2,871.29	101.50	29.288		
13,100.00	7,870.00	8,386.00	8,033.72	91.68	42.03	94.88	-270.22	1,805.10	3,032.51	2,930.69	101.81	29.785		
13,200.00	7,870.00	8,386.00	8,033.72	92.08	42.03	94.88	-270.22	1,805.10	3,094.30	2,992.21	102.09	30.308		
13,300.00	7,870.00	8,386.00	8,033.72	92.52	42.03	94.88	-270.22	1,805.10	3,158.06	3,055.72	102.34	30.857		
13,400.00	7,870.00	8,398.20	8,045.88	93.00	42.05	95.17	-270.98	1,805.53	3,223.62	3,121.01	102.61	31.418		
13,500.00	7,870.00	8,402.05	8,049.72	93.53	42.06	95.26	-271.21	1,805.67	3,290.92	3,188.11	102.81	32.009		
13,600.00	7,870.00	8,405.80	8,053.47	94.10	42.07	95.35	-271.44	1,805.80	3,359.85	3,256.85	103.00	32.620		
13,700.00	7,870.00	8,409.46	8,057.12	94.72	42.07	95.43	-271.66	1,805.93	3,430.29	3,327.13	103.16	33.252		
13,800.00	7,870.00	8,413.03	8,060.68	95.38	42.08	95.52	-271.86	1,806.05	3,502.17	3,398.87	103.31	33.901		
13,900.00	7,870.00	8,416.51	8,064.15	96.09	42.09	95.60	-272.07	1,806.17	3,575.40	3,471.97	103.43	34.567		
14,000.00	7,870.00	8,419.90	8,067.53	96.84	42.09	95.68	-272.26	1,806.29	3,649.89	3,546.35	103.54	35.250		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,423.21	8,070.84	97.64	42.10	95.76	-272.45	1,806.40	3,725.58	3,621.93	103.64	35.946		
14,200.00	7,870.00	8,426.45	8,074.06	98.48	42.10	95.84	-272.63	1,806.51	3,802.38	3,698.65	103.73	36.657		
14,300.00	7,870.00	8,429.60	8,077.21	99.37	42.11	95.91	-272.80	1,806.62	3,880.23	3,776.43	103.80	37.381		
14,400.00	7,870.00	8,432.68	8,080.29	100.30	42.12	95.98	-272.97	1,806.72	3,959.07	3,855.21	103.87	38.116		
14,500.00	7,870.00	8,435.70	8,083.29	101.26	42.12	96.05	-273.13	1,806.83	4,038.85	3,934.93	103.93	38.863		
14,600.00	7,870.00	8,438.64	8,086.23	102.27	42.13	96.12	-273.29	1,806.92	4,119.51	4,015.53	103.98	39.620		
14,700.00	7,870.00	8,441.51	8,089.10	103.31	42.13	96.19	-273.44	1,807.02	4,200.99	4,096.97	104.02	40.387		
14,800.00	7,870.00	8,444.33	8,091.91	104.38	42.14	96.26	-273.58	1,807.11	4,283.26	4,179.20	104.05	41.163		
14,900.00	7,870.00	8,447.08	8,094.65	105.49	42.14	96.32	-273.73	1,807.20	4,366.26	4,262.17	104.09	41.948		
15,000.00	7,870.00	8,449.77	8,097.34	106.63	42.15	96.39	-273.86	1,807.29	4,449.96	4,345.84	104.11	42.741		
15,100.00	7,870.00	8,452.40	8,099.97	107.80	42.15	96.45	-274.00	1,807.38	4,534.31	4,430.18	104.14	43.542		
15,200.00	7,870.00	8,454.98	8,102.54	109.00	42.16	96.51	-274.12	1,807.46	4,619.29	4,515.14	104.16	44.349		
15,300.00	7,870.00	8,457.50	8,105.06	110.22	42.16	96.57	-274.25	1,807.54	4,704.86	4,600.68	104.17	45.164		
15,400.00	7,870.00	8,459.97	8,107.52	111.47	42.16	96.63	-274.37	1,807.62	4,790.98	4,686.79	104.19	45.984		
15,500.00	7,870.00	8,481.00	8,128.52	112.74	42.20	97.12	-275.34	1,808.29	4,877.70	4,773.47	104.23	46.798		
15,600.00	7,870.00	8,481.00	8,128.52	114.03	42.20	97.12	-275.34	1,808.29	4,964.83	4,860.60	104.23	47.631		
15,700.00	7,870.00	8,481.00	8,128.52	115.34	42.20	97.12	-275.34	1,808.29	5,052.44	4,948.20	104.24	48.470		
15,800.00	7,870.00	8,481.00	8,128.52	116.68	42.20	97.12	-275.34	1,808.29	5,140.50	5,036.26	104.24	49.313		
15,900.00	7,870.00	8,481.00	8,128.52	118.02	42.20	97.12	-275.34	1,808.29	5,228.99	5,124.75	104.24	50.161		
16,000.00	7,870.00	8,481.00	8,128.52	119.39	42.20	97.12	-275.34	1,808.29	5,317.89	5,213.64	104.25	51.013		
16,100.00	7,870.00	8,481.00	8,128.52	120.77	42.20	97.12	-275.34	1,808.29	5,407.17	5,302.93	104.25	51.869		
16,200.00	7,870.00	8,481.00	8,128.52	122.17	42.20	97.12	-275.34	1,808.29	5,496.83	5,392.58	104.25	52.729		
16,300.00	7,870.00	8,481.00	8,128.52	123.58	42.20	97.12	-275.34	1,808.29	5,586.83	5,482.59	104.25	53.593		
16,400.00	7,870.00	8,481.00	8,128.52	125.00	42.20	97.12	-275.34	1,808.29	5,677.17	5,572.93	104.25	54.460		
16,500.00	7,870.00	8,481.00	8,128.52	126.43	42.20	97.12	-275.34	1,808.29	5,767.83	5,663.59	104.25	55.330		
16,600.00	7,870.00	8,481.00	8,128.52	127.88	42.20	97.12	-275.34	1,808.29	5,858.80	5,754.55	104.24	56.203		
16,700.00	7,870.00	8,481.00	8,128.52	129.34	42.20	97.12	-275.34	1,808.29	5,950.05	5,845.81	104.24	57.078		
16,800.00	7,870.00	8,481.00	8,128.52	130.81	42.20	97.12	-275.34	1,808.29	6,041.58	5,937.34	104.24	57.957		
16,900.00	7,870.00	8,481.00	8,128.52	132.28	42.20	97.12	-275.34	1,808.29	6,133.37	6,029.13	104.24	58.838		
17,000.00	7,870.00	8,481.00	8,128.52	133.77	42.20	97.12	-275.34	1,808.29	6,225.42	6,121.18	104.24	59.721		
17,100.00	7,870.00	8,481.00	8,128.52	135.27	42.20	97.12	-275.34	1,808.29	6,317.71	6,213.47	104.24	60.606		
17,200.00	7,870.00	8,481.00	8,128.52	136.77	42.20	97.12	-275.34	1,808.29	6,410.23	6,305.99	104.24	61.494		
17,300.00	7,870.00	8,481.00	8,128.52	138.28	42.20	97.12	-275.34	1,808.29	6,502.97	6,398.73	104.24	62.383		
17,400.00	7,870.00	8,502.92	8,150.41	139.80	42.25	97.64	-276.27	1,808.96	6,595.85	6,491.57	104.28	63.254		
17,500.00	7,870.00	8,504.83	8,152.32	141.33	42.25	97.69	-276.35	1,809.02	6,688.99	6,584.71	104.28	64.145		
17,600.00	7,870.00	8,506.71	8,154.20	142.86	42.25	97.73	-276.43	1,809.07	6,782.33	6,678.05	104.28	65.037		
17,700.00	7,870.00	8,508.57	8,156.05	144.40	42.26	97.77	-276.50	1,809.13	6,875.86	6,771.57	104.29	65.931		
17,800.00	7,870.00	8,510.40	8,157.88	145.95	42.26	97.82	-276.57	1,809.18	6,969.56	6,865.26	104.29	66.826		
17,900.00	7,870.00	8,512.20	8,159.68	147.50	42.26	97.86	-276.65	1,809.23	7,063.43	6,959.13	104.30	67.722		
18,000.00	7,870.00	8,513.98	8,161.46	149.06	42.27	97.90	-276.72	1,809.28	7,157.47	7,053.17	104.31	68.620		
18,100.00	7,870.00	8,515.74	8,163.21	150.63	42.27	97.94	-276.78	1,809.33	7,251.67	7,147.36	104.31	69.518		
18,200.00	7,870.00	8,517.47	8,164.94	152.20	42.27	97.98	-276.85	1,809.38	7,346.02	7,241.70	104.32	70.418		
18,300.00	7,870.00	8,519.18	8,166.65	153.77	42.28	98.02	-276.92	1,809.43	7,440.52	7,336.19	104.33	71.319		
18,400.00	7,870.00	8,520.86	8,168.33	155.35	42.28	98.06	-276.98	1,809.48	7,535.16	7,430.82	104.34	72.220		
18,500.00	7,870.00	8,522.53	8,169.99	156.93	42.28	98.10	-277.04	1,809.53	7,629.93	7,525.59	104.35	73.122		
18,600.00	7,870.00	8,524.17	8,171.63	158.52	42.29	98.14	-277.11	1,809.57	7,724.84	7,620.48	104.35	74.025		
18,700.00	7,870.00	8,525.79	8,173.25	160.11	42.29	98.18	-277.17	1,809.62	7,819.87	7,715.50	104.36	74.928		
18,800.00	7,870.00	8,527.38	8,174.85	161.71	42.29	98.22	-277.23	1,809.66	7,915.02	7,810.65	104.38	75.832		
18,900.00	7,870.00	8,528.96	8,176.42	163.31	42.30	98.25	-277.28	1,809.70	8,010.29	7,905.91	104.39	76.737		
19,000.00	7,870.00	8,530.52	8,177.98	164.91	42.30	98.29	-277.34	1,809.75	8,105.68	8,001.28	104.40	77.642		
19,100.00	7,870.00	8,532.06	8,179.51	166.52	42.30	98.33	-277.40	1,809.79	8,201.17	8,096.76	104.41	78.548		
19,200.00	7,870.00	8,533.57	8,181.03	168.13	42.31	98.36	-277.45	1,809.83	8,296.77	8,192.35	104.42	79.454		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	8,535.07	8,182.53	169.75	42.31	98.40	-277.51	1,809.87	8,392.47	8,288.03	104.44	80.360	
19,383.51	7,870.00	8,536.31	8,183.76	171.10	42.31	98.43	-277.55	1,809.91	8,472.46	8,368.01	104.45	81.117	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	69.68	772.38	2,085.95	2,224.72					
100.00	100.00	62.86	62.86	0.13	0.10	69.69	772.16	2,085.99	2,224.32	2,224.09	0.24	9,444.166		
200.00	200.00	167.50	167.50	0.49	0.36	69.72	770.99	2,086.16	2,224.09	2,223.23	0.85	2,610.380		
300.00	300.00	271.01	271.00	0.85	0.73	69.73	770.23	2,085.98	2,223.66	2,222.08	1.58	1,406.599		
400.00	400.00	360.98	360.96	1.21	1.05	69.75	769.67	2,085.82	2,223.30	2,221.04	2.26	983.881		
405.83	405.83	365.84	365.83	1.23	1.07	69.75	769.64	2,085.83	2,223.29	2,221.00	2.30	967.531		
500.00	500.00	452.47	452.46	1.57	1.37	69.76	769.13	2,086.25	2,223.52	2,220.58	2.94	755.899		
600.00	600.00	541.18	541.16	1.93	1.68	69.77	768.90	2,086.81	2,224.04	2,220.43	3.61	615.820		
700.00	699.98	634.12	634.09	2.28	2.01	5.98	768.65	2,088.01	2,223.41	2,219.12	4.29	518.025		
800.00	799.84	731.07	731.04	2.64	2.35	6.01	768.44	2,089.32	2,219.40	2,214.41	4.99	445.101		
900.00	899.45	833.69	833.65	3.00	2.71	6.06	768.60	2,090.68	2,212.03	2,206.32	5.70	387.791		
1,000.00	998.70	947.59	947.54	3.37	3.11	6.12	769.02	2,091.58	2,200.78	2,194.32	6.46	340.712		
1,100.00	1,097.47	1,050.32	1,050.26	3.76	3.46	6.17	770.27	2,091.57	2,185.62	2,178.45	7.17	304.869		
1,200.00	1,195.62	1,133.94	1,133.87	4.18	3.75	6.23	771.48	2,091.73	2,167.32	2,159.50	7.82	277.177		
1,300.00	1,293.06	1,233.92	1,233.84	4.63	4.09	6.31	772.83	2,092.05	2,145.69	2,137.16	8.53	251.480		
1,400.00	1,389.64	1,293.28	1,293.18	5.11	4.30	6.38	774.27	2,092.65	2,121.68	2,112.57	9.11	232.931		
1,500.00	1,485.27	1,352.56	1,352.39	5.63	4.51	6.44	776.81	2,093.96	2,096.02	2,086.33	9.69	216.306		
1,600.00	1,579.82	1,409.00	1,408.69	6.20	4.71	6.49	780.25	2,095.87	2,068.73	2,058.47	10.27	201.497		
1,700.00	1,673.17	1,474.21	1,473.64	6.83	4.94	6.53	785.22	2,098.90	2,039.74	2,028.86	10.88	187.434		
1,800.00	1,765.21	1,533.63	1,532.73	7.51	5.15	6.57	790.49	2,102.44	2,009.02	1,997.54	11.48	174.938		
1,900.00	1,855.84	1,598.00	1,596.57	8.24	5.39	6.61	797.01	2,107.35	1,976.81	1,964.69	12.11	163.222		
2,000.00	1,944.94	1,652.36	1,650.37	9.05	5.59	6.66	803.00	2,112.33	1,942.96	1,930.25	12.71	152.866		
2,100.00	2,032.39	1,715.84	1,713.06	9.91	5.84	6.72	810.33	2,119.04	1,907.39	1,894.04	13.35	142.853		
2,200.00	2,118.11	1,787.00	1,783.15	10.85	6.11	6.77	819.39	2,127.40	1,869.98	1,855.95	14.03	133.259		
2,300.00	2,201.97	1,840.04	1,835.22	11.85	6.33	6.84	826.64	2,134.35	1,830.84	1,816.18	14.65	124.934		
2,400.00	2,283.88	1,902.10	1,896.98	12.93	6.58	6.91	835.45	2,143.51	1,790.17	1,774.85	15.32	116.851		
2,429.47	2,307.63	1,923.10	1,916.49	13.26	6.67	6.94	838.49	2,146.77	1,777.83	1,762.30	15.53	114.463		
2,500.00	2,364.26	1,975.00	1,967.15	14.06	6.89	6.92	846.14	2,155.09	1,748.31	1,732.27	16.04	109.015		
2,600.00	2,444.56	2,027.52	2,018.28	15.22	7.12	6.91	853.74	2,164.37	1,707.78	1,691.10	16.68	102.386		
2,700.00	2,524.85	2,085.87	2,074.87	16.39	7.38	6.94	861.63	2,176.23	1,669.25	1,651.90	17.35	96.185		
2,800.00	2,605.14	2,157.90	2,144.51	17.57	7.71	7.03	870.51	2,192.30	1,632.16	1,614.07	18.09	90.204		
2,900.00	2,685.43	2,238.22	2,222.02	18.76	8.08	7.20	878.97	2,211.60	1,596.05	1,577.18	18.88	84.551		
3,000.00	2,765.73	2,311.70	2,292.75	19.96	8.44	7.43	885.54	2,230.36	1,560.85	1,541.21	19.64	79.462		
3,100.00	2,846.02	2,385.12	2,363.14	21.16	8.80	7.66	892.37	2,250.08	1,526.98	1,506.57	20.42	74.786		
3,200.00	2,926.31	2,449.00	2,424.19	22.37	9.13	7.88	898.18	2,267.97	1,494.34	1,473.18	21.16	70.612		
3,300.00	3,006.60	2,518.15	2,489.88	23.59	9.51	8.12	904.97	2,288.48	1,463.50	1,441.56	21.94	66.705		
3,400.00	3,086.90	2,598.68	2,565.78	24.81	9.96	8.39	913.91	2,313.84	1,434.66	1,411.88	22.78	62.987		
3,500.00	3,167.19	2,706.30	2,667.26	26.03	10.58	8.80	925.08	2,347.88	1,405.84	1,382.09	23.75	59.188		
3,600.00	3,247.48	2,808.86	2,764.30	27.25	11.18	9.19	935.94	2,379.26	1,376.13	1,351.42	24.71	55.685		
3,700.00	3,327.77	2,902.87	2,853.27	28.48	11.74	9.52	946.73	2,407.63	1,346.32	1,320.68	25.64	52.501		
3,800.00	3,408.07	2,997.39	2,942.70	29.71	12.32	9.87	957.62	2,436.24	1,316.67	1,290.08	26.59	49.521		
3,900.00	3,488.36	3,081.97	3,022.63	30.94	12.84	10.19	967.40	2,462.11	1,287.38	1,259.88	27.50	46.809		
4,000.00	3,568.65	3,176.10	3,111.35	32.17	13.43	10.55	978.82	2,491.41	1,258.82	1,230.35	28.47	44.217		
4,100.00	3,648.95	3,280.26	3,209.68	33.41	14.09	10.97	991.12	2,523.50	1,229.91	1,200.42	29.49	41.706		
4,200.00	3,729.24	3,385.13	3,308.98	34.64	14.74	11.48	1,002.32	2,555.31	1,200.30	1,169.77	30.53	39.317		
4,300.00	3,809.53	3,473.19	3,392.39	35.88	15.30	11.90	1,012.10	2,581.78	1,170.61	1,139.10	31.52	37.145		
4,400.00	3,889.82	3,567.18	3,481.27	37.12	15.90	12.34	1,023.24	2,610.27	1,141.42	1,108.88	32.54	35.081		
4,500.00	3,970.12	3,678.41	3,586.66	38.36	16.61	12.89	1,036.32	2,643.34	1,111.72	1,078.09	33.63	33.055		
4,600.00	4,050.41	3,767.73	3,671.46	39.60	17.17	13.38	1,046.24	2,669.57	1,081.57	1,046.89	34.68	31.190		
4,700.00	4,130.70	3,868.36	3,767.00	40.84	17.81	13.96	1,057.53	2,699.07	1,051.48	1,015.71	35.78	29.390		
4,800.00	4,210.99	3,960.76	3,854.79	42.08	18.39	14.53	1,067.80	2,726.03	1,021.34	984.46	36.88	27.697		
4,900.00	4,291.29	4,046.75	3,936.34	43.32	18.94	15.11	1,077.16	2,751.63	991.82	953.84	37.99	26.109		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,371.58	4,154.07	4,038.08	44.57	19.63	15.78	1,090.16	2,783.18	962.32	923.14	39.17	24.565		
5,100.00	4,451.87	4,257.49	4,136.51	45.81	20.29	16.45	1,102.99	2,812.22	931.66	891.29	40.36	23.081		
5,200.00	4,532.16	4,345.67	4,220.51	47.05	20.84	17.15	1,112.55	2,837.29	901.18	859.59	41.58	21.672		
5,300.00	4,612.46	4,440.14	4,310.39	48.30	21.44	17.95	1,122.74	2,864.51	871.21	828.34	42.86	20.326		
5,400.00	4,692.75	4,539.23	4,404.79	49.54	22.06	18.83	1,133.82	2,892.54	840.95	796.76	44.19	19.030		
5,500.00	4,773.04	4,622.16	4,483.52	50.79	22.60	19.51	1,144.43	2,916.33	811.49	765.98	45.51	17.832		
5,600.00	4,853.34	4,732.72	4,588.56	52.03	23.30	20.48	1,158.80	2,947.66	781.87	734.95	46.92	16.665		
5,700.00	4,933.63	4,836.09	4,687.44	53.28	23.94	21.60	1,170.35	2,975.53	750.84	702.42	48.42	15.507		
5,800.00	5,013.92	4,938.29	4,785.57	54.53	24.55	23.00	1,179.51	3,002.55	719.40	669.33	50.07	14.367		
5,900.00	5,094.21	5,045.87	4,889.53	55.77	25.16	24.69	1,188.26	3,028.81	686.25	634.39	51.86	13.234		
6,000.00	5,174.51	5,158.31	4,998.68	57.02	25.77	26.66	1,197.38	3,054.15	651.89	598.16	53.74	12.131		
6,100.00	5,254.80	5,279.87	5,117.95	58.27	26.36	29.34	1,204.78	3,076.37	614.01	558.21	55.80	11.004		
6,200.00	5,335.09	5,376.92	5,213.78	59.52	26.78	31.99	1,209.15	3,091.07	574.12	515.85	58.27	9.852		
6,300.00	5,415.38	5,491.82	5,327.78	60.76	27.23	35.75	1,213.74	3,104.56	532.27	471.33	60.94	8.734		
6,400.00	5,495.68	5,593.97	5,429.60	62.01	27.58	40.04	1,216.11	3,112.30	488.54	424.30	64.24	7.605		
6,500.00	5,575.97	5,691.64	5,527.19	63.26	27.86	45.26	1,216.98	3,115.89	443.90	375.61	68.30	6.500		
6,600.00	5,656.26	5,778.68	5,614.23	64.51	28.09	50.96	1,217.52	3,117.03	400.57	327.27	73.30	5.465		
6,700.00	5,736.55	5,860.32	5,695.86	65.76	28.31	57.31	1,218.17	3,117.55	360.97	281.80	79.17	4.560		
6,800.00	5,816.85	5,939.64	5,775.17	67.01	28.52	64.49	1,218.84	3,118.25	327.37	241.75	85.62	3.824		
6,900.00	5,897.14	6,021.43	5,856.95	68.26	28.74	72.87	1,219.65	3,119.21	301.62	209.67	91.95	3.280		
7,000.00	5,977.43	6,103.09	5,938.60	69.50	28.96	82.08	1,220.65	3,120.09	285.47	188.36	97.11	2.940		
7,089.45	6,049.25	6,175.87	6,011.37	70.62	29.15	90.73	1,221.49	3,120.66	280.65	180.90	99.75	2.814 CC		
7,100.00	6,057.72	6,184.44	6,019.95	70.75	29.18	91.75	1,221.59	3,120.71	280.72	180.81	99.90	2.810 ES, SF		
7,200.00	6,138.02	6,265.18	6,100.68	72.00	29.39	101.34	1,222.49	3,121.08	288.06	188.36	99.70	2.889		
7,300.00	6,218.31	6,344.73	6,180.23	73.25	29.60	110.27	1,223.18	3,121.25	306.92	209.96	96.96	3.166		
7,400.00	6,298.60	6,423.30	6,258.80	74.50	29.81	118.22	1,223.40	3,121.38	335.77	242.91	92.86	3.616		
7,500.00	6,378.90	6,505.81	6,341.30	75.75	30.03	125.46	1,223.65	3,121.61	371.90	283.29	88.61	4.197		
7,600.00	6,459.19	6,586.74	6,422.24	77.00	30.25	131.45	1,224.03	3,122.23	413.15	328.41	84.74	4.876		
7,700.00	6,539.48	6,666.64	6,502.13	78.25	30.47	136.41	1,224.25	3,123.11	458.28	376.83	81.45	5.626		
7,800.00	6,619.77	6,748.58	6,584.07	79.50	30.70	140.75	1,224.55	3,123.58	506.35	427.56	78.79	6.427		
7,900.00	6,700.07	6,832.51	6,667.99	80.75	30.93	144.50	1,225.25	3,124.29	556.11	479.38	76.74	7.247		
8,000.00	6,780.36	6,914.34	6,749.81	82.00	31.16	147.64	1,226.39	3,124.96	607.13	532.05	75.08	8.087		
8,100.00	6,860.65	6,992.17	6,827.63	83.25	31.38	150.21	1,227.37	3,125.37	659.62	585.92	73.70	8.950		
8,200.00	6,940.94	7,068.71	6,904.17	84.50	31.59	152.42	1,228.11	3,125.39	713.54	640.94	72.60	9.828		
8,300.00	7,021.24	7,153.20	6,988.65	85.76	31.82	154.58	1,229.11	3,125.14	768.29	696.34	71.95	10.678		
8,400.00	7,101.53	7,233.68	7,069.12	87.01	32.05	156.39	1,230.44	3,124.90	823.42	752.01	71.41	11.530		
8,500.00	7,181.82	7,313.91	7,149.34	88.26	32.27	157.97	1,231.63	3,124.69	879.15	808.09	71.06	12.372		
8,605.60	7,266.61	7,398.61	7,234.04	89.58	32.51	159.42	1,232.66	3,124.70	938.48	867.60	70.88	13.241		
8,650.00	7,302.60	7,434.37	7,269.79	90.13	32.61	152.13	1,233.00	3,124.75	962.59	891.80	70.79	13.598		
8,700.00	7,343.78	7,473.37	7,308.79	90.72	32.72	143.80	1,233.30	3,124.83	987.50	916.94	70.56	13.996		
8,750.00	7,385.32	7,511.73	7,347.15	91.28	32.82	135.49	1,233.41	3,124.90	1,010.03	939.81	70.22	14.383		
8,800.00	7,426.92	7,550.34	7,385.77	91.81	32.93	127.45	1,233.35	3,124.97	1,030.18	960.36	69.82	14.754		
8,850.00	7,468.27	7,589.70	7,425.12	92.29	33.03	119.98	1,233.19	3,125.00	1,047.90	978.52	69.38	15.103		
8,900.00	7,509.04	7,628.48	7,463.90	92.72	33.13	113.27	1,232.97	3,124.98	1,063.22	994.32	68.90	15.432		
8,950.00	7,548.93	7,667.84	7,503.26	93.10	33.24	107.49	1,232.68	3,124.93	1,076.18	1,007.77	68.41	15.732		
9,000.00	7,587.63	7,706.55	7,541.97	93.43	33.34	102.65	1,232.34	3,124.92	1,086.83	1,018.91	67.92	16.002		
9,050.00	7,624.85	7,744.88	7,580.30	93.71	33.44	98.75	1,231.95	3,124.95	1,095.29	1,027.82	67.46	16.235		
9,100.00	7,660.30	7,783.55	7,618.96	93.93	33.54	95.75	1,231.56	3,125.07	1,101.62	1,034.52	67.10	16.419		
9,150.00	7,693.72	7,820.16	7,655.57	94.10	33.64	93.48	1,231.20	3,125.28	1,105.98	1,039.20	66.78	16.560		
9,200.00	7,724.85	7,853.34	7,688.75	94.23	33.73	91.80	1,230.92	3,125.53	1,108.58	1,042.05	66.54	16.662		
9,250.00	7,753.45	7,883.51	7,718.92	94.30	33.82	90.63	1,230.76	3,125.75	1,109.66	1,043.27	66.39	16.713		
9,300.00	7,779.31	7,910.60	7,746.00	94.34	33.89	89.88	1,230.70	3,125.94	1,109.44	1,043.04	66.40	16.709		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	7,935.64	7,771.05	94.33	33.97	89.52	1,230.68	3,126.13	1,108.11	1,041.50	66.62	16.634		
9,400.00	7,822.03	7,957.78	7,793.18	94.28	34.03	89.45	1,230.68	3,126.34	1,105.88	1,038.82	67.06	16.491		
9,450.00	7,838.57	7,976.29	7,811.70	94.20	34.09	89.56	1,230.68	3,126.56	1,102.94	1,035.21	67.73	16.285		
9,500.00	7,851.72	7,991.02	7,826.43	94.10	34.13	89.80	1,230.68	3,126.75	1,099.47	1,030.84	68.64	16.019		
9,550.00	7,861.37	8,001.84	7,837.25	93.96	34.16	90.12	1,230.68	3,126.90	1,095.64	1,025.86	69.78	15.701		
9,600.00	7,867.46	8,008.66	7,844.06	93.81	34.18	90.47	1,230.69	3,127.00	1,091.58	1,020.43	71.16	15.341		
9,650.00	7,869.94	8,011.42	7,846.82	93.64	34.19	90.83	1,230.69	3,127.05	1,087.39	1,014.65	72.74	14.950		
9,659.14	7,870.00	8,011.49	7,846.89	93.60	34.19	90.89	1,230.69	3,127.05	1,086.61	1,013.57	73.04	14.876		
9,700.00	7,870.00	8,011.47	7,846.87	93.46	34.19	90.89	1,230.69	3,127.05	1,083.90	1,009.40	74.50	14.549		
9,751.56	7,870.00	8,011.44	7,846.84	93.27	34.19	90.89	1,230.69	3,127.05	1,082.68	1,006.17	76.50	14.152		
9,800.00	7,870.00	8,011.42	7,846.82	93.11	34.19	90.89	1,230.69	3,127.05	1,083.76	1,005.27	78.49	13.807		
9,900.00	7,870.00	8,011.37	7,846.77	92.77	34.19	90.89	1,230.69	3,127.05	1,092.80	1,009.96	82.84	13.191		
10,000.00	7,870.00	8,011.33	7,846.73	92.46	34.19	90.89	1,230.69	3,127.04	1,110.81	1,023.55	87.27	12.729		
10,100.00	7,870.00	8,011.28	7,846.68	92.16	34.19	90.88	1,230.69	3,127.04	1,137.36	1,045.82	91.54	12.425		
10,200.00	7,870.00	8,011.23	7,846.63	91.87	34.19	90.88	1,230.69	3,127.04	1,171.87	1,076.37	95.50	12.270		
10,300.00	7,870.00	8,011.19	7,846.59	91.60	34.19	90.88	1,230.69	3,127.04	1,213.66	1,114.60	99.07	12.251		
10,400.00	7,870.00	8,011.14	7,846.54	91.34	34.19	90.88	1,230.69	3,127.04	1,262.01	1,159.82	102.19	12.350		
10,500.00	7,870.00	8,011.09	7,846.49	91.11	34.19	90.87	1,230.69	3,127.04	1,316.19	1,211.32	104.87	12.550		
10,600.00	7,870.00	8,011.05	7,846.45	90.88	34.19	90.87	1,230.69	3,127.04	1,375.51	1,268.37	107.15	12.838		
10,700.00	7,870.00	8,011.00	7,846.40	90.67	34.19	90.87	1,230.69	3,127.04	1,439.35	1,330.29	109.06	13.198		
10,800.00	7,870.00	8,010.95	7,846.36	90.48	34.19	90.87	1,230.69	3,127.04	1,507.12	1,396.48	110.64	13.622		
10,900.00	7,870.00	8,010.91	7,846.31	90.31	34.19	90.86	1,230.69	3,127.04	1,578.32	1,466.37	111.95	14.098		
11,000.00	7,870.00	8,010.86	7,846.26	90.15	34.19	90.86	1,230.69	3,127.04	1,652.51	1,539.48	113.03	14.620		
11,100.00	7,870.00	8,010.82	7,846.22	90.00	34.19	90.86	1,230.69	3,127.04	1,729.30	1,615.39	113.91	15.181		
11,200.00	7,870.00	8,010.77	7,846.17	89.88	34.19	90.86	1,230.69	3,127.04	1,808.36	1,693.73	114.63	15.775		
11,300.00	7,870.00	8,010.73	7,846.13	89.77	34.19	90.85	1,230.69	3,127.04	1,889.41	1,774.19	115.22	16.399		
11,400.00	7,870.00	8,010.68	7,846.08	89.68	34.19	90.85	1,230.69	3,127.03	1,972.19	1,856.50	115.69	17.047		
11,500.00	7,870.00	8,010.63	7,846.04	89.60	34.19	90.85	1,230.69	3,127.03	2,056.51	1,940.44	116.07	17.718		
11,600.00	7,870.00	8,010.59	7,845.99	89.55	34.19	90.85	1,230.69	3,127.03	2,142.18	2,025.80	116.38	18.407		
11,700.00	7,870.00	8,010.54	7,845.94	89.52	34.19	90.84	1,230.69	3,127.03	2,229.04	2,112.42	116.62	19.114		
11,800.00	7,870.00	8,010.50	7,845.90	89.50	34.19	90.84	1,230.69	3,127.03	2,316.96	2,200.15	116.81	19.835		
11,900.00	7,870.00	8,010.45	7,845.85	89.51	34.19	90.84	1,230.69	3,127.03	2,405.82	2,288.87	116.96	20.570		
12,000.00	7,870.00	8,010.41	7,845.81	89.54	34.19	90.84	1,230.69	3,127.03	2,495.53	2,378.46	117.07	21.317		
12,100.00	7,870.00	8,010.36	7,845.76	89.59	34.19	90.83	1,230.69	3,127.03	2,585.99	2,468.84	117.15	22.074		
12,200.00	7,870.00	8,010.32	7,845.72	89.66	34.18	90.83	1,230.69	3,127.03	2,677.14	2,559.93	117.21	22.841		
12,300.00	7,870.00	8,010.27	7,845.67	89.77	34.18	90.83	1,230.69	3,127.03	2,768.89	2,651.64	117.25	23.616		
12,400.00	7,870.00	8,010.23	7,845.63	89.89	34.18	90.83	1,230.69	3,127.03	2,861.19	2,743.92	117.27	24.398		
12,500.00	7,870.00	8,010.18	7,845.58	90.05	34.18	90.82	1,230.69	3,127.03	2,954.00	2,836.72	117.28	25.188		
12,600.00	7,870.00	8,010.14	7,845.54	90.24	34.18	90.82	1,230.69	3,127.03	3,047.26	2,929.99	117.28	25.983		
12,700.00	7,870.00	8,010.09	7,845.50	90.46	34.18	90.82	1,230.69	3,127.03	3,140.94	3,023.67	117.27	26.785		
12,800.00	7,870.00	8,010.05	7,845.45	90.71	34.18	90.82	1,230.69	3,127.02	3,234.99	3,117.75	117.25	27.592		
12,900.00	7,870.00	8,010.01	7,845.41	90.99	34.18	90.82	1,230.69	3,127.02	3,329.40	3,212.18	117.22	28.403		
13,000.00	7,870.00	8,009.96	7,845.36	91.32	34.18	90.81	1,230.69	3,127.02	3,424.11	3,306.92	117.19	29.218		
13,100.00	7,870.00	8,009.92	7,845.32	91.68	34.18	90.81	1,230.69	3,127.02	3,519.13	3,401.97	117.16	30.038		
13,200.00	7,870.00	8,009.87	7,845.27	92.08	34.18	90.81	1,230.69	3,127.02	3,614.41	3,497.29	117.12	30.861		
13,300.00	7,870.00	8,009.83	7,845.23	92.52	34.18	90.81	1,230.69	3,127.02	3,709.94	3,592.86	117.08	31.688		
13,400.00	7,870.00	8,009.79	7,845.19	93.00	34.18	90.80	1,230.69	3,127.02	3,805.70	3,688.66	117.04	32.517		
13,500.00	7,870.00	8,009.74	7,845.14	93.53	34.18	90.80	1,230.69	3,127.02	3,901.67	3,784.67	116.99	33.349		
13,600.00	7,870.00	8,009.70	7,845.10	94.10	34.18	90.80	1,230.69	3,127.02	3,997.84	3,880.89	116.95	34.184		
13,700.00	7,870.00	8,009.65	7,845.06	94.72	34.18	90.80	1,230.69	3,127.02	4,094.19	3,977.28	116.91	35.021		
13,800.00	7,870.00	8,009.61	7,845.01	95.38	34.18	90.79	1,230.69	3,127.02	4,190.71	4,073.85	116.86	35.861		
13,900.00	7,870.00	8,009.57	7,844.97	96.09	34.18	90.79	1,230.69	3,127.02	4,287.40	4,170.58	116.82	36.702		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	8,009.52	7,844.93	96.84	34.18	90.79	1,230.69	3,127.02	4,384.23	4,267.46	116.77	37.545		
14,100.00	7,870.00	8,009.48	7,844.88	97.64	34.18	90.79	1,230.69	3,127.02	4,481.20	4,364.47	116.73	38.390		
14,200.00	7,870.00	8,009.44	7,844.84	98.48	34.18	90.79	1,230.69	3,127.02	4,578.30	4,461.61	116.68	39.237		
14,300.00	7,870.00	8,009.39	7,844.80	99.37	34.18	90.78	1,230.69	3,127.01	4,675.52	4,558.88	116.64	40.085		
14,400.00	7,870.00	8,009.35	7,844.75	100.30	34.18	90.78	1,230.69	3,127.01	4,772.86	4,656.26	116.60	40.934		
14,500.00	7,870.00	8,009.31	7,844.71	101.26	34.18	90.78	1,230.69	3,127.01	4,870.31	4,753.75	116.56	41.784		
14,600.00	7,870.00	8,009.27	7,844.67	102.27	34.18	90.78	1,230.69	3,127.01	4,967.85	4,851.34	116.52	42.636		
14,700.00	7,870.00	8,009.22	7,844.62	103.31	34.18	90.77	1,230.69	3,127.01	5,065.50	4,949.02	116.48	43.489		
14,800.00	7,870.00	8,009.18	7,844.58	104.38	34.18	90.77	1,230.69	3,127.01	5,163.23	5,046.79	116.44	44.343		
14,900.00	7,870.00	8,009.14	7,844.54	105.49	34.18	90.77	1,230.69	3,127.01	5,261.05	5,144.65	116.40	45.197		
15,000.00	7,870.00	8,009.09	7,844.50	106.63	34.18	90.77	1,230.69	3,127.01	5,358.95	5,242.58	116.37	46.053		
15,100.00	7,870.00	8,009.05	7,844.45	107.80	34.18	90.76	1,230.69	3,127.01	5,456.92	5,340.59	116.33	46.909		
15,200.00	7,870.00	8,009.01	7,844.41	109.00	34.18	90.76	1,230.69	3,127.01	5,554.97	5,438.68	116.30	47.766		
15,300.00	7,870.00	8,008.97	7,844.37	110.22	34.18	90.76	1,230.69	3,127.01	5,653.09	5,536.82	116.26	48.623		
15,400.00	7,870.00	8,008.92	7,844.33	111.47	34.18	90.76	1,230.69	3,127.01	5,751.27	5,635.04	116.23	49.481		
15,500.00	7,870.00	8,008.88	7,844.28	112.74	34.18	90.76	1,230.69	3,127.01	5,849.51	5,733.31	116.20	50.340		
15,600.00	7,870.00	8,008.84	7,844.24	114.03	34.18	90.75	1,230.69	3,127.01	5,947.81	5,831.64	116.17	51.199		
15,700.00	7,870.00	8,008.80	7,844.20	115.34	34.18	90.75	1,230.69	3,127.01	6,046.17	5,930.03	116.14	52.059		
15,800.00	7,870.00	8,008.76	7,844.16	116.68	34.18	90.75	1,230.69	3,127.00	6,144.58	6,028.46	116.11	52.918		
15,900.00	7,870.00	8,008.71	7,844.12	118.02	34.18	90.75	1,230.69	3,127.00	6,243.04	6,126.95	116.09	53.779		
16,000.00	7,870.00	8,008.67	7,844.07	119.39	34.18	90.74	1,230.69	3,127.00	6,341.55	6,225.48	116.06	54.639		
16,100.00	7,870.00	8,008.63	7,844.03	120.77	34.18	90.74	1,230.69	3,127.00	6,440.10	6,324.06	116.04	55.500		
16,200.00	7,870.00	8,008.59	7,843.99	122.17	34.18	90.74	1,230.69	3,127.00	6,538.70	6,422.68	116.02	56.361		
16,300.00	7,870.00	8,008.55	7,843.95	123.58	34.18	90.74	1,230.69	3,127.00	6,637.34	6,521.35	115.99	57.222		
16,400.00	7,870.00	8,008.51	7,843.91	125.00	34.18	90.74	1,230.69	3,127.00	6,736.02	6,620.05	115.97	58.083		
16,500.00	7,870.00	8,008.47	7,843.87	126.43	34.18	90.73	1,230.69	3,127.00	6,834.74	6,718.79	115.95	58.944		
16,600.00	7,870.00	8,008.42	7,843.83	127.88	34.18	90.73	1,230.69	3,127.00	6,933.49	6,817.56	115.93	59.806		
16,700.00	7,870.00	8,008.38	7,843.78	129.34	34.18	90.73	1,230.69	3,127.00	7,032.29	6,916.37	115.92	60.667		
16,800.00	7,870.00	8,008.34	7,843.74	130.81	34.18	90.73	1,230.69	3,127.00	7,131.11	7,015.21	115.90	61.528		
16,900.00	7,870.00	8,008.30	7,843.70	132.28	34.18	90.73	1,230.69	3,127.00	7,229.97	7,114.08	115.88	62.390		
17,000.00	7,870.00	8,008.26	7,843.66	133.77	34.18	90.72	1,230.69	3,127.00	7,328.85	7,212.99	115.87	63.251		
17,100.00	7,870.00	8,008.22	7,843.62	135.27	34.18	90.72	1,230.69	3,127.00	7,427.77	7,311.92	115.85	64.113		
17,200.00	7,870.00	8,008.18	7,843.58	136.77	34.18	90.72	1,230.69	3,127.00	7,526.72	7,410.88	115.84	64.974		
17,300.00	7,870.00	8,008.14	7,843.54	138.28	34.18	90.72	1,230.69	3,127.00	7,625.69	7,509.86	115.83	65.835		
17,400.00	7,870.00	8,008.10	7,843.50	139.80	34.18	90.71	1,230.69	3,126.99	7,724.69	7,608.87	115.82	66.696		
17,500.00	7,870.00	8,008.06	7,843.46	141.33	34.18	90.71	1,230.69	3,126.99	7,823.72	7,707.91	115.81	67.557		
17,600.00	7,870.00	8,008.02	7,843.42	142.86	34.18	90.71	1,230.69	3,126.99	7,922.77	7,806.97	115.80	68.418		
17,700.00	7,870.00	8,007.97	7,843.38	144.40	34.18	90.71	1,230.69	3,126.99	8,021.84	7,906.05	115.79	69.278		
17,800.00	7,870.00	8,007.93	7,843.34	145.95	34.18	90.71	1,230.69	3,126.99	8,120.94	8,005.15	115.78	70.139		
17,900.00	7,870.00	8,007.89	7,843.30	147.50	34.18	90.70	1,230.69	3,126.99	8,220.05	8,104.28	115.78	70.999		
18,000.00	7,870.00	8,007.85	7,843.26	149.06	34.18	90.70	1,230.69	3,126.99	8,319.19	8,203.42	115.77	71.859		
18,100.00	7,870.00	8,007.81	7,843.22	150.63	34.18	90.70	1,230.69	3,126.99	8,418.35	8,302.59	115.77	72.718		
18,200.00	7,870.00	8,007.77	7,843.18	152.20	34.18	90.70	1,230.69	3,126.99	8,517.53	8,401.77	115.76	73.577		
18,300.00	7,870.00	8,007.73	7,843.14	153.77	34.18	90.70	1,230.69	3,126.99	8,616.73	8,500.97	115.76	74.436		
18,400.00	7,870.00	8,007.69	7,843.10	155.35	34.18	90.69	1,230.69	3,126.99	8,715.95	8,600.19	115.76	75.295		
18,500.00	7,870.00	8,007.65	7,843.06	156.93	34.18	90.69	1,230.69	3,126.99	8,815.18	8,699.43	115.76	76.153		
18,600.00	7,870.00	8,007.61	7,843.02	158.52	34.18	90.69	1,230.69	3,126.99	8,914.43	8,798.68	115.75	77.011		
18,700.00	7,870.00	8,007.57	7,842.98	160.11	34.18	90.69	1,230.69	3,126.99	9,013.70	8,897.95	115.75	77.869		
18,800.00	7,870.00	8,007.53	7,842.94	161.71	34.18	90.68	1,230.69	3,126.99	9,112.98	8,997.23	115.76	78.726		
18,900.00	7,870.00	8,007.49	7,842.90	163.31	34.18	90.68	1,230.69	3,126.99	9,212.28	9,096.53	115.76	79.583		
19,000.00	7,870.00	8,007.46	7,842.86	164.91	34.18	90.68	1,230.69	3,126.98	9,311.60	9,195.84	115.76	80.439		
19,100.00	7,870.00	8,007.42	7,842.82	166.52	34.18	90.68	1,230.69	3,126.98	9,410.93	9,295.17	115.76	81.295		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,870.00	8,007.38	7,842.78	168.13	34.18	90.68	1,230.69	3,126.98	9,510.27	9,394.50	115.77	82.151	
19,300.00	7,870.00	8,007.34	7,842.74	169.75	34.18	90.67	1,230.69	3,126.98	9,609.63	9,493.86	115.77	83.006	
19,383.51	7,870.00	8,007.30	7,842.71	171.10	34.18	90.67	1,230.69	3,126.98	9,692.61	9,576.83	115.77	83.720	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	70.15	754.16	2,088.76	2,221.11					
100.00	100.00	80.17	80.17	0.13	0.13	70.15	753.84	2,088.46	2,220.45	2,220.19	0.26	8,503.552		
200.00	200.00	167.01	167.01	0.49	0.41	70.16	753.41	2,087.92	2,219.71	2,218.80	0.90	2,456.772		
300.00	300.00	275.73	275.72	0.85	0.80	70.15	753.71	2,087.30	2,219.27	2,217.62	1.65	1,347.261		
400.00	400.00	381.98	381.97	1.21	1.18	70.14	753.64	2,086.38	2,218.44	2,216.06	2.38	930.484		
500.00	500.00	538.40	538.31	1.57	1.73	70.22	749.73	2,084.35	2,216.51	2,213.21	3.30	672.162		
600.00	600.00	662.52	662.10	1.93	2.19	70.40	741.26	2,081.61	2,212.05	2,207.95	4.10	539.114		
700.00	699.98	742.32	741.46	2.28	2.48	6.79	732.98	2,080.99	2,206.12	2,201.37	4.75	464.294		
800.00	799.84	821.03	819.50	2.64	2.79	7.09	722.75	2,081.88	2,197.68	2,192.27	5.41	406.566		
900.00	899.45	876.88	874.69	3.00	3.01	7.35	714.38	2,083.70	2,187.25	2,181.27	5.98	365.607		
1,000.00	998.70	920.00	917.20	3.37	3.18	7.59	707.58	2,086.06	2,175.53	2,169.02	6.51	334.232		
1,100.00	1,097.47	990.87	986.82	3.76	3.48	8.02	695.54	2,091.59	2,162.22	2,155.05	7.17	301.714		
1,200.00	1,195.62	1,043.55	1,038.32	4.18	3.70	8.39	685.89	2,097.02	2,147.53	2,139.78	7.75	277.114		
1,300.00	1,293.06	1,109.00	1,102.01	4.63	3.99	8.89	673.54	2,105.65	2,131.90	2,123.49	8.41	253.528		
1,400.00	1,389.64	1,148.84	1,140.65	5.11	4.18	9.23	665.96	2,111.75	2,114.88	2,105.93	8.95	236.189		
1,500.00	1,485.27	1,214.92	1,204.65	5.63	4.48	9.79	653.70	2,122.67	2,096.44	2,086.80	9.63	217.588		
1,600.00	1,579.82	1,287.56	1,275.08	6.20	4.83	10.42	641.14	2,135.21	2,075.99	2,065.64	10.36	200.411		
1,700.00	1,673.17	1,351.68	1,337.16	6.83	5.14	11.01	630.28	2,147.06	2,053.72	2,042.67	11.05	185.853		
1,800.00	1,765.21	1,420.71	1,403.71	7.51	5.49	11.70	618.20	2,160.85	2,029.74	2,017.96	11.78	172.264		
1,900.00	1,855.84	1,501.75	1,481.45	8.24	5.92	12.58	603.10	2,178.05	2,003.78	1,991.17	12.61	158.962		
2,000.00	1,944.94	1,595.32	1,571.09	9.05	6.44	13.66	585.04	2,197.93	1,974.95	1,961.43	13.52	146.054		
2,100.00	2,032.39	1,682.83	1,654.91	9.91	6.93	14.76	568.25	2,216.62	1,943.56	1,929.14	14.43	134.735		
2,200.00	2,118.11	1,773.70	1,742.04	10.85	7.44	16.00	550.95	2,235.75	1,909.30	1,893.94	15.37	124.243		
2,300.00	2,201.97	1,844.53	1,809.93	11.85	7.85	17.08	537.64	2,250.97	1,872.95	1,856.73	16.22	115.482		
2,400.00	2,283.88	1,954.98	1,915.93	12.93	8.49	18.79	517.12	2,274.22	1,833.79	1,816.47	17.32	105.862		
2,429.47	2,307.63	1,976.89	1,936.98	13.26	8.62	19.18	513.05	2,278.72	1,821.70	1,804.10	17.60	103.531		
2,500.00	2,364.26	2,029.26	1,987.27	14.06	8.92	19.92	503.32	2,289.62	1,792.85	1,774.60	18.25	98.236		
2,600.00	2,444.56	2,098.37	2,053.54	15.22	9.33	20.93	490.42	2,304.40	1,753.10	1,733.92	19.18	91.413		
2,700.00	2,524.85	2,193.15	2,144.24	16.39	9.89	22.38	472.23	2,325.06	1,714.55	1,694.25	20.30	84.474		
2,800.00	2,605.14	2,287.77	2,234.74	17.57	10.47	23.92	452.88	2,344.71	1,675.99	1,654.52	21.46	78.088		
2,900.00	2,685.43	2,362.87	2,306.64	18.76	10.92	25.19	437.68	2,360.20	1,638.36	1,615.81	22.55	72.659		
3,000.00	2,765.73	2,437.92	2,378.52	19.96	11.37	26.48	423.26	2,376.25	1,602.44	1,578.77	23.67	67.701		
3,100.00	2,846.02	2,526.66	2,463.51	21.16	11.91	28.05	406.09	2,395.13	1,567.56	1,542.64	24.92	62.905		
3,200.00	2,926.31	2,608.26	2,541.54	22.37	12.41	29.58	389.58	2,412.37	1,533.85	1,507.67	26.18	58.590		
3,300.00	3,006.60	2,691.83	2,621.46	23.59	12.93	31.20	372.71	2,430.04	1,501.49	1,473.99	27.50	54.596		
3,400.00	3,086.90	2,773.85	2,700.02	24.81	13.43	32.81	356.79	2,447.47	1,470.54	1,441.69	28.86	50.963		
3,500.00	3,167.19	2,859.79	2,782.37	26.03	13.95	34.54	340.39	2,465.75	1,441.04	1,410.76	30.28	47.584		
3,600.00	3,247.48	2,964.26	2,882.60	27.25	14.58	36.74	320.16	2,487.17	1,412.54	1,380.64	31.91	44.273		
3,700.00	3,327.77	3,036.47	2,952.00	28.48	15.02	38.31	306.25	2,501.44	1,385.06	1,351.72	33.35	41.536		
3,800.00	3,408.07	3,110.38	3,022.92	29.71	15.47	39.93	292.40	2,517.00	1,360.24	1,325.40	34.84	39.040		
3,900.00	3,488.36	3,196.54	3,105.48	30.94	15.99	41.90	275.60	2,534.99	1,337.34	1,300.85	36.49	36.649		
4,000.00	3,568.65	3,285.28	3,190.68	32.17	16.53	43.96	258.86	2,553.36	1,316.06	1,277.85	38.21	34.444		
4,100.00	3,648.95	3,368.87	3,270.98	33.41	17.03	45.93	243.33	2,570.57	1,296.63	1,256.70	39.93	32.473		
4,200.00	3,729.24	3,449.63	3,348.55	34.64	17.52	47.88	228.30	2,587.28	1,279.39	1,237.72	41.67	30.703		
4,300.00	3,809.53	3,525.13	3,420.95	35.88	17.98	49.75	213.72	2,602.96	1,264.68	1,221.27	43.41	29.134		
4,400.00	3,889.82	3,605.07	3,497.46	37.12	18.48	51.78	197.60	2,619.62	1,252.69	1,207.46	45.23	27.697		
4,500.00	3,970.12	3,697.39	3,585.91	38.36	19.04	54.12	179.80	2,639.16	1,242.98	1,195.78	47.20	26.334		
4,600.00	4,050.41	3,776.96	3,662.32	39.60	19.53	56.13	165.18	2,655.86	1,235.12	1,186.06	49.06	25.176		
4,700.00	4,130.70	3,853.65	3,735.74	40.84	20.00	58.11	150.27	2,672.26	1,230.48	1,179.57	50.91	24.170		
4,800.00	4,210.99	3,942.93	3,821.31	42.08	20.55	60.43	132.80	2,690.80	1,227.98	1,175.06	52.92	23.203		
4,839.15	4,242.42	3,971.34	3,848.53	42.57	20.73	61.17	127.29	2,696.78	1,227.74	1,174.10	53.64	22.890 CC		
4,900.00	4,291.29	4,015.96	3,891.24	43.32	21.01	62.32	118.69	2,706.45	1,228.33	1,173.58	54.75	22.437		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,000.00	4,371.58	4,105.14	3,976.58	44.57	21.56	64.62	101.35	2,725.63	1,231.29	1,174.52	56.77	21.690		
5,100.00	4,451.87	4,215.16	4,082.26	45.81	22.23	67.42	81.30	2,748.74	1,235.68	1,176.64	59.04	20.929		
5,200.00	4,532.16	4,283.79	4,148.22	47.05	22.64	69.15	69.17	2,763.27	1,242.18	1,181.38	60.79	20.433		
5,300.00	4,612.46	4,361.70	4,223.00	48.30	23.12	71.11	54.62	2,779.63	1,251.62	1,188.97	62.65	19.979		
5,400.00	4,692.75	4,433.68	4,292.00	49.54	23.56	72.93	40.55	2,794.52	1,263.88	1,199.48	64.40	19.627		
5,500.00	4,773.04	4,503.27	4,358.44	50.79	24.00	74.64	26.78	2,809.95	1,279.34	1,213.27	66.07	19.364		
5,600.00	4,853.34	4,573.91	4,425.73	52.03	24.46	76.36	11.98	2,825.54	1,297.80	1,230.09	67.72	19.165		
5,700.00	4,933.63	4,643.77	4,492.11	53.28	24.92	78.05	-3.44	2,840.93	1,319.21	1,249.90	69.31	19.033		
5,800.00	5,013.92	5,800.00	4,592.31	54.53	32.34	80.52	-25.85	2,864.08	1,342.00	1,265.91	76.08	17.639		
5,900.00	5,094.21	4,870.08	4,708.48	55.77	26.34	83.29	-49.21	2,888.77	1,364.42	1,290.66	73.75	18.500		
6,000.00	5,174.51	4,991.09	4,825.39	57.02	27.03	86.02	-71.15	2,910.92	1,387.41	1,311.44	75.97	18.263		
6,100.00	5,254.80	5,130.40	4,961.29	58.27	27.77	89.13	-92.63	2,932.76	1,409.28	1,330.97	78.30	17.998		
6,200.00	5,335.09	5,320.51	5,148.84	59.52	28.61	93.29	-112.01	2,956.55	1,427.69	1,346.81	80.88	17.652		
6,300.00	5,415.38	5,455.93	5,283.61	60.76	29.09	96.32	-120.73	2,966.41	1,444.13	1,361.42	82.71	17.460		
6,400.00	5,495.68	5,594.32	5,421.83	62.01	29.50	99.47	-125.30	2,971.36	1,459.30	1,374.95	84.35	17.301		
6,500.00	5,575.97	5,697.95	5,525.42	63.26	29.77	101.82	-126.29	2,973.26	1,474.52	1,388.80	85.73	17.200		
6,600.00	5,656.26	5,788.38	5,615.85	64.51	29.99	103.85	-126.40	2,973.98	1,491.13	1,404.16	86.97	17.146		
6,700.00	5,736.55	5,866.37	5,693.84	65.76	30.18	105.60	-126.34	2,974.14	1,509.65	1,421.56	88.09	17.139		
6,800.00	5,816.85	5,949.24	5,776.71	67.01	30.37	107.42	-126.47	2,974.13	1,530.44	1,441.31	89.12	17.172		
6,900.00	5,897.14	6,035.81	5,863.28	68.26	30.57	109.28	-126.15	2,974.40	1,552.81	1,462.73	90.09	17.237		
7,000.00	5,977.43	6,114.65	5,942.12	69.50	30.74	110.95	-125.82	2,974.14	1,577.06	1,486.12	90.94	17.342		
7,100.00	6,057.72	6,191.28	6,018.75	70.75	30.91	112.55	-125.64	2,973.65	1,603.31	1,511.61	91.70	17.484		
7,200.00	6,138.02	6,274.92	6,102.39	72.00	31.09	114.25	-125.44	2,973.36	1,631.34	1,538.92	92.42	17.652		
7,300.00	6,218.31	6,351.07	6,178.54	73.25	31.27	115.75	-125.27	2,973.34	1,661.03	1,567.98	93.05	17.851		
7,400.00	6,298.60	6,433.31	6,260.78	74.50	31.45	117.34	-125.18	2,973.00	1,692.43	1,598.79	93.63	18.075		
7,500.00	6,378.90	6,534.14	6,361.60	75.75	31.68	119.24	-124.46	2,972.29	1,724.91	1,630.68	94.23	18.305		
7,600.00	6,459.19	6,617.24	6,444.69	77.00	31.88	120.72	-123.19	2,973.21	1,757.91	1,663.16	94.75	18.553		
7,700.00	6,539.48	6,689.97	6,517.40	78.25	32.07	121.96	-122.47	2,974.35	1,792.56	1,697.35	95.20	18.829		
7,800.00	6,619.77	6,768.94	6,596.36	79.50	32.27	123.28	-121.94	2,975.25	1,828.72	1,733.08	95.64	19.120		
7,900.00	6,700.07	6,864.81	6,692.20	80.75	32.52	124.80	-120.96	2,977.66	1,865.43	1,769.28	96.16	19.400		
8,000.00	6,780.36	6,925.75	6,753.12	82.00	32.68	125.75	-120.46	2,978.78	1,903.52	1,807.06	96.46	19.734		
8,100.00	6,860.65	6,990.31	6,817.69	83.25	32.85	126.75	-120.32	2,978.92	1,943.41	1,846.69	96.72	20.094		
8,200.00	6,940.94	7,063.68	6,891.05	84.50	33.03	127.88	-120.54	2,978.62	1,984.84	1,887.86	96.98	20.466		
8,300.00	7,021.24	7,152.27	6,979.64	85.76	33.24	129.20	-120.52	2,977.92	2,027.06	1,929.76	97.30	20.833		
8,400.00	7,101.53	7,241.35	7,068.72	87.01	33.45	130.48	-120.05	2,977.03	2,069.85	1,972.25	97.60	21.207		
8,500.00	7,181.82	7,329.99	7,157.34	88.26	33.65	131.73	-118.95	2,975.92	2,113.01	2,015.14	97.88	21.588		
8,605.60	7,266.61	7,398.37	7,225.72	89.58	33.82	132.65	-118.45	2,975.40	2,159.72	2,061.68	98.04	22.029		
8,650.00	7,302.60	7,431.40	7,258.75	90.13	33.90	126.54	-118.45	2,975.32	2,178.34	2,080.21	98.13	22.199		
8,700.00	7,343.78	7,472.00	7,299.35	90.72	34.00	119.34	-118.41	2,975.07	2,195.95	2,097.72	98.23	22.355		
8,750.00	7,385.32	7,513.72	7,341.07	91.28	34.10	111.98	-118.29	2,974.64	2,209.96	2,111.64	98.32	22.477		
8,800.00	7,426.92	7,559.17	7,386.51	91.81	34.21	104.76	-118.15	2,974.26	2,220.24	2,121.83	98.41	22.561		
8,850.00	7,468.27	7,604.64	7,431.98	92.29	34.32	97.93	-118.01	2,974.09	2,226.76	2,128.27	98.49	22.610		
8,900.00	7,509.04	7,649.75	7,477.10	92.72	34.44	91.76	-117.82	2,974.03	2,229.51	2,130.97	98.53	22.627		
8,950.00	7,548.93	7,693.86	7,521.20	93.10	34.55	86.41	-117.55	2,973.99	2,228.52	2,129.98	98.54	22.614		
9,000.00	7,587.63	7,726.42	7,553.76	93.43	34.64	81.76	-117.39	2,973.99	2,223.96	2,125.50	98.46	22.589		
9,050.00	7,624.85	7,758.11	7,585.45	93.71	34.72	78.00	-117.35	2,974.05	2,215.98	2,117.65	98.33	22.537		
9,100.00	7,660.30	7,788.91	7,616.25	93.93	34.80	75.09	-117.42	2,974.14	2,204.67	2,106.51	98.16	22.460		
9,150.00	7,693.72	7,822.33	7,649.67	94.10	34.90	73.06	-117.54	2,974.25	2,190.10	2,092.11	97.98	22.352		
9,200.00	7,724.85	7,853.44	7,680.78	94.23	34.98	71.75	-117.64	2,974.34	2,172.38	2,074.62	97.76	22.223		
9,250.00	7,753.45	7,882.22	7,709.56	94.30	35.06	71.15	-117.73	2,974.40	2,151.67	2,054.19	97.48	22.073		
9,300.00	7,779.31	7,910.76	7,738.10	94.34	35.14	71.25	-117.80	2,974.47	2,128.13	2,030.96	97.18	21.900		
9,350.00	7,802.23	7,936.05	7,763.38	94.33	35.22	72.00	-117.84	2,974.56	2,101.96	2,005.13	96.82	21.709		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,957.88	7,785.21	94.28	35.28	73.36	-117.87	2,974.65	2,073.36	1,976.93	96.43	21.502		
9,450.00	7,838.57	7,976.08	7,803.42	94.20	35.33	75.34	-117.88	2,974.74	2,042.56	1,946.57	95.98	21.280		
9,500.00	7,851.72	7,989.96	7,817.29	94.10	35.37	77.92	-117.88	2,974.82	2,009.78	1,914.29	95.50	21.046		
9,550.00	7,861.37	8,000.20	7,827.54	93.96	35.40	81.14	-117.89	2,974.88	1,975.27	1,880.30	94.97	20.798		
9,600.00	7,867.46	8,006.67	7,834.01	93.81	35.41	84.99	-117.89	2,974.92	1,939.25	1,844.83	94.42	20.538		
9,650.00	7,869.94	8,009.31	7,836.65	93.64	35.42	89.47	-117.89	2,974.94	1,901.96	1,808.11	93.85	20.266		
9,659.14	7,870.00	8,009.38	7,836.72	93.60	35.42	90.36	-117.89	2,974.94	1,895.03	1,801.29	93.74	20.215		
9,700.00	7,870.00	8,009.39	7,836.73	93.46	35.42	90.36	-117.89	2,974.94	1,864.13	1,770.88	93.25	19.990		
9,800.00	7,870.00	8,009.41	7,836.75	93.11	35.42	90.36	-117.89	2,974.94	1,790.21	1,698.24	91.98	19.464		
9,900.00	7,870.00	8,009.44	7,836.78	92.77	35.42	90.36	-117.89	2,974.94	1,718.94	1,628.35	90.59	18.975		
10,000.00	7,870.00	8,009.46	7,836.80	92.46	35.42	90.36	-117.89	2,974.94	1,650.64	1,561.55	89.09	18.528		
10,100.00	7,870.00	8,009.49	7,836.82	92.16	35.42	90.36	-117.89	2,974.94	1,585.71	1,498.23	87.48	18.126		
10,200.00	7,870.00	8,009.51	7,836.85	91.87	35.42	90.37	-117.89	2,974.94	1,524.58	1,438.79	85.79	17.770		
10,300.00	7,870.00	8,009.53	7,836.87	91.60	35.42	90.37	-117.89	2,974.94	1,467.73	1,383.68	84.05	17.462		
10,400.00	7,870.00	8,009.56	7,836.89	91.34	35.42	90.37	-117.89	2,974.94	1,415.66	1,333.35	82.32	17.198		
10,500.00	7,870.00	8,009.58	7,836.92	91.11	35.42	90.37	-117.89	2,974.94	1,368.93	1,288.27	80.66	16.972		
10,600.00	7,870.00	8,009.61	7,836.94	90.88	35.42	90.37	-117.89	2,974.94	1,328.10	1,248.91	79.18	16.772		
10,700.00	7,870.00	8,009.63	7,836.97	90.67	35.42	90.37	-117.89	2,974.94	1,293.72	1,215.71	78.01	16.584		
10,800.00	7,870.00	8,009.65	7,836.99	90.48	35.42	90.37	-117.89	2,974.94	1,266.33	1,189.08	77.25	16.392		
10,900.00	7,870.00	8,009.68	7,837.01	90.31	35.42	90.37	-117.89	2,974.94	1,246.38	1,169.37	77.01	16.184		
11,000.00	7,870.00	8,009.70	7,837.04	90.15	35.42	90.37	-117.89	2,974.94	1,234.24	1,156.89	77.34	15.958		
11,100.00	7,870.00	8,009.72	7,837.06	90.00	35.42	90.38	-117.89	2,974.94	1,230.13	1,151.91	78.22	15.727		
11,100.64	7,870.00	8,009.72	7,837.06	90.00	35.42	90.38	-117.89	2,974.94	1,230.13	1,151.90	78.23	15.725 ES		
11,200.00	7,870.00	8,009.75	7,837.09	89.88	35.42	90.38	-117.89	2,974.94	1,234.13	1,154.56	79.57	15.509		
11,300.00	7,870.00	8,009.77	7,837.11	89.77	35.42	90.38	-117.89	2,974.94	1,246.18	1,164.88	81.30	15.329		
11,400.00	7,870.00	8,009.80	7,837.13	89.68	35.42	90.38	-117.89	2,974.94	1,266.03	1,182.77	83.25	15.207		
11,500.00	7,870.00	8,009.82	7,837.16	89.60	35.42	90.38	-117.89	2,974.94	1,293.33	1,207.99	85.33	15.156 SF		
11,600.00	7,870.00	8,009.84	7,837.18	89.55	35.42	90.38	-117.89	2,974.94	1,327.62	1,240.19	87.43	15.185		
11,700.00	7,870.00	8,009.87	7,837.20	89.52	35.42	90.38	-117.89	2,974.94	1,368.37	1,278.90	89.48	15.293		
11,800.00	7,870.00	8,009.89	7,837.23	89.50	35.42	90.38	-117.89	2,974.94	1,415.03	1,323.61	91.42	15.479		
11,900.00	7,870.00	8,009.91	7,837.25	89.51	35.42	90.38	-117.89	2,974.94	1,467.03	1,373.81	93.22	15.737		
12,000.00	7,870.00	8,009.94	7,837.27	89.54	35.42	90.39	-117.89	2,974.94	1,523.83	1,428.95	94.88	16.061		
12,100.00	7,870.00	8,009.96	7,837.30	89.59	35.42	90.39	-117.89	2,974.94	1,584.91	1,488.52	96.38	16.444		
12,200.00	7,870.00	8,009.98	7,837.32	89.66	35.42	90.39	-117.89	2,974.94	1,649.79	1,552.05	97.74	16.879		
12,300.00	7,870.00	8,010.01	7,837.34	89.77	35.42	90.39	-117.89	2,974.94	1,718.04	1,619.09	98.95	17.362		
12,400.00	7,870.00	8,010.03	7,837.37	89.89	35.42	90.39	-117.89	2,974.94	1,789.29	1,689.25	100.04	17.886		
12,500.00	7,870.00	8,010.05	7,837.39	90.05	35.42	90.39	-117.89	2,974.94	1,863.17	1,762.17	101.01	18.446		
12,600.00	7,870.00	8,010.08	7,837.41	90.24	35.42	90.39	-117.89	2,974.94	1,939.41	1,837.53	101.87	19.038		
12,700.00	7,870.00	8,010.10	7,837.44	90.46	35.42	90.39	-117.89	2,974.94	2,017.71	1,915.07	102.64	19.658		
12,800.00	7,870.00	8,010.12	7,837.46	90.71	35.42	90.39	-117.89	2,974.94	2,097.86	1,994.54	103.32	20.304		
12,900.00	7,870.00	8,010.15	7,837.48	90.99	35.42	90.40	-117.89	2,974.94	2,179.66	2,075.72	103.93	20.971		
13,000.00	7,870.00	8,010.17	7,837.51	91.32	35.42	90.40	-117.89	2,974.94	2,262.91	2,158.43	104.48	21.659		
13,100.00	7,870.00	8,010.19	7,837.53	91.68	35.42	90.40	-117.89	2,974.94	2,347.48	2,242.51	104.97	22.364		
13,200.00	7,870.00	8,010.22	7,837.55	92.08	35.42	90.40	-117.89	2,974.94	2,433.21	2,327.81	105.40	23.085		
13,300.00	7,870.00	8,010.24	7,837.58	92.52	35.42	90.40	-117.89	2,974.94	2,520.00	2,414.20	105.80	23.819		
13,400.00	7,870.00	8,010.26	7,837.60	93.00	35.42	90.40	-117.89	2,974.94	2,607.73	2,501.58	106.15	24.566		
13,500.00	7,870.00	8,010.29	7,837.62	93.53	35.42	90.40	-117.89	2,974.95	2,696.32	2,589.85	106.47	25.325		
13,600.00	7,870.00	8,010.31	7,837.65	94.10	35.42	90.40	-117.89	2,974.95	2,785.68	2,678.92	106.76	26.093		
13,700.00	7,870.00	8,010.33	7,837.67	94.72	35.42	90.40	-117.89	2,974.95	2,875.74	2,768.72	107.02	26.871		
13,800.00	7,870.00	8,010.36	7,837.69	95.38	35.42	90.40	-117.89	2,974.95	2,966.44	2,859.18	107.26	27.657		
13,900.00	7,870.00	8,010.38	7,837.72	96.09	35.42	90.41	-117.89	2,974.95	3,057.72	2,950.24	107.47	28.451		
14,000.00	7,870.00	8,010.40	7,837.74	96.84	35.42	90.41	-117.89	2,974.95	3,149.52	3,041.85	107.67	29.252		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,010.43	7,837.76	97.64	35.42	90.41	-117.89	2,974.95	3,241.82	3,133.97	107.85	30.058		
14,200.00	7,870.00	8,010.45	7,837.79	98.48	35.43	90.41	-117.89	2,974.95	3,334.55	3,226.54	108.02	30.871		
14,300.00	7,870.00	8,010.47	7,837.81	99.37	35.43	90.41	-117.89	2,974.95	3,427.70	3,319.53	108.17	31.688		
14,400.00	7,870.00	8,010.49	7,837.83	100.30	35.43	90.41	-117.89	2,974.95	3,521.22	3,412.91	108.31	32.511		
14,500.00	7,870.00	8,010.52	7,837.85	101.26	35.43	90.41	-117.89	2,974.95	3,615.09	3,506.65	108.44	33.337		
14,600.00	7,870.00	8,010.54	7,837.88	102.27	35.43	90.41	-117.89	2,974.95	3,709.28	3,600.72	108.56	34.168		
14,700.00	7,870.00	8,010.56	7,837.90	103.31	35.43	90.41	-117.89	2,974.95	3,803.76	3,695.09	108.67	35.002		
14,800.00	7,870.00	8,010.59	7,837.92	104.38	35.43	90.42	-117.89	2,974.95	3,898.52	3,789.75	108.78	35.840		
14,900.00	7,870.00	8,010.61	7,837.95	105.49	35.43	90.42	-117.89	2,974.95	3,993.54	3,884.67	108.87	36.681		
15,000.00	7,870.00	8,010.63	7,837.97	106.63	35.43	90.42	-117.89	2,974.95	4,088.79	3,979.83	108.96	37.525		
15,100.00	7,870.00	8,010.65	7,837.99	107.80	35.43	90.42	-117.89	2,974.95	4,184.27	4,075.22	109.05	38.371		
15,200.00	7,870.00	8,010.68	7,838.01	109.00	35.43	90.42	-117.89	2,974.95	4,279.95	4,170.82	109.13	39.220		
15,300.00	7,870.00	8,010.70	7,838.04	110.22	35.43	90.42	-117.89	2,974.95	4,375.82	4,266.62	109.20	40.070		
15,400.00	7,870.00	8,010.72	7,838.06	111.47	35.43	90.42	-117.89	2,974.95	4,471.88	4,362.61	109.27	40.923		
15,500.00	7,870.00	8,010.75	7,838.08	112.74	35.43	90.42	-117.89	2,974.95	4,568.11	4,458.76	109.34	41.778		
15,600.00	7,870.00	8,010.77	7,838.11	114.03	35.43	90.42	-117.89	2,974.95	4,664.49	4,555.08	109.41	42.635		
15,700.00	7,870.00	8,010.79	7,838.13	115.34	35.43	90.43	-117.89	2,974.95	4,761.02	4,651.56	109.47	43.493		
15,800.00	7,870.00	8,010.81	7,838.15	116.68	35.43	90.43	-117.89	2,974.95	4,857.70	4,748.17	109.52	44.353		
15,900.00	7,870.00	8,010.84	7,838.17	118.02	35.43	90.43	-117.89	2,974.95	4,954.50	4,844.92	109.58	45.214		
16,000.00	7,870.00	8,010.86	7,838.20	119.39	35.43	90.43	-117.89	2,974.95	5,051.43	4,941.80	109.63	46.076		
16,100.00	7,870.00	8,010.88	7,838.22	120.77	35.43	90.43	-117.89	2,974.95	5,148.48	5,038.79	109.68	46.939		
16,200.00	7,870.00	8,010.90	7,838.24	122.17	35.43	90.43	-117.89	2,974.95	5,245.64	5,135.90	109.73	47.804		
16,300.00	7,870.00	8,010.93	7,838.26	123.58	35.43	90.43	-117.89	2,974.95	5,342.90	5,233.12	109.78	48.669		
16,400.00	7,870.00	8,010.95	7,838.29	125.00	35.43	90.43	-117.89	2,974.95	5,440.26	5,330.44	109.83	49.536		
16,500.00	7,870.00	8,010.97	7,838.31	126.43	35.43	90.43	-117.89	2,974.95	5,537.72	5,427.85	109.87	50.403		
16,600.00	7,870.00	8,010.99	7,838.33	127.88	35.43	90.43	-117.89	2,974.95	5,635.26	5,525.35	109.91	51.271		
16,700.00	7,870.00	8,011.02	7,838.35	129.34	35.43	90.44	-117.89	2,974.95	5,732.89	5,622.94	109.95	52.139		
16,800.00	7,870.00	8,011.04	7,838.38	130.81	35.43	90.44	-117.89	2,974.95	5,830.60	5,720.61	109.99	53.008		
16,900.00	7,870.00	8,011.06	7,838.40	132.28	35.43	90.44	-117.89	2,974.95	5,928.39	5,818.36	110.03	53.878		
17,000.00	7,870.00	8,011.08	7,838.42	133.77	35.43	90.44	-117.89	2,974.95	6,026.25	5,916.18	110.07	54.748		
17,100.00	7,870.00	8,011.11	7,838.44	135.27	35.43	90.44	-117.89	2,974.95	6,124.18	6,014.07	110.11	55.619		
17,200.00	7,870.00	8,011.13	7,838.47	136.77	35.43	90.44	-117.89	2,974.95	6,222.17	6,112.02	110.15	56.489		
17,300.00	7,870.00	8,011.15	7,838.49	138.28	35.43	90.44	-117.89	2,974.95	6,320.23	6,210.04	110.18	57.361		
17,400.00	7,870.00	8,011.17	7,838.51	139.80	35.43	90.44	-117.89	2,974.95	6,418.35	6,308.13	110.22	58.232		
17,500.00	7,870.00	8,011.20	7,838.53	141.33	35.43	90.44	-117.89	2,974.95	6,516.52	6,406.26	110.26	59.104		
17,600.00	7,870.00	8,011.22	7,838.56	142.86	35.43	90.45	-117.89	2,974.95	6,614.75	6,504.46	110.29	59.976		
17,700.00	7,870.00	8,011.24	7,838.58	144.40	35.43	90.45	-117.89	2,974.95	6,713.03	6,602.71	110.32	60.848		
17,800.00	7,870.00	8,011.26	7,838.60	145.95	35.43	90.45	-117.89	2,974.95	6,811.36	6,701.00	110.36	61.720		
17,900.00	7,870.00	8,011.29	7,838.62	147.50	35.43	90.45	-117.89	2,974.95	6,909.74	6,799.35	110.39	62.593		
18,000.00	7,870.00	8,011.31	7,838.64	149.06	35.43	90.45	-117.89	2,974.95	7,008.17	6,897.74	110.43	63.465		
18,100.00	7,870.00	8,011.33	7,838.67	150.63	35.43	90.45	-117.89	2,974.95	7,106.64	6,996.18	110.46	64.337		
18,200.00	7,870.00	8,011.35	7,838.69	152.20	35.43	90.45	-117.89	2,974.95	7,205.15	7,094.65	110.49	65.210		
18,300.00	7,870.00	8,011.37	7,838.71	153.77	35.43	90.45	-117.89	2,974.95	7,303.70	7,193.17	110.52	66.082		
18,400.00	7,870.00	8,011.40	7,838.73	155.35	35.43	90.45	-117.89	2,974.95	7,402.29	7,291.73	110.56	66.954		
18,500.00	7,870.00	8,011.42	7,838.75	156.93	35.43	90.45	-117.89	2,974.95	7,500.92	7,390.33	110.59	67.826		
18,600.00	7,870.00	8,011.44	7,838.78	158.52	35.43	90.46	-117.89	2,974.95	7,599.58	7,488.96	110.62	68.698		
18,700.00	7,870.00	8,011.46	7,838.80	160.11	35.43	90.46	-117.89	2,974.95	7,698.28	7,587.62	110.66	69.570		
18,800.00	7,870.00	8,011.48	7,838.82	161.71	35.43	90.46	-117.89	2,974.95	7,797.01	7,686.32	110.69	70.442		
18,900.00	7,870.00	8,011.51	7,838.84	163.31	35.43	90.46	-117.89	2,974.95	7,895.77	7,785.05	110.72	71.313		
19,000.00	7,870.00	8,011.53	7,838.87	164.91	35.43	90.46	-117.89	2,974.95	7,994.57	7,883.82	110.75	72.184		
19,100.00	7,870.00	8,011.55	7,838.89	166.52	35.43	90.46	-117.89	2,974.95	8,093.39	7,982.61	110.78	73.055		
19,200.00	7,870.00	8,011.57	7,838.91	168.13	35.43	90.46	-117.89	2,974.95	8,192.24	8,081.43	110.82	73.926		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	8,011.59	7,838.93	169.75	35.43	90.46	-117.89	2,974.95	8,291.12	8,180.27	110.85	74.796	
19,383.51	7,870.00	8,011.61	7,838.95	171.10	35.43	90.46	-117.89	2,974.95	8,373.72	8,262.84	110.88	75.523	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	82.07	747.37	5,364.69	5,417.10					
100.00	100.00	1,152.00	1,134.43	0.13	4.79	80.95	832.29	5,224.82	5,407.00	5,402.20	4.79	1,127.737		
200.00	200.00	1,204.97	1,185.66	0.49	5.07	80.86	838.69	5,213.00	5,386.70	5,381.49	5.21	1,034.043		
300.00	300.00	1,253.21	1,232.48	0.85	5.34	80.78	844.25	5,202.78	5,367.38	5,361.67	5.71	940.036		
400.00	400.00	1,332.13	1,309.18	1.21	5.76	80.66	853.20	5,186.52	5,348.68	5,342.30	6.39	837.660		
500.00	500.00	1,450.27	1,423.87	1.57	6.40	80.46	867.51	5,162.03	5,330.00	5,322.74	7.26	734.119		
600.00	600.00	1,642.20	1,609.29	1.93	7.48	80.10	893.83	5,120.07	5,310.63	5,302.12	8.51	624.313		
700.00	699.98	1,713.38	1,677.95	2.28	7.89	16.27	903.41	5,103.95	5,288.72	5,279.52	9.19	575.252		
800.00	799.84	1,817.61	1,778.54	2.64	8.48	16.23	917.45	5,080.50	5,263.74	5,253.70	10.04	524.171		
900.00	899.45	1,879.23	1,838.13	3.00	8.83	16.30	925.24	5,066.90	5,235.84	5,225.15	10.68	490.046		
1,000.00	998.70	1,935.44	1,892.65	3.37	9.14	16.40	931.82	5,054.89	5,205.34	5,194.05	11.30	460.758		
1,100.00	1,097.47	1,994.00	1,949.62	3.76	9.45	16.53	938.22	5,042.95	5,172.46	5,160.54	11.92	433.994		
1,200.00	1,195.62	2,103.51	2,056.20	4.18	10.04	16.63	950.29	5,020.85	5,136.71	5,123.95	12.76	402.473		
1,300.00	1,293.06	2,224.96	2,174.03	4.63	10.71	16.75	964.73	4,995.23	5,097.09	5,083.41	13.67	372.806		
1,400.00	1,389.64	2,297.73	2,244.58	5.11	11.11	16.94	973.71	4,979.84	5,054.50	5,040.13	14.37	351.761		
1,500.00	1,485.27	2,361.17	2,306.18	5.63	11.46	17.18	981.39	4,966.74	5,009.33	4,994.30	15.03	333.362		
1,600.00	1,579.82	2,446.70	2,389.27	6.20	11.92	17.44	991.79	4,949.33	4,961.48	4,945.70	15.79	314.316		
1,700.00	1,673.17	2,551.29	2,490.74	6.83	12.50	17.72	1,005.09	4,927.76	4,910.60	4,893.97	16.63	295.210		
1,800.00	1,765.21	2,614.54	2,552.12	7.51	12.84	18.07	1,013.07	4,914.72	4,886.87	4,839.57	17.30	280.665		
1,900.00	1,855.84	2,681.28	2,617.01	8.24	13.20	18.48	1,021.01	4,901.33	4,800.73	4,782.74	17.99	266.844		
2,000.00	1,944.94	2,762.20	2,695.88	9.05	13.63	18.95	1,029.66	4,885.42	4,742.05	4,723.32	18.74	253.097		
2,100.00	2,032.39	2,972.60	2,899.62	9.91	14.81	19.48	1,055.86	4,839.96	4,679.19	4,659.16	20.03	233.588		
2,200.00	2,118.11	3,022.00	2,947.34	10.85	15.09	20.08	1,062.08	4,828.82	4,613.32	4,592.66	20.66	223.244		
2,300.00	2,201.97	3,069.39	2,993.12	11.85	15.37	20.74	1,068.42	4,818.33	4,545.44	4,524.13	21.30	213.380		
2,400.00	2,283.88	3,116.11	3,038.20	12.93	15.63	21.46	1,075.23	4,808.15	4,475.59	4,453.64	21.94	203.951		
2,429.47	2,307.63	3,145.56	3,066.60	13.26	15.81	21.70	1,079.71	4,801.76	4,454.60	4,432.39	22.20	200.614		
2,500.00	2,364.26	3,215.21	3,133.69	14.06	16.21	21.74	1,090.39	4,786.41	4,403.97	4,381.16	22.81	193.066		
2,600.00	2,444.56	3,266.10	3,182.70	15.22	16.51	21.77	1,098.31	4,775.18	4,332.20	4,308.71	23.49	184.464		
2,700.00	2,524.85	3,337.38	3,251.34	16.39	16.93	21.81	1,109.59	4,759.65	4,260.64	4,236.39	24.25	175.693		
2,800.00	2,605.14	3,448.31	3,358.10	17.57	17.58	21.89	1,126.62	4,734.82	4,188.62	4,163.46	25.17	166.434		
2,900.00	2,685.43	3,542.87	3,449.17	18.76	18.14	21.98	1,139.82	4,713.06	4,116.02	4,090.01	26.01	158.245		
3,000.00	2,765.73	3,603.02	3,507.23	19.96	18.49	22.06	1,147.22	4,699.18	4,043.21	4,016.47	26.73	151.233		
3,100.00	2,846.02	3,639.11	3,542.14	21.16	18.69	22.11	1,151.53	4,691.12	3,970.86	3,943.47	27.39	144.970		
3,200.00	2,926.31	3,679.00	3,580.81	22.37	18.91	22.17	1,156.29	4,682.55	3,899.10	3,871.02	28.07	138.900		
3,300.00	3,006.60	3,780.50	3,679.13	23.59	19.48	22.33	1,168.63	4,660.57	3,827.26	3,798.33	28.93	132.287		
3,400.00	3,086.90	3,828.46	3,725.54	24.81	19.75	22.40	1,174.67	4,650.10	3,755.36	3,725.70	29.65	126.642		
3,500.00	3,167.19	3,897.92	3,792.79	26.03	20.15	22.50	1,183.64	4,635.25	3,683.81	3,653.37	30.44	121.023		
3,600.00	3,247.48	3,985.47	3,877.47	27.25	20.64	22.64	1,194.72	4,615.93	3,611.72	3,580.45	31.27	115.507		
3,700.00	3,327.77	4,031.75	3,922.31	28.48	20.90	22.73	1,200.22	4,605.93	3,539.91	3,507.90	32.01	110.593		
3,800.00	3,408.07	4,075.64	3,964.96	29.71	21.14	22.82	1,205.14	4,596.77	3,468.57	3,435.82	32.75	105.907		
3,900.00	3,488.36	4,117.23	4,005.49	30.94	21.36	22.92	1,209.47	4,588.48	3,397.82	3,364.32	33.50	101.432		
4,000.00	3,568.65	4,150.00	4,037.49	32.17	21.53	23.00	1,212.67	4,582.22	3,327.70	3,293.45	34.25	97.170		
4,100.00	3,648.95	4,205.05	4,091.41	33.41	21.80	23.16	1,217.50	4,572.24	3,258.13	3,223.10	35.03	93.013		
4,200.00	3,729.24	4,243.00	4,128.69	34.64	21.98	23.29	1,220.41	4,565.74	3,189.20	3,153.39	35.81	89.071		
4,300.00	3,809.53	4,285.40	4,170.44	35.88	22.17	23.45	1,223.30	4,558.95	3,121.01	3,084.42	36.59	85.292		
4,400.00	3,889.82	4,337.00	4,221.41	37.12	22.40	23.66	1,226.38	4,551.51	3,053.79	3,016.39	37.40	81.646		
4,500.00	3,970.12	4,360.22	4,244.39	38.36	22.49	23.76	1,227.63	4,548.45	2,987.34	2,949.14	38.20	78.194		
4,600.00	4,050.41	4,398.75	4,282.58	39.60	22.65	23.93	1,229.61	4,543.77	2,921.91	2,882.88	39.03	74.858		
4,700.00	4,130.70	4,441.62	4,325.15	40.84	22.82	24.13	1,231.66	4,539.13	2,857.45	2,817.57	39.88	71.652		
4,800.00	4,210.99	4,499.14	4,382.34	42.08	23.03	24.43	1,233.97	4,533.41	2,793.69	2,752.94	40.75	68.562		
4,900.00	4,291.29	4,550.55	4,433.51	43.32	23.21	24.71	1,235.62	4,528.70	2,730.56	2,688.93	41.63	65.593		
5,000.00	4,371.58	4,598.11	4,480.89	44.57	23.37	24.99	1,237.05	4,524.87	2,668.30	2,625.78	42.53	62.743		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,646.43	4,529.07	45.81	23.53	25.28	1,238.38	4,521.50	2,606.99	2,563.54	43.44	60.008		
5,200.00	4,532.16	4,695.36	4,577.91	47.05	23.69	25.60	1,239.28	4,518.69	2,546.65	2,502.26	44.38	57.379		
5,300.00	4,612.46	4,751.45	4,633.94	48.30	23.85	25.99	1,239.70	4,516.11	2,487.25	2,441.91	45.34	54.855		
5,400.00	4,692.75	4,810.92	4,693.37	49.54	24.02	26.44	1,239.45	4,513.91	2,428.63	2,382.30	46.33	52.421		
5,500.00	4,773.04	4,873.17	4,755.59	50.79	24.18	26.93	1,239.15	4,512.04	2,370.77	2,323.43	47.34	50.077		
5,600.00	4,853.34	4,927.43	4,809.84	52.03	24.32	27.37	1,239.18	4,510.82	2,313.75	2,265.37	48.38	47.826		
5,700.00	4,933.63	4,977.14	4,859.55	53.28	24.45	27.78	1,239.16	4,510.34	2,257.94	2,208.50	49.44	45.669		
5,800.00	5,013.92	5,051.36	4,933.77	54.53	24.62	28.43	1,239.04	4,510.33	2,203.12	2,152.58	50.54	43.592		
5,900.00	5,094.21	5,140.57	5,022.98	55.77	24.84	29.24	1,238.92	4,510.16	2,148.43	2,096.75	51.68	41.572		
6,000.00	5,174.51	5,229.62	5,112.02	57.02	25.06	30.09	1,238.86	4,509.54	2,093.61	2,040.74	52.86	39.604		
6,100.00	5,254.80	5,311.05	5,193.45	58.27	25.27	30.91	1,238.74	4,508.75	2,038.86	1,984.77	54.09	37.694		
6,200.00	5,335.09	5,389.93	5,272.33	59.52	25.48	31.74	1,238.71	4,508.03	1,984.50	1,929.13	55.36	35.846		
6,300.00	5,415.38	5,473.01	5,355.40	60.76	25.70	32.66	1,238.70	4,507.20	1,930.41	1,873.73	56.68	34.057		
6,400.00	5,495.68	5,557.61	5,439.99	62.01	25.93	33.65	1,238.49	4,506.17	1,876.54	1,818.48	58.06	32.322		
6,500.00	5,575.97	5,646.10	5,528.47	63.26	26.16	34.76	1,237.88	4,504.73	1,822.78	1,763.28	59.49	30.639		
6,600.00	5,656.26	5,731.74	5,614.09	64.51	26.40	35.91	1,237.11	4,502.96	1,769.15	1,708.15	61.00	29.005		
6,700.00	5,736.55	5,810.85	5,693.17	65.76	26.62	37.03	1,236.41	4,501.16	1,715.87	1,653.30	62.57	27.423		
6,800.00	5,816.85	5,889.92	5,772.22	67.01	26.84	38.21	1,235.64	4,499.36	1,663.17	1,598.95	64.22	25.897		
6,900.00	5,897.14	5,964.67	5,846.95	68.26	27.04	39.40	1,234.76	4,497.67	1,611.15	1,545.18	65.96	24.425		
7,000.00	5,977.43	6,037.99	5,920.25	69.50	27.25	40.62	1,233.87	4,496.32	1,560.14	1,492.35	67.79	23.015		
7,100.00	6,057.72	6,118.08	6,000.32	70.75	27.46	42.02	1,232.94	4,494.93	1,509.98	1,440.27	69.71	21.662		
7,200.00	6,138.02	6,197.27	6,079.50	72.00	27.69	43.48	1,232.27	4,493.57	1,460.64	1,388.91	71.72	20.366		
7,300.00	6,218.31	6,278.67	6,160.88	73.25	27.92	45.05	1,232.00	4,492.19	1,412.15	1,338.31	73.83	19.126		
7,400.00	6,298.60	6,367.14	6,249.34	74.50	28.18	46.83	1,232.41	4,490.53	1,364.37	1,288.33	76.04	17.942		
7,500.00	6,378.90	6,445.41	6,327.58	75.75	28.42	48.47	1,233.59	4,488.87	1,317.26	1,238.90	78.35	16.812		
7,600.00	6,459.19	6,518.50	6,400.65	77.00	28.64	50.08	1,234.51	4,487.60	1,271.64	1,190.85	80.79	15.740		
7,700.00	6,539.48	6,591.75	6,473.89	78.25	28.85	51.80	1,235.20	4,486.66	1,227.73	1,144.38	83.35	14.729		
7,800.00	6,619.77	6,664.96	6,547.10	79.50	29.07	53.61	1,235.48	4,486.00	1,185.69	1,099.64	86.05	13.780		
7,900.00	6,700.07	6,742.39	6,624.52	80.75	29.29	55.64	1,235.43	4,485.50	1,145.60	1,056.73	88.88	12.890		
8,000.00	6,780.36	6,819.00	6,701.14	82.00	29.50	57.76	1,235.27	4,485.14	1,107.50	1,015.67	91.82	12.061		
8,100.00	6,860.65	6,896.86	6,779.00	83.25	29.72	60.02	1,234.83	4,484.92	1,071.67	976.78	94.88	11.295		
8,200.00	6,940.94	6,976.74	6,858.87	84.50	29.93	62.45	1,234.41	4,484.74	1,038.09	940.05	98.04	10.589		
8,300.00	7,021.24	7,054.41	6,936.55	85.76	30.15	64.92	1,233.94	4,484.66	1,007.09	905.83	101.26	9.945		
8,400.00	7,101.53	7,136.11	7,018.24	87.01	30.37	67.62	1,233.51	4,484.66	978.81	874.27	104.53	9.364		
8,500.00	7,181.82	7,213.27	7,095.40	88.26	30.57	70.26	1,233.18	4,484.78	953.48	845.69	107.79	8.846		
8,605.60	7,266.61	7,299.35	7,181.48	89.58	30.80	73.31	1,232.76	4,485.07	930.30	819.11	111.19	8.367		
8,650.00	7,302.60	7,336.72	7,218.85	90.13	30.91	68.17	1,232.63	4,485.14	920.24	807.69	112.55	8.176		
8,700.00	7,343.78	7,378.47	7,260.60	90.72	31.02	61.61	1,232.50	4,485.17	906.41	792.46	113.95	7.954		
8,750.00	7,385.32	7,420.69	7,302.82	91.28	31.14	54.47	1,232.38	4,485.17	889.86	774.64	115.22	7.723		
8,800.00	7,426.92	7,462.94	7,345.06	91.81	31.26	47.01	1,232.27	4,485.13	870.52	754.17	116.35	7.482		
8,850.00	7,468.27	7,504.88	7,387.00	92.29	31.38	39.49	1,232.17	4,485.05	848.37	731.03	117.34	7.230		
8,900.00	7,509.04	7,545.34	7,427.47	92.72	31.49	32.09	1,232.06	4,484.94	823.45	705.25	118.20	6.967		
8,950.00	7,548.93	7,584.61	7,466.74	93.10	31.60	24.93	1,231.93	4,484.84	795.85	676.92	118.93	6.692		
9,000.00	7,587.63	7,622.65	7,504.78	93.43	31.71	17.98	1,231.76	4,484.75	765.66	646.13	119.52	6.406		
9,050.00	7,624.85	7,659.14	7,541.27	93.71	31.81	11.11	1,231.62	4,484.74	733.01	613.04	119.97	6.110		
9,100.00	7,660.30	7,694.01	7,576.14	93.93	31.91	4.11	1,231.51	4,484.82	698.07	577.80	120.28	5.804		
9,150.00	7,693.72	7,726.67	7,608.79	94.10	32.00	-3.30	1,231.42	4,484.98	661.08	540.66	120.42	5.490		
9,200.00	7,724.85	7,757.07	7,639.20	94.23	32.09	-11.43	1,231.31	4,485.17	622.31	501.93	120.38	5.170		
9,250.00	7,753.45	7,785.14	7,667.26	94.30	32.16	-20.59	1,231.18	4,485.39	582.10	461.98	120.12	4.846		
9,300.00	7,779.31	7,811.05	7,693.18	94.34	32.23	-30.95	1,231.05	4,485.62	540.87	421.28	119.59	4.523		
9,350.00	7,802.23	7,834.46	7,716.58	94.33	32.30	-42.37	1,230.93	4,485.82	499.14	380.43	118.71	4.205		
9,400.00	7,822.03	7,854.72	7,736.85	94.28	32.35	-54.11	1,230.82	4,485.98	457.56	340.23	117.33	3.900		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,871.70	7,753.82	94.20	32.40	-65.12	1,230.73	4,486.11	417.03	301.78	115.26	3.618		
9,500.00	7,851.72	7,885.26	7,767.38	94.10	32.44	-74.44	1,230.65	4,486.20	378.69	266.49	112.19	3.375		
9,550.00	7,861.37	7,895.30	7,777.42	93.96	32.46	-81.59	1,230.59	4,486.26	344.00	236.24	107.77	3.192		
9,600.00	7,867.46	7,901.56	7,783.68	93.81	32.48	-86.45	1,230.55	4,486.31	314.84	213.25	101.59	3.099 SF		
9,650.00	7,869.94	7,904.33	7,786.45	93.64	32.49	-89.21	1,230.54	4,486.33	293.32	199.79	93.54	3.136		
9,659.14	7,870.00	7,904.45	7,786.57	93.60	32.49	-89.50	1,230.54	4,486.33	290.39	198.49	91.89	3.160		
9,700.00	7,870.00	7,904.70	7,786.82	93.46	32.49	-89.55	1,230.54	4,486.33	280.72	196.44	84.29	3.331 ES		
9,747.13	7,870.00	7,905.00	7,787.11	93.29	32.49	-89.61	1,230.53	4,486.33	276.74	200.68	76.05	3.639 CC		
9,800.00	7,870.00	7,905.32	7,787.44	93.11	32.49	-89.68	1,230.53	4,486.33	281.74	211.58	70.16	4.016		
9,900.00	7,870.00	7,905.95	7,785.07	92.77	32.49	-89.81	1,230.53	4,486.34	316.16	241.97	74.18	4.262		
10,000.00	7,870.00	7,906.58	7,788.70	92.46	32.49	-89.94	1,230.52	4,486.34	374.87	288.72	86.15	4.351		
10,100.00	7,870.00	7,907.21	7,789.33	92.16	32.50	-90.07	1,230.52	4,486.35	448.44	352.58	95.86	4.678		
10,200.00	7,870.00	7,907.85	7,789.97	91.87	32.50	-90.20	1,230.52	4,486.35	530.73	428.21	102.52	5.177		
10,300.00	7,870.00	7,908.49	7,790.61	91.60	32.50	-90.33	1,230.51	4,486.35	618.26	511.21	107.05	5.775		
10,400.00	7,870.00	7,909.14	7,791.26	91.34	32.50	-90.47	1,230.51	4,486.36	709.09	598.88	110.21	6.434		
10,500.00	7,870.00	7,909.79	7,791.91	91.11	32.50	-90.60	1,230.50	4,486.36	802.11	689.61	112.50	7.130		
10,600.00	7,870.00	7,910.45	7,792.57	90.88	32.51	-90.74	1,230.50	4,486.37	896.63	782.42	114.21	7.851		
10,700.00	7,870.00	7,911.11	7,793.23	90.67	32.51	-90.87	1,230.49	4,486.37	992.23	876.70	115.52	8.589		
10,800.00	7,870.00	7,911.77	7,793.89	90.48	32.51	-91.01	1,230.49	4,486.38	1,088.62	972.06	116.56	9.340		
10,900.00	7,870.00	7,912.44	7,794.56	90.31	32.51	-91.15	1,230.49	4,486.38	1,185.60	1,068.21	117.39	10.100		
11,000.00	7,870.00	7,913.12	7,795.23	90.15	32.51	-91.29	1,230.48	4,486.39	1,283.05	1,164.98	118.07	10.867		
11,100.00	7,870.00	7,913.79	7,795.91	90.00	32.51	-91.43	1,230.48	4,486.39	1,380.86	1,262.23	118.64	11.640		
11,200.00	7,870.00	7,914.48	7,796.60	89.88	32.52	-91.57	1,230.47	4,486.40	1,478.97	1,359.86	119.11	12.417		
11,300.00	7,870.00	7,915.17	7,797.28	89.77	32.52	-91.71	1,230.47	4,486.40	1,577.31	1,457.79	119.52	13.197		
11,400.00	7,870.00	7,915.86	7,797.98	89.68	32.52	-91.86	1,230.46	4,486.40	1,675.85	1,555.98	119.87	13.980		
11,500.00	7,870.00	7,916.56	7,798.68	89.60	32.52	-92.00	1,230.46	4,486.41	1,774.55	1,654.37	120.18	14.766		
11,600.00	7,870.00	7,917.26	7,799.38	89.55	32.52	-92.15	1,230.45	4,486.41	1,873.39	1,752.94	120.45	15.554		
11,700.00	7,870.00	7,917.97	7,800.09	89.52	32.53	-92.29	1,230.45	4,486.42	1,972.35	1,851.66	120.68	16.343		
11,800.00	7,870.00	7,918.68	7,800.80	89.50	32.53	-92.44	1,230.44	4,486.42	2,071.40	1,950.50	120.90	17.134		
11,900.00	7,870.00	7,919.40	7,801.52	89.51	32.53	-92.59	1,230.44	4,486.43	2,170.54	2,049.46	121.09	17.925		
12,000.00	7,870.00	7,920.12	7,802.24	89.54	32.53	-92.74	1,230.44	4,486.44	2,269.76	2,148.50	121.26	18.718		
12,100.00	7,870.00	7,920.85	7,802.97	89.59	32.53	-92.89	1,230.43	4,486.44	2,369.04	2,247.63	121.42	19.512		
12,200.00	7,870.00	7,921.59	7,803.71	89.66	32.54	-93.04	1,230.43	4,486.45	2,468.39	2,346.83	121.56	20.306		
12,300.00	7,870.00	7,922.33	7,804.45	89.77	32.54	-93.19	1,230.42	4,486.45	2,567.78	2,446.09	121.69	21.101		
12,400.00	7,870.00	7,923.07	7,805.19	89.89	32.54	-93.35	1,230.41	4,486.46	2,667.21	2,545.40	121.81	21.897		
12,500.00	7,870.00	7,923.82	7,805.94	90.05	32.54	-93.50	1,230.41	4,486.46	2,766.69	2,644.77	121.92	22.693		
12,600.00	7,870.00	7,924.58	7,806.70	90.24	32.54	-93.66	1,230.40	4,486.47	2,866.21	2,744.18	122.02	23.489		
12,700.00	7,870.00	7,925.34	7,807.46	90.46	32.55	-93.81	1,230.40	4,486.47	2,965.75	2,843.63	122.12	24.286		
12,800.00	7,870.00	7,926.11	7,808.23	90.71	32.55	-93.97	1,230.39	4,486.48	3,065.33	2,943.12	122.21	25.082		
12,900.00	7,870.00	7,926.88	7,809.00	90.99	32.55	-94.13	1,230.39	4,486.48	3,164.93	3,042.63	122.29	25.880		
13,000.00	7,870.00	7,927.66	7,809.78	91.32	32.55	-94.29	1,230.38	4,486.49	3,264.56	3,142.18	122.37	26.677		
13,100.00	7,870.00	7,928.45	7,810.56	91.68	32.55	-94.45	1,230.38	4,486.49	3,364.20	3,241.76	122.45	27.474		
13,200.00	7,870.00	7,929.24	7,811.35	92.08	32.56	-94.62	1,230.37	4,486.50	3,463.87	3,341.35	122.52	28.272		
13,300.00	7,870.00	7,930.03	7,812.15	92.52	32.56	-94.78	1,230.37	4,486.51	3,563.56	3,440.97	122.59	29.070		
13,400.00	7,870.00	7,930.84	7,812.95	93.00	32.56	-94.94	1,230.36	4,486.51	3,663.26	3,540.61	122.65	29.868		
13,500.00	7,870.00	7,931.65	7,813.76	93.53	32.56	-95.11	1,230.35	4,486.52	3,762.98	3,640.27	122.71	30.665		
13,600.00	7,870.00	7,932.46	7,814.58	94.10	32.57	-95.28	1,230.35	4,486.52	3,862.72	3,739.95	122.77	31.463		
13,700.00	7,870.00	7,933.28	7,815.40	94.72	32.57	-95.45	1,230.34	4,486.53	3,962.46	3,839.64	122.83	32.261		
13,800.00	7,870.00	7,934.11	7,816.23	95.38	32.57	-95.61	1,230.34	4,486.54	4,062.22	3,939.34	122.88	33.059		
13,900.00	7,870.00	7,934.94	7,817.06	96.09	32.57	-95.79	1,230.33	4,486.54	4,161.99	4,039.06	122.93	33.857		
14,000.00	7,870.00	7,935.79	7,817.90	96.84	32.57	-95.96	1,230.32	4,486.55	4,261.77	4,138.79	122.98	34.654		
14,100.00	7,870.00	7,936.63	7,818.75	97.64	32.58	-96.13	1,230.32	4,486.55	4,361.56	4,238.54	123.03	35.452		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	7,937.49	7,819.60	98.48	32.58	-96.31	1,230.31	4,486.56	4,461.37	4,338.29	123.07	36.249		
14,300.00	7,870.00	7,938.35	7,820.46	99.37	32.58	-96.48	1,230.31	4,486.57	4,561.17	4,438.05	123.12	37.047		
14,400.00	7,870.00	7,939.22	7,821.33	100.30	32.58	-96.66	1,230.30	4,486.57	4,660.99	4,537.83	123.16	37.844		
14,500.00	7,870.00	7,940.09	7,822.21	101.26	32.59	-96.84	1,230.29	4,486.58	4,760.82	4,637.61	123.21	38.641		
14,600.00	7,870.00	7,940.97	7,823.09	102.27	32.59	-97.02	1,230.29	4,486.59	4,860.65	4,737.40	123.25	39.438		
14,700.00	7,870.00	7,941.86	7,823.98	103.31	32.59	-97.20	1,230.28	4,486.59	4,960.49	4,837.20	123.29	40.235		
14,800.00	7,870.00	7,942.76	7,824.87	104.38	32.59	-97.38	1,230.27	4,486.60	5,060.33	4,937.00	123.33	41.032		
14,900.00	7,870.00	7,943.66	7,825.78	105.49	32.60	-97.56	1,230.27	4,486.61	5,160.18	5,036.81	123.37	41.828		
15,000.00	7,870.00	7,944.57	7,826.69	106.63	32.60	-97.75	1,230.26	4,486.61	5,260.04	5,136.63	123.40	42.624		
15,100.00	7,870.00	7,945.49	7,827.60	107.80	32.60	-97.93	1,230.25	4,486.62	5,359.90	5,236.46	123.44	43.421		
15,200.00	7,870.00	7,946.41	7,828.53	109.00	32.60	-98.12	1,230.25	4,486.63	5,459.76	5,336.29	123.48	44.216		
15,300.00	7,870.00	7,947.35	7,829.46	110.22	32.61	-98.31	1,230.24	4,486.63	5,559.63	5,436.12	123.51	45.012		
15,400.00	7,870.00	7,948.29	7,830.40	111.47	32.61	-98.50	1,230.23	4,486.64	5,659.51	5,535.96	123.55	45.807		
15,500.00	7,870.00	7,949.24	7,831.35	112.74	32.61	-98.69	1,230.22	4,486.65	5,759.39	5,635.80	123.58	46.603		
15,600.00	7,870.00	7,950.19	7,832.31	114.03	32.61	-98.88	1,230.22	4,486.66	5,859.27	5,735.65	123.62	47.398		
15,700.00	7,870.00	7,951.16	7,833.27	115.34	32.62	-99.08	1,230.21	4,486.66	5,959.16	5,835.51	123.65	48.192		
15,800.00	7,870.00	7,952.13	7,834.25	116.68	32.62	-99.27	1,230.20	4,486.67	6,059.05	5,935.36	123.69	48.987		
15,900.00	7,870.00	7,953.11	7,835.23	118.02	32.62	-99.47	1,230.19	4,486.68	6,158.95	6,035.22	123.72	49.781		
16,000.00	7,870.00	7,954.10	7,836.21	119.39	32.63	-99.67	1,230.19	4,486.69	6,258.84	6,135.09	123.75	50.575		
16,100.00	7,870.00	7,955.10	7,837.21	120.77	32.63	-99.87	1,230.18	4,486.69	6,358.74	6,234.96	123.79	51.368		
16,200.00	7,870.00	7,956.10	7,838.22	122.17	32.63	-100.07	1,230.17	4,486.70	6,458.65	6,334.83	123.82	52.162		
16,300.00	7,870.00	7,957.12	7,839.23	123.58	32.63	-100.27	1,230.16	4,486.71	6,558.55	6,434.70	123.85	52.955		
16,400.00	7,870.00	7,958.14	7,840.26	125.00	32.64	-100.48	1,230.15	4,486.72	6,658.46	6,534.58	123.88	53.747		
16,500.00	7,870.00	7,959.17	7,841.29	126.43	32.64	-100.68	1,230.14	4,486.73	6,758.37	6,634.46	123.92	54.540		
16,600.00	7,870.00	7,960.21	7,842.33	127.88	32.64	-100.89	1,230.14	4,486.73	6,858.29	6,734.34	123.95	55.332		
16,700.00	7,870.00	7,961.26	7,843.38	129.34	32.64	-101.10	1,230.13	4,486.74	6,958.20	6,834.22	123.98	56.123		
16,800.00	7,870.00	7,962.32	7,844.44	130.81	32.65	-101.31	1,230.12	4,486.75	7,058.12	6,934.11	124.01	56.915		
16,900.00	7,870.00	7,963.39	7,845.51	132.28	32.65	-101.52	1,230.11	4,486.76	7,158.04	7,034.00	124.04	57.706		
17,000.00	7,870.00	7,964.47	7,846.59	133.77	32.65	-101.74	1,230.10	4,486.77	7,257.97	7,133.89	124.08	58.496		
17,100.00	7,870.00	7,965.56	7,847.67	135.27	32.66	-101.95	1,230.09	4,486.78	7,357.89	7,233.79	124.11	59.287		
17,200.00	7,870.00	7,966.65	7,848.77	136.77	32.66	-102.17	1,230.08	4,486.78	7,457.82	7,333.68	124.14	60.077		
17,300.00	7,870.00	7,967.76	7,849.88	138.28	32.66	-102.39	1,230.07	4,486.79	7,557.75	7,433.58	124.17	60.866		
17,400.00	7,870.00	7,968.88	7,850.99	139.80	32.67	-102.61	1,230.06	4,486.80	7,657.68	7,533.48	124.20	61.655		
17,500.00	7,870.00	7,970.01	7,852.12	141.33	32.67	-102.83	1,230.06	4,486.81	7,757.61	7,633.38	124.23	62.444		
17,600.00	7,870.00	7,971.14	7,853.26	142.86	32.67	-103.05	1,230.05	4,486.82	7,857.54	7,733.28	124.26	63.233		
17,700.00	7,870.00	7,972.29	7,854.41	144.40	32.68	-103.27	1,230.04	4,486.83	7,957.48	7,833.18	124.30	64.021		
17,800.00	7,870.00	7,973.45	7,855.57	145.95	32.68	-103.50	1,230.03	4,486.84	8,057.42	7,933.09	124.33	64.808		
17,900.00	7,870.00	7,974.62	7,856.74	147.50	32.68	-103.73	1,230.02	4,486.85	8,157.35	8,032.99	124.36	65.595		
18,000.00	7,870.00	7,975.80	7,857.92	149.06	32.68	-103.96	1,230.01	4,486.86	8,257.29	8,132.90	124.39	66.382		
18,100.00	7,870.00	7,976.99	7,859.11	150.63	32.69	-104.19	1,230.00	4,486.87	8,357.23	8,232.81	124.42	67.168		
18,200.00	7,870.00	7,978.19	7,860.31	152.20	32.69	-104.42	1,229.98	4,486.88	8,457.18	8,332.72	124.45	67.954		
18,300.00	7,870.00	7,979.41	7,861.52	153.77	32.69	-104.66	1,229.97	4,486.89	8,557.12	8,432.63	124.49	68.740		
18,400.00	7,870.00	7,980.63	7,862.75	155.35	32.70	-104.89	1,229.96	4,486.90	8,657.06	8,532.55	124.52	69.525		
18,500.00	7,870.00	7,981.87	7,863.98	156.93	32.70	-105.13	1,229.95	4,486.91	8,757.01	8,632.46	124.55	70.309		
18,600.00	7,870.00	7,983.12	7,865.23	158.52	32.71	-105.37	1,229.94	4,486.92	8,856.96	8,732.37	124.58	71.093		
18,700.00	7,870.00	7,984.38	7,866.49	160.11	32.71	-105.61	1,229.93	4,486.93	8,956.90	8,832.29	124.61	71.877		
18,800.00	7,870.00	7,985.65	7,867.76	161.71	32.71	-105.85	1,229.92	4,486.94	9,056.85	8,932.21	124.65	72.660		
18,900.00	7,870.00	7,986.93	7,869.05	163.31	32.72	-106.10	1,229.91	4,486.95	9,156.80	9,032.12	124.68	73.443		
19,000.00	7,870.00	7,988.23	7,870.34	164.91	32.72	-106.35	1,229.90	4,486.96	9,256.75	9,132.04	124.71	74.225		
19,100.00	7,870.00	7,989.54	7,871.65	166.52	32.72	-106.59	1,229.88	4,486.97	9,356.70	9,231.96	124.74	75.007		
19,200.00	7,870.00	7,990.86	7,872.98	168.13	32.73	-106.84	1,229.87	4,486.98	9,456.66	9,331.88	124.78	75.788		
19,300.00	7,870.00	7,992.20	7,874.31	169.75	32.73	-107.09	1,229.86	4,486.99	9,556.61	9,431.80	124.81	76.569		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	7,993.32	7,875.44	171.10	32.73	-107.31	1,229.85	4,487.00	9,640.08	9,515.24	124.84	77.221	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	82.04	751.02	5,373.09	5,425.92					
100.00	100.00	36.19	36.19	0.13	0.05	82.04	751.00	5,373.03	5,425.29	5,425.10	0.19	N/A		
200.00	200.00	156.79	156.78	0.49	0.40	82.04	750.84	5,372.29	5,424.64	5,423.75	0.89	6,092.708		
300.00	300.00	248.00	247.99	0.85	0.72	82.04	750.82	5,371.72	5,424.01	5,422.44	1.58	3,443.183		
400.00	400.00	354.26	354.25	1.21	1.10	82.04	750.93	5,371.09	5,423.44	5,421.13	2.31	2,343.737		
492.05	492.05	411.06	411.05	1.54	1.30	82.05	750.43	5,370.98	5,423.15	5,420.31	2.84	1,908.685		
500.00	500.00	416.05	416.03	1.57	1.32	82.05	750.34	5,370.99	5,423.15	5,420.26	2.89	1,878.392		
600.00	600.00	481.09	481.04	1.93	1.55	82.07	748.31	5,371.53	5,423.54	5,420.07	3.47	1,562.522		
700.00	699.98	534.00	533.87	2.28	1.73	18.29	745.57	5,372.42	5,422.91	5,418.91	4.01	1,353.297		
800.00	799.84	591.45	591.15	2.64	1.94	18.36	741.47	5,374.01	5,419.80	5,415.23	4.56	1,187.536		
900.00	899.45	649.52	648.93	3.00	2.15	18.47	736.12	5,376.41	5,414.33	5,409.20	5.13	1,055.427		
1,000.00	998.70	716.00	714.86	3.37	2.39	18.64	728.25	5,379.64	5,406.08	5,400.34	5.74	942.378		
1,100.00	1,097.47	764.29	762.58	3.76	2.59	18.81	721.42	5,382.49	5,395.35	5,389.07	6.29	857.808		
1,200.00	1,195.62	809.00	806.60	4.18	2.77	19.00	714.37	5,385.78	5,382.48	5,375.65	6.83	787.551		
1,300.00	1,293.06	853.66	850.45	4.63	2.96	19.22	706.79	5,389.55	5,367.36	5,359.97	7.40	725.707		
1,400.00	1,389.64	902.00	897.80	5.11	3.17	19.48	698.14	5,394.06	5,349.91	5,341.93	7.98	670.297		
1,500.00	1,485.27	961.56	955.99	5.63	3.44	19.81	686.97	5,400.11	5,330.08	5,321.44	8.64	617.048		
1,600.00	1,579.82	1,019.69	1,012.63	6.20	3.71	20.17	675.54	5,406.48	5,307.83	5,298.53	9.31	570.410		
1,700.00	1,673.17	1,080.72	1,071.81	6.83	4.01	20.58	662.46	5,413.63	5,283.16	5,273.15	10.01	527.862		
1,800.00	1,765.21	1,196.35	1,183.65	7.51	4.60	21.27	636.54	5,427.40	5,255.66	5,244.65	11.01	477.227		
1,900.00	1,855.84	1,279.59	1,264.52	8.24	5.03	21.86	619.24	5,436.79	5,224.84	5,212.97	11.87	440.116		
2,000.00	1,944.94	1,339.00	1,322.22	9.05	5.33	22.39	606.97	5,443.89	5,191.74	5,179.12	12.63	411.157		
2,100.00	2,032.39	1,405.00	1,386.16	9.91	5.69	23.00	592.83	5,452.12	5,156.28	5,142.84	13.45	383.490		
2,200.00	2,118.11	1,476.52	1,455.20	10.85	6.08	23.70	576.54	5,461.17	5,118.26	5,103.93	14.32	357.309		
2,300.00	2,201.97	1,552.20	1,527.99	11.85	6.50	24.48	558.29	5,471.01	5,077.85	5,062.59	15.26	332.776		
2,400.00	2,283.88	1,664.33	1,635.91	12.93	7.13	25.56	531.37	5,485.23	5,034.67	5,018.25	16.42	306.553		
2,429.47	2,307.63	1,701.19	1,671.50	13.26	7.34	25.92	522.91	5,489.71	5,021.36	5,004.56	16.79	299.007		
2,500.00	2,364.26	1,746.52	1,715.35	14.06	7.59	26.20	512.77	5,495.17	4,989.28	4,971.84	17.44	286.038		
2,600.00	2,444.56	1,806.00	1,772.88	15.22	7.92	26.56	499.62	5,502.57	4,944.42	4,926.06	18.35	269.391		
2,700.00	2,524.85	1,893.01	1,857.06	16.39	8.40	27.11	480.50	5,513.49	4,900.02	4,880.59	19.43	252.141		
2,800.00	2,605.14	2,007.39	1,967.97	17.57	9.03	27.82	456.17	5,527.18	4,855.52	4,834.85	20.67	234.882		
2,900.00	2,685.43	2,069.35	2,028.07	18.76	9.36	28.22	443.00	5,534.51	4,811.32	4,789.67	21.65	222.182		
3,000.00	2,765.73	2,168.13	2,123.62	19.96	9.92	28.87	420.85	5,546.24	4,767.58	4,744.71	22.86	208.513		
3,100.00	2,846.02	2,272.98	2,224.81	21.16	10.51	29.59	396.05	5,558.03	4,723.77	4,699.63	24.14	195.669		
3,200.00	2,926.31	2,379.08	2,327.44	22.37	11.10	30.32	371.68	5,569.39	4,679.99	4,654.56	25.44	183.987		
3,300.00	3,006.60	2,491.82	2,437.17	23.59	11.71	31.08	348.38	5,580.67	4,635.97	4,609.21	26.76	173.249		
3,400.00	3,086.90	2,554.00	2,497.69	24.81	12.04	31.51	335.47	5,586.73	4,592.25	4,564.41	27.84	164.977		
3,500.00	3,167.19	2,596.70	2,539.17	26.03	12.27	31.81	326.34	5,591.12	4,549.44	4,520.60	28.83	157.778		
3,600.00	3,247.48	2,648.00	2,588.90	27.25	12.55	32.18	315.18	5,596.97	4,507.87	4,477.97	29.90	150.784		
3,700.00	3,327.77	2,782.73	2,719.57	28.48	13.30	33.15	285.71	5,611.51	4,466.43	4,435.00	31.43	142.088		
3,800.00	3,408.07	2,858.23	2,792.79	29.71	13.71	33.72	268.97	5,619.09	4,424.90	4,392.22	32.67	135.431		
3,900.00	3,488.36	2,921.58	2,854.10	30.94	14.07	34.20	254.39	5,625.53	4,384.06	4,350.19	33.87	129.444		
4,000.00	3,568.65	3,006.74	2,936.49	32.17	14.54	34.86	234.67	5,634.26	4,343.85	4,308.64	35.21	123.374		
4,100.00	3,648.95	3,058.81	2,986.91	33.41	14.84	35.26	222.87	5,639.66	4,304.28	4,267.90	36.38	118.322		
4,200.00	3,729.24	3,115.00	3,041.21	34.64	15.15	35.71	209.83	5,645.95	4,265.89	4,228.30	37.59	113.490		
4,300.00	3,809.53	3,169.62	3,093.95	35.88	15.46	36.14	197.17	5,652.34	4,228.50	4,189.70	38.81	108.966		
4,400.00	3,889.82	3,284.90	3,205.58	37.12	16.11	37.05	171.75	5,665.79	4,191.65	4,151.27	40.39	103.787		
4,500.00	3,970.12	3,379.58	3,297.48	38.36	16.63	37.81	151.45	5,676.08	4,154.63	4,112.77	41.86	99.241		
4,600.00	4,050.41	3,451.90	3,367.50	39.60	17.04	38.41	134.99	5,683.70	4,118.18	4,074.93	43.24	95.233		
4,700.00	4,130.70	3,512.56	3,426.17	40.84	17.38	38.92	121.05	5,690.19	4,082.57	4,037.99	44.57	91.593		
4,800.00	4,210.99	3,562.51	3,474.44	42.08	17.66	39.34	109.52	5,695.85	4,048.10	4,002.25	45.85	88.283		
4,900.00	4,291.29	3,670.33	3,578.83	43.32	18.27	40.25	85.66	5,708.51	4,014.56	3,967.06	47.50	84.522		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,000.00	4,371.58	3,773.75	3,679.58	44.57	18.82	41.10	65.59	5,720.36	3,980.87	3,931.78	49.09	81.086		
5,100.00	4,451.87	3,848.65	3,752.65	45.81	19.21	41.72	51.48	5,728.88	3,947.67	3,897.12	50.54	78.107		
5,200.00	4,532.16	3,917.37	3,819.59	47.05	19.57	42.30	38.10	5,736.69	3,915.26	3,863.28	51.98	75.326		
5,300.00	4,612.46	3,979.31	3,879.90	48.30	19.90	42.82	25.97	5,743.92	3,883.81	3,830.42	53.39	72.743		
5,400.00	4,692.75	4,032.61	3,931.75	49.54	20.19	43.28	15.51	5,750.48	3,853.54	3,798.77	54.77	70.363		
5,500.00	4,773.04	4,115.77	4,012.60	50.79	20.64	44.00	-0.88	5,761.06	3,824.35	3,768.01	56.34	67.878		
5,600.00	4,853.34	4,193.77	4,088.45	52.03	21.06	44.68	-16.26	5,770.75	3,795.67	3,737.77	57.90	65.555		
5,700.00	4,933.63	4,270.32	4,260.77	53.28	21.97	46.21	-47.96	5,792.32	3,767.46	3,707.42	60.04	62.751		
5,800.00	5,013.92	4,464.78	4,353.48	54.53	22.44	47.03	-62.88	5,802.51	3,737.91	3,676.21	61.69	60.587		
5,900.00	5,094.21	4,523.00	4,410.43	55.77	22.73	47.55	-73.36	5,808.55	3,709.42	3,646.24	63.18	58.713		
6,000.00	5,174.51	4,726.79	4,609.88	57.02	23.76	49.44	-110.94	5,826.82	3,681.13	3,615.58	65.55	56.159		
6,100.00	5,254.80	4,862.15	4,743.25	58.27	24.38	50.70	-132.22	5,835.72	3,650.48	3,583.00	67.48	54.097		
6,200.00	5,335.09	4,988.94	4,868.65	59.52	24.93	51.85	-148.62	5,844.72	3,620.56	3,551.23	69.33	52.223		
6,300.00	5,415.38	5,432.64	5,310.74	60.76	26.45	55.84	-180.68	5,854.06	3,582.55	3,510.53	72.03	49.739		
6,400.00	5,495.68	6,400.00	5,413.69	62.01	28.97	56.77	-183.33	5,853.08	3,544.67	3,468.49	76.19	46.527		
6,500.00	5,575.97	5,639.78	5,517.82	63.26	26.96	57.69	-183.33	5,852.43	3,506.80	3,431.59	75.21	46.630		
6,600.00	5,656.26	5,747.47	5,625.50	64.51	27.21	58.65	-182.63	5,851.54	3,469.23	3,392.44	76.79	45.181		
6,700.00	5,736.55	5,824.93	5,702.96	65.76	27.38	59.36	-182.01	5,850.66	3,432.02	3,353.64	78.37	43.791		
6,800.00	5,816.85	5,898.97	5,777.00	67.01	27.55	60.05	-181.57	5,849.80	3,395.52	3,315.54	79.99	42.452		
6,900.00	5,897.14	5,977.39	5,855.41	68.26	27.74	60.79	-181.40	5,848.85	3,359.83	3,278.20	81.63	41.161		
7,000.00	5,977.43	6,070.56	5,948.57	69.50	27.96	61.69	-181.06	5,847.67	3,324.75	3,241.46	83.30	39.915		
7,100.00	6,057.72	6,161.13	6,039.12	70.75	28.17	62.57	-180.51	5,846.09	3,289.98	3,205.00	84.98	38.714		
7,200.00	6,138.02	6,243.83	6,121.81	72.00	28.37	63.39	-179.72	5,844.71	3,255.87	3,169.19	86.68	37.562		
7,300.00	6,218.31	6,324.84	6,202.80	73.25	28.56	64.20	-178.85	5,843.30	3,222.43	3,134.04	88.40	36.455		
7,400.00	6,298.60	6,393.00	6,270.95	74.50	28.72	64.89	-177.98	5,842.27	3,189.89	3,099.76	90.12	35.395		
7,500.00	6,378.90	6,443.54	6,321.48	75.75	28.85	65.41	-177.41	5,841.86	3,158.69	3,066.83	91.86	34.387		
7,600.00	6,459.19	6,493.26	6,371.20	77.00	28.98	65.92	-177.11	5,841.94	3,129.16	3,035.56	93.60	33.432		
7,700.00	6,539.48	6,570.25	6,448.19	78.25	29.19	66.72	-177.00	5,842.27	3,100.90	3,005.52	95.39	32.508		
7,800.00	6,619.77	6,654.81	6,532.75	79.50	29.42	67.62	-177.20	5,842.42	3,073.54	2,976.33	97.21	31.617		
7,900.00	6,700.07	6,751.44	6,629.37	80.75	29.69	68.66	-177.47	5,842.17	3,046.85	2,947.79	99.06	30.757		
8,000.00	6,780.36	6,827.60	6,705.54	82.00	29.89	69.50	-177.58	5,841.76	3,020.86	2,919.97	100.89	29.941		
8,100.00	6,860.65	6,897.50	6,775.44	83.25	30.09	70.27	-177.66	5,841.65	2,996.07	2,893.34	102.73	29.165		
8,200.00	6,940.94	6,967.63	6,845.56	84.50	30.29	71.05	-177.92	5,841.74	2,972.58	2,868.01	104.57	28.426		
8,300.00	7,021.24	7,048.77	6,926.71	85.76	30.52	71.96	-178.31	5,841.91	2,950.22	2,843.78	106.44	27.717		
8,400.00	7,101.53	7,136.56	7,014.50	87.01	30.78	72.97	-178.74	5,841.91	2,928.78	2,820.46	108.32	27.037		
8,500.00	7,181.82	7,210.71	7,088.65	88.26	30.99	73.82	-179.15	5,841.82	2,908.39	2,798.20	110.19	26.394		
8,605.60	7,266.61	7,298.46	7,176.39	89.58	31.25	74.84	-179.74	5,841.76	2,888.14	2,775.97	112.17	25.747		
8,650.00	7,302.60	7,337.81	7,215.74	90.13	31.37	75.89	-179.99	5,841.65	2,878.59	2,765.60	112.99	25.477		
8,700.00	7,343.78	7,375.56	7,253.49	90.72	31.48	76.94	-180.26	5,841.53	2,864.88	2,751.04	113.84	25.167		
8,750.00	7,385.32	7,414.86	7,292.79	91.28	31.59	77.99	-180.58	5,841.40	2,848.10	2,733.48	114.62	24.849		
8,800.00	7,426.92	7,454.25	7,332.18	91.81	31.71	79.04	-180.94	5,841.27	2,828.32	2,712.99	115.33	24.525		
8,850.00	7,468.27	7,493.44	7,371.36	92.29	31.83	80.09	-181.35	5,841.13	2,805.62	2,689.67	115.95	24.197		
8,900.00	7,509.04	7,530.20	7,408.12	92.72	31.93	81.14	-181.78	5,841.00	2,780.13	2,663.64	116.49	23.866		
8,950.00	7,548.93	7,563.63	7,441.54	93.10	32.04	82.19	-182.25	5,840.89	2,752.05	2,635.12	116.93	23.536		
9,000.00	7,587.63	7,596.21	7,474.13	93.43	32.14	83.24	-182.80	5,840.81	2,721.56	2,604.28	117.28	23.205		
9,050.00	7,624.85	7,635.32	7,513.22	93.71	32.25	84.29	-183.50	5,840.74	2,688.83	2,571.27	117.55	22.873		
9,100.00	7,660.30	7,677.49	7,555.39	93.93	32.38	85.34	-184.08	5,840.74	2,653.96	2,536.22	117.74	22.541		
9,150.00	7,693.72	7,717.10	7,595.00	94.10	32.51	86.39	-184.45	5,840.79	2,617.21	2,499.39	117.82	22.213		
9,200.00	7,724.85	7,743.91	7,621.81	94.23	32.59	87.44	-184.70	5,840.86	2,578.98	2,461.19	117.79	21.895		
9,250.00	7,753.45	7,771.07	7,648.97	94.30	32.67	88.49	-184.95	5,840.94	2,539.58	2,421.92	117.66	21.584		
9,300.00	7,779.31	7,795.72	7,673.62	94.34	32.75	89.54	-185.18	5,841.04	2,499.36	2,381.92	117.43	21.283		
9,350.00	7,802.23	7,822.30	7,700.20	94.33	32.83	90.59	-185.42	5,841.14	2,458.65	2,341.53	117.12	20.993		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,845.68	7,723.57	94.28	32.90	-55.70	-185.60	5,841.22	2,417.81	2,301.11	116.70	20.718		
9,450.00	7,838.57	7,865.17	7,743.06	94.20	32.96	-64.27	-185.73	5,841.27	2,377.25	2,261.06	116.18	20.461		
9,500.00	7,851.72	7,880.64	7,758.54	94.10	33.01	-72.04	-185.82	5,841.30	2,337.38	2,221.81	115.57	20.224		
9,550.00	7,861.37	7,892.03	7,769.93	93.96	33.04	-78.79	-185.88	5,841.32	2,298.63	2,183.76	114.87	20.011		
9,600.00	7,867.46	7,899.28	7,777.17	93.81	33.06	-84.43	-185.92	5,841.33	2,261.39	2,147.32	114.07	19.824		
9,650.00	7,869.94	7,902.37	7,780.26	93.64	33.07	-88.98	-185.93	5,841.33	2,226.09	2,112.90	113.19	19.667		
9,659.14	7,870.00	7,902.48	7,780.38	93.60	33.07	-89.70	-185.93	5,841.33	2,219.88	2,106.86	113.02	19.641		
9,700.00	7,870.00	7,902.69	7,780.58	93.46	33.07	-89.71	-185.93	5,841.33	2,192.48	2,080.23	112.24	19.533		
9,800.00	7,870.00	7,903.19	7,781.08	93.11	33.07	-89.72	-185.94	5,841.33	2,127.24	2,017.00	110.24	19.297		
9,900.00	7,870.00	7,903.69	7,781.58	92.77	33.08	-89.74	-185.94	5,841.34	2,064.79	1,956.72	108.07	19.106		
10,000.00	7,870.00	7,904.18	7,782.07	92.46	33.08	-89.76	-185.94	5,841.34	2,005.38	1,899.64	105.74	18.965		
10,100.00	7,870.00	7,904.66	7,782.55	92.16	33.08	-89.77	-185.94	5,841.34	1,949.29	1,846.04	103.25	18.880		
10,200.00	7,870.00	7,905.14	7,783.03	91.87	33.08	-89.79	-185.94	5,841.34	1,896.82	1,796.21	100.61	18.854 SF		
10,300.00	7,870.00	7,905.62	7,783.51	91.60	33.08	-89.81	-185.95	5,841.34	1,848.28	1,750.45	97.83	18.893		
10,400.00	7,870.00	7,906.63	7,784.53	91.34	33.08	-89.74	-185.95	5,841.34	1,803.98	1,709.02	94.96	18.997		
10,500.00	7,870.00	7,904.15	7,782.04	91.11	33.08	-89.76	-185.95	5,841.34	1,764.24	1,672.21	92.03	19.170		
10,600.00	7,870.00	7,904.67	7,782.56	90.88	33.08	-89.77	-185.95	5,841.34	1,729.38	1,640.26	89.12	19.406		
10,700.00	7,870.00	7,905.19	7,783.08	90.67	33.08	-89.79	-185.95	5,841.34	1,699.69	1,613.38	86.31	19.694		
10,800.00	7,870.00	7,905.71	7,783.61	90.48	33.08	-89.81	-185.96	5,841.34	1,675.45	1,591.73	83.72	20.013		
10,900.00	7,870.00	7,906.25	7,784.14	90.31	33.08	-89.83	-185.96	5,841.35	1,656.90	1,575.41	81.49	20.333		
11,000.00	7,870.00	7,906.78	7,784.68	90.15	33.09	-89.85	-185.96	5,841.35	1,644.24	1,564.47	79.77	20.613		
11,100.00	7,870.00	7,907.32	7,785.22	90.00	33.09	-89.87	-185.97	5,841.35	1,637.59	1,558.90	78.69	20.810		
11,159.05	7,870.00	7,907.64	7,785.54	89.93	33.09	-89.88	-185.97	5,841.35	1,636.53	1,558.11	78.41	20.871 CC, ES		
11,200.00	7,870.00	7,907.87	7,785.76	89.88	33.09	-89.89	-185.97	5,841.35	1,637.04	1,558.68	78.36	20.891		
11,300.00	7,870.00	7,908.42	7,786.31	89.77	33.09	-89.91	-185.97	5,841.35	1,642.58	1,563.77	78.81	20.841		
11,400.00	7,870.00	7,908.97	7,786.87	89.68	33.09	-89.93	-185.98	5,841.35	1,654.17	1,574.16	80.01	20.674		
11,500.00	7,870.00	7,909.53	7,787.43	89.60	33.09	-89.94	-185.98	5,841.35	1,671.66	1,589.81	81.85	20.423		
11,600.00	7,870.00	7,910.10	7,787.99	89.55	33.10	-89.96	-185.98	5,841.35	1,694.89	1,610.69	84.20	20.130		
11,700.00	7,870.00	7,910.67	7,788.56	89.52	33.10	-89.98	-185.99	5,841.36	1,723.61	1,636.72	86.89	19.837		
11,800.00	7,870.00	7,911.24	7,789.14	89.50	33.10	-90.00	-185.99	5,841.36	1,757.56	1,667.77	89.79	19.573		
11,900.00	7,870.00	7,911.82	7,789.72	89.51	33.10	-90.03	-185.99	5,841.36	1,796.44	1,703.65	92.79	19.360		
12,000.00	7,870.00	7,912.41	7,790.30	89.54	33.10	-90.05	-186.00	5,841.36	1,839.94	1,744.16	95.79	19.209		
12,100.00	7,870.00	7,913.00	7,790.89	89.59	33.10	-90.07	-186.00	5,841.36	1,887.74	1,789.03	98.71	19.123		
12,200.00	7,870.00	7,913.60	7,791.49	89.66	33.11	-90.09	-186.00	5,841.36	1,939.53	1,838.00	101.53	19.104		
12,300.00	7,870.00	7,914.20	7,792.09	89.77	33.11	-90.11	-186.01	5,841.36	1,994.98	1,890.78	104.19	19.147		
12,400.00	7,870.00	7,914.80	7,792.70	89.89	33.11	-90.13	-186.01	5,841.36	2,053.81	1,947.11	106.70	19.248		
12,500.00	7,870.00	7,915.42	7,793.31	90.05	33.11	-90.15	-186.01	5,841.37	2,115.73	2,006.69	109.04	19.403		
12,600.00	7,870.00	7,916.04	7,793.93	90.24	33.11	-90.17	-186.02	5,841.37	2,180.48	2,069.27	111.21	19.607		
12,700.00	7,870.00	7,916.66	7,794.55	90.46	33.12	-90.19	-186.02	5,841.37	2,247.81	2,134.60	113.21	19.855		
12,800.00	7,870.00	7,917.29	7,795.18	90.71	33.12	-90.22	-186.03	5,841.37	2,317.51	2,202.45	115.06	20.142		
12,900.00	7,870.00	7,917.92	7,795.82	90.99	33.12	-90.24	-186.03	5,841.37	2,389.36	2,272.60	116.76	20.464		
13,000.00	7,870.00	7,918.57	7,796.46	91.32	33.12	-90.26	-186.03	5,841.37	2,463.17	2,344.85	118.32	20.818		
13,100.00	7,870.00	7,919.21	7,797.11	91.68	33.12	-90.28	-186.04	5,841.38	2,538.78	2,419.02	119.75	21.200		
13,200.00	7,870.00	7,919.87	7,797.76	92.08	33.13	-90.31	-186.04	5,841.38	2,616.02	2,494.95	121.07	21.607		
13,300.00	7,870.00	7,920.53	7,798.42	92.52	33.13	-90.33	-186.05	5,841.38	2,694.76	2,572.48	122.28	22.038		
13,400.00	7,870.00	7,921.20	7,799.09	93.00	33.13	-90.35	-186.05	5,841.38	2,774.87	2,651.48	123.39	22.489		
13,500.00	7,870.00	7,921.87	7,799.76	93.53	33.13	-90.38	-186.06	5,841.38	2,856.24	2,731.83	124.41	22.959		
13,600.00	7,870.00	7,922.55	7,800.44	94.10	33.13	-90.40	-186.06	5,841.38	2,938.75	2,813.41	125.34	23.445		
13,700.00	7,870.00	7,923.23	7,801.13	94.72	33.14	-90.42	-186.06	5,841.39	3,022.32	2,896.11	126.21	23.947		
13,800.00	7,870.00	7,923.93	7,801.82	95.38	33.14	-90.45	-186.07	5,841.39	3,106.86	2,979.86	127.00	24.463		
13,900.00	7,870.00	7,924.63	7,802.52	96.09	33.14	-90.47	-186.07	5,841.39	3,192.30	3,064.56	127.74	24.991		
14,000.00	7,870.00	7,925.33	7,803.23	96.84	33.14	-90.50	-186.08	5,841.39	3,278.56	3,150.14	128.42	25.530		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,926.05	7,803.94	97.64	33.14	-90.52	-186.08	5,841.39	3,365.58	3,236.53	129.05	26.080		
14,200.00	7,870.00	7,926.77	7,804.66	98.48	33.15	-90.55	-186.09	5,841.40	3,453.30	3,323.67	129.63	26.639		
14,300.00	7,870.00	7,927.50	7,805.39	99.37	33.15	-90.57	-186.09	5,841.40	3,541.67	3,411.50	130.17	27.207		
14,400.00	7,870.00	7,928.23	7,806.12	100.30	33.15	-90.60	-186.10	5,841.40	3,630.65	3,499.97	130.68	27.784		
14,500.00	7,870.00	7,928.97	7,806.87	101.26	33.15	-90.63	-186.10	5,841.40	3,720.18	3,589.04	131.14	28.367		
14,600.00	7,870.00	7,929.72	7,807.62	102.27	33.16	-90.65	-186.11	5,841.40	3,810.24	3,678.66	131.58	28.957		
14,700.00	7,870.00	7,930.48	7,808.38	103.31	33.16	-90.68	-186.11	5,841.41	3,900.78	3,768.79	131.99	29.554		
14,800.00	7,870.00	7,931.25	7,809.14	104.38	33.16	-90.71	-186.12	5,841.41	3,991.77	3,859.40	132.37	30.156		
14,900.00	7,870.00	7,932.02	7,809.92	105.49	33.16	-90.73	-186.12	5,841.41	4,083.19	3,950.46	132.73	30.764		
15,000.00	7,870.00	7,932.80	7,810.70	106.63	33.17	-90.76	-186.13	5,841.41	4,174.99	4,041.93	133.06	31.377		
15,100.00	7,870.00	7,933.59	7,811.49	107.80	33.17	-90.79	-186.13	5,841.41	4,267.17	4,133.80	133.37	31.994		
15,200.00	7,870.00	7,934.39	7,812.29	109.00	33.17	-90.82	-186.14	5,841.42	4,359.69	4,226.02	133.67	32.616		
15,300.00	7,870.00	7,935.20	7,813.09	110.22	33.17	-90.84	-186.14	5,841.42	4,452.53	4,318.59	133.95	33.241		
15,400.00	7,870.00	7,936.02	7,813.91	111.47	33.18	-90.87	-186.15	5,841.42	4,545.68	4,411.47	134.21	33.871		
15,500.00	7,870.00	7,936.84	7,814.73	112.74	33.18	-90.90	-186.16	5,841.42	4,639.11	4,504.66	134.45	34.503		
15,600.00	7,870.00	7,937.67	7,815.57	114.03	33.18	-90.93	-186.16	5,841.43	4,732.81	4,598.12	134.69	35.139		
15,700.00	7,870.00	7,938.51	7,816.41	115.34	33.18	-90.96	-186.17	5,841.43	4,826.76	4,691.86	134.91	35.778		
15,800.00	7,870.00	7,939.37	7,817.26	116.68	33.19	-90.99	-186.17	5,841.43	4,920.96	4,785.84	135.12	36.420		
15,900.00	7,870.00	7,940.23	7,818.12	118.02	33.19	-91.02	-186.18	5,841.44	5,015.37	4,880.06	135.31	37.064		
16,000.00	7,870.00	7,941.10	7,818.99	119.39	33.19	-91.05	-186.19	5,841.44	5,110.00	4,974.50	135.50	37.711		
16,100.00	7,870.00	7,941.98	7,819.87	120.77	33.19	-91.08	-186.19	5,841.44	5,204.83	5,069.15	135.68	38.360		
16,200.00	7,870.00	7,942.87	7,820.76	122.17	33.20	-91.11	-186.20	5,841.44	5,299.85	5,164.00	135.85	39.012		
16,300.00	7,870.00	7,943.76	7,821.66	123.58	33.20	-91.14	-186.21	5,841.45	5,395.05	5,259.03	136.02	39.665		
16,400.00	7,870.00	7,944.67	7,822.57	125.00	33.20	-91.17	-186.21	5,841.45	5,490.42	5,354.25	136.17	40.320		
16,500.00	7,870.00	7,945.59	7,823.49	126.43	33.20	-91.21	-186.22	5,841.45	5,585.95	5,449.63	136.32	40.977		
16,600.00	7,870.00	7,946.52	7,824.42	127.88	33.21	-91.24	-186.23	5,841.46	5,681.63	5,545.17	136.46	41.636		
16,700.00	7,870.00	7,947.46	7,825.36	129.34	33.21	-91.27	-186.23	5,841.46	5,777.46	5,640.87	136.60	42.296		
16,800.00	7,870.00	7,948.42	7,826.31	130.81	33.21	-91.31	-186.24	5,841.46	5,873.43	5,736.71	136.73	42.958		
16,900.00	7,870.00	7,949.38	7,827.27	132.28	33.22	-91.34	-186.25	5,841.47	5,969.54	5,832.69	136.85	43.621		
17,000.00	7,870.00	7,950.35	7,828.24	133.77	33.22	-91.37	-186.26	5,841.47	6,065.76	5,928.79	136.97	44.285		
17,100.00	7,870.00	7,951.34	7,829.23	135.27	33.22	-91.41	-186.26	5,841.47	6,162.11	6,025.03	137.09	44.951		
17,200.00	7,870.00	7,952.33	7,830.23	136.77	33.23	-91.44	-186.27	5,841.48	6,258.58	6,121.38	137.20	45.618		
17,300.00	7,870.00	7,953.34	7,831.23	138.28	33.23	-91.48	-186.28	5,841.48	6,355.15	6,217.84	137.30	46.285		
17,400.00	7,870.00	7,954.36	7,832.26	139.80	33.23	-91.51	-186.29	5,841.48	6,451.82	6,314.42	137.41	46.954		
17,500.00	7,870.00	7,955.40	7,833.29	141.33	33.23	-91.55	-186.30	5,841.49	6,548.60	6,411.09	137.51	47.624		
17,600.00	7,870.00	7,956.44	7,834.33	142.86	33.24	-91.59	-186.30	5,841.49	6,645.47	6,507.87	137.60	48.295		
17,700.00	7,870.00	7,957.50	7,835.39	144.40	33.24	-91.62	-186.31	5,841.50	6,742.43	6,604.74	137.70	48.966		
17,800.00	7,870.00	7,958.57	7,836.46	145.95	33.24	-91.66	-186.32	5,841.50	6,839.48	6,701.70	137.79	49.638		
17,900.00	7,870.00	7,959.65	7,837.54	147.50	33.25	-91.70	-186.33	5,841.50	6,936.62	6,798.74	137.87	50.311		
18,000.00	7,870.00	7,960.75	7,838.64	149.06	33.25	-91.74	-186.34	5,841.51	7,033.83	6,895.87	137.96	50.985		
18,100.00	7,870.00	7,961.86	7,839.75	150.63	33.25	-91.78	-186.35	5,841.51	7,131.12	6,993.08	138.04	51.659		
18,200.00	7,870.00	7,962.99	7,840.88	152.20	33.26	-91.82	-186.36	5,841.52	7,228.48	7,090.36	138.12	52.334		
18,300.00	7,870.00	7,964.12	7,842.02	153.77	33.26	-91.86	-186.37	5,841.52	7,325.92	7,187.72	138.20	53.009		
18,400.00	7,870.00	7,965.28	7,843.17	155.35	33.27	-91.90	-186.38	5,841.53	7,423.42	7,285.15	138.28	53.685		
18,500.00	7,870.00	7,966.45	7,844.34	156.93	33.27	-91.94	-186.39	5,841.53	7,520.99	7,382.64	138.35	54.362		
18,600.00	7,870.00	7,967.63	7,845.52	158.52	33.27	-91.98	-186.40	5,841.54	7,618.62	7,480.20	138.42	55.039		
18,700.00	7,870.00	7,968.83	7,846.72	160.11	33.28	-92.02	-186.41	5,841.54	7,716.31	7,577.82	138.49	55.716		
18,800.00	7,870.00	7,970.04	7,847.93	161.71	33.28	-92.06	-186.42	5,841.55	7,814.07	7,675.50	138.56	56.394		
18,900.00	7,870.00	7,971.27	7,849.16	163.31	33.28	-92.11	-186.43	5,841.55	7,911.87	7,773.24	138.63	57.072		
19,000.00	7,870.00	7,972.52	7,850.41	164.91	33.29	-92.15	-186.44	5,841.56	8,009.73	7,871.04	138.70	57.750		
19,100.00	7,870.00	7,973.78	7,851.67	166.52	33.29	-92.19	-186.45	5,841.56	8,107.65	7,968.88	138.76	58.429		
19,200.00	7,870.00	7,975.06	7,852.95	168.13	33.30	-92.24	-186.46	5,841.57	8,205.61	8,066.78	138.83	59.108		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,976.35	7,854.24	169.75	33.30	-92.28	-186.47	5,841.57	8,303.62	8,164.73	138.89	59.787	
19,383.51	7,870.00	7,977.45	7,855.34	171.10	33.30	-92.32	-186.48	5,841.58	8,385.50	8,246.56	138.94	60.354	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	81.96	761.95	5,392.69	5,446.87					
100.00	100.00	54.51	54.51	0.13	0.09	81.96	761.96	5,392.50	5,446.19	5,445.96	0.22	N/A		
200.00	200.00	177.24	177.22	0.49	0.36	81.95	762.16	5,390.91	5,444.85	5,443.99	0.86	6,361.987		
300.00	300.00	230.50	230.48	0.85	0.55	81.95	762.69	5,390.49	5,444.19	5,442.79	1.40	3,883.176		
400.00	400.00	328.28	328.23	1.21	0.90	81.92	765.10	5,389.94	5,443.98	5,441.87	2.11	2,583.309		
426.51	426.51	344.57	344.51	1.30	0.96	81.91	765.78	5,389.84	5,443.96	5,441.70	2.26	2,407.124		
500.00	500.00	395.48	395.34	1.57	1.15	81.88	768.68	5,389.53	5,444.12	5,441.41	2.71	2,009.866		
600.00	600.00	460.79	460.42	1.93	1.39	81.83	774.05	5,389.24	5,444.84	5,441.54	3.31	1,645.804		
700.00	699.98	1,101.77	1,089.38	2.28	4.23	16.84	885.57	5,348.86	5,440.47	5,433.98	6.49	838.653		
800.00	799.84	1,184.52	1,169.51	2.64	4.66	16.73	903.67	5,338.91	5,426.99	5,419.73	7.26	747.267		
900.00	899.45	1,279.25	1,261.55	3.00	5.14	16.62	923.15	5,327.84	5,410.43	5,402.34	8.09	668.511		
1,000.00	998.70	1,320.71	1,301.93	3.37	5.35	16.66	931.32	5,323.29	5,391.16	5,382.51	8.66	622.670		
1,100.00	1,097.47	1,371.00	1,350.95	3.76	5.61	16.69	941.41	5,318.28	5,369.65	5,360.38	9.27	579.309		
1,200.00	1,195.62	1,422.81	1,401.38	4.18	5.87	16.74	952.25	5,313.48	5,345.74	5,335.84	9.90	540.110		
1,300.00	1,293.06	1,519.91	1,495.52	4.63	6.39	16.71	974.35	5,304.62	5,319.13	5,308.36	10.77	493.828		
1,400.00	1,389.64	1,662.41	1,632.88	5.11	7.17	16.58	1,009.42	5,290.15	5,288.69	5,276.77	11.91	443.920		
1,500.00	1,485.27	1,719.86	1,688.37	5.63	7.48	16.68	1,023.13	5,284.40	5,255.11	5,242.51	12.60	417.038		
1,600.00	1,579.82	1,811.47	1,777.28	6.20	7.97	16.75	1,043.45	5,275.80	5,218.79	5,205.33	13.46	387.628		
1,700.00	1,673.17	1,900.65	1,864.12	6.83	8.43	16.87	1,062.01	5,267.53	5,179.30	5,164.99	14.30	362.109		
1,800.00	1,765.21	1,968.02	1,929.98	7.51	8.76	17.06	1,074.88	5,261.64	5,136.98	5,121.95	15.03	341.680		
1,900.00	1,855.84	2,026.79	1,987.45	8.24	9.06	17.30	1,086.19	5,256.85	5,092.20	5,076.47	15.73	323.721		
2,000.00	1,944.94	2,228.56	2,183.44	9.05	10.12	17.38	1,130.19	5,238.04	5,044.07	5,026.91	17.16	293.962		
2,100.00	2,032.39	2,340.48	2,292.29	9.91	10.70	17.63	1,153.30	5,226.00	4,991.47	4,973.34	18.13	275.314		
2,200.00	2,118.11	2,414.62	2,364.71	10.85	11.08	17.99	1,167.11	5,218.18	4,935.96	4,917.04	18.92	260.904		
2,300.00	2,201.97	2,470.39	2,419.18	11.85	11.36	18.40	1,177.61	5,212.50	4,878.04	4,858.41	19.63	248.497		
2,400.00	2,283.88	2,523.27	2,470.75	12.93	11.63	18.86	1,188.12	5,207.29	4,817.89	4,797.54	20.34	236.830		
2,429.47	2,307.63	2,538.29	2,485.38	13.26	11.71	19.00	1,191.19	5,205.86	4,799.74	4,779.18	20.56	233.485		
2,500.00	2,364.26	2,574.25	2,520.39	14.06	11.89	18.99	1,198.68	5,202.49	4,756.21	4,735.15	21.06	225.846		
2,600.00	2,444.56	2,698.08	2,640.74	15.22	12.55	18.92	1,225.27	5,190.56	4,694.42	4,672.31	22.11	212.314		
2,700.00	2,524.85	2,797.32	2,737.20	16.39	13.07	18.86	1,246.22	5,180.29	4,631.97	4,608.92	23.05	200.913		
2,800.00	2,605.14	2,887.00	2,824.21	17.57	13.55	18.80	1,265.59	5,170.48	4,569.14	4,545.18	23.96	190.664		
2,900.00	2,685.43	2,949.76	2,884.96	18.76	13.89	18.75	1,279.74	5,163.57	4,506.41	4,481.64	24.77	181.927		
3,000.00	2,765.73	3,001.97	2,935.39	19.96	14.19	18.70	1,292.07	5,157.95	4,444.02	4,418.47	25.55	173.946		
3,100.00	2,846.02	3,054.00	2,985.45	21.16	14.48	18.63	1,305.16	5,152.53	4,382.12	4,355.79	26.34	166.397		
3,200.00	2,926.31	3,116.22	3,045.20	22.37	14.84	18.54	1,321.35	5,146.26	4,320.62	4,293.44	27.18	158.949		
3,300.00	3,006.60	3,206.08	3,131.49	23.59	15.36	18.40	1,344.78	5,137.34	4,259.27	4,231.12	28.15	151.290		
3,400.00	3,086.90	3,310.54	3,231.78	24.81	15.97	18.24	1,371.86	5,126.37	4,197.45	4,168.27	29.18	143.827		
3,500.00	3,167.19	3,383.96	3,302.20	26.03	16.40	18.12	1,391.03	5,118.39	4,135.41	4,105.32	30.09	137.442		
3,600.00	3,247.48	3,478.47	3,392.75	27.25	16.96	17.95	1,416.11	5,108.20	4,073.53	4,042.45	31.08	131.062		
3,700.00	3,327.77	3,576.12	3,486.11	28.48	17.54	17.76	1,442.35	5,096.76	4,010.94	3,978.85	32.09	125.005		
3,800.00	3,408.07	3,643.06	3,550.13	29.71	17.94	17.63	1,460.27	5,088.95	3,948.42	3,915.45	32.97	119.759		
3,900.00	3,488.36	3,702.93	3,607.75	30.94	18.28	17.53	1,475.18	5,082.44	3,886.24	3,852.41	33.83	114.891		
4,000.00	3,568.65	3,766.53	3,669.17	32.17	18.64	17.44	1,490.33	5,075.95	3,824.40	3,789.71	34.69	110.247		
4,100.00	3,648.95	3,857.12	3,756.50	33.41	19.16	17.29	1,512.59	5,066.74	3,762.74	3,727.10	35.64	105.567		
4,200.00	3,729.24	3,960.35	3,855.85	34.64	19.74	17.10	1,538.24	5,055.41	3,700.49	3,663.86	36.63	101.032		
4,300.00	3,809.53	4,044.21	3,937.04	35.88	20.21	16.98	1,557.14	5,046.28	3,637.95	3,600.41	37.54	96.908		
4,400.00	3,889.82	4,115.36	4,006.01	37.12	20.59	16.89	1,572.84	5,038.60	3,575.42	3,537.01	38.41	93.081		
4,500.00	3,970.12	4,177.53	4,066.50	38.36	20.92	16.82	1,585.75	5,032.31	3,513.19	3,473.93	39.26	89.479		
4,600.00	4,050.41	4,261.24	4,148.17	39.60	21.35	16.74	1,602.22	5,024.17	3,451.09	3,410.95	40.15	85.961		
4,700.00	4,130.70	4,392.06	4,275.66	40.84	22.02	16.62	1,628.04	5,010.31	3,388.35	3,347.24	41.11	82.431		
4,800.00	4,210.99	4,477.72	4,358.86	42.08	22.48	16.50	1,645.67	5,000.09	3,324.71	3,282.72	41.99	79.185		
4,900.00	4,291.29	4,522.98	4,402.90	43.32	22.71	16.45	1,654.78	4,995.00	3,261.52	3,218.71	42.82	76.176		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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				
5,000.00	4,371.58	4,555.00	4,434.14	44.57	22.88	16.42	1,660.99	4,991.72	3,199.16	3,155.52	43.64	73.309				
5,100.00	4,451.87	4,602.68	4,480.84	45.81	23.10	16.39	1,669.62	4,987.57	3,137.69	3,093.22	44.47	70.555				
5,200.00	4,532.16	4,648.00	4,525.47	47.05	23.32	16.38	1,676.94	4,984.60	3,077.36	3,032.04	45.32	67.910				
5,300.00	4,612.46	4,759.93	4,636.12	48.30	23.79	16.44	1,692.35	4,977.72	3,017.02	2,970.85	46.17	65.352				
5,400.00	4,692.75	4,827.78	4,703.42	49.54	24.06	16.52	1,699.87	4,973.67	2,956.31	2,909.31	47.00	62.902				
5,500.00	4,773.04	4,893.77	4,769.04	50.79	24.30	16.63	1,706.02	4,970.28	2,895.95	2,848.12	47.83	60.548				
5,600.00	4,853.34	4,970.41	4,845.36	52.03	24.57	16.79	1,712.16	4,966.87	2,835.90	2,787.25	48.65	58.286				
5,700.00	4,933.63	5,045.12	4,919.85	53.28	24.82	16.98	1,716.89	4,963.75	2,775.80	2,726.32	49.48	56.095				
5,800.00	5,013.92	5,101.04	4,975.68	54.53	25.00	17.16	1,719.66	4,961.97	2,716.25	2,665.91	50.34	53.961				
5,900.00	5,094.21	5,183.98	5,058.56	55.77	25.23	17.48	1,721.87	4,960.17	2,657.15	2,605.99	51.16	51.942				
6,000.00	5,174.51	5,257.35	5,131.92	57.02	25.41	17.85	1,721.23	4,959.01	2,597.98	2,545.98	52.00	49.965				
6,100.00	5,254.80	5,329.77	5,204.32	58.27	25.57	18.26	1,719.61	4,958.39	2,539.23	2,486.38	52.85	48.045				
6,200.00	5,335.09	5,421.25	5,295.76	59.52	25.78	18.80	1,717.51	4,957.48	2,480.50	2,426.82	53.69	46.203				
6,300.00	5,415.38	5,515.44	5,389.91	60.76	25.99	19.39	1,715.29	4,955.84	2,421.27	2,366.74	54.54	44.398				
6,400.00	5,495.68	5,588.56	5,463.00	62.01	26.16	19.86	1,713.63	4,954.51	2,362.13	2,306.68	55.45	42.597				
6,500.00	5,575.97	5,655.84	5,530.26	63.26	26.33	20.31	1,712.43	4,953.48	2,303.42	2,247.01	56.41	40.833				
6,600.00	5,656.26	5,726.31	5,600.72	64.51	26.50	20.79	1,711.58	4,952.65	2,245.20	2,187.82	57.39	39.124				
6,700.00	5,736.55	5,801.82	5,676.23	65.76	26.68	21.32	1,710.87	4,951.97	2,187.38	2,129.00	58.38	37.469				
6,800.00	5,816.85	5,880.58	5,754.98	67.01	26.88	21.90	1,710.24	4,951.26	2,129.73	2,070.34	59.39	35.859				
6,900.00	5,897.14	5,951.64	5,826.04	68.26	27.06	22.44	1,709.90	4,950.78	2,072.45	2,012.00	60.46	34.279				
7,000.00	5,977.43	6,034.09	5,908.48	69.50	27.27	23.09	1,709.69	4,950.34	2,015.49	1,953.96	61.53	32.757				
7,100.00	6,057.72	6,111.35	5,985.74	70.75	27.48	23.73	1,709.61	4,949.88	1,958.67	1,896.02	62.65	31.262				
7,200.00	6,138.02	6,189.57	6,063.97	72.00	27.69	24.41	1,709.82	4,949.51	1,902.19	1,838.37	63.81	29.808				
7,300.00	6,218.31	6,267.35	6,141.74	73.25	27.91	25.11	1,710.19	4,949.16	1,845.95	1,780.93	65.02	28.391				
7,400.00	6,298.60	6,341.62	6,216.01	74.50	28.11	25.82	1,710.66	4,949.02	1,790.16	1,723.87	66.28	27.008				
7,500.00	6,378.90	6,414.87	6,289.26	75.75	28.31	26.56	1,710.87	4,949.17	1,734.92	1,667.31	67.60	25.664				
7,600.00	6,459.19	6,498.89	6,373.28	77.00	28.53	27.47	1,710.83	4,949.49	1,680.08	1,611.13	68.94	24.369				
7,700.00	6,539.48	6,579.02	6,453.41	78.25	28.75	28.40	1,710.84	4,949.65	1,625.41	1,555.05	70.36	23.101				
7,800.00	6,619.77	6,663.15	6,537.54	79.50	28.97	29.44	1,710.71	4,949.83	1,571.10	1,499.27	71.84	21.870				
7,900.00	6,700.07	6,746.65	6,621.04	80.75	29.20	30.55	1,710.51	4,949.70	1,516.88	1,443.49	73.40	20.667				
8,000.00	6,780.36	6,826.92	6,701.31	82.00	29.41	31.68	1,710.41	4,949.57	1,463.09	1,388.04	75.05	19.494				
8,100.00	6,860.65	6,909.15	6,783.54	83.25	29.64	32.92	1,710.40	4,949.33	1,409.68	1,332.88	76.80	18.356				
8,200.00	6,940.94	6,989.06	6,863.45	84.50	29.86	34.21	1,710.36	4,949.06	1,356.76	1,278.10	78.66	17.249				
8,300.00	7,021.24	7,069.27	6,943.65	85.76	30.09	35.59	1,710.29	4,948.78	1,304.45	1,223.82	80.63	16.178				
8,400.00	7,101.53	7,149.10	7,023.49	87.01	30.31	37.07	1,710.31	4,948.52	1,252.82	1,170.08	82.73	15.143				
8,500.00	7,181.82	7,231.57	7,105.96	88.26	30.55	38.70	1,710.49	4,948.23	1,201.90	1,116.94	84.96	14.147				
8,605.60	7,266.61	7,319.01	7,193.40	89.58	30.80	40.56	1,710.77	4,947.69	1,148.84	1,061.37	87.47	13.134				
8,650.00	7,302.60	7,355.82	7,230.20	90.13	30.91	33.01	1,710.87	4,947.40	1,126.31	1,037.82	88.49	12.728				
8,700.00	7,343.78	7,397.48	7,271.86	90.72	31.03	23.63	1,710.99	4,947.05	1,100.03	1,010.59	89.44	12.299				
8,750.00	7,385.32	7,439.42	7,313.80	91.28	31.16	13.51	1,711.15	4,946.67	1,072.86	982.71	90.15	11.901				
8,800.00	7,426.92	7,481.38	7,355.76	91.81	31.28	2.92	1,711.34	4,946.28	1,044.93	954.33	90.60	11.533				
8,850.00	7,468.27	7,523.03	7,397.41	92.29	31.40	-7.84	1,711.57	4,945.87	1,016.42	925.65	90.77	11.198				
8,900.00	7,509.04	7,564.04	7,438.41	92.72	31.53	-18.50	1,711.83	4,945.44	987.56	896.93	90.63	10.897				
8,950.00	7,548.93	7,599.84	7,474.21	93.10	31.63	-28.75	1,712.01	4,945.16	958.76	868.57	90.20	10.629				
9,000.00	7,587.63	7,635.93	7,510.30	93.43	31.74	-38.48	1,712.16	4,944.95	930.38	840.97	89.42	10.405				
9,050.00	7,624.85	7,671.42	7,545.79	93.71	31.84	-47.58	1,712.27	4,944.82	902.83	814.55	88.28	10.227				
9,100.00	7,660.30	7,705.41	7,579.78	93.93	31.95	-55.97	1,712.38	4,944.75	876.58	789.80	86.78	10.101				
9,150.00	7,693.72	7,737.55	7,611.92	94.10	32.04	-63.55	1,712.50	4,944.73	852.17	767.24	84.93	10.033				
9,200.00	7,724.85	7,768.54	7,642.90	94.23	32.13	-70.34	1,712.58	4,944.73	830.20	747.43	82.77	10.030 SF				
9,250.00	7,753.45	7,797.07	7,671.44	94.30	32.22	-76.23	1,712.63	4,944.73	811.28	730.91	80.37	10.094				
9,300.00	7,779.31	7,822.93	7,697.30	94.34	32.29	-81.21	1,712.65	4,944.73	796.06	718.19	77.87	10.223				
9,350.00	7,802.23	7,845.86	7,720.23	94.33	32.36	-85.28	1,712.65	4,944.73	785.14	709.70	75.44	10.407				

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,865.66	7,740.03	94.28	32.42	-88.43	1,712.65	4,944.73	779.07	705.74	73.33	10.624		
9,432.71	7,833.23	7,876.86	7,751.23	94.23	32.45	-90.00	1,712.65	4,944.73	777.92	705.68	72.24	10.769	CC, ES	
9,450.00	7,838.57	7,882.20	7,756.57	94.20	32.47	-90.67	1,712.65	4,944.73	778.25	706.47	71.78	10.843		
9,500.00	7,851.72	7,895.35	7,769.72	94.10	32.51	-92.02	1,712.65	4,944.73	782.90	711.90	71.00	11.027		
9,550.00	7,861.37	7,905.00	7,779.37	93.96	32.53	-92.44	1,712.65	4,944.73	793.07	722.00	71.07	11.158		
9,600.00	7,867.46	7,911.09	7,785.46	93.81	32.55	-91.92	1,712.65	4,944.73	808.60	736.65	71.95	11.239		
9,650.00	7,869.94	7,913.57	7,787.94	93.64	32.56	-90.39	1,712.65	4,944.73	829.15	755.72	73.43	11.292		
9,659.14	7,870.00	7,913.63	7,788.00	93.60	32.56	-90.00	1,712.65	4,944.73	833.42	759.67	73.75	11.301		
9,700.00	7,870.00	7,913.63	7,788.00	93.46	32.56	-90.00	1,712.65	4,944.73	853.58	778.26	75.31	11.334		
9,800.00	7,870.00	7,913.63	7,788.00	93.11	32.56	-90.00	1,712.65	4,944.73	908.79	829.05	79.74	11.397		
9,900.00	7,870.00	7,913.63	7,788.00	92.77	32.56	-90.00	1,712.65	4,944.73	971.19	886.84	84.35	11.514		
10,000.00	7,870.00	7,913.63	7,788.00	92.46	32.56	-90.00	1,712.65	4,944.73	1,039.48	950.79	88.68	11.721		
10,100.00	7,870.00	7,913.63	7,788.00	92.16	32.56	-90.00	1,712.65	4,944.73	1,112.58	1,020.00	92.58	12.018		
10,200.00	7,870.00	7,913.63	7,788.00	91.87	32.56	-90.00	1,712.65	4,944.73	1,189.59	1,093.59	96.00	12.392		
10,300.00	7,870.00	7,913.63	7,788.00	91.60	32.56	-90.00	1,712.65	4,944.73	1,269.82	1,170.85	98.97	12.830		
10,400.00	7,870.00	7,913.63	7,788.00	91.34	32.56	-90.00	1,712.65	4,944.73	1,352.68	1,251.13	101.55	13.321		
10,500.00	7,870.00	7,913.63	7,788.00	91.11	32.56	-90.00	1,712.65	4,944.73	1,437.73	1,333.95	103.78	13.854		
10,600.00	7,870.00	7,913.63	7,788.00	90.88	32.56	-90.00	1,712.65	4,944.73	1,524.59	1,418.87	105.72	14.421		
10,700.00	7,870.00	7,913.63	7,788.00	90.67	32.56	-90.00	1,712.65	4,944.73	1,612.97	1,505.56	107.41	15.017		
10,800.00	7,870.00	7,913.63	7,788.00	90.48	32.56	-90.00	1,712.65	4,944.73	1,702.64	1,593.75	108.89	15.637		
10,900.00	7,870.00	7,913.63	7,788.00	90.31	32.56	-90.00	1,712.65	4,944.73	1,793.40	1,683.21	110.19	16.275		
11,000.00	7,870.00	7,913.63	7,788.00	90.15	32.56	-90.00	1,712.65	4,944.73	1,885.10	1,773.75	111.34	16.930		
11,100.00	7,870.00	7,913.63	7,788.00	90.00	32.56	-90.00	1,712.65	4,944.73	1,977.60	1,865.23	112.37	17.599		
11,200.00	7,870.00	7,913.63	7,788.00	89.88	32.56	-90.00	1,712.65	4,944.73	2,070.80	1,957.52	113.28	18.280		
11,300.00	7,870.00	7,913.63	7,788.00	89.77	32.56	-90.00	1,712.65	4,944.73	2,164.61	2,050.50	114.10	18.971		
11,400.00	7,870.00	7,913.63	7,788.00	89.68	32.56	-90.00	1,712.65	4,944.73	2,258.94	2,144.10	114.84	19.670		
11,500.00	7,870.00	7,913.63	7,788.00	89.60	32.56	-90.00	1,712.65	4,944.73	2,353.75	2,238.24	115.51	20.377		
11,600.00	7,870.00	7,913.63	7,788.00	89.55	32.56	-90.00	1,712.65	4,944.73	2,448.97	2,332.85	116.12	21.091		
11,700.00	7,870.00	7,913.63	7,788.00	89.52	32.56	-90.00	1,712.65	4,944.73	2,544.55	2,427.88	116.67	21.810		
11,800.00	7,870.00	7,913.63	7,788.00	89.50	32.56	-90.00	1,712.65	4,944.73	2,640.47	2,523.29	117.17	22.534		
11,900.00	7,870.00	7,913.63	7,788.00	89.51	32.56	-90.00	1,712.65	4,944.73	2,736.67	2,619.03	117.64	23.263		
12,000.00	7,870.00	7,913.63	7,788.00	89.54	32.56	-90.00	1,712.65	4,944.73	2,833.14	2,715.07	118.07	23.996		
12,100.00	7,870.00	7,913.63	7,788.00	89.59	32.56	-90.00	1,712.65	4,944.73	2,929.84	2,811.38	118.46	24.733		
12,200.00	7,870.00	7,913.63	7,788.00	89.66	32.56	-90.00	1,712.65	4,944.73	3,026.76	2,907.94	118.82	25.473		
12,300.00	7,870.00	7,913.63	7,788.00	89.77	32.56	-90.00	1,712.65	4,944.73	3,123.87	3,004.71	119.16	26.215		
12,400.00	7,870.00	7,913.63	7,788.00	89.89	32.56	-90.00	1,712.65	4,944.73	3,221.16	3,101.69	119.48	26.960		
12,500.00	7,870.00	7,913.63	7,788.00	90.05	32.56	-90.00	1,712.65	4,944.73	3,318.62	3,198.84	119.77	27.708		
12,600.00	7,870.00	7,913.63	7,788.00	90.24	32.56	-90.00	1,712.65	4,944.73	3,416.21	3,296.17	120.05	28.458		
12,700.00	7,870.00	7,913.63	7,788.00	90.46	32.56	-90.00	1,712.65	4,944.73	3,513.95	3,393.64	120.30	29.209		
12,800.00	7,870.00	7,913.63	7,788.00	90.71	32.56	-90.00	1,712.65	4,944.73	3,611.80	3,491.26	120.54	29.962		
12,900.00	7,870.00	7,913.63	7,788.00	90.99	32.56	-90.00	1,712.65	4,944.73	3,709.78	3,589.00	120.77	30.717		
13,000.00	7,870.00	7,913.63	7,788.00	91.32	32.56	-90.00	1,712.65	4,944.73	3,807.85	3,686.87	120.99	31.473		
13,100.00	7,870.00	7,913.63	7,788.00	91.68	32.56	-90.00	1,712.65	4,944.73	3,906.03	3,784.84	121.19	32.231		
13,200.00	7,870.00	7,913.63	7,788.00	92.08	32.56	-90.00	1,712.65	4,944.73	4,004.29	3,882.91	121.38	32.990		
13,300.00	7,870.00	7,913.63	7,788.00	92.52	32.56	-90.00	1,712.65	4,944.73	4,102.64	3,981.08	121.56	33.750		
13,400.00	7,870.00	7,913.63	7,788.00	93.00	32.56	-90.00	1,712.65	4,944.73	4,201.07	4,079.34	121.73	34.510		
13,500.00	7,870.00	7,913.63	7,788.00	93.53	32.56	-90.00	1,712.65	4,944.73	4,299.57	4,177.67	121.90	35.272		
13,600.00	7,870.00	7,913.63	7,788.00	94.10	32.56	-90.00	1,712.65	4,944.73	4,398.14	4,276.08	122.05	36.034		
13,700.00	7,870.00	7,913.63	7,788.00	94.72	32.56	-90.00	1,712.65	4,944.73	4,496.77	4,374.56	122.20	36.798		
13,800.00	7,870.00	7,913.63	7,788.00	95.38	32.56	-90.00	1,712.65	4,944.73	4,595.46	4,473.11	122.34	37.562		
13,900.00	7,870.00	7,913.63	7,788.00	96.09	32.56	-90.00	1,712.65	4,944.73	4,694.20	4,571.72	122.48	38.326		
14,000.00	7,870.00	7,913.63	7,788.00	96.84	32.56	-90.00	1,712.65	4,944.73	4,793.00	4,670.39	122.61	39.091		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,913.63	7,788.00	97.64	32.56	-90.00	1,712.65	4,944.73	4,891.84	4,769.11	122.74	39.857		
14,200.00	7,870.00	7,913.63	7,788.00	98.48	32.56	-90.00	1,712.65	4,944.73	4,990.74	4,867.88	122.86	40.623		
14,300.00	7,870.00	7,913.63	7,788.00	99.37	32.56	-90.00	1,712.65	4,944.73	5,089.67	4,966.70	122.97	41.389		
14,400.00	7,870.00	7,913.63	7,788.00	100.30	32.56	-90.00	1,712.65	4,944.73	5,188.65	5,065.57	123.08	42.156		
14,500.00	7,870.00	7,913.63	7,788.00	101.26	32.56	-90.00	1,712.65	4,944.73	5,287.66	5,164.47	123.19	42.924		
14,600.00	7,870.00	7,913.63	7,788.00	102.27	32.56	-90.00	1,712.65	4,944.73	5,386.71	5,263.42	123.29	43.691		
14,700.00	7,870.00	7,913.63	7,788.00	103.31	32.56	-90.00	1,712.65	4,944.73	5,485.80	5,362.41	123.39	44.459		
14,800.00	7,870.00	7,913.63	7,788.00	104.38	32.56	-90.00	1,712.65	4,944.73	5,584.92	5,461.43	123.49	45.227		
14,900.00	7,870.00	7,913.63	7,788.00	105.49	32.56	-90.00	1,712.65	4,944.73	5,684.07	5,560.49	123.58	45.995		
15,000.00	7,870.00	7,913.63	7,788.00	106.63	32.56	-90.00	1,712.65	4,944.73	5,783.24	5,659.57	123.67	46.763		
15,100.00	7,870.00	7,913.63	7,788.00	107.80	32.56	-90.00	1,712.65	4,944.73	5,882.45	5,758.69	123.76	47.532		
15,200.00	7,870.00	7,913.63	7,788.00	109.00	32.56	-90.00	1,712.65	4,944.73	5,981.68	5,857.84	123.84	48.301		
15,300.00	7,870.00	7,913.63	7,788.00	110.22	32.56	-90.00	1,712.65	4,944.73	6,080.94	5,957.01	123.93	49.069		
15,400.00	7,870.00	7,913.63	7,788.00	111.47	32.56	-90.00	1,712.65	4,944.73	6,180.22	6,056.22	124.01	49.838		
15,500.00	7,870.00	7,913.63	7,788.00	112.74	32.56	-90.00	1,712.65	4,944.73	6,279.53	6,155.44	124.08	50.607		
15,600.00	7,870.00	7,913.63	7,788.00	114.03	32.56	-90.00	1,712.65	4,944.73	6,378.85	6,254.69	124.16	51.376		
15,700.00	7,870.00	7,913.63	7,788.00	115.34	32.56	-90.00	1,712.65	4,944.73	6,478.20	6,353.97	124.23	52.145		
15,800.00	7,870.00	7,913.63	7,788.00	116.68	32.56	-90.00	1,712.65	4,944.73	6,577.57	6,453.26	124.31	52.914		
15,900.00	7,870.00	7,913.63	7,788.00	118.02	32.56	-90.00	1,712.65	4,944.73	6,676.95	6,552.57	124.38	53.683		
16,000.00	7,870.00	7,913.63	7,788.00	119.39	32.56	-90.00	1,712.65	4,944.73	6,776.35	6,651.91	124.45	54.452		
16,100.00	7,870.00	7,913.63	7,788.00	120.77	32.56	-90.00	1,712.65	4,944.73	6,875.78	6,751.26	124.51	55.221		
16,200.00	7,870.00	7,913.63	7,788.00	122.17	32.56	-90.00	1,712.65	4,944.73	6,975.21	6,850.63	124.58	55.990		
16,300.00	7,870.00	7,913.63	7,788.00	123.58	32.56	-90.00	1,712.65	4,944.73	7,074.67	6,950.02	124.64	56.759		
16,400.00	7,870.00	7,913.63	7,788.00	125.00	32.56	-90.00	1,712.65	4,944.73	7,174.14	7,049.43	124.71	57.527		
16,500.00	7,870.00	7,913.63	7,788.00	126.43	32.56	-90.00	1,712.65	4,944.73	7,273.62	7,148.85	124.77	58.296		
16,600.00	7,870.00	7,913.63	7,788.00	127.88	32.56	-90.00	1,712.65	4,944.73	7,373.12	7,248.28	124.83	59.064		
16,700.00	7,870.00	7,913.63	7,788.00	129.34	32.56	-90.00	1,712.65	4,944.73	7,472.63	7,347.73	124.89	59.833		
16,800.00	7,870.00	7,913.63	7,788.00	130.81	32.56	-90.00	1,712.65	4,944.73	7,572.15	7,447.20	124.95	60.601		
16,900.00	7,870.00	7,913.63	7,788.00	132.28	32.56	-90.00	1,712.65	4,944.73	7,671.69	7,546.68	125.01	61.369		
17,000.00	7,870.00	7,913.63	7,788.00	133.77	32.56	-90.00	1,712.65	4,944.73	7,771.23	7,646.17	125.07	62.137		
17,100.00	7,870.00	7,913.63	7,788.00	135.27	32.56	-90.00	1,712.65	4,944.73	7,870.79	7,745.67	125.12	62.904		
17,200.00	7,870.00	7,913.63	7,788.00	136.77	32.56	-90.00	1,712.65	4,944.73	7,970.36	7,845.18	125.18	63.672		
17,300.00	7,870.00	7,913.63	7,788.00	138.28	32.56	-90.00	1,712.65	4,944.73	8,069.94	7,944.71	125.23	64.439		
17,400.00	7,870.00	7,913.63	7,788.00	139.80	32.56	-90.00	1,712.65	4,944.73	8,169.53	8,044.25	125.29	65.206		
17,500.00	7,870.00	7,913.63	7,788.00	141.33	32.56	-90.00	1,712.65	4,944.73	8,269.14	8,143.79	125.34	65.973		
17,600.00	7,870.00	7,913.63	7,788.00	142.86	32.56	-90.00	1,712.65	4,944.73	8,368.75	8,243.35	125.39	66.740		
17,700.00	7,870.00	7,913.63	7,788.00	144.40	32.56	-90.00	1,712.65	4,944.73	8,468.37	8,342.92	125.45	67.506		
17,800.00	7,870.00	7,913.63	7,788.00	145.95	32.56	-90.00	1,712.65	4,944.73	8,567.99	8,442.50	125.50	68.272		
17,900.00	7,870.00	7,913.63	7,788.00	147.50	32.56	-90.00	1,712.65	4,944.73	8,667.63	8,542.08	125.55	69.038		
18,000.00	7,870.00	7,913.63	7,788.00	149.06	32.56	-90.00	1,712.65	4,944.73	8,767.28	8,641.68	125.60	69.804		
18,100.00	7,870.00	7,913.63	7,788.00	150.63	32.56	-90.00	1,712.65	4,944.73	8,866.93	8,741.28	125.65	70.569		
18,200.00	7,870.00	7,913.63	7,788.00	152.20	32.56	-90.00	1,712.65	4,944.73	8,966.59	8,840.89	125.70	71.334		
18,300.00	7,870.00	7,913.63	7,788.00	153.77	32.56	-90.00	1,712.65	4,944.73	9,066.26	8,940.51	125.75	72.099		
18,400.00	7,870.00	7,913.63	7,788.00	155.35	32.56	-90.00	1,712.65	4,944.73	9,165.94	9,040.14	125.80	72.864		
18,500.00	7,870.00	7,913.63	7,788.00	156.93	32.56	-90.00	1,712.65	4,944.73	9,265.62	9,139.77	125.84	73.628		
18,600.00	7,870.00	7,913.63	7,788.00	158.52	32.56	-90.00	1,712.65	4,944.73	9,365.31	9,239.42	125.89	74.392		
18,700.00	7,870.00	7,913.63	7,788.00	160.11	32.56	-90.00	1,712.65	4,944.73	9,465.00	9,339.06	125.94	75.155		
18,800.00	7,870.00	7,913.63	7,788.00	161.71	32.56	-90.00	1,712.65	4,944.73	9,564.71	9,438.72	125.99	75.918		
18,900.00	7,870.00	7,913.63	7,788.00	163.31	32.56	-90.00	1,712.65	4,944.73	9,664.41	9,538.38	126.03	76.681		
19,000.00	7,870.00	7,913.63	7,788.00	164.91	32.56	-90.00	1,712.65	4,944.73	9,764.13	9,638.05	126.08	77.444		
19,100.00	7,870.00	7,913.63	7,788.00	166.52	32.56	-90.00	1,712.65	4,944.73	9,863.85	9,737.72	126.13	78.206		
19,200.00	7,870.00	7,913.63	7,788.00	168.13	32.56	-90.00	1,712.65	4,944.73	9,963.58	9,837.40	126.17	78.968		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	81.84	776.53	5,417.88	5,473.86					
100.00	100.00	0.00	0.00	0.13	0.00	81.84	776.53	5,417.88	5,473.28	5,473.14	0.13	N/A		
200.00	200.00	66.54	66.53	0.49	0.11	81.84	776.85	5,418.15	5,473.80	5,473.20	0.60	9,089.331		
300.00	300.00	138.00	137.98	0.85	0.23	81.83	777.91	5,419.04	5,475.18	5,474.10	1.08	5,084.464		
400.00	400.00	138.00	137.98	1.21	0.23	81.83	777.91	5,419.04	5,477.55	5,476.11	1.44	3,808.309		
500.00	500.00	199.52	199.46	1.57	0.46	81.82	779.67	5,420.63	5,480.78	5,478.76	2.02	2,715.655		
600.00	600.00	229.00	228.89	1.93	0.56	81.80	780.88	5,421.79	5,485.36	5,482.88	2.48	2,208.393		
700.00	699.98	265.92	265.72	2.28	0.70	17.95	782.59	5,423.67	5,489.49	5,486.52	2.97	1,847.945		
800.00	799.84	320.00	319.61	2.64	0.90	17.92	785.27	5,427.36	5,491.70	5,488.18	3.52	1,562.050		
900.00	899.45	320.00	319.61	3.00	0.90	17.92	785.27	5,427.36	5,491.56	5,487.70	3.87	1,420.130		
1,000.00	998.70	371.43	370.77	3.37	1.10	17.93	788.09	5,431.76	5,489.33	5,484.91	4.41	1,244.310		
1,100.00	1,097.47	411.00	410.08	3.76	1.26	17.96	790.49	5,435.60	5,484.89	5,479.98	4.91	1,116.013		
1,200.00	1,195.62	450.25	449.01	4.18	1.42	18.00	793.18	5,439.80	5,478.24	5,472.82	5.43	1,009.613		
1,300.00	1,293.06	503.00	501.22	4.63	1.63	18.06	797.47	5,446.04	5,469.44	5,463.44	5.99	912.433		
1,400.00	1,389.64	528.48	526.38	5.11	1.75	18.14	799.85	5,449.29	5,458.34	5,451.87	6.47	843.594		
1,500.00	1,485.27	568.00	565.32	5.63	1.92	18.22	804.00	5,454.61	5,445.08	5,438.07	7.01	776.752		
1,600.00	1,579.82	594.00	590.87	6.20	2.03	18.32	807.04	5,458.30	5,429.66	5,422.15	7.51	723.338		
1,700.00	1,673.17	661.17	656.68	6.83	2.35	18.44	816.04	5,468.30	5,411.79	5,403.60	8.19	660.874		
1,800.00	1,765.21	708.13	702.49	7.51	2.58	18.56	823.28	5,475.63	5,391.61	5,382.80	8.80	612.336		
1,900.00	1,855.84	752.26	745.41	8.24	2.80	18.61	830.60	5,482.87	5,369.15	5,359.73	9.43	569.536		
2,000.00	1,944.94	811.32	802.63	9.05	3.10	18.87	841.09	5,493.02	5,344.39	5,334.25	10.14	527.249		
2,100.00	2,032.39	899.30	887.57	9.91	3.57	19.05	858.27	5,508.21	5,316.84	5,305.85	10.99	483.646		
2,200.00	2,118.11	995.78	980.40	10.85	4.10	19.24	878.93	5,524.44	5,286.02	5,274.10	11.93	443.208		
2,300.00	2,201.97	1,070.00	1,051.57	11.85	4.52	19.46	895.82	5,537.01	5,252.41	5,239.63	12.78	410.982		
2,400.00	2,283.88	1,271.78	1,245.01	12.93	5.68	19.70	943.05	5,569.59	5,215.36	5,201.09	14.27	365.436		
2,429.47	2,307.63	1,294.94	1,267.31	13.26	5.81	19.78	948.28	5,573.08	5,203.45	5,188.91	14.54	357.855		
2,500.00	2,364.26	1,349.58	1,319.88	14.06	6.11	19.79	960.62	5,581.37	5,174.71	5,159.53	15.18	340.961		
2,600.00	2,444.56	1,423.94	1,391.33	15.22	6.54	19.78	977.74	5,592.79	5,134.20	5,118.13	16.08	319.372		
2,700.00	2,524.85	1,488.84	1,453.56	16.39	6.91	19.78	993.16	5,602.95	5,094.08	5,077.13	16.95	300.585		
2,800.00	2,605.14	1,549.89	1,511.93	17.57	7.27	19.77	1,008.13	5,612.75	5,054.46	5,036.65	17.81	283.757		
2,900.00	2,685.43	1,618.00	1,576.91	18.76	7.68	19.75	1,025.03	5,624.14	5,015.48	4,996.76	18.72	267.865		
3,000.00	2,765.73	1,695.09	1,650.48	19.96	8.15	19.74	1,043.88	5,637.39	4,976.87	4,957.18	19.68	252.828		
3,100.00	2,846.02	1,845.83	1,795.19	21.16	9.03	19.75	1,077.36	5,662.99	4,937.73	4,916.76	20.97	235.447		
3,200.00	2,926.31	2,026.73	1,970.51	22.37	10.01	19.85	1,111.17	5,691.99	4,897.08	4,874.74	22.34	219.218		
3,300.00	3,006.60	2,103.14	2,045.02	23.59	10.40	19.93	1,122.99	5,704.08	4,855.83	4,832.57	23.26	208.751		
3,400.00	3,086.90	2,167.12	2,107.44	24.81	10.73	20.00	1,132.34	5,714.59	4,815.02	4,790.88	24.14	199.476		
3,500.00	3,167.19	2,207.96	2,147.23	26.03	10.94	20.04	1,138.29	5,721.58	4,774.91	4,749.97	24.94	191.468		
3,600.00	3,247.48	2,243.84	2,182.09	27.25	11.13	20.08	1,143.71	5,728.14	4,735.87	4,710.14	25.73	184.077		
3,700.00	3,327.77	2,272.00	2,209.37	28.48	11.28	20.11	1,148.10	5,733.55	4,697.95	4,671.45	26.49	177.320		
3,800.00	3,408.07	2,329.31	2,264.75	29.71	11.60	20.17	1,157.27	5,745.12	4,660.95	4,633.57	27.38	170.204		
3,900.00	3,488.36	2,386.20	2,319.55	30.94	11.92	20.23	1,166.62	5,757.20	4,624.88	4,596.60	28.28	163.536		
4,000.00	3,568.65	2,472.40	2,402.45	32.17	12.42	20.31	1,181.34	5,775.67	4,589.14	4,559.84	29.30	156.622		
4,100.00	3,648.95	2,541.53	2,468.87	33.41	12.82	20.37	1,193.21	5,790.72	4,553.76	4,523.50	30.26	150.486		
4,200.00	3,729.24	2,752.53	2,671.94	34.64	14.04	20.57	1,229.22	5,835.22	4,518.09	4,486.32	31.77	142.219		
4,300.00	3,809.53	2,831.07	2,747.77	35.88	14.48	20.64	1,242.70	5,850.65	4,480.70	4,447.93	32.77	136.726		
4,400.00	3,889.82	2,941.73	2,854.46	37.12	15.11	20.74	1,262.56	5,872.29	4,443.38	4,409.48	33.90	131.078		
4,500.00	3,970.12	2,997.35	2,907.93	38.36	15.44	20.77	1,273.34	5,883.12	4,406.16	4,371.33	34.83	126.493		
4,600.00	4,050.41	3,124.60	3,030.01	39.60	16.19	20.84	1,299.35	5,907.89	4,369.14	4,333.11	36.04	121.235		
4,700.00	4,130.70	3,188.41	3,091.30	40.84	16.57	20.88	1,312.09	5,920.23	4,331.90	4,294.89	37.01	117.036		
4,800.00	4,210.99	3,285.72	3,184.83	42.08	17.14	20.94	1,330.78	5,939.54	4,295.02	4,256.91	38.11	112.699		
4,900.00	4,291.29	3,356.62	3,253.03	43.32	17.55	21.00	1,344.06	5,953.66	4,258.17	4,219.06	39.12	108.853		
5,000.00	4,371.58	3,434.80	3,328.05	44.57	18.01	21.06	1,359.14	5,969.66	4,221.89	4,181.73	40.16	105.135		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,100.00	4,451.87	3,533.42	3,422.61	45.81	18.60	21.12	1,378.67	5,989.75	4,185.61	4,144.33	41.27	101.413		
5,200.00	4,532.16	3,626.37	3,511.66	47.05	19.16	21.18	1,397.57	6,008.54	4,149.26	4,106.89	42.37	97.926		
5,300.00	4,612.46	3,785.05	3,664.08	48.30	20.09	21.29	1,428.75	6,039.76	4,112.38	4,068.70	43.68	94.139		
5,400.00	4,692.75	3,841.44	3,718.36	49.54	20.42	21.34	1,439.48	6,050.64	4,074.99	4,030.33	44.67	91.232		
5,500.00	4,773.04	3,914.62	3,788.65	50.79	20.85	21.40	1,453.57	6,065.30	4,038.32	3,992.61	45.71	88.350		
5,600.00	4,853.34	4,002.44	3,872.94	52.03	21.37	21.47	1,470.65	6,083.08	4,001.89	3,955.09	46.80	85.513		
5,700.00	4,933.63	4,156.11	4,020.89	53.28	22.26	21.62	1,498.71	6,113.72	3,965.18	3,917.09	48.09	82.457		
5,800.00	5,013.92	4,207.14	4,070.06	54.53	22.56	21.67	1,507.97	6,123.73	3,927.95	3,878.87	49.08	80.036		
5,900.00	5,094.21	4,357.99	4,215.26	55.77	23.43	21.80	1,536.63	6,152.90	3,890.75	3,840.40	50.35	77.272		
6,000.00	5,174.51	4,432.23	4,286.70	57.02	23.86	21.86	1,551.36	6,166.66	3,852.79	3,801.38	51.42	74.934		
6,100.00	5,254.80	4,536.99	4,387.54	58.27	24.47	21.94	1,572.08	6,186.09	3,814.84	3,762.27	52.57	72.573		
6,200.00	5,335.09	4,624.79	4,471.92	59.52	24.98	22.01	1,590.10	6,202.32	3,776.93	3,723.26	53.67	70.370		
6,300.00	5,415.38	4,852.99	4,692.17	60.76	26.26	22.17	1,636.19	6,240.15	3,737.02	3,681.94	55.07	67.853		
6,400.00	5,495.68	4,956.85	4,792.89	62.01	26.82	22.26	1,656.43	6,255.39	3,695.45	3,639.25	56.20	65.760		
6,500.00	5,575.97	5,210.90	5,040.67	63.26	28.10	22.56	1,701.69	6,288.16	3,652.50	3,595.02	57.49	63.535		
6,600.00	5,656.26	5,300.67	5,129.16	64.51	28.50	22.75	1,713.06	6,298.04	3,606.91	3,548.33	58.57	61.578		
6,700.00	5,736.55	5,394.85	5,222.24	65.76	28.90	22.99	1,722.76	6,308.69	3,561.37	3,501.70	59.67	59.680		
6,800.00	5,816.85	5,959.26	5,784.79	67.01	30.62	25.20	1,746.52	6,333.02	3,506.13	3,445.60	60.53	57.928		
6,900.00	5,897.14	6,050.70	5,876.21	68.26	30.82	25.66	1,746.90	6,331.51	3,449.07	3,387.50	61.57	56.020		
7,000.00	5,977.43	6,137.51	5,963.01	69.50	31.01	26.11	1,747.30	6,329.81	3,391.89	3,329.25	62.64	54.152		
7,100.00	6,057.72	6,216.80	6,042.28	70.75	31.19	26.53	1,747.65	6,328.19	3,334.78	3,271.04	63.74	52.319		
7,200.00	6,138.02	6,292.67	6,118.14	72.00	31.36	26.96	1,747.88	6,326.69	3,277.85	3,212.97	64.87	50.527		
7,300.00	6,218.31	6,380.38	6,205.83	73.25	31.55	27.47	1,747.73	6,324.93	3,221.01	3,155.01	66.01	48.798		
7,400.00	6,298.60	6,453.89	6,279.32	74.50	31.71	27.92	1,747.14	6,323.42	3,164.27	3,097.07	67.20	47.087		
7,500.00	6,378.90	6,519.76	6,345.18	75.75	31.86	28.34	1,746.55	6,322.25	3,107.94	3,039.49	68.44	45.410		
7,600.00	6,459.19	6,582.93	6,408.35	77.00	32.00	28.75	1,746.45	6,321.46	3,052.20	2,982.49	69.71	43.782		
7,700.00	6,539.48	6,665.15	6,490.56	78.25	32.20	29.28	1,746.72	6,320.57	2,996.82	2,925.85	70.97	42.226		
7,800.00	6,619.77	6,736.59	6,561.99	79.50	32.38	29.76	1,747.06	6,319.86	2,941.70	2,869.42	72.29	40.695		
7,900.00	6,700.07	6,808.07	6,633.47	80.75	32.55	30.25	1,747.39	6,319.37	2,887.03	2,813.40	73.63	39.208		
8,000.00	6,780.36	6,880.76	6,706.16	82.00	32.73	30.77	1,747.51	6,319.08	2,832.80	2,757.78	75.02	37.763		
8,100.00	6,860.65	6,954.54	6,779.93	83.25	32.91	31.33	1,747.37	6,318.96	2,778.99	2,702.56	76.43	36.358		
8,200.00	6,940.94	7,031.59	6,856.99	84.50	33.09	31.93	1,746.99	6,318.97	2,725.57	2,647.68	77.88	34.995		
8,300.00	7,021.24	7,109.38	6,934.77	85.76	33.28	32.56	1,746.36	6,319.05	2,672.50	2,593.12	79.38	33.668		
8,400.00	7,101.53	7,186.22	7,011.61	87.01	33.46	33.22	1,745.44	6,319.21	2,619.80	2,538.88	80.92	32.375		
8,500.00	7,181.82	7,266.33	7,091.71	88.26	33.66	33.93	1,744.39	6,319.46	2,567.51	2,485.01	82.50	31.120		
8,605.60	7,266.61	7,355.67	7,181.05	89.58	33.87	34.75	1,743.38	6,319.59	2,512.52	2,428.31	84.21	29.835		
8,650.00	7,302.60	7,391.67	7,217.04	90.13	33.96	26.54	1,742.95	6,319.62	2,489.17	2,404.28	84.89	29.322		
8,700.00	7,343.78	7,432.10	7,257.47	90.72	34.06	16.56	1,742.40	6,319.65	2,462.29	2,376.78	85.51	28.795		
8,750.00	7,385.32	7,471.06	7,296.42	91.28	34.15	6.02	1,741.79	6,319.70	2,434.97	2,349.00	85.97	28.324		
8,800.00	7,426.92	7,510.18	7,335.54	91.81	34.25	-4.74	1,741.10	6,319.79	2,407.41	2,321.15	86.25	27.911		
8,850.00	7,468.27	7,548.50	7,373.85	92.29	34.34	-15.38	1,740.37	6,319.92	2,379.81	2,293.45	86.36	27.557		
8,900.00	7,509.04	7,586.32	7,411.66	92.72	34.43	-25.59	1,739.67	6,320.10	2,352.41	2,266.13	86.28	27.265		
8,950.00	7,548.93	7,623.96	7,449.30	93.10	34.53	-35.16	1,738.99	6,320.33	2,325.46	2,239.45	86.01	27.036		
9,000.00	7,587.63	7,661.30	7,486.64	93.43	34.62	-43.97	1,738.33	6,320.59	2,299.21	2,213.65	85.56	26.873		
9,050.00	7,624.85	7,697.32	7,522.64	93.71	34.71	-51.94	1,737.70	6,320.88	2,273.95	2,189.02	84.93	26.774		
9,100.00	7,660.30	7,728.05	7,553.37	93.93	34.79	-59.00	1,737.17	6,321.16	2,250.01	2,165.86	84.15	26.738 SF		
9,150.00	7,693.72	7,756.60	7,581.91	94.10	34.86	-65.21	1,736.70	6,321.50	2,227.73	2,144.51	83.22	26.769		
9,200.00	7,724.85	7,783.33	7,608.63	94.23	34.93	-70.62	1,736.27	6,321.89	2,207.42	2,125.26	82.16	26.867		
9,250.00	7,753.45	7,810.82	7,636.12	94.30	35.00	-75.32	1,735.84	6,322.33	2,189.36	2,108.38	80.98	27.036		
9,300.00	7,779.31	7,838.57	7,663.86	94.34	35.07	-79.36	1,735.37	6,322.79	2,173.79	2,094.08	79.71	27.272		
9,350.00	7,802.23	7,863.41	7,688.70	94.33	35.13	-82.72	1,734.90	6,323.18	2,160.98	2,082.60	78.39	27.568		
9,400.00	7,822.03	7,885.15	7,710.43	94.28	35.19	-85.41	1,734.46	6,323.52	2,151.19	2,074.13	77.06	27.917		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,902.51	7,727.79	94.20	35.23	-87.43	1,734.09	6,323.79	2,144.61	2,068.86	75.75	28.310		
9,500.00	7,851.72	7,916.28	7,741.55	94.10	35.27	-88.84	1,733.81	6,324.00	2,141.43	2,066.91	74.51	28.739 ES		
9,520.57	7,856.12	7,920.96	7,746.22	94.04	35.28	-89.24	1,733.72	6,324.07	2,141.13	2,067.10	74.03	28.922 CC		
9,550.00	7,861.37	7,926.63	7,751.90	93.96	35.30	-89.64	1,733.60	6,324.16	2,141.74	2,068.37	73.37	29.192		
9,600.00	7,867.46	7,933.50	7,758.76	93.81	35.31	-89.84	1,733.47	6,324.27	2,145.60	2,073.26	72.35	29.657		
9,650.00	7,869.94	7,936.85	7,762.11	93.64	35.32	-89.44	1,733.40	6,324.33	2,153.00	2,081.52	71.47	30.123		
9,659.14	7,870.00	7,937.08	7,762.34	93.60	35.32	-89.30	1,733.40	6,324.33	2,154.73	2,083.39	71.33	30.207		
9,700.00	7,870.00	7,937.84	7,763.10	93.46	35.33	-89.32	1,733.38	6,324.34	2,163.08	2,092.32	70.76	30.569		
9,800.00	7,870.00	7,939.70	7,764.96	93.11	35.33	-89.38	1,733.34	6,324.37	2,186.62	2,116.78	69.84	31.308		
9,900.00	7,870.00	7,941.55	7,766.81	92.77	35.34	-89.43	1,733.31	6,324.40	2,214.42	2,144.83	69.59	31.820		
10,000.00	7,870.00	7,943.39	7,768.65	92.46	35.34	-89.48	1,733.27	6,324.43	2,246.34	2,176.38	69.96	32.107		
10,100.00	7,870.00	7,945.22	7,770.48	92.16	35.34	-89.52	1,733.24	6,324.46	2,282.19	2,211.31	70.88	32.199		
10,200.00	7,870.00	7,947.03	7,772.29	91.87	35.35	-89.57	1,733.20	6,324.49	2,321.80	2,249.56	72.23	32.143		
10,300.00	7,870.00	7,948.83	7,774.09	91.60	35.35	-89.62	1,733.17	6,324.52	2,364.97	2,291.04	73.93	31.988		
10,400.00	7,870.00	7,950.63	7,775.88	91.34	35.36	-89.67	1,733.13	6,324.55	2,411.52	2,335.64	75.88	31.781		
10,500.00	7,870.00	7,952.40	7,777.66	91.11	35.36	-89.72	1,733.10	6,324.58	2,461.25	2,383.26	77.99	31.557		
10,600.00	7,870.00	7,954.17	7,779.43	90.88	35.37	-89.77	1,733.07	6,324.61	2,513.98	2,433.77	80.21	31.343		
10,700.00	7,870.00	7,955.93	7,781.18	90.67	35.37	-89.82	1,733.03	6,324.63	2,569.52	2,487.04	82.47	31.156		
10,800.00	7,870.00	7,957.68	7,782.93	90.48	35.38	-89.86	1,733.00	6,324.66	2,627.68	2,542.94	84.75	31.006		
10,900.00	7,870.00	7,959.41	7,784.66	90.31	35.38	-89.91	1,732.97	6,324.69	2,688.31	2,601.31	87.00	30.900		
11,000.00	7,870.00	7,961.13	7,786.39	90.15	35.39	-89.96	1,732.94	6,324.72	2,751.24	2,662.03	89.21	30.839		
11,100.00	7,870.00	7,962.85	7,788.10	90.00	35.39	-90.00	1,732.90	6,324.75	2,816.31	2,724.94	91.37	30.824		
11,200.00	7,870.00	7,964.55	7,789.80	89.88	35.39	-90.05	1,732.87	6,324.77	2,883.38	2,789.93	93.46	30.853		
11,300.00	7,870.00	7,966.24	7,791.49	89.77	35.40	-90.09	1,732.84	6,324.80	2,952.32	2,856.85	95.47	30.925		
11,400.00	7,870.00	7,967.92	7,793.17	89.68	35.40	-90.14	1,732.81	6,324.83	3,022.99	2,925.59	97.40	31.036		
11,500.00	7,870.00	7,969.59	7,794.84	89.60	35.41	-90.19	1,732.78	6,324.86	3,095.27	2,996.02	99.26	31.185		
11,600.00	7,870.00	7,971.25	7,796.50	89.55	35.41	-90.23	1,732.75	6,324.88	3,169.07	3,068.04	101.03	31.368		
11,700.00	7,870.00	7,972.90	7,798.15	89.52	35.42	-90.28	1,732.72	6,324.91	3,244.26	3,141.54	102.72	31.583		
11,800.00	7,870.00	7,974.54	7,799.79	89.50	35.42	-90.32	1,732.69	6,324.94	3,320.77	3,216.43	104.34	31.827		
11,900.00	7,870.00	7,976.17	7,801.42	89.51	35.42	-90.36	1,732.66	6,324.96	3,398.49	3,292.61	105.88	32.099		
12,000.00	7,870.00	7,977.79	7,803.04	89.54	35.43	-90.41	1,732.63	6,324.99	3,477.35	3,370.01	107.34	32.395		
12,100.00	7,870.00	7,979.40	7,804.65	89.59	35.43	-90.45	1,732.60	6,325.02	3,557.27	3,448.54	108.74	32.714		
12,200.00	7,870.00	7,981.00	7,806.25	89.66	35.44	-90.49	1,732.57	6,325.04	3,638.19	3,528.12	110.07	33.054		
12,300.00	7,870.00	7,982.59	7,807.84	89.77	35.44	-90.54	1,732.54	6,325.07	3,720.03	3,608.70	111.33	33.414		
12,400.00	7,870.00	7,984.31	7,809.56	89.89	35.45	-90.58	1,732.51	6,325.10	3,802.74	3,690.21	112.54	33.791		
12,500.00	7,870.00	7,986.09	7,811.34	90.05	35.45	-90.63	1,732.48	6,325.13	3,886.27	3,772.58	113.68	34.185		
12,600.00	7,870.00	7,987.88	7,813.13	90.24	35.46	-90.68	1,732.45	6,325.16	3,970.55	3,855.77	114.78	34.594		
12,700.00	7,870.00	7,989.68	7,814.93	90.46	35.46	-90.73	1,732.41	6,325.19	4,055.55	3,939.73	115.82	35.016		
12,800.00	7,870.00	7,991.49	7,816.74	90.71	35.46	-90.78	1,732.38	6,325.22	4,141.21	4,024.40	116.81	35.452		
12,900.00	7,870.00	7,993.32	7,818.56	90.99	35.47	-90.83	1,732.35	6,325.25	4,227.51	4,109.75	117.76	35.900		
13,000.00	7,870.00	7,995.15	7,820.39	91.32	35.47	-90.88	1,732.31	6,325.28	4,314.39	4,195.73	118.66	36.359		
13,100.00	7,870.00	7,996.99	7,822.23	91.68	35.48	-90.93	1,732.28	6,325.31	4,401.84	4,282.31	119.52	36.828		
13,200.00	7,870.00	7,998.85	7,824.09	92.08	35.48	-90.98	1,732.25	6,325.35	4,489.80	4,369.45	120.35	37.307		
13,300.00	7,870.00	8,000.71	7,825.95	92.52	35.49	-91.03	1,732.21	6,325.38	4,578.26	4,457.13	121.14	37.795		
13,400.00	7,870.00	8,002.59	7,827.83	93.00	35.49	-91.08	1,732.18	6,325.41	4,667.19	4,545.30	121.89	38.291		
13,500.00	7,870.00	8,004.48	7,829.72	93.53	35.50	-91.13	1,732.14	6,325.44	4,756.55	4,633.94	122.61	38.794		
13,600.00	7,870.00	8,006.38	7,831.62	94.10	35.50	-91.18	1,732.11	6,325.48	4,846.33	4,723.03	123.30	39.305		
13,700.00	7,870.00	8,008.29	7,833.53	94.72	35.51	-91.23	1,732.07	6,325.51	4,936.50	4,812.54	123.96	39.823		
13,800.00	7,870.00	8,010.22	7,835.45	95.38	35.51	-91.29	1,732.03	6,325.55	5,027.04	4,902.45	124.59	40.347		
13,900.00	7,870.00	8,012.15	7,837.39	96.09	35.52	-91.34	1,732.00	6,325.58	5,117.93	4,992.73	125.20	40.877		
14,000.00	7,870.00	8,014.10	7,839.33	96.84	35.52	-91.39	1,731.96	6,325.62	5,209.16	5,083.37	125.79	41.413		
14,100.00	7,870.00	8,016.06	7,841.29	97.64	35.53	-91.44	1,731.92	6,325.65	5,300.70	5,174.36	126.35	41.953		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,200.00	7,870.00	8,018.03	7,843.26	98.48	35.53	-91.50	1,731.89	6,325.69	5,392.55	5,265.66	126.89	42.499		
14,300.00	7,870.00	8,020.01	7,845.24	99.37	35.54	-91.55	1,731.85	6,325.72	5,484.67	5,357.27	127.41	43.049		
14,400.00	7,870.00	8,022.01	7,847.24	100.30	35.54	-91.60	1,731.81	6,325.76	5,577.07	5,449.17	127.90	43.604		
14,500.00	7,870.00	8,024.01	7,849.25	101.26	35.55	-91.66	1,731.77	6,325.80	5,669.72	5,541.34	128.38	44.162		
14,600.00	7,870.00	8,026.03	7,851.27	102.27	35.56	-91.71	1,731.73	6,325.84	5,762.62	5,633.78	128.85	44.725		
14,700.00	7,870.00	8,028.07	7,853.30	103.31	35.56	-91.77	1,731.69	6,325.87	5,855.76	5,726.46	129.29	45.291		
14,800.00	7,870.00	8,030.11	7,855.34	104.38	35.57	-91.82	1,731.65	6,325.91	5,949.11	5,819.39	129.72	45.860		
14,900.00	7,870.00	8,032.17	7,857.40	105.49	35.57	-91.88	1,731.61	6,325.95	6,042.68	5,912.54	130.14	46.433		
15,000.00	7,870.00	8,034.25	7,859.47	106.63	35.58	-91.94	1,731.57	6,325.99	6,136.45	6,005.91	130.54	47.008		
15,100.00	7,870.00	8,036.33	7,861.56	107.80	35.58	-91.99	1,731.53	6,326.03	6,230.41	6,099.48	130.93	47.587		
15,200.00	7,870.00	8,038.43	7,863.66	109.00	35.59	-92.05	1,731.49	6,326.07	6,324.56	6,193.26	131.30	48.168		
15,300.00	7,870.00	8,040.54	7,865.77	110.22	35.59	-92.11	1,731.45	6,326.11	6,418.88	6,287.22	131.66	48.752		
15,400.00	7,870.00	8,042.67	7,867.89	111.47	35.60	-92.16	1,731.41	6,326.15	6,513.37	6,381.36	132.01	49.338		
15,500.00	7,870.00	8,044.81	7,870.03	112.74	35.60	-92.22	1,731.37	6,326.19	6,608.03	6,475.67	132.35	49.927		
15,600.00	7,870.00	8,046.96	7,872.18	114.03	35.61	-92.28	1,731.32	6,326.24	6,702.83	6,570.15	132.68	50.517		
15,700.00	7,870.00	8,049.13	7,874.35	115.34	35.62	-92.34	1,731.28	6,326.28	6,797.79	6,664.79	133.00	51.110		
15,800.00	7,870.00	8,051.31	7,876.53	116.68	35.62	-92.40	1,731.24	6,326.32	6,892.89	6,759.58	133.31	51.705		
15,900.00	7,870.00	8,053.50	7,878.72	118.02	35.63	-92.46	1,731.19	6,326.37	6,988.12	6,854.51	133.61	52.302		
16,000.00	7,870.00	8,055.71	7,880.93	119.39	35.63	-92.52	1,731.15	6,326.41	7,083.49	6,949.58	133.90	52.900		
16,100.00	7,870.00	8,057.94	7,883.15	120.77	35.64	-92.58	1,731.10	6,326.46	7,178.98	7,044.79	134.19	53.500		
16,200.00	7,870.00	8,060.17	7,885.39	122.17	35.64	-92.64	1,731.06	6,326.50	7,274.59	7,140.13	134.46	54.102		
16,300.00	7,870.00	8,062.43	7,887.65	123.58	35.65	-92.70	1,731.01	6,326.55	7,370.32	7,235.59	134.73	54.705		
16,400.00	7,870.00	8,064.70	7,889.91	125.00	35.66	-92.76	1,730.97	6,326.60	7,466.16	7,331.17	134.99	55.309		
16,500.00	7,870.00	8,066.98	7,892.20	126.43	35.66	-92.82	1,730.92	6,326.64	7,562.10	7,426.86	135.24	55.915		
16,600.00	7,870.00	8,069.28	7,894.49	127.88	35.67	-92.88	1,730.87	6,326.69	7,658.15	7,522.66	135.49	56.522		
16,700.00	7,870.00	8,071.59	7,896.81	129.34	35.67	-92.94	1,730.82	6,326.74	7,754.30	7,618.57	135.73	57.131		
16,800.00	7,870.00	8,073.92	7,899.13	130.81	35.68	-93.01	1,730.78	6,326.79	7,850.54	7,714.58	135.96	57.740		
16,900.00	7,870.00	8,076.27	7,901.48	132.28	35.69	-93.07	1,730.73	6,326.84	7,946.88	7,810.69	136.19	58.351		
17,000.00	7,870.00	8,078.63	7,903.84	133.77	35.69	-93.13	1,730.68	6,326.89	8,043.30	7,906.89	136.41	58.962		
17,100.00	7,870.00	8,081.01	7,906.22	135.27	35.70	-93.20	1,730.63	6,326.94	8,139.81	8,003.18	136.63	59.575		
17,200.00	7,870.00	8,083.40	7,908.61	136.77	35.71	-93.26	1,730.58	6,326.99	8,236.41	8,099.56	136.84	60.189		
17,300.00	7,870.00	8,085.81	7,911.02	138.28	35.71	-93.33	1,730.53	6,327.04	8,333.08	8,196.03	137.05	60.803		
17,400.00	7,870.00	8,088.24	7,913.44	139.80	35.72	-93.39	1,730.48	6,327.10	8,429.83	8,292.58	137.25	61.418		
17,500.00	7,870.00	8,090.68	7,915.88	141.33	35.72	-93.46	1,730.42	6,327.15	8,526.65	8,389.20	137.45	62.035		
17,600.00	7,870.00	8,093.14	7,918.34	142.86	35.73	-93.53	1,730.37	6,327.20	8,623.55	8,485.91	137.64	62.651		
17,700.00	7,870.00	8,076.00	7,901.21	144.40	35.69	-93.06	1,730.73	6,326.83	8,720.53	8,582.72	137.82	63.277		
17,800.00	7,870.00	8,076.00	7,901.21	145.95	35.69	-93.06	1,730.73	6,326.83	8,817.57	8,679.57	138.00	63.896		
17,900.00	7,870.00	8,076.00	7,901.21	147.50	35.69	-93.06	1,730.73	6,326.83	8,914.68	8,776.50	138.18	64.517		
18,000.00	7,870.00	8,089.62	7,914.82	149.06	35.72	-93.43	1,730.46	6,327.11	9,011.82	8,873.46	138.36	65.131		
18,100.00	7,870.00	8,090.76	7,915.96	150.63	35.73	-93.46	1,730.44	6,327.14	9,109.05	8,970.51	138.54	65.752		
18,200.00	7,870.00	8,091.89	7,917.09	152.20	35.73	-93.49	1,730.41	6,327.16	9,206.33	9,067.63	138.70	66.374		
18,300.00	7,870.00	8,093.01	7,918.21	153.77	35.73	-93.52	1,730.39	6,327.18	9,303.68	9,164.80	138.87	66.995		
18,400.00	7,870.00	8,094.11	7,919.32	155.35	35.73	-93.55	1,730.37	6,327.21	9,401.07	9,262.04	139.03	67.618		
18,500.00	7,870.00	8,095.21	7,920.41	156.93	35.74	-93.58	1,730.35	6,327.23	9,498.52	9,359.33	139.19	68.241		
18,600.00	7,870.00	8,096.29	7,921.49	158.52	35.74	-93.61	1,730.33	6,327.25	9,596.03	9,456.68	139.35	68.864		
18,700.00	7,870.00	8,097.36	7,922.56	160.11	35.74	-93.64	1,730.31	6,327.27	9,693.58	9,554.08	139.50	69.488		
18,800.00	7,870.00	8,098.42	7,923.62	161.71	35.75	-93.67	1,730.29	6,327.29	9,791.18	9,651.53	139.65	70.113		
18,900.00	7,870.00	8,099.46	7,924.67	163.31	35.75	-93.70	1,730.27	6,327.31	9,888.83	9,749.04	139.80	70.737		
19,000.00	7,870.00	8,100.50	7,925.70	164.91	35.75	-93.72	1,730.25	6,327.33	9,986.53	9,846.59	139.94	71.362		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	81.93	765.59	5,401.08	5,455.68					
100.00	100.00	38.31	38.31	0.13	0.05	81.93	765.63	5,401.01	5,455.04	5,454.86	0.18	N/A		
200.00	200.00	138.00	138.00	0.49	0.39	81.93	765.78	5,400.44	5,454.50	5,453.62	0.88	6,199.814		
268.18	268.18	187.18	187.18	0.74	0.56	81.93	765.53	5,400.31	5,454.30	5,453.00	1.29	4,212.369		
300.00	300.00	205.33	205.33	0.85	0.62	81.93	765.29	5,400.37	5,454.34	5,452.87	1.47	3,705.617		
400.00	400.00	229.00	228.99	1.21	0.70	81.94	764.86	5,400.53	5,455.16	5,453.25	1.91	2,850.396		
500.00	500.00	274.85	274.81	1.57	0.86	81.95	763.71	5,401.43	5,457.06	5,454.63	2.43	2,243.185		
600.00	600.00	320.00	319.90	1.93	1.02	81.97	762.20	5,403.32	5,460.44	5,457.49	2.95	1,853.005		
700.00	699.98	320.00	319.90	2.28	1.02	18.13	762.20	5,403.32	5,463.34	5,460.04	3.30	1,655.587		
800.00	799.84	369.55	369.30	2.64	1.20	18.16	760.03	5,406.39	5,464.11	5,460.28	3.83	1,427.964		
900.00	899.45	411.00	410.56	3.00	1.36	18.21	757.74	5,409.68	5,462.83	5,458.51	4.33	1,262.735		
1,000.00	998.70	441.87	441.24	3.37	1.47	18.27	755.75	5,412.53	5,459.40	5,454.60	4.80	1,138.297		
1,100.00	1,097.47	502.00	500.85	3.76	1.70	18.39	751.23	5,418.95	5,453.89	5,448.51	5.38	1,013.611		
1,200.00	1,195.62	502.00	500.85	4.18	1.70	18.44	751.23	5,418.95	5,446.06	5,440.32	5.74	948.397		
1,300.00	1,293.06	547.94	546.27	4.63	1.89	18.59	747.47	5,424.69	5,436.16	5,429.87	6.29	864.193		
1,400.00	1,389.64	593.00	590.73	5.11	2.08	18.75	743.87	5,431.10	5,424.32	5,417.48	6.84	792.673		
1,500.00	1,485.27	593.00	590.73	5.63	2.08	18.84	743.87	5,431.10	5,410.44	5,403.21	7.23	748.639		
1,600.00	1,579.82	645.60	642.48	6.20	2.31	19.06	739.64	5,439.52	5,394.36	5,386.52	7.83	688.552		
1,700.00	1,673.17	684.00	680.14	6.83	2.48	19.27	736.48	5,446.28	5,376.34	5,367.94	8.40	640.329		
1,800.00	1,765.21	719.45	714.86	7.51	2.65	19.50	733.73	5,452.89	5,356.22	5,347.26	8.96	597.744		
1,900.00	1,855.84	776.00	770.21	8.24	2.91	19.80	730.22	5,463.95	5,333.97	5,324.34	9.63	554.094		
2,000.00	1,944.94	809.29	802.75	9.05	3.07	20.06	728.42	5,470.74	5,309.43	5,299.21	10.21	519.781		
2,100.00	2,032.39	870.00	861.98	9.91	3.36	20.42	724.94	5,483.60	5,282.66	5,271.73	10.93	483.227		
2,200.00	2,118.11	930.91	921.32	10.85	3.67	20.82	721.49	5,496.86	5,253.44	5,241.76	11.68	449.926		
2,300.00	2,201.97	1,021.84	1,009.95	11.85	4.12	21.34	716.99	5,516.74	5,221.44	5,208.88	12.56	415.831		
2,400.00	2,283.88	1,117.39	1,103.12	12.93	4.60	21.93	712.81	5,537.48	5,186.40	5,172.91	13.48	384.658		
2,429.47	2,307.63	1,144.68	1,129.75	13.26	4.74	22.11	711.69	5,543.39	5,175.50	5,161.74	13.76	376.155		
2,500.00	2,364.26	1,205.31	1,188.87	14.06	5.05	22.33	709.01	5,556.52	5,149.17	5,134.77	14.40	357.597		
2,600.00	2,444.56	1,277.70	1,259.40	15.22	5.43	22.59	705.03	5,572.33	5,112.08	5,096.81	15.27	334.789		
2,700.00	2,524.85	1,339.00	1,319.00	16.39	5.75	22.83	700.91	5,586.07	5,075.58	5,059.46	16.11	314.979		
2,800.00	2,605.14	1,419.49	1,397.15	17.57	6.18	23.14	695.03	5,604.41	5,039.55	5,022.49	17.06	295.398		
2,900.00	2,685.43	1,482.49	1,458.28	18.76	6.53	23.39	690.47	5,618.93	5,003.97	4,986.03	17.95	278.827		
3,000.00	2,765.73	1,542.18	1,516.14	19.96	6.85	23.63	686.33	5,633.02	4,969.08	4,950.25	18.83	263.853		
3,100.00	2,846.02	1,602.00	1,574.03	21.16	7.19	23.87	682.09	5,647.49	4,934.90	4,915.17	19.73	250.072		
3,200.00	2,926.31	1,742.86	1,710.43	22.37	7.97	24.45	672.22	5,681.24	4,900.73	4,879.73	21.00	233.393		
3,300.00	3,006.60	1,828.15	1,793.14	23.59	8.44	24.80	666.57	5,701.24	4,866.27	4,844.24	22.03	220.876		
3,400.00	3,086.90	1,918.63	1,880.91	24.81	8.94	25.17	660.95	5,722.53	4,832.10	4,809.01	23.10	209.200		
3,500.00	3,167.19	2,035.11	1,994.09	26.03	9.58	25.64	654.95	5,749.36	4,797.66	4,773.38	24.28	197.616		
3,600.00	3,247.48	2,124.90	2,081.40	27.25	10.06	26.00	650.79	5,769.90	4,763.29	4,737.93	25.36	187.861		
3,700.00	3,327.77	2,213.01	2,167.07	28.48	10.54	26.37	646.25	5,790.01	4,729.05	4,702.61	26.44	178.847		
3,800.00	3,408.07	2,296.96	2,248.57	29.71	11.00	26.74	640.54	5,809.29	4,695.15	4,667.62	27.53	170.539		
3,900.00	3,488.36	2,410.28	2,358.64	30.94	11.62	27.25	632.60	5,835.04	4,661.26	4,632.50	28.76	162.069		
4,000.00	3,568.65	2,489.89	2,436.03	32.17	12.06	27.61	626.82	5,852.81	4,627.26	4,597.40	29.86	154.963		
4,100.00	3,648.95	2,555.00	2,499.20	33.41	12.41	27.91	622.12	5,867.87	4,594.14	4,563.23	30.91	148.625		
4,200.00	3,729.24	2,634.51	2,576.31	34.64	12.86	28.28	616.86	5,886.55	4,561.60	4,529.57	32.03	142.403		
4,300.00	3,809.53	2,835.00	2,771.74	35.88	13.92	29.20	605.47	5,929.75	4,526.85	4,493.19	33.66	134.488		
4,400.00	3,889.82	2,889.25	2,824.72	37.12	14.21	29.46	602.22	5,940.94	4,492.41	4,457.71	34.70	129.462		
4,500.00	3,970.12	2,928.00	2,862.38	38.36	14.41	29.64	599.40	5,949.60	4,459.51	4,423.82	35.69	124.955		
4,600.00	4,050.41	2,997.27	2,929.61	39.60	14.80	29.98	594.56	5,965.61	4,427.61	4,390.79	36.82	120.246		
4,700.00	4,130.70	3,096.80	3,026.28	40.84	15.34	30.46	589.07	5,988.62	4,395.93	4,357.84	38.09	115.413		
4,800.00	4,210.99	3,189.46	3,116.33	42.08	15.85	30.91	583.93	6,009.84	4,364.30	4,324.96	39.34	110.935		
4,900.00	4,291.29	3,315.37	3,238.80	43.32	16.53	31.53	576.40	6,038.08	4,332.52	4,291.76	40.75	106.316		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,000.00	4,371.58	3,383.33	3,304.95	44.57	16.90	31.87	572.89	6,053.24	4,300.84	4,258.92	41.92	102.584		
5,100.00	4,451.87	3,451.55	3,371.29	45.81	17.27	32.21	569.43	6,068.79	4,269.86	4,226.74	43.11	99.037		
5,200.00	4,532.16	3,525.43	3,443.02	47.05	17.68	32.59	564.80	6,085.88	4,239.55	4,195.20	44.35	95.599		
5,300.00	4,612.46	3,628.85	3,543.33	48.30	18.25	33.15	556.89	6,109.74	4,209.67	4,163.93	45.74	92.037		
5,400.00	4,692.75	3,777.42	3,687.87	49.54	19.06	33.96	546.69	6,142.58	4,179.10	4,131.76	47.34	88.278		
5,500.00	4,773.04	3,901.48	3,808.94	50.79	19.71	34.63	539.54	6,168.66	4,147.71	4,098.88	48.83	84.938		
5,600.00	4,853.34	3,984.20	3,889.75	52.03	20.14	35.07	536.16	6,185.99	4,116.41	4,066.25	50.15	82.074		
5,700.00	4,933.63	4,055.00	3,958.86	53.28	20.50	35.45	532.91	6,201.02	4,085.70	4,034.25	51.45	79.417		
5,800.00	5,013.92	4,126.22	4,028.31	54.53	20.88	35.84	529.23	6,216.38	4,055.67	4,002.91	52.76	76.871		
5,900.00	5,094.21	5,119.41	5,012.16	55.77	24.81	41.75	500.94	6,330.45	4,021.97	3,965.40	56.57	71.101		
6,000.00	5,174.51	5,213.67	5,106.41	57.02	25.04	42.36	501.55	6,330.36	3,973.51	3,915.61	57.89	68.635		
6,100.00	5,254.80	5,296.92	5,189.66	58.27	25.24	42.91	501.97	6,330.13	3,925.23	3,866.00	59.23	66.269		
6,200.00	5,335.09	5,383.46	5,276.20	59.52	25.45	43.49	502.70	6,329.86	3,877.19	3,816.60	60.59	63.988		
6,300.00	5,415.38	5,478.14	5,370.87	60.76	25.68	44.14	503.78	6,329.31	3,829.20	3,767.22	61.98	61.784		
6,400.00	5,495.68	5,559.85	5,452.58	62.01	25.88	44.71	504.74	6,328.69	3,781.41	3,718.03	63.38	59.662		
6,500.00	5,575.97	5,642.18	5,534.89	63.26	26.08	45.30	505.67	6,328.02	3,733.93	3,669.12	64.81	57.615		
6,600.00	5,656.26	5,732.01	5,624.72	64.51	26.30	45.96	506.46	6,327.09	3,686.68	3,620.42	66.26	55.636		
6,700.00	5,736.55	5,824.16	5,716.85	65.76	26.52	46.66	507.07	6,325.81	3,639.57	3,571.82	67.75	53.723		
6,800.00	5,816.85	5,916.88	5,809.56	67.01	26.74	47.39	507.73	6,324.19	3,592.57	3,523.32	69.26	51.874		
6,900.00	5,897.14	6,002.76	5,895.42	68.26	26.94	48.07	508.28	6,322.42	3,545.76	3,474.97	70.79	50.087		
7,000.00	5,977.43	6,079.21	5,971.85	69.50	27.13	48.70	508.75	6,320.79	3,499.34	3,426.98	72.36	48.363		
7,100.00	6,057.72	6,153.29	6,045.91	70.75	27.31	49.32	509.20	6,319.32	3,453.47	3,379.52	73.95	46.700		
7,200.00	6,138.02	6,229.36	6,121.97	72.00	27.50	49.97	509.41	6,317.85	3,408.20	3,332.62	75.58	45.096		
7,300.00	6,218.31	6,308.54	6,201.13	73.25	27.69	50.66	509.43	6,316.24	3,363.40	3,286.17	77.24	43.547		
7,400.00	6,298.60	6,369.44	6,262.03	74.50	27.84	51.21	509.29	6,315.16	3,319.38	3,240.45	78.93	42.056		
7,500.00	6,378.90	6,423.27	6,315.85	75.75	27.99	51.70	509.07	6,314.51	3,276.39	3,195.74	80.65	40.625		
7,600.00	6,459.19	6,472.75	6,365.33	77.00	28.12	52.15	508.88	6,314.40	3,234.69	3,152.29	82.40	39.258		
7,700.00	6,539.48	6,524.26	6,416.84	78.25	28.27	52.63	508.67	6,314.80	3,194.30	3,110.13	84.17	37.950		
7,800.00	6,619.77	6,581.00	6,473.57	79.50	28.44	53.16	508.33	6,315.76	3,155.24	3,069.26	85.98	36.698		
7,900.00	6,700.07	6,702.20	6,594.75	80.75	28.80	54.31	507.60	6,317.27	3,116.47	3,028.60	87.87	35.465		
8,000.00	6,780.36	6,789.40	6,681.95	82.00	29.05	55.17	507.14	6,317.72	3,077.80	2,988.03	89.77	34.286		
8,100.00	6,860.65	6,877.15	6,769.70	83.25	29.30	56.05	506.58	6,317.89	3,039.58	2,947.89	91.69	33.150		
8,200.00	6,940.94	6,957.42	6,849.96	84.50	29.53	56.88	506.02	6,317.92	3,001.98	2,908.35	93.64	32.059		
8,300.00	7,021.24	7,024.40	6,916.94	85.76	29.72	57.58	505.46	6,318.07	2,965.30	2,869.69	95.61	31.015		
8,400.00	7,101.53	7,103.11	6,995.65	87.01	29.95	58.41	504.62	6,318.45	2,929.63	2,832.01	97.62	30.012		
8,500.00	7,181.82	7,184.04	7,076.58	88.26	30.18	59.29	503.80	6,318.76	2,894.67	2,795.01	99.65	29.047		
8,605.60	7,266.61	7,269.52	7,162.05	89.58	30.43	60.24	502.83	6,319.09	2,858.69	2,756.86	101.84	28.071		
8,650.00	7,302.60	7,309.00	7,201.53	90.13	30.55	60.50	502.32	6,319.16	2,842.80	2,740.07	102.72	27.674		
8,700.00	7,343.78	7,352.06	7,244.58	90.72	30.67	60.50	501.73	6,319.15	2,822.69	2,719.07	103.63	27.239		
8,750.00	7,385.32	7,393.79	7,286.30	91.28	30.79	60.50	501.19	6,319.15	2,800.36	2,695.95	104.41	26.821		
8,800.00	7,426.92	7,435.65	7,328.16	91.81	30.92	60.50	500.67	6,319.16	2,775.92	2,670.85	105.07	26.420		
8,850.00	7,468.27	7,477.32	7,369.83	92.29	31.04	60.50	500.19	6,319.19	2,749.50	2,643.90	105.60	26.037		
8,900.00	7,509.04	7,518.56	7,411.07	92.72	31.16	60.50	499.74	6,319.23	2,721.26	2,615.27	105.99	25.674		
8,950.00	7,548.93	7,561.43	7,453.94	93.10	31.28	60.50	499.33	6,319.27	2,691.39	2,585.14	106.24	25.332		
9,000.00	7,587.63	7,603.00	7,495.51	93.43	31.40	60.50	499.00	6,319.30	2,660.07	2,553.72	106.35	25.012		
9,050.00	7,624.85	7,637.46	7,529.97	93.71	31.50	60.50	498.76	6,319.35	2,627.61	2,521.30	106.31	24.717		
9,100.00	7,660.30	7,669.27	7,561.77	93.93	31.60	60.50	498.55	6,319.45	2,594.33	2,488.21	106.12	24.447		
9,150.00	7,693.72	7,709.23	7,591.28	94.10	31.72	60.50	498.36	6,319.59	2,560.54	2,454.72	105.82	24.198		
9,200.00	7,724.85	7,730.23	7,622.74	94.23	31.78	60.50	498.17	6,319.78	2,526.53	2,421.23	105.30	23.994		
9,250.00	7,753.45	7,759.18	7,651.68	94.30	31.87	60.50	497.98	6,319.96	2,492.62	2,387.95	104.67	23.814		
9,300.00	7,779.31	7,785.39	7,677.89	94.34	31.95	60.50	497.82	6,320.11	2,459.17	2,355.27	103.90	23.669		
9,350.00	7,802.23	7,808.12	7,700.62	94.33	32.02	60.50	497.68	6,320.25	2,426.55	2,323.55	102.99	23.560		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,827.27	7,719.77	94.28	32.08	-71.60	497.56	6,320.38	2,395.14	2,293.18	101.96	23.492		
9,450.00	7,838.57	7,843.33	7,735.83	94.20	32.13	-76.56	497.45	6,320.49	2,365.31	2,264.52	100.80	23.466	SF	
9,500.00	7,851.72	7,856.16	7,748.66	94.10	32.17	-80.78	497.37	6,320.58	2,337.43	2,237.90	99.53	23.484		
9,550.00	7,861.37	7,865.68	7,758.17	93.96	32.20	-84.25	497.31	6,320.66	2,311.84	2,213.67	98.17	23.550		
9,600.00	7,867.46	7,871.79	7,764.29	93.81	32.22	-87.02	497.27	6,320.70	2,288.85	2,192.13	96.72	23.664		
9,650.00	7,869.94	7,874.46	7,766.96	93.64	32.22	-89.10	497.26	6,320.73	2,268.75	2,173.54	95.22	23.828		
9,659.14	7,870.00	7,874.57	7,767.07	93.60	32.22	-89.41	497.26	6,320.73	2,265.41	2,170.48	94.93	23.863		
9,700.00	7,870.00	7,874.82	7,767.32	93.46	32.23	-89.41	497.25	6,320.73	2,251.03	2,157.36	93.67	24.031		
9,800.00	7,870.00	7,875.42	7,767.92	93.11	32.23	-89.43	497.25	6,320.73	2,218.63	2,128.06	90.56	24.498		
9,900.00	7,870.00	7,876.02	7,768.52	92.77	32.23	-89.44	497.25	6,320.74	2,190.31	2,102.84	87.47	25.041		
10,000.00	7,870.00	7,876.63	7,769.12	92.46	32.23	-89.46	497.24	6,320.74	2,166.25	2,081.81	84.44	25.655		
10,100.00	7,870.00	7,877.23	7,769.72	92.16	32.23	-89.48	497.24	6,320.75	2,146.57	2,065.03	81.54	26.325		
10,200.00	7,870.00	7,877.83	7,770.33	91.87	32.23	-89.49	497.24	6,320.75	2,131.42	2,052.55	78.86	27.027		
10,300.00	7,870.00	7,878.43	7,770.93	91.60	32.24	-89.51	497.23	6,320.76	2,120.87	2,044.39	76.48	27.730		
10,400.00	7,870.00	7,879.04	7,771.53	91.34	32.24	-89.53	497.23	6,320.76	2,115.00	2,040.50	74.50	28.388		
10,474.24	7,870.00	7,879.48	7,771.98	91.16	32.24	-89.54	497.23	6,320.77	2,113.70	2,040.35	73.35	28.817	CC, ES	
10,500.00	7,870.00	7,879.64	7,772.13	91.11	32.24	-89.54	497.22	6,320.77	2,113.86	2,040.85	73.01	28.953		
10,600.00	7,870.00	7,880.24	7,772.74	90.88	32.24	-89.56	497.22	6,320.77	2,117.44	2,045.36	72.08	29.376		
10,700.00	7,870.00	7,880.84	7,773.34	90.67	32.24	-89.58	497.22	6,320.78	2,125.72	2,053.96	71.76	29.623		
10,800.00	7,870.00	7,881.45	7,773.94	90.48	32.25	-89.59	497.21	6,320.78	2,138.65	2,066.60	72.06	29.680		
10,900.00	7,870.00	7,882.05	7,774.55	90.31	32.25	-89.61	497.21	6,320.79	2,156.15	2,083.21	72.94	29.560		
11,000.00	7,870.00	7,882.65	7,775.15	90.15	32.25	-89.62	497.20	6,320.79	2,178.10	2,103.76	74.35	29.296		
11,100.00	7,870.00	7,883.26	7,775.75	90.00	32.25	-89.64	497.20	6,320.80	2,204.38	2,128.19	76.19	28.933		
11,200.00	7,870.00	7,883.86	7,776.36	89.88	32.25	-89.66	497.20	6,320.80	2,234.82	2,156.45	78.37	28.517		
11,300.00	7,870.00	7,884.46	7,776.96	89.77	32.25	-89.67	497.19	6,320.81	2,269.27	2,188.47	80.79	28.087		
11,400.00	7,870.00	7,885.07	7,777.56	89.68	32.26	-89.69	497.19	6,320.81	2,307.54	2,224.16	83.38	27.675		
11,500.00	7,870.00	7,885.67	7,778.17	89.60	32.26	-89.71	497.19	6,320.82	2,349.44	2,263.38	86.06	27.301		
11,600.00	7,870.00	7,886.27	7,778.77	89.55	32.26	-89.72	497.18	6,320.82	2,394.79	2,306.02	88.77	26.978		
11,700.00	7,870.00	7,886.88	7,779.37	89.52	32.26	-89.74	497.18	6,320.83	2,443.39	2,351.92	91.47	26.714		
11,800.00	7,870.00	7,887.48	7,779.98	89.50	32.26	-89.76	497.17	6,320.83	2,495.05	2,400.93	94.12	26.510		
11,900.00	7,870.00	7,888.09	7,780.58	89.51	32.27	-89.77	497.17	6,320.84	2,549.60	2,452.89	96.70	26.366		
12,000.00	7,870.00	7,888.69	7,781.19	89.54	32.27	-89.79	497.17	6,320.84	2,606.83	2,507.64	99.19	26.280		
12,100.00	7,870.00	7,889.29	7,781.79	89.59	32.27	-89.80	497.16	6,320.84	2,666.59	2,565.00	101.59	26.249		
12,200.00	7,870.00	7,889.90	7,782.39	89.66	32.27	-89.82	497.16	6,320.85	2,728.71	2,624.84	103.87	26.270		
12,300.00	7,870.00	7,890.50	7,783.00	89.77	32.27	-89.84	497.15	6,320.86	2,793.03	2,686.98	106.05	26.337		
12,400.00	7,870.00	7,891.12	7,783.62	89.89	32.28	-89.85	497.15	6,320.86	2,859.39	2,751.28	108.11	26.449		
12,500.00	7,870.00	7,891.80	7,784.30	90.05	32.28	-89.87	497.15	6,320.87	2,927.67	2,817.61	110.06	26.600		
12,600.00	7,870.00	7,892.48	7,784.97	90.24	32.28	-89.89	497.14	6,320.87	2,997.73	2,885.82	111.91	26.787		
12,700.00	7,870.00	7,893.15	7,785.65	90.46	32.28	-89.91	497.14	6,320.88	3,069.45	2,955.80	113.65	27.008		
12,800.00	7,870.00	7,893.82	7,786.31	90.71	32.28	-89.93	497.13	6,320.88	3,142.72	3,027.43	115.29	27.260		
12,900.00	7,870.00	7,894.48	7,786.98	90.99	32.29	-89.95	497.13	6,320.89	3,217.42	3,100.59	116.83	27.538		
13,000.00	7,870.00	7,895.15	7,787.64	91.32	32.29	-89.96	497.13	6,320.89	3,293.47	3,175.18	118.29	27.843		
13,100.00	7,870.00	7,895.81	7,788.30	91.68	32.29	-89.98	497.12	6,320.90	3,370.77	3,251.11	119.66	28.170		
13,200.00	7,870.00	7,896.46	7,788.96	92.08	32.29	-90.00	497.12	6,320.90	3,449.23	3,328.28	120.95	28.519		
13,300.00	7,870.00	7,897.11	7,789.61	92.52	32.29	-90.02	497.11	6,320.91	3,528.79	3,406.63	122.16	28.886		
13,400.00	7,870.00	7,897.76	7,790.26	93.00	32.30	-90.03	497.11	6,320.91	3,609.36	3,486.05	123.30	29.272		
13,500.00	7,870.00	7,898.41	7,790.91	93.53	32.30	-90.05	497.11	6,320.92	3,690.88	3,566.50	124.38	29.674		
13,600.00	7,870.00	7,899.05	7,791.55	94.10	32.30	-90.07	497.10	6,320.92	3,773.29	3,647.89	125.40	30.091		
13,700.00	7,870.00	7,899.69	7,792.19	94.72	32.30	-90.09	497.10	6,320.93	3,856.53	3,730.18	126.35	30.522		
13,800.00	7,870.00	7,900.33	7,792.82	95.38	32.30	-90.10	497.09	6,320.93	3,940.55	3,813.30	127.26	30.966		
13,900.00	7,870.00	7,900.96	7,793.46	96.09	32.31	-90.12	497.09	6,320.94	4,025.31	3,897.20	128.11	31.421		
14,000.00	7,870.00	7,901.59	7,794.09	96.84	32.31	-90.14	497.09	6,320.94	4,110.74	3,981.83	128.91	31.888		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,100.00	7,870.00	7,902.22	7,794.71	97.64	32.31	-90.15	497.08	6,320.95	4,196.82	4,067.15	129.67	32.364		
14,200.00	7,870.00	7,902.84	7,795.34	98.48	32.31	-90.17	497.08	6,320.95	4,283.51	4,153.12	130.40	32.850		
14,300.00	7,870.00	7,903.46	7,795.96	99.37	32.31	-90.19	497.07	6,320.96	4,370.76	4,239.69	131.08	33.345		
14,400.00	7,870.00	7,904.08	7,796.58	100.30	32.31	-90.21	497.07	6,320.96	4,458.55	4,326.83	131.72	33.848		
14,500.00	7,870.00	7,904.70	7,797.19	101.26	32.32	-90.22	497.07	6,320.97	4,546.85	4,414.51	132.34	34.358		
14,600.00	7,870.00	7,905.31	7,797.81	102.27	32.32	-90.24	497.06	6,320.97	4,635.62	4,502.70	132.92	34.875		
14,700.00	7,870.00	7,905.92	7,798.41	103.31	32.32	-90.26	497.06	6,320.98	4,724.84	4,591.36	133.47	35.399		
14,800.00	7,870.00	7,906.53	7,799.02	104.38	32.32	-90.27	497.06	6,320.98	4,814.48	4,680.48	134.00	35.930		
14,900.00	7,870.00	7,907.13	7,799.62	105.49	32.32	-90.29	497.05	6,320.99	4,904.52	4,770.02	134.50	36.466		
15,000.00	7,870.00	7,907.73	7,800.22	106.63	32.33	-90.30	497.05	6,320.99	4,994.94	4,859.97	134.97	37.007		
15,100.00	7,870.00	7,908.33	7,800.82	107.80	32.33	-90.32	497.04	6,320.99	5,085.72	4,950.29	135.43	37.553		
15,200.00	7,870.00	7,908.92	7,801.42	109.00	32.33	-90.34	497.04	6,321.00	5,176.84	5,040.98	135.86	38.105		
15,300.00	7,870.00	7,909.51	7,802.01	110.22	32.33	-90.35	497.04	6,321.00	5,268.28	5,132.01	136.27	38.660		
15,400.00	7,870.00	7,910.10	7,802.60	111.47	32.33	-90.37	497.03	6,321.01	5,360.03	5,223.36	136.67	39.220		
15,500.00	7,870.00	7,910.69	7,803.18	112.74	32.34	-90.38	497.03	6,321.01	5,452.06	5,315.02	137.04	39.784		
15,600.00	7,870.00	7,911.27	7,803.77	114.03	32.34	-90.40	497.03	6,321.02	5,544.38	5,406.97	137.40	40.351		
15,700.00	7,870.00	7,911.85	7,804.35	115.34	32.34	-90.42	497.02	6,321.02	5,636.95	5,499.20	137.75	40.922		
15,800.00	7,870.00	7,912.43	7,804.93	116.68	32.34	-90.43	497.02	6,321.02	5,729.78	5,591.70	138.08	41.497		
15,900.00	7,870.00	7,913.01	7,805.50	118.02	32.34	-90.45	497.02	6,321.03	5,822.84	5,684.44	138.39	42.074		
16,000.00	7,870.00	7,913.58	7,806.08	119.39	32.34	-90.46	497.01	6,321.03	5,916.13	5,777.43	138.70	42.654		
16,100.00	7,870.00	7,914.15	7,806.65	120.77	32.35	-90.48	497.01	6,321.04	6,009.63	5,870.64	138.99	43.238		
16,200.00	7,870.00	7,914.72	7,807.21	122.17	32.35	-90.49	497.01	6,321.04	6,103.34	5,964.07	139.27	43.823		
16,300.00	7,870.00	7,915.28	7,807.78	123.58	32.35	-90.51	497.00	6,321.04	6,197.25	6,057.71	139.54	44.412		
16,400.00	7,870.00	7,915.84	7,808.34	125.00	32.35	-90.52	497.00	6,321.05	6,291.34	6,151.54	139.80	45.002		
16,500.00	7,870.00	7,916.40	7,808.90	126.43	32.35	-90.54	497.00	6,321.05	6,385.62	6,245.57	140.05	45.595		
16,600.00	7,870.00	7,916.96	7,809.46	127.88	32.35	-90.55	496.99	6,321.06	6,480.06	6,339.77	140.29	46.190		
16,700.00	7,870.00	7,917.52	7,810.01	129.34	32.36	-90.57	496.99	6,321.06	6,574.67	6,434.15	140.52	46.788		
16,800.00	7,870.00	7,918.07	7,810.56	130.81	32.36	-90.58	496.99	6,321.06	6,669.44	6,528.69	140.75	47.386		
16,900.00	7,870.00	7,918.62	7,811.11	132.28	32.36	-90.60	496.98	6,321.07	6,764.36	6,623.39	140.96	47.987		
17,000.00	7,870.00	7,919.16	7,811.66	133.77	32.36	-90.61	496.98	6,321.07	6,859.42	6,718.25	141.17	48.590		
17,100.00	7,870.00	7,919.71	7,812.20	135.27	32.36	-90.63	496.98	6,321.08	6,954.62	6,813.25	141.37	49.194		
17,200.00	7,870.00	7,920.25	7,812.75	136.77	32.36	-90.64	496.98	6,321.08	7,049.95	6,908.39	141.57	49.800		
17,300.00	7,870.00	7,920.79	7,813.28	138.28	32.37	-90.66	496.97	6,321.08	7,145.41	7,003.66	141.76	50.407		
17,400.00	7,870.00	7,921.33	7,813.82	139.80	32.37	-90.67	496.97	6,321.09	7,241.00	7,099.06	141.94	51.015		
17,500.00	7,870.00	7,921.86	7,814.36	141.33	32.37	-90.69	496.97	6,321.09	7,336.70	7,194.58	142.11	51.625		
17,600.00	7,870.00	7,922.39	7,814.89	142.86	32.37	-90.70	496.96	6,321.09	7,432.51	7,290.22	142.29	52.236		
17,700.00	7,870.00	7,922.92	7,815.42	144.40	32.37	-90.72	496.96	6,321.10	7,528.43	7,385.98	142.45	52.849		
17,800.00	7,870.00	7,923.45	7,815.95	145.95	32.37	-90.73	496.96	6,321.10	7,624.46	7,481.85	142.61	53.462		
17,900.00	7,870.00	7,923.98	7,816.47	147.50	32.38	-90.74	496.95	6,321.10	7,720.59	7,577.82	142.77	54.077		
18,000.00	7,870.00	7,924.50	7,816.99	149.06	32.38	-90.76	496.95	6,321.11	7,816.82	7,673.89	142.92	54.692		
18,100.00	7,870.00	7,925.02	7,817.51	150.63	32.38	-90.77	496.95	6,321.11	7,913.14	7,770.06	143.07	55.309		
18,200.00	7,870.00	7,925.54	7,818.03	152.20	32.38	-90.79	496.95	6,321.11	8,009.55	7,866.33	143.22	55.926		
18,300.00	7,870.00	7,926.05	7,818.55	153.77	32.38	-90.80	496.94	6,321.12	8,106.04	7,962.68	143.36	56.544		
18,400.00	7,870.00	7,926.57	7,819.06	155.35	32.38	-90.81	496.94	6,321.12	8,202.62	8,059.13	143.49	57.164		
18,500.00	7,870.00	7,927.08	7,819.57	156.93	32.39	-90.83	496.94	6,321.12	8,299.28	8,155.66	143.63	57.784		
18,600.00	7,870.00	7,927.59	7,820.08	158.52	32.39	-90.84	496.93	6,321.13	8,396.02	8,252.27	143.76	58.404		
18,700.00	7,870.00	7,928.09	7,820.59	160.11	32.39	-90.86	496.93	6,321.13	8,492.84	8,348.95	143.88	59.026		
18,800.00	7,870.00	7,928.60	7,821.09	161.71	32.39	-90.87	496.93	6,321.13	8,589.73	8,445.72	144.01	59.648		
18,900.00	7,870.00	7,929.10	7,821.60	163.31	32.39	-90.88	496.93	6,321.14	8,686.68	8,542.56	144.13	60.271		
19,000.00	7,870.00	7,929.60	7,822.10	164.91	32.39	-90.90	496.92	6,321.14	8,783.71	8,639.46	144.25	60.894		
19,100.00	7,870.00	7,930.10	7,822.59	166.52	32.39	-90.91	496.92	6,321.14	8,880.80	8,736.44	144.36	61.518		
19,200.00	7,870.00	7,930.60	7,823.09	168.13	32.40	-90.92	496.92	6,321.15	8,977.96	8,833.49	144.47	62.142		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	7,931.09	7,823.58	169.75	32.40	-90.94	496.92	6,321.15	9,075.18	8,930.59	144.58	62.767	
19,383.51	7,870.00	7,931.50	7,823.99	171.10	32.40	-90.95	496.91	6,321.15	9,156.41	9,011.73	144.67	63.290	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	81.98	758.30	5,384.29	5,438.04					
100.00	100.00	22.29	22.29	0.13	0.03	81.98	758.29	5,384.28	5,437.42	5,437.25	0.17	N/A		
199.39	199.39	117.39	117.39	0.49	0.26	81.99	757.65	5,384.21	5,437.26	5,436.51	0.75	7,258.453		
200.00	200.00	117.83	117.83	0.49	0.26	81.99	757.64	5,384.22	5,437.26	5,436.51	0.75	7,222.005		
300.00	300.00	169.00	168.97	0.85	0.45	82.01	756.20	5,384.51	5,437.57	5,436.28	1.30	4,196.180		
400.00	400.00	236.17	236.05	1.21	0.70	82.04	752.77	5,385.63	5,438.60	5,436.70	1.90	2,858.745		
500.00	500.00	294.07	293.75	1.57	0.91	82.09	748.40	5,387.36	5,440.52	5,438.04	2.48	2,193.470		
600.00	600.00	351.00	350.39	1.93	1.13	82.15	743.13	5,389.58	5,443.15	5,440.09	3.06	1,780.050		
700.00	699.98	412.77	411.70	2.28	1.38	18.40	736.22	5,392.60	5,444.87	5,441.21	3.66	1,487.563		
800.00	799.84	442.00	440.64	2.64	1.50	18.45	732.48	5,394.28	5,444.22	5,440.09	4.13	1,318.462		
900.00	899.45	496.04	493.98	3.00	1.74	18.57	724.71	5,398.05	5,441.23	5,436.51	4.72	1,153.549		
1,000.00	998.70	533.00	530.32	3.37	1.90	18.68	718.75	5,401.25	5,436.19	5,430.96	5.23	1,038.795		
1,100.00	1,097.47	567.35	563.97	3.76	2.07	18.81	712.76	5,404.66	5,429.05	5,423.29	5.75	943.549		
1,200.00	1,195.62	624.00	619.21	4.18	2.34	19.03	702.05	5,411.22	5,419.94	5,413.55	6.39	848.786		
1,300.00	1,293.06	647.75	642.26	4.63	2.47	19.18	697.22	5,414.25	5,408.48	5,401.61	6.88	786.556		
1,400.00	1,389.64	715.00	707.22	5.11	2.82	19.50	682.32	5,423.21	5,394.68	5,387.08	7.60	709.870		
1,500.00	1,485.27	757.96	748.46	5.63	3.07	19.78	671.95	5,429.31	5,378.47	5,370.24	8.22	653.932		
1,600.00	1,579.82	808.00	796.25	6.20	3.36	20.11	659.20	5,436.92	5,360.07	5,351.17	8.90	602.236		
1,700.00	1,673.17	856.00	841.84	6.83	3.66	20.47	646.29	5,444.64	5,339.42	5,329.82	9.60	566.359		
1,800.00	1,765.21	910.45	893.24	7.51	4.00	20.89	630.86	5,453.78	5,316.46	5,306.12	10.35	513.753		
1,900.00	1,855.84	969.64	948.99	8.24	4.39	21.38	613.82	5,464.05	5,291.18	5,280.03	11.15	474.333		
2,000.00	1,944.94	1,050.42	1,024.96	9.05	4.93	22.01	590.39	5,478.39	5,263.46	5,251.34	12.13	434.029		
2,100.00	2,032.39	1,132.43	1,101.81	9.91	5.49	22.71	565.75	5,492.93	5,232.99	5,219.85	13.14	398.301		
2,200.00	2,118.11	1,200.00	1,179.88	10.85	6.20	23.40	509.73	5,524.33	5,198.79	5,178.35	20.45	254.250		
2,300.00	2,201.97	1,385.40	1,339.91	11.85	7.21	24.82	491.00	5,534.26	5,161.43	5,145.62	15.81	326.449		
2,400.00	2,283.88	1,433.00	1,384.64	12.93	7.54	25.49	476.73	5,542.12	5,122.21	5,105.54	16.67	307.189		
2,429.47	2,307.63	1,433.00	1,384.64	13.26	7.54	25.60	476.73	5,542.12	5,110.28	5,093.44	16.84	303.385		
2,500.00	2,364.26	1,459.68	1,409.62	14.06	7.73	25.78	468.56	5,546.72	5,081.86	5,064.43	17.43	291.507		
2,600.00	2,444.56	1,495.76	1,443.26	15.22	7.99	26.03	457.23	5,553.19	5,042.51	5,024.24	18.27	275.961		
2,700.00	2,524.85	1,537.83	1,482.27	16.39	8.29	26.33	443.61	5,561.06	5,004.30	4,985.13	19.18	260.978		
2,800.00	2,605.14	1,621.25	1,559.51	17.57	8.92	26.92	416.29	5,576.80	4,966.81	4,946.41	20.40	243.469		
2,900.00	2,685.43	1,696.09	1,628.88	18.76	9.47	27.46	392.00	5,590.88	4,929.85	4,908.27	21.58	228.437		
3,000.00	2,765.73	1,844.54	1,767.22	19.96	10.55	28.52	345.29	5,617.63	4,892.70	4,869.41	23.29	210.084		
3,100.00	2,846.02	1,913.74	1,832.06	21.16	11.04	29.02	324.43	5,629.83	4,855.84	4,831.39	24.45	198.622		
3,200.00	2,926.31	1,992.78	1,906.31	22.37	11.60	29.58	301.19	5,643.85	4,819.58	4,793.89	25.68	187.658		
3,300.00	3,006.60	2,064.77	1,973.97	23.59	12.10	30.10	280.25	5,656.66	4,783.91	4,757.02	26.88	177.949		
3,400.00	3,086.90	2,127.03	2,032.44	24.81	12.54	30.55	262.00	5,667.83	4,748.96	4,720.92	28.04	169.374		
3,500.00	3,167.19	2,182.00	2,083.91	26.03	12.93	30.95	245.50	5,677.86	4,714.92	4,685.76	29.16	161.693		
3,600.00	3,247.48	2,244.54	2,142.35	27.25	13.38	31.42	226.50	5,689.48	4,681.80	4,651.45	30.36	154.234		
3,700.00	3,327.77	2,393.24	2,281.63	28.48	14.44	32.54	182.04	5,716.60	4,649.10	4,616.93	32.17	144.503		
3,800.00	3,408.07	2,482.67	2,365.89	29.71	15.06	33.21	156.37	5,732.08	4,616.05	4,582.48	33.57	137.485		
3,900.00	3,488.36	2,548.18	2,427.57	30.94	15.52	33.71	137.45	5,743.44	4,583.70	4,548.87	34.83	131.616		
4,000.00	3,568.65	2,607.52	2,483.26	32.17	15.94	34.17	119.79	5,753.82	4,552.24	4,516.18	36.06	126.242		
4,100.00	3,648.95	2,681.66	2,552.55	33.41	16.47	34.76	96.89	5,766.89	4,521.76	4,484.34	37.42	120.848		
4,200.00	3,729.24	2,774.55	2,639.86	34.64	17.12	35.48	69.70	5,783.22	4,491.66	4,452.74	38.92	115.408		
4,300.00	3,809.53	2,836.00	2,697.58	35.88	17.55	35.97	51.60	5,794.02	4,462.34	4,422.14	40.20	110.991		
4,400.00	3,889.82	2,890.76	2,748.86	37.12	17.95	36.41	35.06	5,803.79	4,434.08	4,392.62	41.46	106.944		
4,500.00	3,970.12	2,944.71	2,799.22	38.36	18.34	36.85	18.44	5,813.66	4,407.00	4,364.28	42.73	103.146		
4,600.00	4,050.41	3,006.11	2,856.43	39.60	18.79	37.35	-0.72	5,825.06	4,381.02	4,336.96	44.06	99.424		
4,700.00	4,130.70	3,077.26	2,922.60	40.84	19.32	37.95	-23.21	5,838.39	4,356.04	4,310.54	45.50	95.746		
4,800.00	4,210.99	3,156.03	2,995.73	42.08	19.91	38.61	-48.57	5,853.03	4,331.89	4,284.88	47.01	92.150		
4,900.00	4,291.29	3,260.21	3,092.24	43.32	20.69	39.51	-83.01	5,871.83	4,308.44	4,259.68	48.76	88.368		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,000.00	4,371.58	3,370.07	3,194.59	44.57	21.50	40.46	-117.99	5,891.05	4,285.08	4,234.53	50.55	84.774		
5,100.00	4,451.87	3,440.88	3,261.00	45.81	22.00	41.05	-139.07	5,903.69	4,262.35	4,210.34	52.01	81.946		
5,200.00	4,532.16	3,492.00	3,308.93	47.05	22.37	41.48	-154.20	5,913.02	4,240.75	4,187.42	53.33	79.521		
5,300.00	4,612.46	3,542.01	3,355.68	48.30	22.73	41.91	-169.30	5,922.35	4,220.48	4,165.83	54.65	77.230		
5,400.00	4,692.75	3,586.00	3,396.59	49.54	23.06	42.29	-183.10	5,930.76	4,201.71	4,145.79	55.92	75.135		
5,500.00	4,773.04	3,673.81	3,478.20	50.79	23.71	43.05	-210.70	5,947.77	4,184.06	4,126.47	57.58	72.660		
5,600.00	4,853.34	3,836.83	3,630.89	52.03	24.88	44.46	-259.27	5,977.78	4,165.75	4,105.88	59.87	69.580		
5,700.00	4,933.63	3,906.52	3,696.32	53.28	25.38	45.07	-279.73	5,990.31	4,148.22	4,086.84	61.39	67.576		
5,800.00	5,013.92	3,961.00	3,747.25	54.53	25.77	45.55	-296.51	5,999.90	4,131.83	4,069.04	62.79	65.807		
5,900.00	5,094.21	4,012.71	3,795.46	55.77	26.15	46.01	-312.76	6,009.16	4,116.82	4,052.65	64.17	64.152		
6,000.00	5,174.51	4,059.46	3,838.99	57.02	26.49	46.43	-327.37	6,017.98	4,103.37	4,037.86	65.51	62.634		
6,100.00	5,254.80	4,136.62	3,910.80	58.27	27.07	47.12	-351.33	6,032.90	4,091.14	4,024.01	67.13	60.943		
6,200.00	5,335.09	4,259.45	4,025.16	59.52	27.97	48.22	-389.88	6,055.74	4,079.51	4,010.33	69.18	58.970		
6,300.00	5,415.38	4,308.08	4,070.44	60.76	28.33	48.66	-405.18	6,064.71	4,068.73	3,998.17	70.55	57.669		
6,400.00	5,495.68	4,363.11	4,121.67	62.01	28.74	49.16	-422.33	6,075.20	4,059.29	3,987.31	71.98	56.393		
6,500.00	5,575.97	4,415.49	4,170.36	63.26	29.13	49.63	-438.64	6,085.53	4,051.30	3,977.91	73.38	55.208		
6,600.00	5,656.26	4,487.21	4,236.94	64.51	29.67	50.28	-461.04	6,099.98	4,044.63	3,969.66	74.97	53.950		
6,700.00	5,736.55	4,569.39	4,313.17	65.76	30.29	51.02	-487.11	6,116.23	4,038.92	3,962.25	76.67	52.680		
6,800.00	5,816.85	4,642.82	4,381.08	67.01	30.86	51.71	-511.40	6,130.00	4,034.14	3,955.85	78.30	51.524		
6,900.00	5,897.14	4,702.12	4,435.74	68.26	31.31	52.27	-531.64	6,140.89	4,030.66	3,950.87	79.79	50.518		
7,000.00	5,977.43	4,745.71	4,475.83	69.50	31.65	52.68	-546.68	6,149.06	4,028.68	3,947.58	81.10	49.673		
7,100.00	6,057.72	6,302.74	5,990.53	70.75	39.03	66.04	-804.74	6,298.37	4,006.76	3,915.83	90.93	44.062		
7,200.00	6,138.02	6,382.98	6,070.78	72.00	39.17	66.70	-804.96	6,297.85	3,977.82	3,885.37	92.46	43.024		
7,300.00	6,218.31	6,471.80	6,159.59	73.25	39.33	67.45	-805.21	6,297.17	3,949.51	3,855.51	93.99	42.019		
7,400.00	6,298.60	6,560.35	6,248.13	74.50	39.49	68.20	-805.37	6,296.27	3,921.71	3,826.17	95.54	41.047		
7,500.00	6,378.90	6,653.14	6,340.92	75.75	39.65	68.99	-805.30	6,295.21	3,894.45	3,797.35	97.10	40.107		
7,600.00	6,459.19	6,728.48	6,416.25	77.00	39.79	69.64	-805.12	6,294.27	3,867.79	3,769.12	98.67	39.200		
7,700.00	6,539.48	6,832.79	6,520.55	78.25	39.97	70.54	-804.64	6,293.16	3,841.94	3,741.70	100.24	38.326		
7,800.00	6,619.77	6,920.22	6,607.96	79.50	40.12	71.31	-803.97	6,291.55	3,816.19	3,714.35	101.83	37.475		
7,900.00	6,700.07	7,012.83	6,700.56	80.75	40.28	72.14	-803.47	6,289.68	3,791.26	3,687.83	103.43	36.654		
8,000.00	6,780.36	7,116.99	6,804.68	82.00	40.46	73.08	-802.66	6,286.88	3,766.60	3,661.56	105.04	35.857		
8,100.00	6,860.65	7,207.70	6,895.34	83.25	40.61	73.91	-801.51	6,284.25	3,742.41	3,635.75	106.66	35.087		
8,200.00	6,940.94	7,266.20	6,953.81	84.50	40.71	74.44	-800.62	6,282.66	3,719.09	3,610.79	108.30	34.342		
8,300.00	7,021.24	7,310.80	6,998.40	85.76	40.79	74.85	-799.89	6,282.09	3,697.32	3,587.38	109.93	33.632		
8,400.00	7,101.53	7,400.45	7,088.03	87.01	40.96	75.66	-798.73	6,281.35	3,676.88	3,565.30	111.58	32.953		
8,500.00	7,181.82	7,519.67	7,207.16	88.26	41.18	76.81	-799.19	6,276.74	3,656.58	3,543.34	113.25	32.289		
8,605.60	7,266.61	7,553.88	7,241.33	89.58	41.25	77.15	-799.70	6,275.10	3,636.32	3,521.30	115.01	31.616		
8,650.00	7,302.60	7,569.44	7,256.87	90.13	41.28	70.94	-799.97	6,274.52	3,627.05	3,511.31	115.73	31.339		
8,700.00	7,343.78	7,587.43	7,274.85	90.72	41.32	63.22	-800.31	6,273.96	3,613.76	3,497.26	116.49	31.021		
8,750.00	7,385.32	7,611.00	7,298.41	91.28	41.37	54.98	-800.79	6,273.43	3,597.52	3,480.32	117.20	30.696		
8,800.00	7,426.92	7,629.56	7,316.97	91.81	41.42	46.39	-801.18	6,273.17	3,578.36	3,460.53	117.83	30.369		
8,850.00	7,468.27	7,655.51	7,342.91	92.29	41.48	37.81	-801.66	6,273.01	3,556.33	3,437.94	118.39	30.038		
8,900.00	7,509.04	7,681.45	7,368.85	92.72	41.54	29.40	-802.07	6,273.11	3,531.56	3,412.68	118.88	29.707		
8,950.00	7,548.93	7,705.00	7,392.39	93.10	41.60	21.27	-802.38	6,273.41	3,504.17	3,384.89	119.29	29.376		
9,000.00	7,587.63	7,728.89	7,416.27	93.43	41.66	13.44	-802.72	6,273.86	3,474.36	3,354.75	119.61	29.047		
9,050.00	7,624.85	7,750.26	7,437.64	93.71	41.72	5.83	-803.11	6,274.33	3,442.33	3,322.48	119.85	28.722		
9,100.00	7,660.30	7,770.86	7,458.22	93.93	41.77	-1.67	-803.56	6,274.84	3,408.29	3,288.29	120.00	28.402		
9,150.00	7,693.72	7,799.00	7,486.34	94.10	41.85	-9.21	-804.30	6,275.64	3,372.50	3,252.41	120.09	28.083		
9,200.00	7,724.85	7,810.82	7,498.15	94.23	41.88	-16.87	-804.65	6,276.01	3,335.15	3,215.08	120.07	27.777		
9,250.00	7,753.45	7,831.10	7,518.42	94.30	41.94	-24.82	-805.28	6,276.68	3,296.54	3,176.56	119.98	27.475		
9,300.00	7,779.31	7,849.72	7,537.01	94.34	41.99	-33.06	-805.89	6,277.33	3,256.96	3,137.14	119.82	27.182		
9,350.00	7,802.23	7,866.51	7,553.78	94.33	42.04	-41.51	-806.47	6,277.95	3,216.73	3,097.15	119.58	26.900		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
9,400.00	7,822.03	7,881.32	7,568.57	94.28	42.09	-49.99	-807.01	6,278.52	3,176.17	3,056.90	119.27	26.631		
9,450.00	7,838.57	7,899.18	7,586.40	94.20	42.14	-58.37	-807.69	6,279.24	3,135.63	3,016.74	118.89	26.373		
9,500.00	7,851.72	7,935.80	7,622.97	94.10	42.24	-66.84	-809.02	6,280.54	3,095.39	2,976.89	118.50	26.122		
9,550.00	7,861.37	7,963.25	7,650.39	93.96	42.32	-74.42	-809.97	6,281.33	3,055.82	2,937.80	118.02	25.893		
9,600.00	7,867.46	7,981.69	7,668.82	93.81	42.38	-80.88	-810.57	6,281.77	3,017.36	2,899.90	117.46	25.688		
9,650.00	7,869.94	8,002.56	7,689.67	93.64	42.43	-86.48	-811.21	6,282.19	2,980.41	2,863.56	116.86	25.505		
9,659.14	7,870.00	8,004.89	7,692.00	93.60	42.44	-87.36	-811.28	6,282.23	2,973.86	2,857.12	116.74	25.475		
9,700.00	7,870.00	8,012.75	7,699.86	93.46	42.46	-87.57	-811.50	6,282.36	2,944.81	2,828.62	116.20	25.344		
9,800.00	7,870.00	8,028.84	7,715.94	93.11	42.50	-88.02	-811.90	6,282.58	2,874.94	2,760.12	114.81	25.040		
9,900.00	7,870.00	8,041.57	7,728.67	92.77	42.54	-88.37	-812.19	6,282.72	2,806.87	2,693.52	113.35	24.762		
10,000.00	7,870.00	8,051.90	7,739.00	92.46	42.56	-88.65	-812.39	6,282.80	2,740.76	2,628.94	111.81	24.512		
10,100.00	7,870.00	8,060.45	7,747.55	92.16	42.59	-88.89	-812.55	6,282.85	2,676.74	2,566.54	110.20	24.290		
10,200.00	7,870.00	8,067.64	7,754.74	91.87	42.61	-89.08	-812.67	6,282.89	2,614.98	2,506.46	108.51	24.099		
10,300.00	7,870.00	8,073.77	7,760.87	91.60	42.62	-89.25	-812.77	6,282.91	2,555.63	2,448.87	106.76	23.939		
10,400.00	7,870.00	8,079.06	7,766.16	91.34	42.64	-89.40	-812.84	6,282.91	2,498.87	2,393.93	104.94	23.813		
10,500.00	7,870.00	8,083.68	7,770.77	91.11	42.65	-89.53	-812.91	6,282.92	2,444.89	2,341.81	103.07	23.721		
10,600.00	7,870.00	8,087.73	7,774.83	90.88	42.66	-89.64	-812.96	6,282.92	2,393.86	2,292.69	101.17	23.662		
10,700.00	7,870.00	8,091.33	7,778.42	90.67	42.67	-89.74	-813.00	6,282.91	2,345.99	2,246.74	99.25	23.637		
10,800.00	7,870.00	8,094.54	7,781.63	90.48	42.68	-89.82	-813.04	6,282.91	2,301.46	2,204.12	97.34	23.643		
10,900.00	7,870.00	8,097.42	7,784.51	90.31	42.68	-89.90	-813.07	6,282.90	2,260.49	2,165.00	95.49	23.674		
11,000.00	7,870.00	11,000.00	7,746.46	90.15	50.46	-88.86	-812.39	6,282.69	2,223.21	2,120.74	102.46	21.698		
11,100.00	7,870.00	11,100.00	7,748.74	90.00	50.73	-88.92	-812.44	6,282.72	2,189.94	2,088.85	101.09	21.663		
11,200.00	7,870.00	11,200.00	7,751.03	89.88	51.00	-88.98	-812.50	6,282.74	2,160.80	2,060.88	99.92	21.626		
11,300.00	7,870.00	8,099.03	7,786.12	89.77	42.68	-89.95	-813.09	6,282.91	2,135.91	2,046.34	89.58	23.845		
11,400.00	7,870.00	8,100.70	7,787.79	89.68	42.69	-89.99	-813.11	6,282.91	2,115.47	2,026.69	88.78	23.829		
11,500.00	7,870.00	8,102.29	7,789.39	89.60	42.69	-90.04	-813.12	6,282.90	2,099.58	2,011.20	88.38	23.756		
11,600.00	7,870.00	8,103.81	7,790.90	89.55	42.69	-90.08	-813.14	6,282.90	2,088.38	1,999.93	88.44	23.612		
11,700.00	7,870.00	8,105.26	7,792.35	89.52	42.70	-90.12	-813.15	6,282.90	2,081.91	1,992.92	88.99	23.394		
11,784.75	7,870.00	8,106.44	7,793.53	89.50	42.70	-90.15	-813.16	6,282.89	2,080.19	1,990.34	89.84	23.153 CC		
11,800.00	7,870.00	8,106.64	7,793.74	89.50	42.70	-90.16	-813.17	6,282.89	2,080.24	1,990.21	90.03	23.106 ES		
11,900.00	7,870.00	8,107.97	7,795.06	89.51	42.70	-90.19	-813.18	6,282.89	2,083.38	1,991.85	91.53	22.762		
12,000.00	7,870.00	8,109.23	7,796.33	89.54	42.70	-90.23	-813.19	6,282.89	2,091.29	1,997.86	93.44	22.382		
12,100.00	7,870.00	8,110.45	7,797.54	89.59	42.71	-90.26	-813.20	6,282.88	2,103.94	2,008.25	95.69	21.988		
12,200.00	7,870.00	8,111.61	7,798.70	89.66	42.71	-90.29	-813.21	6,282.88	2,121.22	2,023.03	98.20	21.602		
12,300.00	7,870.00	8,112.73	7,799.82	89.77	42.71	-90.33	-813.22	6,282.87	2,143.04	2,042.15	100.89	21.242		
12,400.00	7,870.00	8,113.80	7,800.89	89.89	42.71	-90.36	-813.23	6,282.87	2,169.26	2,065.56	103.69	20.920		
12,500.00	7,870.00	8,114.83	7,801.92	90.05	42.72	-90.38	-813.24	6,282.87	2,199.71	2,093.17	106.54	20.647		
12,600.00	7,870.00	8,115.82	7,802.91	90.24	42.72	-90.41	-813.25	6,282.86	2,234.22	2,124.84	109.38	20.426		
12,700.00	7,870.00	8,116.77	7,803.87	90.46	42.72	-90.44	-813.26	6,282.86	2,272.61	2,160.44	112.17	20.261		
12,800.00	7,870.00	8,117.69	7,804.78	90.71	42.72	-90.46	-813.26	6,282.86	2,314.69	2,199.82	114.87	20.150		
12,900.00	7,870.00	8,118.58	7,805.67	90.99	42.73	-90.49	-813.27	6,282.85	2,360.26	2,242.79	117.47	20.092		
13,000.00	7,870.00	8,119.43	7,806.53	91.32	42.73	-90.51	-813.28	6,282.85	2,409.12	2,289.18	119.94	20.085 SF		
13,100.00	7,870.00	8,120.26	7,807.35	91.68	42.73	-90.53	-813.28	6,282.84	2,461.07	2,338.79	122.28	20.126		
13,200.00	7,870.00	8,121.06	7,808.15	92.08	42.73	-90.55	-813.29	6,282.84	2,515.93	2,391.45	124.48	20.211		
13,300.00	7,870.00	8,121.83	7,808.92	92.52	42.73	-90.58	-813.29	6,282.84	2,573.51	2,446.97	126.54	20.338		
13,400.00	7,870.00	8,122.57	7,809.66	93.00	42.73	-90.60	-813.30	6,282.83	2,633.62	2,505.16	128.46	20.502		
13,500.00	7,870.00	8,123.29	7,810.38	93.53	42.74	-90.62	-813.30	6,282.83	2,696.11	2,565.86	130.24	20.700		
13,600.00	7,870.00	8,123.99	7,811.08	94.10	42.74	-90.64	-813.31	6,282.83	2,760.80	2,628.90	131.90	20.931		
13,700.00	7,870.00	8,124.66	7,811.76	94.72	42.74	-90.65	-813.31	6,282.82	2,827.55	2,694.12	133.43	21.191		
13,800.00	7,870.00	8,125.32	7,812.41	95.38	42.74	-90.67	-813.32	6,282.82	2,896.21	2,761.36	134.85	21.478		
13,900.00	7,870.00	8,125.95	7,813.05	96.09	42.74	-90.69	-813.32	6,282.81	2,966.66	2,830.50	136.16	21.789		
14,000.00	7,870.00	8,126.57	7,813.66	96.84	42.74	-90.71	-813.32	6,282.81	3,038.76	2,901.40	137.36	22.122		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	8,127.17	7,814.26	97.64	42.75	-90.72	-813.33	6,282.81	3,112.41	2,973.94	138.47	22.476		
14,200.00	7,870.00	8,127.75	7,814.84	98.48	42.75	-90.74	-813.33	6,282.80	3,187.49	3,047.99	139.50	22.849		
14,300.00	7,870.00	8,128.31	7,815.40	99.37	42.75	-90.75	-813.34	6,282.80	3,263.91	3,123.47	140.44	23.240		
14,400.00	7,870.00	8,128.86	7,815.95	100.30	42.75	-90.77	-813.34	6,282.80	3,341.58	3,200.26	141.32	23.646		
14,500.00	7,870.00	8,129.39	7,816.48	101.26	42.75	-90.78	-813.34	6,282.80	3,420.40	3,278.28	142.12	24.067		
14,600.00	7,870.00	8,129.91	7,817.00	102.27	42.75	-90.80	-813.35	6,282.79	3,500.31	3,357.45	142.86	24.502		
14,700.00	7,870.00	8,130.41	7,817.50	103.31	42.75	-90.81	-813.35	6,282.79	3,581.23	3,437.68	143.54	24.949		
14,800.00	7,870.00	8,130.90	7,817.99	104.38	42.75	-90.83	-813.35	6,282.79	3,663.09	3,518.91	144.17	25.407		
14,900.00	7,870.00	8,131.38	7,818.47	105.49	42.75	-90.84	-813.35	6,282.78	3,745.83	3,601.07	144.76	25.876		
15,000.00	7,870.00	8,131.84	7,818.93	106.63	42.76	-90.85	-813.36	6,282.78	3,829.39	3,684.09	145.30	26.356		
15,100.00	7,870.00	8,132.29	7,819.39	107.80	42.76	-90.86	-813.36	6,282.78	3,913.72	3,767.93	145.79	26.844		
15,200.00	7,870.00	8,132.74	7,819.83	109.00	42.76	-90.88	-813.36	6,282.77	3,998.78	3,852.52	146.26	27.341		
15,300.00	7,870.00	8,133.17	7,820.26	110.22	42.76	-90.89	-813.36	6,282.77	4,084.51	3,937.83	146.68	27.846		
15,400.00	7,870.00	8,133.59	7,820.68	111.47	42.76	-90.90	-813.37	6,282.77	4,170.88	4,023.80	147.08	28.358		
15,500.00	7,870.00	8,133.99	7,821.09	112.74	42.76	-90.91	-813.37	6,282.77	4,257.85	4,110.40	147.45	28.877		
15,600.00	7,870.00	8,134.39	7,821.48	114.03	42.76	-90.92	-813.37	6,282.76	4,345.38	4,197.59	147.79	29.403		
15,700.00	7,870.00	8,134.78	7,821.87	115.34	42.76	-90.93	-813.37	6,282.76	4,433.43	4,285.33	148.10	29.935		
15,800.00	7,870.00	8,135.16	7,822.25	116.68	42.76	-90.94	-813.37	6,282.76	4,521.98	4,373.58	148.40	30.472		
15,900.00	7,870.00	8,135.53	7,822.63	118.02	42.76	-90.95	-813.38	6,282.76	4,611.00	4,462.33	148.67	31.014		
16,000.00	7,870.00	8,135.90	7,822.99	119.39	42.77	-90.96	-813.38	6,282.75	4,700.46	4,551.53	148.93	31.562		
16,100.00	7,870.00	8,136.25	7,823.34	120.77	42.77	-90.97	-813.38	6,282.75	4,790.34	4,641.17	149.17	32.114		
16,200.00	7,870.00	8,136.60	7,823.69	122.17	42.77	-90.98	-813.38	6,282.75	4,880.61	4,731.22	149.39	32.670		
16,300.00	7,870.00	8,136.94	7,824.03	123.58	42.77	-90.99	-813.38	6,282.75	4,971.25	4,821.65	149.60	33.231		
16,400.00	7,870.00	8,137.27	7,824.36	125.00	42.77	-91.00	-813.38	6,282.74	5,062.25	4,912.46	149.79	33.795		
16,500.00	7,870.00	8,137.59	7,824.68	126.43	42.77	-91.01	-813.39	6,282.74	5,153.58	5,003.60	149.97	34.364		
16,600.00	7,870.00	8,137.91	7,825.00	127.88	42.77	-91.02	-813.39	6,282.74	5,245.22	5,095.08	150.14	34.935		
16,700.00	7,870.00	8,138.22	7,825.31	129.34	42.77	-91.03	-813.39	6,282.74	5,337.17	5,186.87	150.30	35.510		
16,800.00	7,870.00	8,138.52	7,825.61	130.81	42.77	-91.04	-813.39	6,282.73	5,429.40	5,278.95	150.45	36.087		
16,900.00	7,870.00	8,138.82	7,825.91	132.28	42.77	-91.04	-813.39	6,282.73	5,521.90	5,371.31	150.59	36.668		
17,000.00	7,870.00	8,139.11	7,826.20	133.77	42.77	-91.05	-813.39	6,282.73	5,614.66	5,463.93	150.72	37.251		
17,100.00	7,870.00	8,139.40	7,826.49	135.27	42.77	-91.06	-813.39	6,282.73	5,707.66	5,556.81	150.85	37.837		
17,200.00	7,870.00	8,139.68	7,826.77	136.77	42.77	-91.07	-813.39	6,282.73	5,800.89	5,649.93	150.97	38.425		
17,300.00	7,870.00	8,139.95	7,827.04	138.28	42.77	-91.08	-813.40	6,282.72	5,894.35	5,743.28	151.08	39.016		
17,400.00	7,870.00	8,140.22	7,827.31	139.80	42.77	-91.08	-813.40	6,282.72	5,988.02	5,836.84	151.18	39.608		
17,500.00	7,870.00	8,140.48	7,827.57	141.33	42.78	-91.09	-813.40	6,282.72	6,081.89	5,930.61	151.28	40.203		
17,600.00	7,870.00	8,140.74	7,827.83	142.86	42.78	-91.10	-813.40	6,282.72	6,175.95	6,024.58	151.37	40.800		
17,700.00	7,870.00	8,140.99	7,828.08	144.40	42.78	-91.10	-813.40	6,282.72	6,270.20	6,118.74	151.46	41.398		
17,800.00	7,870.00	8,141.24	7,828.33	145.95	42.78	-91.11	-813.40	6,282.71	6,364.62	6,213.08	151.54	41.999		
17,900.00	7,870.00	8,141.48	7,828.58	147.50	42.78	-91.12	-813.40	6,282.71	6,459.21	6,307.59	151.62	42.600		
18,000.00	7,870.00	8,141.72	7,828.81	149.06	42.78	-91.12	-813.40	6,282.71	6,553.96	6,402.26	151.70	43.204		
18,100.00	7,870.00	8,141.96	7,829.05	150.63	42.78	-91.13	-813.40	6,282.71	6,648.86	6,497.10	151.77	43.809		
18,200.00	7,870.00	8,142.19	7,829.28	152.20	42.78	-91.14	-813.41	6,282.71	6,743.92	6,592.08	151.84	44.415		
18,300.00	7,870.00	8,142.41	7,829.51	153.77	42.78	-91.14	-813.41	6,282.71	6,839.11	6,687.21	151.90	45.023		
18,400.00	7,870.00	8,142.64	7,829.73	155.35	42.78	-91.15	-813.41	6,282.70	6,934.44	6,782.47	151.96	45.632		
18,500.00	7,870.00	8,142.85	7,829.94	156.93	42.78	-91.16	-813.41	6,282.70	7,029.89	6,877.87	152.02	46.242		
18,600.00	7,870.00	8,143.07	7,830.16	158.52	42.78	-91.16	-813.41	6,282.70	7,125.48	6,973.40	152.08	46.853		
18,700.00	7,870.00	8,143.28	7,830.37	160.11	42.78	-91.17	-813.41	6,282.70	7,221.18	7,069.04	152.13	47.466		
18,800.00	7,870.00	8,143.48	7,830.58	161.71	42.78	-91.17	-813.41	6,282.70	7,316.99	7,164.81	152.19	48.079		
18,900.00	7,870.00	8,143.69	7,830.78	163.31	42.78	-91.18	-813.41	6,282.70	7,412.92	7,260.69	152.24	48.694		
19,000.00	7,870.00	8,143.89	7,830.98	164.91	42.78	-91.18	-813.41	6,282.69	7,508.96	7,356.67	152.28	49.309		
19,100.00	7,870.00	8,144.08	7,831.17	166.52	42.78	-91.19	-813.41	6,282.69	7,605.09	7,452.76	152.33	49.925		
19,200.00	7,870.00	8,144.28	7,831.37	168.13	42.78	-91.19	-813.41	6,282.69	7,701.33	7,548.95	152.37	50.542		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,870.00	8,144.47	7,831.56	169.75	42.78	-91.20	-813.41	6,282.69	7,797.65	7,645.24	152.42	51.160	
19,383.51	7,870.00	8,144.62	7,831.71	171.10	42.78	-91.20	-813.41	6,282.69	7,878.17	7,725.72	152.45	51.677	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1,143.76	1,121.35	0.00	5.06	83.28	614.32	5,217.54	5,389.41					
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.43	599.56	5,203.84	5,367.49	5,362.21	5.28	1,016.313		
200.00	200.00	1,292.92	1,264.46	0.49	5.95	83.59	583.21	5,189.19	5,346.02	5,340.18	5.84	915.353		
300.00	300.00	1,405.03	1,405.03	0.85	0.91	83.92	549.59	5,161.81	5,324.76	5,323.38	1.38	3,871.612		
400.00	400.00	1,722.65	1,673.58	1.21	8.65	84.55	487.02	5,100.05	5,299.30	5,290.64	8.66	611.765		
500.00	500.00	1,775.00	1,723.37	1.57	8.99	84.65	476.18	5,088.09	5,274.17	5,264.91	9.25	569.979		
600.00	600.00	1,872.45	1,816.15	1.93	9.61	84.86	455.97	5,066.20	5,249.47	5,239.39	10.09	520.492		
700.00	699.98	1,924.73	1,866.05	2.28	9.94	21.34	445.56	5,054.60	5,223.62	5,212.93	10.69	488.466		
800.00	799.84	1,980.97	1,920.00	2.64	10.28	21.67	435.34	5,042.42	5,195.43	5,184.10	11.33	458.640		
900.00	899.45	2,042.00	1,978.60	3.00	10.65	22.05	424.06	5,029.60	5,164.82	5,152.84	11.98	431.001		
1,000.00	998.70	2,210.77	2,140.27	3.37	11.69	22.77	392.06	4,993.29	5,130.56	5,117.39	13.16	389.724		
1,100.00	1,097.47	2,307.76	2,233.13	3.76	12.29	23.35	374.15	4,971.77	5,092.92	5,078.92	14.00	363.826		
1,200.00	1,195.62	2,385.78	2,307.88	4.18	12.77	23.94	360.09	4,954.37	5,052.39	5,037.65	14.74	342.696		
1,300.00	1,293.06	2,463.81	2,382.71	4.63	13.25	24.59	346.15	4,937.21	5,009.34	4,993.85	15.49	323.327		
1,400.00	1,389.64	2,542.87	2,458.49	5.11	13.73	25.30	331.83	4,919.84	4,963.56	4,947.31	16.26	305.312		
1,500.00	1,485.27	2,595.24	2,508.71	5.63	14.05	25.99	322.09	4,908.60	4,915.53	4,898.62	16.91	290.699		
1,600.00	1,579.82	2,673.05	2,583.35	6.20	14.52	26.84	307.36	4,892.30	4,865.31	4,847.61	17.69	274.960		
1,700.00	1,673.17	2,736.16	2,643.92	6.83	14.90	27.71	295.61	4,879.01	4,812.56	4,794.13	18.42	261.242		
1,800.00	1,765.21	2,778.44	2,684.62	7.51	15.16	28.54	288.11	4,870.38	4,757.91	4,738.85	19.07	249.551		
1,900.00	1,855.84	1,900.00	2,866.39	8.24	9.83	30.25	256.67	4,830.62	4,700.73	4,685.51	15.22	308.856		
2,000.00	1,944.94	3,042.02	2,938.15	9.05	16.73	31.49	244.06	4,813.43	4,639.59	4,618.40	21.19	218.900		
2,100.00	2,032.39	3,084.00	2,978.52	9.91	16.98	32.63	237.11	4,804.23	4,577.05	4,555.14	21.90	208.987		
2,200.00	2,118.11	3,155.01	3,046.85	10.85	17.41	34.07	225.40	4,788.86	4,512.75	4,490.00	22.76	198.291		
2,300.00	2,201.97	3,227.34	3,116.34	11.85	17.84	35.68	213.28	4,772.89	4,446.21	4,422.56	23.65	187.967		
2,400.00	2,283.88	3,285.06	3,171.78	12.93	18.19	37.31	203.42	4,760.17	4,377.91	4,353.38	24.53	178.508		
2,429.47	2,307.63	3,299.96	3,186.08	13.26	18.28	37.80	200.83	4,756.91	4,357.47	4,332.68	24.78	175.822		
2,500.00	2,364.26	3,335.32	3,220.02	14.06	18.50	38.15	194.57	4,749.21	4,308.53	4,283.13	25.40	169.609		
2,600.00	2,444.56	3,389.31	3,271.82	15.22	18.83	38.69	184.77	4,737.56	4,239.56	4,213.23	26.33	161.032		
2,700.00	2,524.85	3,450.01	3,330.05	16.39	19.20	39.32	173.68	4,724.49	4,170.99	4,143.67	27.32	152.685		
2,800.00	2,605.14	3,497.75	3,375.86	17.57	19.49	39.82	164.94	4,714.27	4,102.90	4,074.61	28.29	145.055		
2,900.00	2,685.43	3,543.20	3,419.48	18.76	19.76	40.31	156.53	4,704.71	4,035.45	4,006.17	29.28	137.838		
3,000.00	2,765.73	3,582.80	3,457.53	19.96	20.00	40.74	149.15	4,696.55	3,968.70	3,938.43	30.28	131.085		
3,100.00	2,846.02	3,620.98	3,494.25	21.16	20.23	41.17	142.02	4,688.90	3,902.78	3,871.48	31.30	124.682		
3,200.00	2,926.31	3,647.00	3,519.30	22.37	20.39	41.46	137.16	4,683.82	3,837.75	3,805.44	32.31	118.793		
3,300.00	3,006.60	3,684.80	3,555.75	23.59	20.60	41.89	130.10	4,676.72	3,773.69	3,740.29	33.39	113.004		
3,400.00	3,086.90	3,713.96	3,583.92	24.81	20.77	42.22	124.66	4,671.56	3,710.75	3,676.27	34.48	107.633		
3,500.00	3,167.19	3,751.52	3,620.28	26.03	20.99	42.66	117.64	4,665.26	3,648.95	3,613.32	35.63	102.415		
3,600.00	3,247.48	3,939.63	3,801.85	27.25	22.07	44.94	82.14	4,631.29	3,587.27	3,549.75	37.52	95.620		
3,700.00	3,327.77	4,001.46	3,861.39	28.48	22.44	45.72	70.84	4,619.03	3,524.76	3,485.90	38.86	90.702		
3,800.00	3,408.07	4,058.77	3,916.61	29.71	22.78	46.45	60.61	4,607.61	3,462.82	3,422.60	40.22	86.097		
3,900.00	3,488.36	4,110.40	3,966.46	30.94	23.08	47.12	51.73	4,597.53	3,401.73	3,360.14	41.59	81.794		
4,000.00	3,568.65	4,195.17	4,048.38	32.17	23.57	48.23	37.58	4,580.92	3,341.28	3,298.15	43.13	77.463		
4,100.00	3,648.95	4,264.78	4,115.49	33.41	23.98	49.18	25.61	4,566.86	3,281.22	3,236.55	44.67	73.456		
4,200.00	3,729.24	4,339.36	4,187.05	34.64	24.43	50.25	11.37	4,551.41	3,221.87	3,175.57	46.29	69.598		
4,300.00	3,809.53	4,424.39	4,268.47	35.88	24.96	51.50	-4.98	4,533.14	3,162.91	3,114.89	48.02	65.863		
4,400.00	3,889.82	4,493.75	4,334.70	37.12	25.39	52.56	-18.71	4,517.82	3,104.62	3,054.89	49.73	62.424		
4,500.00	3,970.12	4,569.50	4,406.83	38.36	25.88	53.76	-34.24	4,500.65	3,047.08	2,995.54	51.54	59.116		
4,600.00	4,050.41	4,642.43	4,476.10	39.60	26.36	54.95	-49.51	4,483.65	2,990.32	2,936.92	53.40	56.000		
4,700.00	4,130.70	4,717.05	4,546.90	40.84	26.85	56.19	-65.02	4,465.92	2,934.43	2,879.12	55.31	53.052		
4,800.00	4,210.99	4,783.48	4,610.06	42.08	27.28	57.31	-78.03	4,449.98	2,879.41	2,822.18	57.23	50.317		
4,900.00	4,291.29	4,821.92	4,646.60	43.32	27.53	57.97	-85.68	4,440.84	2,825.85	2,766.81	59.04	47.861		
5,000.00	4,371.58	4,866.00	4,688.46	44.57	27.82	58.74	-94.92	4,430.57	2,774.07	2,713.13	60.94	45.522		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,900.92	4,721.63	45.81	28.05	59.37	-102.40	4,422.62	2,724.11	2,661.28	62.83	43.359		
5,200.00	4,532.16	4,943.03	4,761.72	47.05	28.32	60.12	-111.31	4,413.34	2,676.06	2,611.26	64.79	41.301		
5,300.00	4,612.46	5,011.26	4,826.83	48.30	28.76	61.35	-125.48	4,398.63	2,629.79	2,562.84	66.95	39.279		
5,400.00	4,692.75	5,078.13	4,890.65	49.54	29.18	62.57	-138.99	4,383.95	2,584.80	2,515.66	69.14	37.388		
5,500.00	4,773.04	5,129.37	4,939.66	50.79	29.50	63.52	-149.09	4,372.92	2,541.66	2,470.40	71.25	35.670		
5,600.00	4,853.34	5,182.80	4,990.93	52.03	29.82	64.51	-159.23	4,361.81	2,500.51	2,427.11	73.40	34.067		
5,700.00	4,933.63	5,239.40	5,045.56	53.28	30.15	65.56	-169.03	4,350.73	2,461.36	2,385.79	75.57	32.571		
5,800.00	5,013.92	5,286.90	5,091.70	54.53	30.41	66.42	-176.42	4,342.17	2,424.35	2,346.68	77.66	31.216		
5,900.00	5,094.21	5,334.00	5,137.72	55.77	30.66	67.27	-182.90	4,334.57	2,389.61	2,309.86	79.75	29.963		
6,000.00	5,174.51	5,387.14	5,189.91	57.02	30.90	68.21	-189.42	4,326.99	2,357.17	2,275.34	81.83	28.805		
6,100.00	5,254.80	5,438.35	5,240.41	58.27	31.13	69.11	-195.05	4,320.62	2,327.07	2,243.18	83.89	27.741		
6,200.00	5,335.09	5,487.74	5,289.27	59.52	31.34	69.96	-200.00	4,315.39	2,299.40	2,213.50	85.89	26.770		
6,300.00	5,415.38	5,543.95	5,345.03	60.76	31.56	70.93	-205.12	4,310.50	2,274.17	2,186.27	87.90	25.872		
6,400.00	5,495.68	5,611.45	5,412.14	62.01	31.81	72.07	-210.48	4,305.69	2,251.04	2,161.13	89.91	25.037		
6,500.00	5,575.97	5,683.65	5,484.10	63.26	32.04	73.27	-214.99	4,301.84	2,229.82	2,137.94	91.87	24.271		
6,600.00	5,656.26	5,760.62	5,560.96	64.51	32.26	74.51	-218.20	4,299.35	2,210.34	2,116.55	93.79	23.567		
6,700.00	5,736.55	5,840.21	5,640.52	65.76	32.46	75.77	-219.96	4,298.30	2,192.44	2,096.80	95.65	22.923		
6,800.00	5,816.85	5,920.64	5,720.94	67.01	32.64	77.01	-220.57	4,298.45	2,176.07	2,078.63	97.44	22.332		
6,900.00	5,897.14	6,001.16	5,801.46	68.26	32.81	78.27	-221.00	4,298.81	2,161.21	2,062.01	99.20	21.787		
7,000.00	5,977.43	6,083.19	5,883.49	69.50	32.99	79.56	-221.53	4,298.99	2,147.86	2,046.92	100.94	21.279		
7,100.00	6,057.72	6,160.08	5,960.38	70.75	33.16	80.78	-222.11	4,299.10	2,136.13	2,033.49	102.63	20.813		
7,200.00	6,138.02	6,239.25	6,039.55	72.00	33.34	82.05	-222.78	4,299.27	2,126.10	2,021.80	104.30	20.385		
7,300.00	6,218.31	6,321.05	6,121.35	73.25	33.53	83.36	-223.41	4,299.51	2,117.70	2,011.79	105.91	19.994		
7,400.00	6,298.60	6,404.49	6,204.78	74.50	33.71	84.71	-223.85	4,299.89	2,110.86	2,003.37	107.48	19.639		
7,500.00	6,378.90	6,488.21	6,288.50	75.75	33.90	86.06	-224.18	4,300.19	2,105.54	1,996.54	109.00	19.316		
7,600.00	6,459.19	6,570.94	6,371.23	77.00	34.09	87.40	-224.47	4,300.30	2,101.78	1,991.31	110.47	19.026		
7,700.00	6,539.48	6,651.35	6,451.64	78.25	34.27	88.71	-224.71	4,300.44	2,099.68	1,987.80	111.88	18.768		
7,781.70	6,605.08	6,719.87	6,520.16	79.27	34.42	89.82	-224.84	4,300.57	2,099.16	1,986.18	112.98	18.580		
7,800.00	6,619.77	6,735.23	6,535.52	79.50	34.46	90.07	-224.85	4,300.59	2,099.18	1,985.96	113.22	18.540		
7,900.00	6,700.07	6,808.02	6,608.31	80.75	34.62	91.25	-225.02	4,300.80	2,100.45	1,985.97	114.48	18.347		
8,000.00	6,780.36	6,884.72	6,685.01	82.00	34.79	92.49	-225.36	4,301.23	2,103.64	1,987.96	115.68	18.184		
8,100.00	6,860.65	6,964.17	6,764.45	83.25	34.97	93.77	-225.73	4,301.82	2,108.58	1,991.75	116.83	18.049		
8,200.00	6,940.94	7,046.13	6,846.41	84.50	35.15	95.08	-226.02	4,302.70	2,115.16	1,997.25	117.91	17.938		
8,300.00	7,021.24	7,129.83	6,930.10	85.76	35.34	96.41	-226.22	4,303.49	2,123.25	2,004.31	118.94	17.852		
8,400.00	7,101.53	7,209.43	7,009.71	87.01	35.52	97.67	-226.43	4,304.15	2,132.92	2,013.03	119.89	17.791		
8,500.00	7,181.82	7,288.95	7,089.22	88.26	35.70	98.93	-226.68	4,304.80	2,144.22	2,023.45	120.77	17.754		
8,605.60	7,266.61	7,372.16	7,172.42	89.58	35.89	100.23	-227.01	4,305.44	2,157.91	2,036.26	121.64	17.740		
8,650.00	7,302.60	7,408.01	7,208.28	90.13	35.98	95.05	-227.18	4,305.70	2,162.52	2,040.53	121.99	17.727		
8,700.00	7,343.78	7,449.89	7,250.15	90.72	36.08	88.62	-227.38	4,305.97	2,164.03	2,041.65	122.38	17.683		
8,750.00	7,385.32	7,492.10	7,292.36	91.28	36.18	81.76	-227.58	4,306.19	2,161.59	2,038.84	122.74	17.611		
8,800.00	7,426.92	7,534.33	7,334.59	91.81	36.28	74.78	-227.78	4,306.36	2,155.19	2,032.11	123.09	17.509		
8,850.00	7,468.27	7,576.25	7,376.52	92.29	36.38	67.98	-227.98	4,306.49	2,144.87	2,021.46	123.41	17.380		
8,900.00	7,509.04	7,615.53	7,415.79	92.72	36.48	61.59	-228.17	4,306.61	2,130.68	2,006.99	123.69	17.225		
8,950.00	7,548.93	7,653.92	7,454.17	93.10	36.58	55.80	-228.38	4,306.79	2,112.72	1,988.77	123.95	17.045		
9,000.00	7,587.63	7,693.32	7,493.58	93.43	36.67	50.72	-228.61	4,307.03	2,091.07	1,966.88	124.18	16.838		
9,050.00	7,624.85	7,733.31	7,533.57	93.71	36.77	46.33	-228.80	4,307.32	2,065.80	1,941.41	124.39	16.607		
9,100.00	7,660.30	7,771.40	7,571.66	93.93	36.86	42.56	-228.93	4,307.62	2,037.05	1,912.48	124.57	16.353		
9,150.00	7,693.72	7,805.54	7,605.80	94.10	36.94	39.28	-229.02	4,307.90	2,005.04	1,880.32	124.71	16.078		
9,200.00	7,724.85	7,837.52	7,637.77	94.23	37.02	36.45	-229.10	4,308.17	1,969.96	1,845.13	124.82	15.782		
9,250.00	7,753.45	7,866.90	7,667.15	94.30	37.09	33.97	-229.16	4,308.42	1,932.05	1,807.13	124.91	15.467		
9,300.00	7,779.31	7,892.55	7,692.81	94.34	37.15	31.70	-229.22	4,308.63	1,891.56	1,766.59	124.98	15.135		
9,350.00	7,802.23	7,915.49	7,715.74	94.33	37.20	29.55	-229.27	4,308.83	1,848.78	1,723.76	125.02	14.788		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,935.33	7,735.57	94.28	37.25	27.32	-229.32	4,308.99	1,803.98	1,678.93	125.05	14.426		
9,450.00	7,838.57	7,951.92	7,752.17	94.20	37.29	24.69	-229.36	4,309.13	1,757.48	1,632.41	125.06	14.053		
9,500.00	7,851.72	7,964.64	7,764.89	94.10	37.32	20.91	-229.39	4,309.24	1,709.60	1,584.53	125.07	13.669		
9,550.00	7,861.37	7,973.98	7,774.23	93.96	37.34	13.89	-229.42	4,309.32	1,660.69	1,535.61	125.08	13.277		
9,600.00	7,867.46	7,979.95	7,780.19	93.81	37.36	-5.60	-229.44	4,309.38	1,611.11	1,486.03	125.08	12.880		
9,650.00	7,869.94	7,982.48	7,782.72	93.64	37.36	-73.53	-229.45	4,309.40	1,561.23	1,436.13	125.10	12.480		
9,659.14	7,870.00	7,982.56	7,782.81	93.60	37.36	-86.62	-229.45	4,309.40	1,552.11	1,427.00	125.10	12.407		
9,700.00	7,870.00	7,982.69	7,782.94	93.46	37.36	-86.69	-229.45	4,309.40	1,511.34	1,386.22	125.12	12.079		
9,800.00	7,870.00	7,983.02	7,783.26	93.11	37.37	-86.87	-229.45	4,309.40	1,411.60	1,286.43	125.17	11.278		
9,900.00	7,870.00	7,983.34	7,783.59	92.77	37.37	-87.04	-229.45	4,309.41	1,311.90	1,186.68	125.22	10.477		
10,000.00	7,870.00	7,983.67	7,783.92	92.46	37.37	-87.22	-229.45	4,309.41	1,212.24	1,086.97	125.28	9.677		
10,100.00	7,870.00	7,984.00	7,784.25	92.16	37.37	-87.40	-229.45	4,309.41	1,112.65	987.31	125.34	8.877		
10,200.00	7,870.00	7,984.33	7,784.58	91.87	37.37	-87.58	-229.45	4,309.42	1,013.14	887.73	125.41	8.078		
10,300.00	7,870.00	7,984.66	7,784.91	91.60	37.37	-87.76	-229.45	4,309.42	913.73	788.24	125.49	7.281		
10,400.00	7,870.00	7,985.00	7,785.24	91.34	37.37	-87.95	-229.46	4,309.42	814.48	688.89	125.58	6.486		
10,500.00	7,870.00	7,985.33	7,785.58	91.11	37.37	-88.13	-229.46	4,309.42	715.42	589.75	125.67	5.693		
10,600.00	7,870.00	7,985.67	7,785.92	90.88	37.37	-88.32	-229.46	4,309.43	616.68	490.92	125.76	4.904		
10,700.00	7,870.00	7,986.01	7,786.26	90.67	37.37	-88.50	-229.46	4,309.43	518.41	392.60	125.81	4.121		
10,800.00	7,870.00	7,986.36	7,786.60	90.48	37.37	-88.69	-229.46	4,309.43	420.96	295.23	125.73	3.348		
10,900.00	7,870.00	7,986.70	7,786.95	90.31	37.37	-88.88	-229.46	4,309.44	325.06	199.82	125.24	2.595		
11,000.00	7,870.00	7,987.05	7,787.30	90.15	37.38	-89.07	-229.46	4,309.44	232.64	109.41	123.23	1.888		
11,100.00	7,870.00	7,987.40	7,787.65	90.00	37.38	-89.26	-229.46	4,309.44	150.27	36.15	114.12	1.317 Level 3		
11,200.00	7,870.00	7,987.75	7,788.00	89.88	37.38	-89.45	-229.47	4,309.45	105.06	23.36	81.71	1.286 Level 3, ES, SF		
11,207.71	7,870.00	7,987.78	7,788.02	89.87	37.38	-89.47	-229.47	4,309.45	104.78	24.98	79.80	1.313 Level 3, CC		
11,300.00	7,870.00	7,988.10	7,788.35	89.77	37.38	-89.65	-229.47	4,309.45	139.63	45.89	93.73	1.490 Level 3		
11,400.00	7,870.00	7,988.46	7,788.71	89.68	37.38	-89.84	-229.47	4,309.45	218.98	109.74	109.25	2.005		
11,500.00	7,870.00	7,988.82	7,789.07	89.60	37.38	-90.04	-229.47	4,309.46	310.50	195.24	115.26	2.694		
11,600.00	7,870.00	7,989.18	7,789.43	89.55	37.38	-90.23	-229.47	4,309.46	406.04	287.98	118.05	3.439		
11,700.00	7,870.00	7,989.54	7,789.79	89.52	37.38	-90.43	-229.47	4,309.46	503.31	383.71	119.60	4.208		
11,800.00	7,870.00	7,989.91	7,790.15	89.50	37.38	-90.63	-229.47	4,309.47	601.48	480.92	120.56	4.989		
11,900.00	7,870.00	7,990.27	7,790.52	89.51	37.38	-90.83	-229.47	4,309.47	700.17	578.96	121.21	5.777		
12,000.00	7,870.00	7,990.64	7,790.89	89.54	37.38	-91.03	-229.48	4,309.47	799.18	677.51	121.67	6.569		
12,100.00	7,870.00	7,991.02	7,791.26	89.59	37.39	-91.24	-229.48	4,309.48	898.41	776.40	122.01	7.363		
12,200.00	7,870.00	7,991.39	7,791.64	89.66	37.39	-91.44	-229.48	4,309.48	997.80	875.52	122.28	8.160		
12,300.00	7,870.00	7,991.77	7,792.01	89.77	37.39	-91.65	-229.48	4,309.48	1,097.30	974.80	122.50	8.958		
12,400.00	7,870.00	7,992.15	7,792.39	89.89	37.39	-91.85	-229.48	4,309.49	1,196.88	1,074.20	122.67	9.757		
12,500.00	7,870.00	7,992.53	7,792.77	90.05	37.39	-92.06	-229.48	4,309.49	1,296.52	1,173.70	122.82	10.556		
12,600.00	7,870.00	7,992.91	7,793.16	90.24	37.39	-92.27	-229.48	4,309.50	1,396.22	1,273.27	122.94	11.357		
12,700.00	7,870.00	7,993.30	7,793.54	90.46	37.39	-92.48	-229.49	4,309.50	1,495.95	1,372.90	123.05	12.157		
12,800.00	7,870.00	7,993.69	7,793.93	90.71	37.39	-92.69	-229.49	4,309.50	1,595.72	1,472.58	123.14	12.958		
12,900.00	7,870.00	7,994.08	7,794.32	90.99	37.39	-92.91	-229.49	4,309.51	1,695.52	1,572.29	123.22	13.760		
13,000.00	7,870.00	7,994.47	7,794.72	91.32	37.39	-93.12	-229.49	4,309.51	1,795.34	1,672.04	123.30	14.561		
13,100.00	7,870.00	7,994.87	7,795.12	91.68	37.39	-93.34	-229.49	4,309.51	1,895.17	1,771.81	123.36	15.363		
13,200.00	7,870.00	7,995.27	7,795.51	92.08	37.40	-93.56	-229.49	4,309.52	1,995.03	1,871.61	123.42	16.164		
13,300.00	7,870.00	7,995.67	7,795.92	92.52	37.40	-93.77	-229.49	4,309.52	2,094.90	1,971.42	123.48	16.966		
13,400.00	7,870.00	7,996.08	7,796.32	93.00	37.40	-93.99	-229.50	4,309.53	2,194.78	2,071.25	123.53	17.768		
13,500.00	7,870.00	7,996.48	7,796.73	93.53	37.40	-94.22	-229.50	4,309.53	2,294.67	2,171.09	123.57	18.569		
13,600.00	7,870.00	7,996.89	7,797.14	94.10	37.40	-94.44	-229.50	4,309.53	2,394.57	2,270.95	123.62	19.371		
13,700.00	7,870.00	7,997.31	7,797.55	94.72	37.40	-94.66	-229.50	4,309.54	2,494.47	2,370.82	123.66	20.173		
13,800.00	7,870.00	7,997.72	7,797.97	95.38	37.40	-94.89	-229.50	4,309.54	2,594.39	2,470.69	123.69	20.974		
13,900.00	7,870.00	7,998.14	7,798.39	96.09	37.40	-95.11	-229.50	4,309.55	2,694.31	2,570.58	123.73	21.776		
14,000.00	7,870.00	7,998.56	7,798.81	96.84	37.40	-95.34	-229.51	4,309.55	2,794.23	2,670.47	123.76	22.577		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,998.98	7,799.23	97.64	37.40	-95.57	-229.51	4,309.55	2,894.17	2,770.37	123.80	23.378		
14,200.00	7,870.00	7,999.41	7,799.66	98.48	37.41	-95.80	-229.51	4,309.56	2,994.10	2,870.27	123.83	24.179		
14,300.00	7,870.00	7,999.84	7,800.09	99.37	37.41	-96.03	-229.51	4,309.56	3,094.04	2,970.18	123.86	24.980		
14,400.00	7,870.00	8,000.27	7,800.52	100.30	37.41	-96.27	-229.51	4,309.57	3,193.98	3,070.10	123.89	25.781		
14,500.00	7,870.00	8,000.71	7,800.96	101.26	37.41	-96.50	-229.51	4,309.57	3,293.93	3,170.01	123.92	26.582		
14,600.00	7,870.00	8,001.15	7,801.39	102.27	37.41	-96.74	-229.52	4,309.57	3,393.88	3,269.94	123.94	27.382		
14,700.00	7,870.00	8,001.59	7,801.84	103.31	37.41	-96.98	-229.52	4,309.58	3,493.84	3,369.86	123.97	28.183		
14,800.00	7,870.00	8,002.04	7,802.28	104.38	37.41	-97.21	-229.52	4,309.58	3,593.79	3,469.79	124.00	28.983		
14,900.00	7,870.00	8,002.48	7,802.73	105.49	37.41	-97.46	-229.52	4,309.59	3,693.75	3,569.72	124.02	29.783		
15,000.00	7,870.00	8,002.93	7,803.18	106.63	37.41	-97.70	-229.52	4,309.59	3,793.71	3,669.66	124.05	30.582		
15,100.00	7,870.00	8,003.39	7,803.63	107.80	37.42	-97.94	-229.52	4,309.60	3,893.67	3,769.60	124.07	31.382		
15,200.00	7,870.00	8,003.85	7,804.09	109.00	37.42	-98.18	-229.53	4,309.60	3,993.63	3,869.54	124.10	32.181		
15,300.00	7,870.00	8,004.31	7,804.55	110.22	37.42	-98.43	-229.53	4,309.60	4,093.60	3,969.48	124.12	32.980		
15,400.00	7,870.00	8,004.77	7,805.02	111.47	37.42	-98.68	-229.53	4,309.61	4,193.57	4,069.42	124.15	33.779		
15,500.00	7,870.00	8,005.24	7,805.48	112.74	37.42	-98.93	-229.53	4,309.61	4,293.54	4,169.36	124.17	34.577		
15,600.00	7,870.00	8,005.71	7,805.95	114.03	37.42	-99.18	-229.53	4,309.62	4,393.51	4,269.31	124.20	35.376		
15,700.00	7,870.00	8,006.18	7,806.43	115.34	37.42	-99.43	-229.54	4,309.62	4,493.48	4,369.26	124.22	36.174		
15,800.00	7,870.00	8,006.66	7,806.91	116.68	37.42	-99.68	-229.54	4,309.63	4,593.45	4,469.21	124.24	36.972		
15,900.00	7,870.00	8,007.14	7,807.39	118.02	37.42	-99.94	-229.54	4,309.63	4,693.42	4,569.16	124.27	37.769		
16,000.00	7,870.00	8,007.63	7,807.87	119.39	37.43	-100.19	-229.54	4,309.64	4,793.40	4,669.11	124.29	38.567		
16,100.00	7,870.00	8,008.11	7,808.36	120.77	37.43	-100.45	-229.54	4,309.64	4,893.37	4,769.06	124.31	39.364		
16,200.00	7,870.00	8,008.60	7,808.85	122.17	37.43	-100.71	-229.55	4,309.65	4,993.35	4,869.01	124.34	40.160		
16,300.00	7,870.00	8,009.10	7,809.35	123.58	37.43	-100.97	-229.55	4,309.65	5,093.33	4,968.97	124.36	40.957		
16,400.00	7,870.00	8,009.60	7,809.84	125.00	37.43	-101.23	-229.55	4,309.66	5,193.31	5,068.92	124.38	41.753		
16,500.00	7,870.00	8,010.10	7,810.35	126.43	37.43	-101.49	-229.55	4,309.66	5,293.29	5,168.88	124.41	42.549		
16,600.00	7,870.00	8,010.61	7,810.85	127.88	37.43	-101.76	-229.55	4,309.67	5,393.27	5,268.84	124.43	43.344		
16,700.00	7,870.00	8,011.12	7,811.36	129.34	37.43	-102.02	-229.56	4,309.67	5,493.25	5,368.79	124.45	44.139		
16,800.00	7,870.00	8,011.63	7,811.88	130.81	37.43	-102.29	-229.56	4,309.68	5,593.23	5,468.75	124.48	44.934		
16,900.00	7,870.00	8,012.15	7,812.39	132.28	37.44	-102.56	-229.56	4,309.68	5,693.21	5,568.71	124.50	45.729		
17,000.00	7,870.00	8,012.67	7,812.91	133.77	37.44	-102.83	-229.56	4,309.69	5,793.19	5,668.67	124.52	46.523		
17,100.00	7,870.00	8,013.19	7,813.44	135.27	37.44	-103.10	-229.57	4,309.69	5,893.17	5,768.63	124.55	47.317		
17,200.00	7,870.00	8,013.72	7,813.97	136.77	37.44	-103.37	-229.57	4,309.70	5,993.16	5,868.59	124.57	48.110		
17,300.00	7,870.00	8,014.26	7,814.50	138.28	37.44	-103.65	-229.57	4,309.70	6,093.14	5,968.55	124.60	48.903		
17,400.00	7,870.00	8,014.80	7,815.04	139.80	37.44	-103.92	-229.57	4,309.71	6,193.13	6,068.51	124.62	49.696		
17,500.00	7,870.00	8,015.34	7,815.58	141.33	37.44	-104.20	-229.58	4,309.71	6,293.11	6,168.47	124.64	50.488		
17,600.00	7,870.00	8,015.88	7,816.13	142.86	37.45	-104.48	-229.58	4,309.72	6,393.10	6,268.43	124.67	51.280		
17,700.00	7,870.00	8,016.43	7,816.68	144.40	37.45	-104.76	-229.58	4,309.73	6,493.08	6,368.39	124.69	52.072		
17,800.00	7,870.00	8,016.99	7,817.23	145.95	37.45	-105.04	-229.58	4,309.73	6,593.07	6,468.35	124.72	52.863		
17,900.00	7,870.00	8,017.55	7,817.79	147.50	37.45	-105.32	-229.59	4,309.74	6,693.06	6,568.31	124.74	53.654		
18,000.00	7,870.00	8,018.11	7,818.35	149.06	37.45	-105.61	-229.59	4,309.74	6,793.04	6,668.27	124.77	54.445		
18,100.00	7,870.00	8,018.68	7,818.92	150.63	37.45	-105.89	-229.59	4,309.75	6,893.03	6,768.23	124.80	55.235		
18,200.00	7,870.00	8,019.25	7,819.49	152.20	37.45	-106.18	-229.59	4,309.75	6,993.02	6,868.20	124.82	56.024		
18,300.00	7,870.00	8,019.82	7,820.07	153.77	37.45	-106.47	-229.60	4,309.76	7,093.01	6,968.16	124.85	56.814		
18,400.00	7,870.00	8,020.40	7,820.65	155.35	37.46	-106.76	-229.60	4,309.77	7,192.99	7,068.12	124.87	57.603		
18,500.00	7,870.00	8,020.99	7,821.23	156.93	37.46	-107.05	-229.60	4,309.77	7,292.98	7,168.08	124.90	58.391		
18,600.00	7,870.00	8,021.58	7,821.82	158.52	37.46	-107.34	-229.60	4,309.78	7,392.97	7,268.05	124.93	59.179		
18,700.00	7,870.00	8,022.18	7,822.42	160.11	37.46	-107.64	-229.61	4,309.78	7,492.96	7,368.01	124.95	59.967		
18,800.00	7,870.00	8,022.77	7,823.02	161.71	37.46	-107.93	-229.61	4,309.79	7,592.95	7,467.97	124.98	60.754		
18,900.00	7,870.00	8,023.38	7,823.62	163.31	37.46	-108.23	-229.61	4,309.80	7,692.94	7,567.93	125.01	61.540		
19,000.00	7,870.00	8,023.99	7,824.23	164.91	37.46	-108.53	-229.61	4,309.80	7,792.93	7,667.89	125.03	62.327		
19,100.00	7,870.00	8,024.60	7,824.85	166.52	37.47	-108.83	-229.62	4,309.81	7,892.92	7,767.86	125.06	63.112		
19,200.00	7,870.00	8,025.22	7,825.47	168.13	37.47	-109.13	-229.62	4,309.82	7,992.91	7,867.82	125.09	63.898		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,025.85	7,826.09	169.75	37.47	-109.43	-229.62	4,309.82	8,092.90	7,967.78	125.12	64.683	
19,383.51	7,870.00	8,026.37	7,826.62	171.10	37.47	-109.68	-229.63	4,309.83	8,176.40	8,051.26	125.14	65.338	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.38	-2,069.07	2,114.20	2,958.54					
100.00	100.00	71.54	71.54	0.13	0.12	134.38	-2,068.96	2,114.00	2,958.03	2,957.78	0.25	N/A		
200.00	200.00	184.59	184.59	0.49	0.42	134.39	-2,068.40	2,113.09	2,957.09	2,956.17	0.92	3,231.104		
300.00	300.00	299.76	299.75	0.85	0.83	134.39	-2,067.41	2,112.07	2,955.86	2,954.18	1.69	1,752.742		
400.00	400.00	395.15	395.12	1.21	1.18	134.39	-2,066.42	2,111.06	2,954.38	2,951.99	2.39	1,237.985		
500.00	500.00	485.53	485.50	1.57	1.50	134.38	-2,065.30	2,110.60	2,953.15	2,950.09	3.07	963.221		
600.00	600.00	645.30	645.22	1.93	2.07	134.35	-2,061.93	2,108.95	2,950.85	2,946.86	4.00	738.610		
700.00	699.98	765.66	765.51	2.28	2.50	70.63	-2,058.30	2,106.65	2,946.79	2,942.01	4.78	616.398		
800.00	799.84	855.90	855.67	2.64	2.83	70.79	-2,055.20	2,105.14	2,941.45	2,935.99	5.46	538.969		
900.00	899.45	1,724.75	1,710.10	3.00	6.43	72.31	-1,947.79	2,018.41	2,927.81	2,918.96	8.85	330.966		
1,000.00	998.70	1,985.80	1,957.44	3.37	7.90	73.59	-1,885.35	1,963.29	2,892.66	2,882.54	10.12	285.940		
1,100.00	1,097.47	2,136.39	2,098.00	3.76	8.86	74.86	-1,844.45	1,927.98	2,852.45	2,841.41	11.03	258.520		
1,200.00	1,195.62	2,208.42	2,165.02	4.18	9.33	76.03	-1,824.75	1,910.39	2,810.77	2,799.06	11.71	240.038		
1,300.00	1,293.06	2,275.16	2,227.35	4.63	9.77	77.24	-1,807.01	1,894.48	2,769.28	2,756.88	12.40	223.396		
1,400.00	1,389.64	2,355.71	2,302.73	5.11	10.30	78.63	-1,786.30	1,875.02	2,727.67	2,714.51	13.16	207.256		
1,500.00	1,485.27	2,437.57	2,379.38	5.63	10.84	80.10	-1,765.13	1,855.61	2,685.86	2,671.89	13.97	192.278		
1,600.00	1,579.82	2,518.62	2,455.32	6.20	11.38	81.65	-1,743.70	1,837.08	2,643.96	2,629.15	14.82	178.413		
1,700.00	1,673.17	2,625.28	2,555.15	6.83	12.09	83.53	-1,715.30	1,812.51	2,601.78	2,585.98	15.79	164.726		
1,800.00	1,765.21	2,703.99	2,628.70	7.51	12.63	85.26	-1,694.41	1,793.83	2,559.35	2,542.60	16.74	152.851		
1,900.00	1,855.84	2,776.24	2,696.28	8.24	13.13	87.00	-1,675.20	1,776.95	2,517.45	2,499.71	17.74	141.927		
2,000.00	1,944.94	2,870.63	2,784.60	9.05	13.77	89.08	-1,649.82	1,755.38	2,476.24	2,457.39	18.86	131.324		
2,100.00	2,032.39	2,998.16	2,903.21	9.91	14.68	91.76	-1,614.84	1,724.24	2,434.68	2,414.56	20.12	121.003		
2,200.00	2,118.11	3,077.07	2,976.25	10.85	15.25	93.85	-1,592.37	1,704.57	2,393.33	2,371.99	21.34	112.138		
2,300.00	2,201.97	3,135.70	3,030.54	11.85	15.67	95.67	-1,575.87	1,689.79	2,353.54	2,330.94	22.60	104.124		
2,400.00	2,283.88	3,192.00	3,082.83	12.93	16.08	97.45	-1,560.54	1,675.66	2,316.10	2,292.15	23.95	96.718		
2,429.47	2,307.63	3,206.83	3,096.63	13.26	16.19	97.94	-1,556.56	1,671.95	2,305.54	2,281.18	24.36	94.661		
2,500.00	2,364.26	3,262.40	3,148.30	14.06	16.59	98.95	-1,541.44	1,658.20	2,280.85	2,255.46	25.39	89.822		
2,600.00	2,444.56	3,336.95	3,217.55	15.22	17.13	100.32	-1,520.79	1,639.89	2,247.16	2,220.28	26.89	83.574		
2,700.00	2,524.85	3,414.11	3,289.14	16.39	17.69	101.77	-1,499.45	1,620.56	2,215.21	2,186.78	28.42	77.942		
2,800.00	2,605.14	3,504.23	3,372.51	17.57	18.36	103.49	-1,474.09	1,597.57	2,184.75	2,154.75	30.00	72.822		
2,900.00	2,685.43	3,588.93	3,450.50	18.76	19.00	105.14	-1,449.41	1,575.60	2,155.52	2,123.92	31.60	68.223		
3,000.00	2,765.73	3,641.34	3,498.82	19.96	19.39	106.17	-1,434.10	1,562.28	2,128.58	2,095.41	33.17	64.165		
3,100.00	2,846.02	3,690.72	3,544.52	21.16	19.76	107.14	-1,419.90	1,550.09	2,104.37	2,069.61	34.77	60.530		
3,200.00	2,926.31	3,737.43	3,587.92	22.37	20.10	108.07	-1,406.87	1,538.79	2,083.13	2,046.76	36.37	57.281		
3,300.00	3,006.60	3,801.88	3,648.02	23.59	20.57	109.36	-1,389.34	1,523.45	2,064.79	2,026.79	37.99	54.347		
3,400.00	3,086.90	3,883.48	3,724.04	24.81	21.16	110.99	-1,366.78	1,504.20	2,048.55	2,008.91	39.64	51.683		
3,500.00	3,167.19	3,963.92	3,798.64	26.03	21.75	112.64	-1,344.42	1,484.08	2,034.34	1,993.06	41.28	49.279		
3,600.00	3,247.48	4,034.88	3,864.40	27.25	22.28	114.10	-1,324.47	1,466.39	2,022.46	1,979.54	42.92	47.126		
3,700.00	3,327.77	4,099.44	3,924.31	28.48	22.75	115.43	-1,306.19	1,450.77	2,013.12	1,968.60	44.52	45.215		
3,800.00	3,408.07	4,161.97	3,982.48	29.71	23.21	116.71	-1,288.57	1,436.03	2,006.52	1,960.42	46.11	43.518		
3,900.00	3,488.36	4,221.91	4,038.29	30.94	23.65	117.95	-1,271.94	1,421.85	2,002.79	1,955.13	47.66	42.020		
4,000.00	3,568.65	4,306.28	4,116.82	32.17	24.26	119.69	-1,248.51	1,401.81	2,001.63	1,952.42	49.21	40.674		
4,010.71	3,577.25	4,315.88	4,125.74	32.30	24.33	119.89	-1,245.79	1,399.54	2,001.62	1,952.24	49.38	40.539 CC		
4,100.00	3,648.95	4,379.75	4,185.06	33.41	24.80	121.20	-1,227.64	1,384.32	2,002.59	1,951.87	50.72	39.485 ES		
4,200.00	3,729.24	4,445.08	4,245.66	34.64	25.28	122.56	-1,209.13	1,368.42	2,006.17	1,954.00	52.18	38.448		
4,300.00	3,809.53	4,506.24	4,302.48	35.88	25.74	123.82	-1,191.99	1,353.65	2,012.59	1,959.00	53.59	37.555		
4,400.00	3,889.82	4,559.07	4,351.71	37.12	26.12	124.90	-1,177.47	1,341.12	2,021.96	1,967.03	54.94	36.806		
4,500.00	3,970.12	4,609.00	4,399.42	38.36	26.48	125.91	-1,164.19	1,329.51	2,034.44	1,978.23	56.22	36.188		
4,600.00	4,050.41	4,659.56	4,445.94	39.60	26.82	126.92	-1,151.24	1,318.11	2,050.02	1,992.59	57.43	35.694		
4,700.00	4,130.70	4,704.00	4,487.94	40.84	27.13	127.80	-1,140.34	1,308.49	2,068.64	2,010.07	58.57	35.318		
4,800.00	4,210.99	4,759.76	4,540.90	42.08	27.48	128.87	-1,127.30	1,296.90	2,090.17	2,030.51	59.66	35.035		
4,900.00	4,291.29	4,798.00	4,577.38	43.32	27.73	129.60	-1,118.77	1,289.27	2,114.55	2,053.90	60.64	34.868		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,855.31	4,632.37	44.57	28.07	130.65	-1,106.78	1,278.43	2,141.63	2,080.03	61.60	34.765		
5,100.00	4,451.87	4,905.36	4,680.70	45.81	28.36	131.55	-1,097.22	1,269.65	2,171.47	2,108.99	62.49	34.752		
5,200.00	4,532.16	4,970.82	4,744.17	47.05	28.72	132.68	-1,085.34	1,258.88	2,203.47	2,140.12	63.36	34.779		
5,300.00	4,612.46	5,026.96	4,798.78	48.30	29.01	133.63	-1,075.66	1,250.22	2,237.43	2,173.29	64.15	34.881		
5,400.00	4,692.75	5,081.00	4,851.55	49.54	29.29	134.51	-1,067.05	1,242.36	2,273.53	2,208.64	64.88	35.040		
5,500.00	4,773.04	5,140.81	4,910.13	50.79	29.57	135.45	-1,058.23	1,234.15	2,311.54	2,245.95	65.59	35.242		
5,600.00	4,853.34	5,200.80	4,969.07	52.03	29.85	136.36	-1,050.03	1,226.51	2,351.25	2,284.99	66.26	35.486		
5,700.00	4,933.63	5,260.83	5,028.35	53.28	30.10	137.21	-1,042.94	1,220.29	2,392.58	2,325.68	66.90	35.766		
5,800.00	5,013.92	5,321.88	5,088.88	54.53	30.33	138.02	-1,036.83	1,215.33	2,435.39	2,367.89	67.50	36.082		
5,900.00	5,094.21	5,385.32	5,151.96	55.77	30.56	138.82	-1,031.43	1,211.08	2,479.55	2,411.46	68.08	36.419		
6,000.00	5,174.51	5,453.67	5,220.04	57.02	30.78	139.63	-1,026.56	1,207.62	2,524.82	2,456.15	68.67	36.767		
6,100.00	5,254.80	5,528.88	5,295.09	58.27	31.00	140.46	-1,022.25	1,205.23	2,570.97	2,501.71	69.27	37.117		
6,200.00	5,335.09	5,588.19	5,354.33	59.52	31.16	141.06	-1,019.63	1,204.31	2,617.98	2,548.20	69.77	37.521		
6,300.00	5,415.38	5,648.00	5,414.11	60.76	31.31	141.65	-1,018.02	1,203.74	2,666.34	2,596.07	70.27	37.944		
6,400.00	5,495.68	5,697.03	5,463.14	62.01	31.43	142.10	-1,017.34	1,203.40	2,715.88	2,645.19	70.69	38.420		
6,500.00	5,575.97	5,763.54	5,529.64	63.26	31.58	142.70	-1,016.99	1,202.99	2,766.44	2,695.25	71.19	38.860		
6,600.00	5,656.26	5,854.06	5,620.16	64.51	31.78	143.48	-1,016.69	1,202.85	2,817.31	2,745.49	71.82	39.228		
6,700.00	5,736.55	5,937.07	5,703.17	65.76	31.97	144.18	-1,016.07	1,202.51	2,868.35	2,795.95	72.40	39.617		
6,800.00	5,816.85	6,012.03	5,778.13	67.01	32.15	144.79	-1,015.38	1,201.92	2,919.76	2,846.83	72.94	40.031		
6,900.00	5,897.14	6,091.95	5,858.04	68.26	32.34	145.44	-1,014.66	1,201.20	2,971.57	2,898.07	73.50	40.432		
7,000.00	5,977.43	6,167.40	5,933.48	69.50	32.52	146.02	-1,013.95	1,200.43	3,023.70	2,949.67	74.03	40.846		
7,100.00	6,057.72	6,242.51	6,008.58	70.75	32.71	146.60	-1,013.37	1,199.56	3,076.29	3,001.74	74.55	41.264		
7,200.00	6,138.02	6,323.27	6,089.34	72.00	32.90	147.19	-1,012.78	1,198.60	3,129.19	3,054.09	75.11	41.663		
7,300.00	6,218.31	6,408.92	6,174.98	73.25	33.12	147.80	-1,012.07	1,197.65	3,182.26	3,106.57	75.69	42.043		
7,400.00	6,298.60	6,488.04	6,254.10	74.50	33.31	148.35	-1,011.44	1,196.90	3,235.52	3,159.28	76.24	42.441		
7,500.00	6,378.90	6,570.05	6,336.10	75.75	33.51	148.89	-1,010.96	1,196.37	3,288.99	3,212.19	76.80	42.827		
7,600.00	6,459.19	6,669.74	6,435.79	77.00	33.75	149.52	-1,010.54	1,196.37	3,342.48	3,265.01	77.46	43.149		
7,700.00	6,539.48	6,743.17	6,509.21	78.25	33.93	149.96	-1,010.23	1,196.75	3,395.88	3,317.91	77.98	43.549		
7,800.00	6,619.77	6,819.78	6,585.82	79.50	34.11	150.42	-1,009.83	1,196.65	3,449.75	3,371.24	78.51	43.941		
7,900.00	6,700.07	6,901.95	6,667.99	80.75	34.32	150.90	-1,009.13	1,196.37	3,503.69	3,424.61	79.08	44.308		
8,000.00	6,780.36	6,969.91	6,735.95	82.00	34.49	151.29	-1,008.67	1,196.06	3,557.99	3,478.43	79.56	44.723		
8,100.00	6,860.65	7,062.29	6,828.32	83.25	34.73	151.80	-1,008.15	1,195.73	3,612.46	3,532.28	80.19	45.051		
8,200.00	6,940.94	7,160.41	6,926.45	84.50	34.97	152.32	-1,007.44	1,195.84	3,666.77	3,585.91	80.85	45.351		
8,300.00	7,021.24	7,243.59	7,009.62	85.76	35.18	152.75	-1,006.71	1,196.13	3,721.00	3,639.57	81.43	45.695		
8,400.00	7,101.53	7,312.90	7,078.93	87.01	35.36	153.10	-1,005.99	1,196.15	3,775.45	3,693.53	81.93	46.084		
8,500.00	7,181.82	7,390.83	7,156.85	88.26	35.57	153.49	-1,005.07	1,195.71	3,830.28	3,747.80	82.47	46.442		
8,605.60	7,266.61	7,476.45	7,242.45	89.58	35.81	153.92	-1,003.50	1,194.77	3,888.22	3,805.15	83.07	46.804		
8,650.00	7,302.60	7,507.82	7,273.81	90.13	35.90	146.45	-1,002.84	1,194.28	3,911.59	3,828.29	83.30	46.960		
8,700.00	7,343.78	7,544.76	7,310.73	90.72	36.00	137.88	-1,002.03	1,193.60	3,935.30	3,851.74	83.55	47.101		
8,750.00	7,385.32	7,587.81	7,353.77	91.28	36.12	129.31	-1,001.19	1,192.91	3,956.06	3,872.22	83.84	47.185		
8,800.00	7,426.92	7,631.28	7,397.23	91.81	36.24	120.99	-1,000.52	1,192.44	3,973.73	3,889.60	84.13	47.233		
8,850.00	7,468.27	7,719.40	7,485.34	92.29	36.46	113.51	-1,000.10	1,193.27	3,988.00	3,903.31	84.69	47.090		
8,900.00	7,509.04	7,749.10	7,515.03	92.72	36.53	106.33	-1,000.25	1,194.06	3,998.83	3,913.96	84.87	47.116		
8,950.00	7,548.93	7,774.08	7,540.01	93.10	36.59	100.00	-1,000.36	1,194.58	4,006.56	3,921.55	85.01	47.131		
9,000.00	7,587.63	7,798.16	7,564.08	93.43	36.65	94.58	-1,000.47	1,194.95	4,011.16	3,926.04	85.12	47.124		
9,050.00	7,624.85	7,819.00	7,584.92	93.71	36.69	90.06	-1,000.56	1,195.16	4,012.64	3,927.46	85.19	47.103		
9,100.00	7,660.30	7,843.44	7,609.36	93.93	36.75	86.45	-1,000.69	1,195.30	4,011.02	3,925.76	85.26	47.044		
9,150.00	7,693.72	7,864.38	7,630.30	94.10	36.80	83.60	-1,000.82	1,195.35	4,006.34	3,921.05	85.29	46.972		
9,200.00	7,724.85	7,883.88	7,649.80	94.23	36.85	81.47	-1,000.98	1,195.34	3,998.66	3,913.36	85.29	46.881		
9,250.00	7,753.45	7,901.81	7,667.73	94.30	36.89	80.00	-1,001.14	1,195.27	3,988.04	3,902.78	85.27	46.772		
9,300.00	7,779.31	7,914.00	7,679.92	94.34	36.92	79.07	-1,001.26	1,195.20	3,974.60	3,889.42	85.18	46.659		
9,350.00	7,802.23	7,933.64	7,699.55	94.33	36.97	78.83	-1,001.48	1,195.06	3,958.42	3,873.28	85.14	46.493		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,947.01	7,712.92	94.28	37.00	79.07	-1,001.65	1,194.94	3,939.64	3,854.60	85.04	46.325		
9,450.00	7,838.57	7,958.31	7,724.22	94.20	37.03	79.82	-1,001.80	1,194.82	3,918.39	3,833.46	84.93	46.139		
9,500.00	7,851.72	7,967.43	7,733.34	94.10	37.05	81.08	-1,001.94	1,194.72	3,894.82	3,810.03	84.79	45.935		
9,550.00	7,861.37	7,974.31	7,740.22	93.96	37.07	82.86	-1,002.05	1,194.64	3,869.10	3,784.46	84.64	45.712		
9,600.00	7,867.46	7,978.88	7,744.79	93.81	37.08	85.15	-1,002.12	1,194.59	3,841.40	3,756.92	84.48	45.471		
9,650.00	7,869.94	7,981.08	7,746.99	93.64	37.08	87.96	-1,002.16	1,194.56	3,811.89	3,727.58	84.31	45.210		
9,659.14	7,870.00	7,981.22	7,747.13	93.60	37.08	88.54	-1,002.16	1,194.56	3,806.32	3,722.04	84.29	45.160		
9,700.00	7,870.00	7,981.68	7,747.59	93.46	37.08	88.54	-1,002.17	1,194.55	3,781.43	3,697.28	84.15	44.938		
9,800.00	7,870.00	7,982.82	7,748.73	93.11	37.09	88.57	-1,002.19	1,194.54	3,721.69	3,637.88	83.82	44.403		
9,900.00	7,870.00	7,983.97	7,749.88	92.77	37.09	88.59	-1,002.21	1,194.52	3,663.72	3,580.22	83.50	43.878		
10,000.00	7,870.00	7,985.14	7,751.04	92.46	37.09	88.61	-1,002.23	1,194.51	3,607.58	3,524.38	83.19	43.364		
10,100.00	7,870.00	7,986.32	7,752.22	92.16	37.10	88.63	-1,002.25	1,194.49	3,553.37	3,470.46	82.91	42.860		
10,200.00	7,870.00	7,987.52	7,753.42	91.87	37.10	88.66	-1,002.27	1,194.48	3,501.17	3,418.53	82.64	42.365		
10,300.00	7,870.00	7,988.73	7,754.64	91.60	37.10	88.68	-1,002.29	1,194.46	3,451.09	3,368.68	82.40	41.880		
10,400.00	7,870.00	7,989.96	7,755.87	91.34	37.10	88.70	-1,002.31	1,194.44	3,403.20	3,321.01	82.19	41.405		
10,500.00	7,870.00	7,991.21	7,757.11	91.11	37.11	88.73	-1,002.33	1,194.43	3,357.62	3,275.60	82.02	40.938		
10,600.00	7,870.00	7,992.47	7,758.38	90.88	37.11	88.75	-1,002.36	1,194.41	3,314.42	3,232.54	81.88	40.480		
10,700.00	7,870.00	7,993.75	7,759.66	90.67	37.11	88.77	-1,002.38	1,194.39	3,273.70	3,191.93	81.78	40.031		
10,800.00	7,870.00	7,995.05	7,760.96	90.48	37.12	88.80	-1,002.40	1,194.37	3,235.57	3,153.84	81.73	39.590		
10,900.00	7,870.00	7,996.37	7,762.28	90.31	37.12	88.82	-1,002.43	1,194.36	3,200.11	3,118.39	81.72	39.160		
11,000.00	7,870.00	7,997.71	7,763.61	90.15	37.12	88.85	-1,002.45	1,194.34	3,167.40	3,085.64	81.76	38.739		
11,100.00	7,870.00	7,999.06	7,764.97	90.00	37.13	88.88	-1,002.48	1,194.32	3,137.55	3,055.69	81.86	38.329		
11,200.00	7,870.00	8,000.44	7,766.34	89.88	37.13	88.90	-1,002.50	1,194.30	3,110.62	3,028.61	82.01	37.931		
11,300.00	7,870.00	8,001.83	7,767.74	89.77	37.13	88.93	-1,002.53	1,194.28	3,086.70	3,004.49	82.21	37.547		
11,400.00	7,870.00	8,003.25	7,769.15	89.68	37.14	88.96	-1,002.55	1,194.26	3,065.85	2,983.39	82.46	37.178		
11,500.00	7,870.00	8,008.00	7,773.90	89.60	37.15	89.05	-1,002.64	1,194.19	3,048.15	2,965.34	82.81	36.810		
11,600.00	7,870.00	8,008.00	7,773.90	89.55	37.15	89.05	-1,002.64	1,194.19	3,033.63	2,950.48	83.15	36.486		
11,700.00	7,870.00	8,008.00	7,773.90	89.52	37.15	89.05	-1,002.64	1,194.19	3,022.36	2,938.82	83.53	36.182		
11,800.00	7,870.00	8,010.07	7,775.97	89.50	37.15	89.09	-1,002.68	1,194.16	3,014.36	2,930.38	83.98	35.893		
11,900.00	7,870.00	8,012.83	7,778.73	89.51	37.16	89.14	-1,002.74	1,194.12	3,009.66	2,925.18	84.48	35.626		
11,991.54	7,870.00	8,015.34	7,781.23	89.53	37.17	89.19	-1,002.78	1,194.08	3,008.27	2,923.31	84.96	35.407		
12,000.00	7,870.00	8,015.57	7,781.47	89.54	37.17	89.19	-1,002.79	1,194.08	3,008.28	2,923.27	85.01	35.389		
12,100.00	7,870.00	8,018.28	7,784.18	89.59	37.17	89.24	-1,002.84	1,194.04	3,010.22	2,924.66	85.56	35.181		
12,200.00	7,870.00	8,020.97	7,786.87	89.66	37.18	89.29	-1,002.89	1,194.00	3,015.48	2,929.34	86.14	35.006		
12,300.00	7,870.00	8,023.64	7,789.53	89.77	37.19	89.34	-1,002.94	1,193.96	3,024.04	2,937.30	86.74	34.864		
12,400.00	7,870.00	8,026.28	7,792.18	89.89	37.19	89.39	-1,002.99	1,193.93	3,035.86	2,948.51	87.35	34.756		
12,500.00	7,870.00	8,028.91	7,794.81	90.05	37.20	89.44	-1,003.04	1,193.89	3,050.92	2,962.95	87.96	34.684		
12,600.00	7,870.00	8,031.51	7,797.41	90.24	37.20	89.49	-1,003.09	1,193.86	3,069.16	2,980.58	88.58	34.648		
12,700.00	7,870.00	8,034.10	7,799.99	90.46	37.21	89.54	-1,003.14	1,193.83	3,090.53	3,001.33	89.20	34.647 SF		
12,800.00	7,870.00	8,036.66	7,802.55	90.71	37.22	89.59	-1,003.18	1,193.80	3,114.96	3,025.15	89.81	34.683		
12,900.00	7,870.00	8,039.20	7,805.09	90.99	37.22	89.64	-1,003.23	1,193.77	3,142.38	3,051.97	90.42	34.754		
13,000.00	7,870.00	8,041.72	7,807.61	91.32	37.23	89.69	-1,003.28	1,193.74	3,172.72	3,081.71	91.01	34.861		
13,100.00	7,870.00	8,044.22	7,810.11	91.68	37.24	89.74	-1,003.32	1,193.71	3,205.90	3,114.30	91.59	35.002		
13,200.00	7,870.00	8,046.70	7,812.59	92.08	37.24	89.78	-1,003.37	1,193.68	3,241.81	3,149.65	92.16	35.176		
13,300.00	7,870.00	8,049.16	7,815.05	92.52	37.25	89.83	-1,003.41	1,193.65	3,280.38	3,187.68	92.71	35.384		
13,400.00	7,870.00	8,051.61	7,817.50	93.00	37.25	89.88	-1,003.46	1,193.63	3,321.52	3,228.28	93.24	35.624		
13,500.00	7,870.00	8,054.03	7,819.92	93.53	37.26	89.92	-1,003.50	1,193.60	3,365.12	3,271.37	93.75	35.894		
13,600.00	7,870.00	8,056.43	7,822.32	94.10	37.26	89.97	-1,003.54	1,193.58	3,411.10	3,316.85	94.25	36.194		
13,700.00	7,870.00	8,058.82	7,824.71	94.72	37.27	90.01	-1,003.59	1,193.55	3,459.35	3,364.63	94.72	36.522		
13,800.00	7,870.00	8,061.19	7,827.07	95.38	37.28	90.06	-1,003.63	1,193.53	3,509.79	3,414.62	95.17	36.877		
13,900.00	7,870.00	8,063.54	7,829.42	96.09	37.28	90.10	-1,003.67	1,193.51	3,562.33	3,466.72	95.61	37.259		
14,000.00	7,870.00	8,065.87	7,831.75	96.84	37.29	90.15	-1,003.71	1,193.48	3,616.86	3,520.83	96.03	37.666		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 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		
14,100.00	7,870.00	8,068.18	7,834.07	97.64	37.29	90.19	-1,003.75	1,193.46	3,673.31	3,576.88	96.42	38.096		
14,200.00	7,870.00	8,070.47	7,836.36	98.48	37.30	90.24	-1,003.79	1,193.44	3,731.58	3,634.78	96.80	38.549		
14,300.00	7,870.00	8,072.75	7,838.64	99.37	37.30	90.28	-1,003.83	1,193.42	3,791.59	3,694.43	97.16	39.024		
14,400.00	7,870.00	8,075.01	7,840.90	100.30	37.31	90.32	-1,003.87	1,193.40	3,853.26	3,755.76	97.50	39.519		
14,500.00	7,870.00	8,077.26	7,843.14	101.26	37.31	90.36	-1,003.91	1,193.39	3,916.52	3,818.69	97.83	40.033		
14,600.00	7,870.00	8,079.48	7,845.37	102.27	37.32	90.41	-1,003.95	1,193.37	3,981.28	3,883.14	98.14	40.567		
14,700.00	7,870.00	8,081.69	7,847.58	103.31	37.33	90.45	-1,003.99	1,193.35	4,047.47	3,949.04	98.44	41.117		
14,800.00	7,870.00	8,083.89	7,849.77	104.38	37.33	90.49	-1,004.02	1,193.33	4,115.03	4,016.31	98.72	41.685		
14,900.00	7,870.00	8,086.07	7,851.95	105.49	37.34	90.53	-1,004.06	1,193.32	4,183.89	4,084.90	98.98	42.268		
15,000.00	7,870.00	8,088.23	7,854.11	106.63	37.34	90.57	-1,004.10	1,193.30	4,253.98	4,154.74	99.24	42.867		
15,100.00	7,870.00	8,090.37	7,856.26	107.80	37.35	90.61	-1,004.13	1,193.29	4,325.25	4,225.77	99.48	43.479		
15,200.00	7,870.00	8,092.50	7,858.38	109.00	37.35	90.65	-1,004.17	1,193.27	4,397.64	4,297.93	99.71	44.106		
15,300.00	7,870.00	8,094.62	7,860.50	110.22	37.36	90.69	-1,004.21	1,193.26	4,471.09	4,371.16	99.92	44.745		
15,400.00	7,870.00	8,096.71	7,862.60	111.47	37.36	90.73	-1,004.24	1,193.25	4,545.55	4,445.42	100.13	45.396		
15,500.00	7,870.00	8,098.80	7,864.68	112.74	37.37	90.77	-1,004.28	1,193.23	4,620.98	4,520.65	100.33	46.059		
15,600.00	7,870.00	8,100.87	7,866.75	114.03	37.37	90.81	-1,004.31	1,193.22	4,697.32	4,596.80	100.51	46.733		
15,700.00	7,870.00	8,102.92	7,868.80	115.34	37.38	90.85	-1,004.34	1,193.21	4,774.53	4,673.84	100.69	47.418		
15,800.00	7,870.00	8,105.33	7,871.21	116.68	37.38	90.90	-1,004.38	1,193.20	4,852.58	4,751.72	100.86	48.111		
15,900.00	7,870.00	8,107.72	7,873.60	118.02	37.39	90.94	-1,004.42	1,193.18	4,931.42	4,830.40	101.02	48.815		
16,000.00	7,870.00	8,110.08	7,875.96	119.39	37.39	90.99	-1,004.46	1,193.17	5,011.02	4,909.84	101.18	49.527		
16,100.00	7,870.00	8,112.41	7,878.29	120.77	37.40	91.03	-1,004.50	1,193.16	5,091.33	4,990.00	101.33	50.247		
16,200.00	7,870.00	8,114.71	7,880.59	122.17	37.40	91.08	-1,004.54	1,193.16	5,172.33	5,070.86	101.47	50.976		
16,300.00	7,870.00	8,116.98	7,882.86	123.58	37.41	91.12	-1,004.57	1,193.15	5,253.98	5,152.38	101.60	51.712		
16,400.00	7,870.00	8,119.22	7,885.10	125.00	37.42	91.16	-1,004.61	1,193.14	5,336.26	5,234.53	101.73	52.456		
16,500.00	7,870.00	8,121.43	7,887.31	126.43	37.42	91.21	-1,004.64	1,193.13	5,419.13	5,317.28	101.85	53.207		
16,600.00	7,870.00	8,123.62	7,889.49	127.88	37.43	91.25	-1,004.68	1,193.13	5,502.57	5,400.60	101.97	53.964		
16,700.00	7,870.00	8,125.77	7,891.65	129.34	37.43	91.29	-1,004.71	1,193.12	5,586.56	5,484.48	102.08	54.728		
16,800.00	7,870.00	8,127.90	7,893.78	130.81	37.44	91.33	-1,004.74	1,193.12	5,671.06	5,568.87	102.19	55.497		
16,900.00	7,870.00	8,130.01	7,895.88	132.28	37.44	91.37	-1,004.78	1,193.12	5,756.06	5,653.77	102.29	56.272		
17,000.00	7,870.00	8,132.09	7,897.96	133.77	37.45	91.41	-1,004.81	1,193.12	5,841.53	5,739.14	102.39	57.053		
17,100.00	7,870.00	8,134.14	7,900.02	135.27	37.45	91.45	-1,004.84	1,193.11	5,927.46	5,824.98	102.48	57.838		
17,200.00	7,870.00	8,136.17	7,902.04	136.77	37.46	91.49	-1,004.87	1,193.11	6,013.82	5,911.25	102.57	58.629		
17,300.00	7,870.00	8,138.17	7,904.05	138.28	37.46	91.52	-1,004.90	1,193.11	6,100.60	5,997.94	102.66	59.424		
17,400.00	7,870.00	8,140.15	7,906.02	139.80	37.46	91.56	-1,004.93	1,193.11	6,187.78	6,085.03	102.75	60.223		
17,500.00	7,870.00	8,142.10	7,907.98	141.33	37.47	91.60	-1,004.96	1,193.12	6,275.34	6,172.51	102.83	61.027		
17,600.00	7,870.00	8,144.04	7,909.91	142.86	37.47	91.64	-1,004.99	1,193.12	6,363.26	6,260.35	102.91	61.834		
17,700.00	7,870.00	8,145.95	7,911.82	144.40	37.48	91.67	-1,005.01	1,193.12	6,451.54	6,348.56	102.98	62.646		
17,800.00	7,870.00	8,147.83	7,913.71	145.95	37.48	91.71	-1,005.04	1,193.12	6,540.15	6,437.10	103.06	63.461		
17,900.00	7,870.00	8,149.70	7,915.57	147.50	37.49	91.74	-1,005.07	1,193.13	6,629.09	6,525.96	103.13	64.279		
18,000.00	7,870.00	8,151.54	7,917.42	149.06	37.49	91.78	-1,005.10	1,193.13	6,718.34	6,615.14	103.20	65.101		
18,100.00	7,870.00	8,153.36	7,919.24	150.63	37.50	91.81	-1,005.12	1,193.14	6,807.89	6,704.62	103.27	65.925		
18,200.00	7,870.00	8,155.16	7,921.04	152.20	37.50	91.85	-1,005.15	1,193.14	6,897.72	6,794.39	103.33	66.753		
18,300.00	7,870.00	8,156.95	7,922.82	153.77	37.50	91.88	-1,005.17	1,193.15	6,987.83	6,884.43	103.40	67.583		
18,400.00	7,870.00	8,158.71	7,924.58	155.35	37.51	91.91	-1,005.20	1,193.15	7,078.20	6,974.74	103.46	68.416		
18,500.00	7,870.00	8,160.45	7,926.32	156.93	37.51	91.95	-1,005.22	1,193.16	7,168.83	7,065.31	103.52	69.251		
18,600.00	7,870.00	8,162.17	7,928.04	158.52	37.52	91.98	-1,005.25	1,193.17	7,259.71	7,156.13	103.58	70.089		
18,700.00	7,870.00	8,163.87	7,929.74	160.11	37.52	92.01	-1,005.27	1,193.17	7,350.82	7,247.18	103.64	70.929		
18,800.00	7,870.00	8,165.55	7,931.43	161.71	37.52	92.04	-1,005.29	1,193.18	7,442.16	7,338.47	103.69	71.772		
18,900.00	7,870.00	8,167.22	7,933.09	163.31	37.53	92.08	-1,005.32	1,193.19	7,533.72	7,429.97	103.75	72.616		
19,000.00	7,870.00	8,168.87	7,934.74	164.91	37.53	92.11	-1,005.34	1,193.20	7,625.49	7,521.69	103.80	73.462		
19,100.00	7,870.00	8,170.49	7,936.37	166.52	37.54	92.14	-1,005.36	1,193.20	7,717.47	7,613.61	103.86	74.310		
19,200.00	7,870.00	8,172.10	7,937.98	168.13	37.54	92.17	-1,005.38	1,193.21	7,809.64	7,705.73	103.91	75.159		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,173.70	7,939.57	169.75	37.54	92.20	-1,005.40	1,193.22	7,902.00	7,798.04	103.96	76.010	
19,383.51	7,870.00	8,175.02	7,940.89	171.10	37.55	92.22	-1,005.42	1,193.23	7,979.27	7,875.27	104.00	76.722	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.55	-2,072.71	2,105.80	2,955.10					
100.00	100.00	62.68	62.68	0.13	0.10	134.55	-2,072.60	2,105.78	2,954.66	2,954.43	0.24	N/A		
200.00	200.00	166.59	166.59	0.49	0.36	134.54	-2,072.02	2,105.68	2,954.20	2,953.35	0.85	3,460.967		
300.00	300.00	265.52	265.52	0.85	0.72	134.53	-2,071.62	2,105.59	2,953.85	2,952.28	1.57	1,885.605		
400.00	400.00	372.78	372.78	1.21	1.10	134.53	-2,071.12	2,105.33	2,953.35	2,951.04	2.31	1,279.551		
500.00	500.00	609.18	609.03	1.57	1.94	134.60	-2,069.16	2,098.46	2,951.10	2,947.59	3.51	840.802		
600.00	600.00	730.32	729.71	1.93	2.39	134.74	-2,069.43	2,088.09	2,945.08	2,940.78	4.30	684.349		
700.00	699.98	818.67	817.57	2.28	2.72	71.22	-2,071.38	2,079.00	2,938.75	2,933.77	4.98	589.768		
800.00	799.84	894.92	893.27	2.64	3.01	71.59	-2,074.39	2,070.32	2,931.84	2,926.21	5.62	521.266		
900.00	899.45	961.66	959.38	3.00	3.27	72.00	-2,078.48	2,062.23	2,924.90	2,918.65	6.24	468.485		
1,000.00	998.70	1,025.97	1,022.92	3.37	3.53	72.46	-2,083.90	2,053.92	2,918.12	2,911.25	6.87	424.624		
1,100.00	1,097.47	1,077.82	1,074.01	3.76	3.75	72.90	-2,089.38	2,046.96	2,911.75	2,904.28	7.47	389.622		
1,200.00	1,195.62	1,139.00	1,134.18	4.18	4.00	73.45	-2,097.15	2,039.06	2,906.32	2,898.18	8.14	357.048		
1,300.00	1,293.06	1,169.35	1,163.97	4.63	4.13	73.77	-2,101.52	2,035.30	2,901.71	2,893.00	8.71	333.309		
1,400.00	1,389.64	1,213.10	1,206.88	5.11	4.32	74.21	-2,108.39	2,030.14	2,898.25	2,888.89	9.36	309.523		
1,500.00	1,485.27	1,252.96	1,245.89	5.63	4.49	74.62	-2,115.25	2,025.71	2,895.99	2,885.94	10.04	288.343		
1,600.00	1,579.82	1,299.99	1,291.81	6.20	4.69	75.11	-2,124.10	2,020.79	2,894.99	2,884.19	10.80	267.973		
1,641.29	1,618.52	1,320.48	1,311.79	6.46	4.78	75.32	-2,128.13	2,018.70	2,894.90	2,883.76	11.14	259.825		
1,700.00	1,673.17	1,338.00	1,328.86	6.83	4.86	75.51	-2,131.66	2,016.95	2,895.13	2,883.56	11.57	250.241		
1,800.00	1,765.21	1,388.95	1,378.39	7.51	5.09	76.05	-2,142.54	2,011.97	2,896.52	2,884.07	12.46	232.528		
1,900.00	1,855.84	1,433.00	1,421.04	8.24	5.29	76.52	-2,152.73	2,007.81	2,899.43	2,886.07	13.37	216.939		
2,000.00	1,944.94	1,463.65	1,450.62	9.05	5.44	76.81	-2,160.26	2,005.05	2,903.93	2,889.67	14.27	203.555		
2,100.00	2,032.39	1,496.95	1,482.67	9.91	5.60	77.12	-2,168.85	2,002.26	2,910.19	2,894.95	15.24	190.966		
2,200.00	2,118.11	1,527.00	1,511.51	10.85	5.74	77.37	-2,176.96	1,999.92	2,918.26	2,902.01	16.25	179.539		
2,300.00	2,201.97	1,560.67	1,543.74	11.85	5.91	77.65	-2,186.42	1,997.56	2,928.19	2,910.84	17.35	168.787		
2,400.00	2,283.88	1,591.18	1,572.87	12.93	6.06	77.85	-2,195.30	1,995.68	2,940.02	2,921.54	18.48	159.058		
2,429.47	2,307.63	1,599.96	1,581.24	13.26	6.11	77.90	-2,197.90	1,995.19	2,943.88	2,925.05	18.83	156.362		
2,500.00	2,364.26	1,622.00	1,602.22	14.06	6.22	78.23	-2,204.55	1,994.04	2,953.97	2,934.31	19.66	150.220		
2,600.00	2,444.56	1,677.04	1,654.59	15.22	6.50	79.03	-2,221.30	1,991.61	2,970.25	2,949.26	20.99	141.479		
2,700.00	2,524.85	1,762.54	1,736.09	16.39	6.94	80.26	-2,246.99	1,988.63	2,988.41	2,965.89	22.51	132.757		
2,800.00	2,605.14	1,843.22	1,813.27	17.57	7.36	81.40	-2,270.33	1,985.77	3,007.49	2,983.49	24.00	125.334		
2,900.00	2,685.43	1,893.50	1,861.37	18.76	7.63	82.11	-2,284.89	1,984.37	3,028.53	3,003.24	25.29	119.752		
3,000.00	2,765.73	1,995.05	1,958.70	19.96	8.17	83.50	-2,313.79	1,982.46	3,051.14	3,024.25	26.89	113.481		
3,100.00	2,846.02	2,059.33	2,020.48	21.16	8.51	84.37	-2,331.53	1,981.61	3,074.82	3,046.58	28.24	108.866		
3,200.00	2,926.31	2,124.22	2,082.81	22.37	8.86	85.24	-2,349.54	1,980.82	3,100.14	3,070.55	29.60	104.749		
3,300.00	3,006.60	2,190.36	2,146.24	23.59	9.22	86.13	-2,368.24	1,979.15	3,127.00	3,096.05	30.94	101.051		
3,400.00	3,086.90	2,231.49	2,185.60	24.81	9.45	86.69	-2,380.12	1,977.99	3,155.66	3,123.54	32.12	98.249		
3,500.00	3,167.19	2,282.00	2,233.84	26.03	9.73	87.36	-2,395.03	1,976.99	3,186.32	3,152.98	33.34	95.584		
3,600.00	3,247.48	2,360.00	2,311.08	27.25	10.00	88.40	-2,418.17	1,976.89	3,218.14	3,178.35	34.79	92.878		
3,700.00	3,327.77	2,430.83	2,376.50	28.48	10.56	89.26	-2,437.40	1,977.31	3,251.05	3,215.03	36.02	90.251		
3,800.00	3,408.07	2,481.99	2,425.45	29.71	10.85	89.91	-2,452.29	1,977.25	3,285.69	3,248.50	37.19	88.359		
3,900.00	3,488.36	2,568.07	2,507.80	30.94	11.34	90.99	-2,477.34	1,976.82	3,321.50	3,282.93	38.57	86.107		
4,000.00	3,568.65	2,632.45	2,569.47	32.17	11.70	91.77	-2,495.84	1,977.24	3,358.38	3,318.58	39.79	84.394		
4,100.00	3,648.95	2,839.85	2,768.85	33.41	12.87	94.28	-2,552.61	1,974.92	3,395.60	3,353.63	41.98	80.895		
4,200.00	3,729.24	2,889.66	2,816.84	34.64	13.15	94.91	-2,565.58	1,971.86	3,432.11	3,389.03	43.08	79.666		
4,300.00	3,809.53	2,940.00	2,865.31	35.88	13.44	95.52	-2,578.94	1,969.56	3,470.24	3,426.07	44.17	78.562		
4,400.00	3,889.82	2,997.16	2,920.36	37.12	13.76	96.20	-2,594.24	1,967.84	3,509.77	3,464.49	45.29	77.501		
4,500.00	3,970.12	3,069.33	2,989.90	38.36	14.17	97.03	-2,613.51	1,966.57	3,550.40	3,503.90	46.49	76.365		
4,600.00	4,050.41	3,140.53	3,058.49	39.60	14.58	97.86	-2,632.47	1,964.20	3,591.87	3,544.20	47.67	75.345		
4,700.00	4,130.70	3,186.39	3,102.59	40.84	14.85	98.39	-2,644.88	1,962.10	3,634.58	3,585.92	48.66	74.696		
4,800.00	4,210.99	3,238.76	3,152.84	42.08	15.15	99.00	-2,659.37	1,959.34	3,678.67	3,629.00	49.67	74.061		
4,900.00	4,291.29	3,329.23	3,239.69	43.32	15.68	100.03	-2,684.21	1,954.53	3,723.59	3,672.65	50.95	73.090		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	3,390.86	3,298.92	44.57	16.04	100.72	-2,701.02	1,951.72	3,769.30	3,717.31	51.99	72.494		
5,100.00	4,451.87	3,442.50	3,348.54	45.81	16.35	101.29	-2,715.18	1,949.77	3,816.01	3,763.05	52.96	72.060		
5,200.00	4,532.16	3,487.27	3,391.49	47.05	16.61	101.77	-2,727.71	1,948.18	3,863.93	3,810.08	53.85	71.754		
5,300.00	4,612.46	3,552.85	3,454.34	48.30	17.00	102.47	-2,746.36	1,946.11	3,912.95	3,858.06	54.89	71.291		
5,400.00	4,692.75	3,629.94	3,528.26	49.54	17.45	103.26	-2,768.12	1,944.50	3,962.55	3,906.55	56.00	70.755		
5,500.00	4,773.04	3,698.88	3,594.41	50.79	17.86	103.95	-2,787.57	1,943.70	4,012.81	3,955.76	57.05	70.340		
5,600.00	4,853.34	3,750.99	3,644.36	52.03	18.16	104.47	-2,802.37	1,943.08	4,063.88	4,005.93	57.95	70.126		
5,700.00	4,933.63	3,790.00	3,681.73	53.28	18.40	104.85	-2,813.57	1,942.38	4,115.91	4,057.17	58.73	70.076		
5,800.00	5,013.92	3,841.51	3,730.98	54.53	18.71	105.36	-2,828.58	1,940.85	4,168.91	4,109.31	59.60	69.943		
5,900.00	5,094.21	5,019.01	4,886.43	55.77	24.14	115.68	-3,028.08	1,912.29	4,217.15	4,149.85	67.30	62.662		
6,000.00	5,174.51	5,117.35	4,984.70	57.02	24.44	116.46	-3,031.50	1,910.97	4,252.21	4,183.79	68.42	62.151		
6,100.00	5,254.80	5,211.02	5,078.32	58.27	24.72	117.18	-3,034.41	1,909.92	4,287.54	4,218.04	69.51	61.686		
6,200.00	5,335.09	5,268.66	5,135.92	59.52	24.89	117.62	-3,036.25	1,909.28	4,323.54	4,253.09	70.44	61.375		
6,300.00	5,415.38	5,430.33	5,297.53	60.76	25.37	118.82	-3,040.46	1,908.47	4,359.62	4,287.84	71.78	60.740		
6,400.00	5,495.68	5,503.41	5,370.60	62.01	25.58	119.35	-3,041.79	1,908.64	4,395.48	4,322.72	72.76	60.414		
6,500.00	5,575.97	5,589.89	5,457.07	63.26	25.83	119.97	-3,043.34	1,908.88	4,431.85	4,358.07	73.78	60.069		
6,600.00	5,656.26	5,675.02	5,542.19	64.51	26.07	120.57	-3,044.74	1,909.04	4,468.62	4,393.84	74.79	59.752		
6,700.00	5,736.55	5,769.43	5,636.58	65.76	26.35	121.23	-3,046.07	1,909.13	4,505.73	4,429.91	75.82	59.428		
6,800.00	5,816.85	5,876.99	5,744.13	67.01	26.65	121.97	-3,047.12	1,909.42	4,542.96	4,466.07	76.89	59.084		
6,900.00	5,897.14	5,989.07	5,856.21	68.26	26.95	122.73	-3,047.45	1,909.70	4,580.13	4,502.18	77.96	58.752		
7,000.00	5,977.43	6,084.08	5,951.23	69.50	27.19	123.37	-3,047.05	1,909.51	4,617.28	4,538.34	78.94	58.491		
7,100.00	6,057.72	6,150.36	6,017.50	70.75	27.36	123.82	-3,046.76	1,909.09	4,654.98	4,575.17	79.81	58.326		
7,200.00	6,138.02	6,215.29	6,082.43	72.00	27.53	124.25	-3,046.65	1,908.55	4,693.39	4,612.72	80.67	58.181		
7,300.00	6,218.31	6,296.41	6,163.55	73.25	27.75	124.78	-3,046.74	1,907.97	4,732.44	4,650.87	81.58	58.012		
7,400.00	6,298.60	6,417.30	6,284.43	74.50	28.06	125.55	-3,046.51	1,907.90	4,771.60	4,688.98	82.62	57.755		
7,500.00	6,378.90	6,503.68	6,370.81	75.75	28.28	126.10	-3,045.75	1,907.77	4,810.62	4,727.09	83.52	57.597		
7,600.00	6,459.19	6,574.00	6,441.12	77.00	28.46	126.55	-3,045.01	1,907.02	4,850.14	4,765.78	84.36	57.496		
7,700.00	6,539.48	6,638.94	6,506.04	78.25	28.63	126.96	-3,044.28	1,905.53	4,890.30	4,805.14	85.16	57.427		
7,800.00	6,619.77	6,699.92	6,566.99	79.50	28.80	127.36	-3,043.66	1,903.65	4,931.15	4,845.22	85.93	57.386		
7,900.00	6,700.07	6,759.59	6,626.62	80.75	28.96	127.74	-3,043.20	1,901.52	4,972.73	4,886.04	86.69	57.365		
8,000.00	6,780.36	6,818.55	6,685.54	82.00	29.13	128.11	-3,042.94	1,899.31	5,015.02	4,927.60	87.43	57.362		
8,100.00	6,860.65	6,887.23	6,754.18	83.25	29.33	128.54	-3,042.95	1,897.00	5,057.96	4,969.75	88.20	57.344		
8,200.00	6,940.94	6,953.38	6,820.30	84.50	29.52	128.95	-3,043.24	1,895.19	5,101.44	5,012.48	88.97	57.341		
8,300.00	7,021.24	7,039.80	6,906.67	85.76	29.78	129.47	-3,043.69	1,892.44	5,145.49	5,055.69	89.80	57.299		
8,400.00	7,101.53	7,214.70	7,081.41	87.01	30.27	130.53	-3,041.55	1,885.21	5,188.74	5,097.80	90.95	57.053		
8,500.00	7,181.82	7,275.90	7,142.56	88.26	30.44	130.90	-3,040.56	1,883.13	5,232.01	5,140.36	91.66	57.082		
8,605.60	7,266.61	7,379.53	7,246.18	89.58	30.72	131.48	-3,039.76	1,881.76	5,278.14	5,185.57	92.57	57.019		
8,650.00	7,302.60	7,406.93	7,273.58	90.13	30.80	125.15	-3,039.65	1,881.81	5,296.09	5,203.20	92.90	57.012		
8,700.00	7,343.78	7,435.60	7,302.25	90.72	30.88	117.64	-3,039.57	1,881.74	5,312.88	5,219.61	93.26	56.966		
8,750.00	7,385.32	7,464.36	7,331.01	91.28	30.96	109.94	-3,039.50	1,881.56	5,325.93	5,232.28	93.64	56.876		
8,800.00	7,426.92	7,495.96	7,362.61	91.81	31.05	102.34	-3,039.47	1,881.25	5,335.16	5,241.13	94.03	56.736		
8,850.00	7,468.27	7,530.38	7,397.02	92.29	31.15	95.14	-3,039.46	1,880.87	5,340.51	5,246.06	94.44	56.549		
8,900.00	7,509.04	7,590.00	7,493.89	92.72	31.22	88.97	-3,039.18	1,880.41	5,341.66	5,242.42	94.76	56.545		
8,950.00	7,548.93	7,697.68	7,564.32	93.10	31.63	83.44	-3,038.62	1,880.83	5,338.48	5,242.83	95.65	55.810		
9,000.00	7,587.63	7,716.09	7,582.73	93.43	31.68	78.46	-3,038.53	1,881.05	5,331.43	5,235.46	95.97	55.553		
9,050.00	7,624.85	7,733.85	7,600.49	93.71	31.73	74.33	-3,038.50	1,881.26	5,320.66	5,224.39	96.27	55.271		
9,100.00	7,660.30	7,761.00	7,627.63	93.93	31.80	71.12	-3,038.60	1,881.55	5,306.28	5,209.70	96.58	54.940		
9,150.00	7,693.72	7,761.00	7,627.63	94.10	31.80	68.48	-3,038.60	1,881.55	5,288.33	5,191.57	96.76	54.654		
9,200.00	7,724.85	7,783.03	7,649.66	94.23	31.87	66.75	-3,038.79	1,881.78	5,266.97	5,169.95	97.02	54.288		
9,250.00	7,753.45	7,797.69	7,664.32	94.30	31.92	65.66	-3,038.97	1,881.94	5,242.34	5,145.12	97.22	53.920		
9,300.00	7,779.31	7,811.09	7,677.72	94.34	31.96	65.25	-3,039.18	1,882.07	5,214.60	5,117.19	97.40	53.537		
9,350.00	7,802.23	7,823.13	7,689.75	94.33	31.99	65.53	-3,039.40	1,882.20	5,183.92	5,086.37	97.55	53.139		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,833.71	7,700.32	94.28	32.03	66.53	-3,039.61	1,882.31	5,150.52	5,052.84	97.68	52.728		
9,450.00	7,838.57	7,855.00	7,721.61	94.20	32.09	68.50	-3,040.12	1,882.53	5,114.65	5,016.80	97.85	52.271		
9,500.00	7,851.72	7,855.00	7,721.61	94.10	32.09	71.09	-3,040.12	1,882.53	5,076.46	4,978.56	97.89	51.857		
9,550.00	7,861.37	7,856.22	7,722.83	93.96	32.10	74.76	-3,040.15	1,882.54	5,036.28	4,938.35	97.93	51.426		
9,600.00	7,867.46	7,862.61	7,729.22	93.81	32.12	79.82	-3,040.32	1,882.60	4,994.37	4,896.38	97.99	50.967		
9,650.00	7,869.94	7,865.88	7,732.49	93.64	32.13	86.37	-3,040.40	1,882.64	4,951.02	4,852.99	98.03	50.505		
9,659.14	7,870.00	7,866.14	7,732.75	93.60	32.13	87.74	-3,040.41	1,882.64	4,942.96	4,844.93	98.04	50.420		
9,700.00	7,870.00	7,867.07	7,733.67	93.46	32.13	87.76	-3,040.43	1,882.65	4,906.89	4,808.84	98.06	50.042		
9,800.00	7,870.00	7,869.34	7,735.95	93.11	32.14	87.82	-3,040.49	1,882.67	4,818.94	4,720.83	98.11	49.119		
9,900.00	7,870.00	7,871.62	7,738.23	92.77	32.15	87.88	-3,040.55	1,882.69	4,731.47	4,633.31	98.16	48.199		
10,000.00	7,870.00	7,873.92	7,740.52	92.46	32.15	87.93	-3,040.62	1,882.72	4,644.50	4,546.28	98.23	47.284		
10,100.00	7,870.00	7,876.22	7,742.82	92.16	32.16	87.99	-3,040.68	1,882.74	4,558.07	4,459.78	98.29	46.372		
10,200.00	7,870.00	7,878.53	7,745.13	91.87	32.17	88.05	-3,040.74	1,882.76	4,472.20	4,373.84	98.37	45.465		
10,300.00	7,870.00	7,880.86	7,747.46	91.60	32.18	88.10	-3,040.80	1,882.78	4,386.93	4,288.49	98.44	44.563		
10,400.00	7,870.00	7,883.19	7,749.79	91.34	32.18	88.16	-3,040.86	1,882.81	4,302.29	4,203.76	98.53	43.666		
10,500.00	7,870.00	7,885.54	7,752.14	91.11	32.19	88.22	-3,040.92	1,882.83	4,218.32	4,119.70	98.62	42.774		
10,600.00	7,870.00	7,887.90	7,754.49	90.88	32.20	88.28	-3,040.99	1,882.85	4,135.07	4,036.35	98.72	41.887		
10,700.00	7,870.00	7,890.26	7,756.86	90.67	32.21	88.34	-3,041.05	1,882.87	4,052.56	3,953.74	98.83	41.007		
10,800.00	7,870.00	7,892.64	7,759.24	90.48	32.21	88.40	-3,041.12	1,882.90	3,970.87	3,871.92	98.94	40.134		
10,900.00	7,870.00	7,895.03	7,761.63	90.31	32.22	88.45	-3,041.18	1,882.92	3,890.02	3,790.96	99.07	39.267		
11,000.00	7,870.00	7,897.43	7,764.03	90.15	32.23	88.51	-3,041.24	1,882.94	3,810.08	3,710.88	99.20	38.408		
11,100.00	7,870.00	7,899.84	7,766.44	90.00	32.24	88.57	-3,041.31	1,882.97	3,731.11	3,631.77	99.34	37.557		
11,200.00	7,870.00	7,902.27	7,768.86	89.88	32.24	88.63	-3,041.38	1,882.99	3,653.17	3,553.67	99.50	36.715		
11,300.00	7,870.00	7,904.70	7,771.29	89.77	32.25	88.69	-3,041.44	1,883.01	3,576.32	3,476.66	99.67	35.883		
11,400.00	7,870.00	7,907.15	7,773.74	89.68	32.26	88.75	-3,041.51	1,883.03	3,500.64	3,400.80	99.85	35.060		
11,500.00	7,870.00	7,909.61	7,776.19	89.60	32.27	88.82	-3,041.58	1,883.06	3,426.21	3,326.17	100.04	34.248		
11,600.00	7,870.00	7,912.07	7,778.66	89.55	32.28	88.88	-3,041.64	1,883.08	3,353.10	3,252.86	100.25	33.448		
11,700.00	7,870.00	7,914.56	7,781.14	89.52	32.28	88.94	-3,041.71	1,883.10	3,281.42	3,180.95	100.47	32.661		
11,800.00	7,870.00	7,917.05	7,783.63	89.50	32.29	89.00	-3,041.78	1,883.12	3,211.24	3,110.53	100.71	31.887		
11,900.00	7,870.00	7,919.55	7,786.14	89.51	32.30	89.06	-3,041.85	1,883.15	3,142.68	3,041.72	100.96	31.128		
12,000.00	7,870.00	7,922.07	7,788.65	89.54	32.31	89.12	-3,041.92	1,883.17	3,075.83	2,974.61	101.23	30.385		
12,100.00	7,870.00	7,924.60	7,791.18	89.59	32.32	89.19	-3,041.99	1,883.19	3,010.83	2,909.31	101.51	29.659		
12,200.00	7,870.00	7,927.14	7,793.72	89.66	32.32	89.25	-3,042.06	1,883.21	2,947.78	2,845.96	101.82	28.951		
12,300.00	7,870.00	7,929.69	7,796.27	89.77	32.33	89.31	-3,042.13	1,883.24	2,886.81	2,784.67	102.14	28.263		
12,400.00	7,870.00	7,932.26	7,798.83	89.89	32.34	89.38	-3,042.20	1,883.26	2,828.07	2,725.59	102.48	27.597		
12,500.00	7,870.00	7,934.83	7,801.41	90.05	32.35	89.44	-3,042.28	1,883.28	2,771.68	2,668.85	102.83	26.953		
12,600.00	7,870.00	7,937.42	7,804.00	90.24	32.36	89.50	-3,042.35	1,883.30	2,717.81	2,614.60	103.21	26.334		
12,700.00	7,870.00	7,940.03	7,806.60	90.46	32.37	89.57	-3,042.42	1,883.33	2,666.60	2,563.00	103.59	25.741		
12,800.00	7,870.00	7,942.64	7,809.21	90.71	32.37	89.63	-3,042.50	1,883.35	2,618.20	2,514.20	103.99	25.176		
12,900.00	7,870.00	7,945.27	7,811.84	90.99	32.38	89.70	-3,042.57	1,883.37	2,572.77	2,468.37	104.41	24.642		
13,000.00	7,870.00	7,947.91	7,814.48	91.32	32.39	89.76	-3,042.65	1,883.39	2,530.49	2,425.66	104.83	24.139		
13,100.00	7,870.00	7,950.56	7,817.13	91.68	32.40	89.83	-3,042.72	1,883.41	2,491.49	2,386.24	105.26	23.670		
13,200.00	7,870.00	7,953.23	7,819.80	92.08	32.41	89.90	-3,042.80	1,883.44	2,455.95	2,350.26	105.69	23.237		
13,300.00	7,870.00	7,955.91	7,822.48	92.52	32.42	89.96	-3,042.87	1,883.46	2,424.02	2,317.90	106.12	22.842		
13,400.00	7,870.00	7,958.05	7,824.62	93.00	32.43	90.02	-3,042.93	1,883.48	2,395.83	2,289.29	106.54	22.488		
13,500.00	7,870.00	7,960.59	7,827.15	93.53	32.43	90.08	-3,043.01	1,883.50	2,371.52	2,264.57	106.95	22.174		
13,600.00	7,870.00	7,963.13	7,829.70	94.10	32.44	90.14	-3,043.08	1,883.52	2,351.22	2,243.87	107.35	21.902		
13,700.00	7,870.00	7,965.69	7,832.26	94.72	32.45	90.20	-3,043.15	1,883.54	2,335.02	2,227.29	107.73	21.674		
13,800.00	7,870.00	7,968.27	7,834.83	95.38	32.46	90.27	-3,043.23	1,883.55	2,323.02	2,214.93	108.09	21.492		
13,900.00	7,870.00	7,970.86	7,837.42	96.09	32.47	90.33	-3,043.30	1,883.57	2,315.27	2,206.85	108.42	21.355		
14,000.00	7,870.00	7,973.46	7,840.02	96.84	32.48	90.40	-3,043.38	1,883.59	2,311.82	2,203.11	108.71	21.266		
14,029.82	7,870.00	7,974.23	7,840.79	97.08	32.48	90.42	-3,043.40	1,883.60	2,311.63	2,202.83	108.79	21.248	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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,976.07	7,842.63	97.64	32.48	90.46	-3,043.46	1,883.61	2,312.69	2,203.72	108.97	21.223 SF		
14,200.00	7,870.00	7,978.70	7,845.26	98.48	32.49	90.53	-3,043.53	1,883.63	2,317.88	2,208.68	109.20	21.227		
14,300.00	7,870.00	7,981.34	7,847.90	99.37	32.50	90.59	-3,043.61	1,883.65	2,327.35	2,217.97	109.38	21.277		
14,400.00	7,870.00	7,984.00	7,850.55	100.30	32.51	90.66	-3,043.69	1,883.67	2,341.06	2,231.53	109.53	21.374		
14,500.00	7,870.00	7,986.67	7,853.22	101.26	32.52	90.72	-3,043.77	1,883.68	2,358.92	2,249.29	109.63	21.517		
14,600.00	7,870.00	7,989.35	7,855.91	102.27	32.53	90.79	-3,043.85	1,883.70	2,380.86	2,271.16	109.70	21.704		
14,700.00	7,870.00	7,992.05	7,858.61	103.31	32.54	90.86	-3,043.93	1,883.72	2,406.75	2,297.02	109.73	21.934		
14,800.00	7,870.00	7,994.77	7,861.32	104.38	32.55	90.92	-3,044.01	1,883.73	2,436.46	2,326.74	109.72	22.205		
14,900.00	7,870.00	7,997.50	7,864.04	105.49	32.55	90.99	-3,044.09	1,883.75	2,469.87	2,360.18	109.69	22.517		
15,000.00	7,870.00	8,000.24	7,866.79	106.63	32.56	91.06	-3,044.17	1,883.77	2,506.82	2,397.20	109.62	22.868		
15,100.00	7,870.00	8,003.00	7,869.54	107.80	32.57	91.13	-3,044.25	1,883.78	2,547.16	2,437.63	109.53	23.256		
15,200.00	7,870.00	8,005.77	7,872.31	109.00	32.58	91.20	-3,044.34	1,883.80	2,590.73	2,481.31	109.42	23.678		
15,300.00	7,870.00	8,008.56	7,875.10	110.22	32.59	91.27	-3,044.42	1,883.81	2,637.37	2,528.09	109.28	24.134		
15,400.00	7,870.00	8,011.36	7,877.90	111.47	32.60	91.34	-3,044.51	1,883.83	2,686.92	2,577.79	109.13	24.621		
15,500.00	7,870.00	8,014.18	7,880.72	112.74	32.61	91.41	-3,044.59	1,883.84	2,739.22	2,630.25	108.97	25.137		
15,600.00	7,870.00	8,017.01	7,883.55	114.03	32.62	91.48	-3,044.68	1,883.86	2,794.13	2,685.33	108.80	25.682		
15,700.00	7,870.00	8,019.86	7,886.40	115.34	32.63	91.55	-3,044.76	1,883.87	2,851.48	2,742.86	108.62	26.252		
15,800.00	7,870.00	8,022.73	7,889.26	116.68	32.64	91.62	-3,044.85	1,883.89	2,911.13	2,802.70	108.43	26.847		
15,900.00	7,870.00	8,025.61	7,892.14	118.02	32.65	91.69	-3,044.94	1,883.90	2,972.95	2,864.70	108.24	27.465		
16,000.00	7,870.00	8,028.50	7,895.04	119.39	32.66	91.76	-3,045.03	1,883.91	3,036.80	2,928.74	108.05	28.105		
16,100.00	7,870.00	8,031.42	7,897.95	120.77	32.67	91.83	-3,045.12	1,883.93	3,102.55	2,994.69	107.86	28.764		
16,200.00	7,870.00	8,034.35	7,900.88	122.17	32.68	91.91	-3,045.21	1,883.94	3,170.10	3,062.42	107.67	29.442		
16,300.00	7,870.00	8,037.29	7,903.82	123.58	32.68	91.98	-3,045.30	1,883.95	3,239.32	3,131.83	107.49	30.137		
16,400.00	7,870.00	8,040.25	7,906.78	125.00	32.69	92.05	-3,045.39	1,883.96	3,310.11	3,202.81	107.30	30.848		
16,500.00	7,870.00	8,043.23	7,909.76	126.43	32.70	92.13	-3,045.48	1,883.97	3,382.38	3,275.25	107.12	31.575		
16,600.00	7,870.00	8,046.23	7,912.75	127.88	32.71	92.20	-3,045.58	1,883.98	3,456.02	3,349.07	106.95	32.315		
16,700.00	7,870.00	8,049.24	7,915.76	129.34	32.72	92.27	-3,045.67	1,883.99	3,530.96	3,424.18	106.78	33.068		
16,800.00	7,870.00	8,051.95	7,918.48	130.81	32.73	92.34	-3,045.76	1,884.00	3,607.11	3,500.50	106.61	33.834		
16,900.00	7,870.00	8,054.84	7,921.36	132.28	32.74	92.41	-3,045.85	1,884.02	3,684.40	3,577.95	106.45	34.611		
17,000.00	7,870.00	8,057.71	7,924.23	133.77	32.75	92.48	-3,045.93	1,884.03	3,762.76	3,656.46	106.30	35.398		
17,100.00	7,870.00	8,060.57	7,927.09	135.27	32.76	92.55	-3,046.02	1,884.04	3,842.12	3,735.97	106.15	36.196		
17,200.00	7,870.00	8,063.43	7,929.95	136.77	32.77	92.62	-3,046.11	1,884.05	3,922.42	3,816.41	106.01	37.002		
17,300.00	7,870.00	8,066.28	7,932.79	138.28	32.78	92.70	-3,046.20	1,884.06	4,003.60	3,897.74	105.87	37.817		
17,400.00	7,870.00	8,069.11	7,935.63	139.80	32.79	92.77	-3,046.29	1,884.07	4,085.62	3,979.89	105.74	38.639		
17,500.00	7,870.00	8,071.94	7,938.45	141.33	32.80	92.84	-3,046.37	1,884.08	4,168.43	4,062.81	105.61	39.469		
17,600.00	7,870.00	8,074.76	7,941.27	142.86	32.81	92.90	-3,046.46	1,884.09	4,251.97	4,146.47	105.49	40.306		
17,700.00	7,870.00	8,077.57	7,944.08	144.40	32.82	92.97	-3,046.55	1,884.10	4,336.20	4,230.82	105.38	41.149		
17,800.00	7,870.00	8,080.37	7,946.88	145.95	32.83	93.04	-3,046.63	1,884.11	4,421.09	4,315.82	105.27	41.998		
17,900.00	7,870.00	8,083.16	7,949.67	147.50	32.84	93.11	-3,046.72	1,884.12	4,506.60	4,401.43	105.16	42.853		
18,000.00	7,870.00	8,085.95	7,952.45	149.06	32.85	93.18	-3,046.80	1,884.13	4,592.69	4,487.62	105.07	43.713		
18,100.00	7,870.00	8,088.72	7,955.23	150.63	32.85	93.25	-3,046.89	1,884.14	4,679.33	4,574.36	104.97	44.577		
18,200.00	7,870.00	8,091.49	7,957.99	152.20	32.86	93.32	-3,046.97	1,884.15	4,766.49	4,661.61	104.88	45.446		
18,300.00	7,870.00	8,094.25	7,960.75	153.77	32.87	93.39	-3,047.05	1,884.16	4,854.15	4,749.35	104.80	46.319		
18,400.00	7,870.00	8,097.00	7,963.50	155.35	32.88	93.45	-3,047.14	1,884.17	4,942.27	4,837.56	104.72	47.196		
18,500.00	7,870.00	8,099.74	7,966.24	156.93	32.89	93.52	-3,047.22	1,884.18	5,030.84	4,926.20	104.64	48.076		
18,600.00	7,870.00	8,102.47	7,968.97	158.52	32.90	93.59	-3,047.30	1,884.19	5,119.83	5,015.25	104.57	48.960		
18,700.00	7,870.00	8,105.19	7,971.69	160.11	32.91	93.66	-3,047.39	1,884.20	5,209.21	5,104.71	104.50	49.847		
18,800.00	7,870.00	8,107.91	7,974.40	161.71	32.92	93.72	-3,047.47	1,884.21	5,298.97	5,194.53	104.44	50.737		
18,900.00	7,870.00	8,110.61	7,977.11	163.31	32.93	93.79	-3,047.55	1,884.22	5,389.09	5,284.71	104.38	51.629		
19,000.00	7,870.00	8,113.31	7,979.81	164.91	32.94	93.86	-3,047.63	1,884.23	5,479.55	5,375.23	104.32	52.524		
19,100.00	7,870.00	8,116.00	7,982.50	166.52	32.95	93.92	-3,047.71	1,884.24	5,570.34	5,466.07	104.27	53.421		
19,200.00	7,870.00	8,118.68	7,985.18	168.13	32.95	93.99	-3,047.79	1,884.25	5,661.44	5,557.21	104.22	54.321		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	8,121.36	7,987.85	169.75	32.96	94.06	-3,047.87	1,884.22	5,752.83	5,648.65	104.18	55.222	
19,383.51	7,870.00	8,123.58	7,990.07	171.10	32.97	94.11	-3,047.94	1,884.23	5,829.36	5,725.22	104.14	55.976	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	109.28	-1,475.01	4,217.09	4,467.87					
100.00	100.00	33.47	33.47	0.13	0.05	109.28	-1,475.00	4,217.16	4,467.71	4,467.52	0.19	N/A		
200.00	200.00	99.08	99.08	0.49	0.16	109.27	-1,474.93	4,217.73	4,468.48	4,467.83	0.65	6,884.264		
300.00	300.00	244.19	244.17	0.85	0.63	109.26	-1,474.44	4,219.17	4,469.38	4,467.90	1.48	3,020.967		
400.00	400.00	518.59	518.20	1.21	1.59	109.40	-1,483.05	4,211.11	4,467.76	4,464.96	2.80	1,594.316		
500.00	500.00	617.75	616.64	1.57	1.97	109.55	-1,492.30	4,203.63	4,463.73	4,460.19	3.54	1,262.209		
600.00	600.00	685.03	683.07	1.93	2.24	109.68	-1,501.34	4,198.13	4,460.47	4,456.30	4.17	1,070.500		
700.00	699.98	789.73	785.67	2.28	2.71	46.20	-1,519.64	4,188.21	4,456.20	4,451.22	4.98	894.369		
800.00	799.84	872.10	865.79	2.64	3.10	46.58	-1,536.69	4,179.53	4,449.75	4,444.02	5.73	776.851		
900.00	899.45	939.96	931.57	3.00	3.44	46.96	-1,551.75	4,172.38	4,441.57	4,435.14	6.43	691.249		
1,000.00	998.70	1,075.58	1,062.88	3.37	4.14	47.71	-1,582.43	4,157.90	4,431.32	4,423.83	7.49	591.271		
1,100.00	1,097.47	1,208.64	1,191.82	3.76	4.85	48.53	-1,611.27	4,142.22	4,417.57	4,409.00	8.57	515.349		
1,200.00	1,195.62	1,265.22	1,246.72	4.18	5.15	49.05	-1,623.32	4,135.73	4,402.08	4,392.82	9.26	475.302		
1,300.00	1,293.06	1,333.59	1,313.12	4.63	5.51	49.67	-1,637.95	4,128.49	4,385.40	4,375.37	10.04	436.998		
1,400.00	1,389.64	1,429.59	1,406.01	5.11	6.04	50.52	-1,659.63	4,117.70	4,366.78	4,355.79	10.99	397.295		
1,500.00	1,485.27	1,497.00	1,471.03	5.63	6.41	51.27	-1,675.67	4,110.03	4,346.73	4,334.90	11.83	367.446		
1,600.00	1,579.82	1,580.37	1,551.34	6.20	6.88	52.18	-1,695.97	4,100.56	4,325.29	4,312.49	12.80	337.926		
1,700.00	1,673.17	1,642.54	1,611.20	6.83	7.24	53.01	-1,711.22	4,093.52	4,302.47	4,288.78	13.69	314.284		
1,800.00	1,765.21	1,713.44	1,679.49	7.51	7.64	53.95	-1,728.67	4,085.89	4,278.66	4,263.99	14.67	291.587		
1,900.00	1,855.84	1,816.72	1,779.15	8.24	8.23	55.20	-1,753.34	4,074.73	4,253.31	4,237.42	15.89	267.688		
2,000.00	1,944.94	1,920.70	1,879.65	9.05	8.81	56.54	-1,777.46	4,063.29	4,226.44	4,209.28	17.16	246.332		
2,100.00	2,032.39	2,028.85	1,984.38	9.91	9.41	58.00	-1,801.43	4,050.93	4,197.86	4,179.36	18.50	226.876		
2,200.00	2,118.11	2,197.67	2,148.02	10.85	10.34	60.12	-1,836.96	4,029.57	4,167.12	4,146.88	20.24	205.894		
2,300.00	2,201.97	2,266.13	2,214.48	11.85	10.71	61.38	-1,850.67	4,020.50	4,135.05	4,113.55	21.49	192.388		
2,400.00	2,283.88	2,331.69	2,278.14	12.93	11.07	62.67	-1,863.78	4,011.86	4,102.45	4,079.64	22.80	179.903		
2,429.47	2,307.63	2,350.52	2,296.41	13.26	11.17	63.05	-1,867.56	4,009.38	4,092.76	4,069.56	23.20	176.399		
2,500.00	2,364.26	2,380.85	2,325.86	14.06	11.33	63.37	-1,873.65	4,005.46	4,069.92	4,045.83	24.09	168.956		
2,600.00	2,444.56	2,426.20	2,369.93	15.22	11.58	63.86	-1,882.75	3,999.83	4,038.80	4,013.41	25.39	159.082		
2,700.00	2,524.85	2,477.69	2,419.99	16.39	11.86	64.41	-1,893.14	3,993.69	4,009.15	3,982.40	26.75	149.870		
2,800.00	2,605.14	2,531.80	2,472.56	17.57	12.15	64.99	-1,904.25	3,987.31	3,980.89	3,952.73	28.15	141.394		
2,900.00	2,685.43	2,646.20	2,583.66	18.76	12.77	66.24	-1,927.55	3,973.14	3,953.40	3,923.48	29.92	132.126		
3,000.00	2,765.73	2,696.26	2,632.31	19.96	13.04	66.79	-1,937.56	3,966.91	3,927.04	3,895.69	31.35	125.263		
3,100.00	2,846.02	2,747.09	2,681.77	21.16	13.31	67.35	-1,947.67	3,960.87	3,902.20	3,869.40	32.80	118.975		
3,200.00	2,926.31	2,799.00	2,732.33	22.37	13.59	67.92	-1,957.84	3,955.08	3,878.90	3,844.63	34.26	113.204		
3,300.00	3,006.60	2,865.82	2,797.52	23.59	13.93	68.65	-1,970.74	3,948.03	3,857.06	3,821.23	35.82	107.668		
3,400.00	3,086.90	2,941.48	2,871.35	24.81	14.33	69.48	-1,985.18	3,940.02	3,836.39	3,798.95	37.44	102.459		
3,500.00	3,167.19	3,017.20	2,945.27	26.03	14.72	70.32	-1,999.47	3,931.93	3,816.89	3,777.82	39.07	97.682		
3,600.00	3,247.48	3,068.97	2,995.73	27.25	15.00	70.90	-2,009.56	3,926.22	3,798.82	3,758.23	40.59	93.594		
3,700.00	3,327.77	3,121.81	3,047.11	28.48	15.28	71.49	-2,020.32	3,920.18	3,782.35	3,740.23	42.12	89.806		
3,800.00	3,408.07	3,173.04	3,096.84	29.71	15.56	72.08	-2,031.10	3,914.27	3,767.55	3,723.91	43.65	86.322		
3,900.00	3,488.36	3,226.74	3,148.93	30.94	15.85	72.69	-2,042.62	3,908.14	3,754.44	3,709.25	45.19	83.085		
4,000.00	3,568.65	3,284.04	3,204.64	32.17	16.16	73.34	-2,054.60	3,902.17	3,742.97	3,696.22	46.75	80.062		
4,100.00	3,648.95	3,338.24	3,257.45	33.41	16.45	73.96	-2,065.69	3,897.03	3,733.12	3,684.84	48.28	77.316		
4,200.00	3,729.24	3,399.88	3,317.55	34.64	16.77	74.65	-2,078.27	3,891.55	3,724.93	3,675.07	49.86	74.709		
4,300.00	3,809.53	3,480.99	3,396.54	35.88	17.21	75.57	-2,095.02	3,883.89	3,718.05	3,666.50	51.56	72.118		
4,400.00	3,889.82	3,560.32	3,473.65	37.12	17.63	76.48	-2,111.67	3,875.62	3,712.40	3,659.17	53.24	69.735		
4,500.00	3,970.12	3,677.84	3,588.04	38.36	18.25	77.82	-2,135.46	3,862.94	3,707.70	3,652.56	55.14	67.240		
4,600.00	4,050.41	3,786.60	3,694.37	39.60	18.80	79.05	-2,155.32	3,851.71	3,703.51	3,646.54	56.97	65.011		
4,700.00	4,130.70	3,872.78	3,778.99	40.84	19.22	80.01	-2,169.60	3,843.83	3,700.29	3,641.67	58.63	63.115		
4,800.00	4,210.99	4,001.37	3,905.84	42.08	19.80	81.41	-2,188.30	3,834.17	3,698.03	3,637.56	60.47	61.151		
4,900.00	4,291.29	4,212.52	4,115.64	43.32	20.62	83.60	-2,208.68	3,822.33	3,694.45	3,631.87	62.58	59.035		
5,000.00	4,371.58	5,000.00	4,198.89	44.57	23.37	84.42	-2,212.96	3,819.60	3,690.28	3,623.71	66.57	55.438		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,451.87	4,462.88	4,365.66	45.81	21.42	86.05	-2,219.04	3,815.49	3,686.27	3,620.42	65.85	55.984		
5,200.00	4,532.16	4,576.90	4,479.66	47.05	21.75	87.13	-2,220.62	3,814.05	3,682.55	3,615.14	67.40	54.636		
5,300.00	4,612.46	4,685.92	4,588.68	48.30	22.04	88.15	-2,220.72	3,813.18	3,679.10	3,610.19	68.91	53.387		
5,400.00	4,692.75	4,790.84	4,693.58	49.54	22.31	89.13	-2,220.02	3,812.21	3,676.07	3,605.68	70.39	52.223		
5,500.00	4,773.04	4,876.21	4,778.95	50.79	22.52	89.93	-2,219.06	3,811.40	3,673.68	3,601.87	71.81	51.155		
5,600.00	4,853.34	4,964.28	4,867.00	52.03	22.74	90.75	-2,218.02	3,810.34	3,672.13	3,598.89	73.24	50.140		
5,696.16	4,930.54	5,031.86	4,934.57	53.23	22.92	91.39	-2,217.26	3,809.38	3,671.54	3,596.97	74.57	49.238		
5,700.00	4,933.63	5,034.36	4,937.07	53.28	22.92	91.41	-2,217.23	3,809.34	3,671.54	3,596.92	74.62	49.204		
5,800.00	5,013.92	5,099.43	5,002.14	54.53	23.10	92.02	-2,216.77	3,808.45	3,672.24	3,596.26	75.98	48.332		
5,900.00	5,094.21	5,164.41	5,067.11	55.77	23.28	92.64	-2,216.56	3,807.62	3,674.26	3,596.93	77.33	47.516		
6,000.00	5,174.51	5,229.29	5,131.99	57.02	23.45	93.25	-2,216.61	3,806.85	3,677.59	3,598.93	78.66	46.754		
6,100.00	5,254.80	5,298.20	5,200.89	58.27	23.65	93.90	-2,216.93	3,806.08	3,682.21	3,602.22	79.99	46.034		
6,200.00	5,335.09	5,373.49	5,276.17	59.52	23.87	94.61	-2,217.40	3,805.29	3,687.96	3,606.64	81.33	45.347		
6,300.00	5,415.38	5,453.76	5,356.44	60.76	24.10	95.36	-2,217.93	3,804.46	3,694.73	3,612.06	82.67	44.694		
6,400.00	5,495.68	5,554.67	5,457.34	62.01	24.40	96.30	-2,218.31	3,803.32	3,702.25	3,618.19	84.05	44.047		
6,500.00	5,575.97	5,639.90	5,542.56	63.26	24.64	97.10	-2,218.34	3,802.29	3,710.45	3,625.08	85.37	43.462		
6,600.00	5,656.26	5,726.21	5,628.87	64.51	24.89	97.90	-2,218.21	3,801.25	3,719.48	3,632.80	86.68	42.911		
6,700.00	5,736.55	5,791.55	5,694.20	65.76	25.08	98.51	-2,218.15	3,800.45	3,729.51	3,641.60	87.91	42.424		
6,800.00	5,816.85	5,894.93	5,797.57	67.01	25.38	99.46	-2,218.30	3,799.08	3,740.72	3,651.49	89.23	41.920		
6,900.00	5,897.14	6,000.47	5,903.10	68.26	25.68	100.43	-2,217.32	3,797.52	3,751.91	3,661.37	90.54	41.439		
7,000.00	5,977.43	6,074.66	5,977.27	69.50	25.88	101.11	-2,216.49	3,796.44	3,763.93	3,672.19	91.74	41.027		
7,100.00	6,057.72	6,150.02	6,052.63	70.75	26.09	101.80	-2,215.80	3,795.44	3,777.05	3,684.12	92.93	40.645		
7,200.00	6,138.02	6,232.69	6,135.29	72.00	26.33	102.54	-2,215.00	3,794.41	3,791.05	3,696.93	94.12	40.279		
7,300.00	6,218.31	6,312.52	6,215.10	73.25	26.55	103.26	-2,214.24	3,793.19	3,805.93	3,710.65	95.28	39.943		
7,400.00	6,298.60	6,385.39	6,287.96	74.50	26.77	103.92	-2,213.65	3,791.93	3,821.79	3,725.38	96.41	39.640		
7,500.00	6,378.90	6,462.07	6,364.63	75.75	26.99	104.61	-2,213.14	3,790.51	3,838.64	3,741.10	97.53	39.357		
7,600.00	6,459.19	6,532.26	6,434.80	77.00	27.20	105.24	-2,212.76	3,789.16	3,856.45	3,757.84	98.62	39.105		
7,700.00	6,539.48	6,598.71	6,501.24	78.25	27.40	105.82	-2,212.60	3,788.13	3,875.42	3,775.74	99.67	38.882		
7,800.00	6,619.77	6,677.05	6,579.57	79.50	27.64	106.51	-2,212.51	3,787.18	3,895.36	3,794.61	100.75	38.665		
7,900.00	6,700.07	6,744.37	6,646.89	80.75	27.84	107.10	-2,212.52	3,786.49	3,916.26	3,814.50	101.77	38.483		
8,000.00	6,780.36	6,812.79	6,715.30	82.00	28.06	107.69	-2,212.77	3,785.80	3,938.24	3,835.47	102.77	38.320		
8,100.00	6,860.65	6,883.46	6,785.98	83.25	28.28	108.29	-2,213.20	3,784.99	3,961.21	3,857.45	103.77	38.174		
8,200.00	6,940.94	6,954.58	6,857.08	84.50	28.50	108.90	-2,213.79	3,784.04	3,985.15	3,880.40	104.75	38.046		
8,300.00	7,021.24	7,024.56	6,927.05	85.76	28.73	109.50	-2,214.54	3,782.93	4,010.04	3,904.34	105.70	37.937		
8,400.00	7,101.53	7,100.02	7,002.49	87.01	28.98	110.14	-2,215.50	3,781.38	4,035.87	3,929.21	106.66	37.838		
8,500.00	7,181.82	7,177.80	7,080.24	88.26	29.23	110.80	-2,216.49	3,779.38	4,062.45	3,954.84	107.61	37.751		
8,605.60	7,266.61	7,249.72	7,152.12	89.58	29.47	111.41	-2,217.52	3,777.34	4,091.49	3,982.94	108.55	37.692		
8,650.00	7,302.60	7,281.44	7,183.82	90.13	29.58	105.86	-2,218.04	3,776.40	4,102.36	3,993.41	108.95	37.653		
8,700.00	7,343.78	7,317.73	7,220.09	90.72	29.70	99.07	-2,218.66	3,775.29	4,110.78	4,001.38	109.40	37.575		
8,750.00	7,385.32	7,354.36	7,256.70	91.28	29.82	91.94	-2,219.31	3,774.14	4,115.12	4,005.27	109.86	37.459		
8,800.00	7,426.92	7,391.06	7,293.37	91.81	29.95	84.74	-2,220.01	3,772.94	4,115.35	4,005.05	110.30	37.311		
8,850.00	7,468.27	7,444.59	7,346.77	92.29	30.73	79.57	-2,218.74	3,766.98	4,110.68	3,999.16	111.51	36.863		
8,900.00	7,509.04	7,467.98	7,370.15	92.72	30.80	73.07	-2,218.11	3,766.79	4,100.71	3,988.82	111.89	36.649		
8,950.00	7,548.93	7,502.17	7,404.33	93.10	30.89	67.36	-2,217.20	3,766.55	4,086.74	3,974.46	112.28	36.398		
9,000.00	7,587.63	7,538.43	7,430.58	93.43	30.99	62.45	-2,216.28	3,766.31	4,068.87	3,956.22	112.65	36.118		
9,050.00	7,624.85	7,577.28	7,479.42	93.71	31.10	58.35	-2,215.28	3,766.17	4,047.18	3,934.17	113.01	35.812		
9,100.00	7,660.30	7,614.30	7,516.43	93.93	31.20	55.01	-2,214.32	3,766.15	4,021.79	3,908.45	113.34	35.484		
9,150.00	7,693.72	7,646.99	7,549.10	94.10	31.29	52.34	-2,213.47	3,766.21	3,992.90	3,879.28	113.63	35.140		
9,200.00	7,724.85	7,677.24	7,579.34	94.23	31.38	50.32	-2,212.68	3,766.29	3,960.73	3,846.84	113.88	34.779		
9,250.00	7,753.45	7,704.93	7,607.02	94.30	31.45	48.93	-2,211.97	3,766.38	3,925.49	3,811.38	114.11	34.402		
9,300.00	7,779.31	7,729.14	7,631.22	94.34	31.52	48.16	-2,211.34	3,766.49	3,887.43	3,773.13	114.30	34.012		
9,350.00	7,802.23	7,750.33	7,652.41	94.33	31.58	48.05	-2,210.80	3,766.61	3,846.82	3,732.37	114.45	33.610		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,968.50	7,870.57	94.28	31.63	48.74	-2,210.35	3,766.73	3,803.95	3,689.36	114.58	33.199		
9,450.00	7,838.57	7,983.49	7,885.55	94.20	31.67	50.47	-2,209.97	3,766.85	3,759.11	3,644.43	114.68	32.778		
9,500.00	7,851.72	7,995.17	7,897.23	94.10	31.70	53.77	-2,209.69	3,766.95	3,712.63	3,597.87	114.76	32.352		
9,550.00	7,861.37	8,003.43	7,905.49	93.96	31.73	59.78	-2,209.48	3,767.02	3,664.83	3,550.02	114.81	31.921		
9,600.00	7,867.46	8,008.21	7,910.27	93.81	31.74	71.36	-2,209.37	3,767.07	3,616.07	3,501.22	114.84	31.487		
9,650.00	7,869.94	8,009.45	7,911.50	93.64	31.74	95.39	-2,209.34	3,767.08	3,566.68	3,451.82	114.86	31.053		
9,659.14	7,870.00	8,009.29	7,911.35	93.60	31.74	101.84	-2,209.34	3,767.08	3,557.62	3,442.76	114.86	30.974		
9,700.00	7,870.00	8,008.32	7,910.38	93.46	31.74	101.72	-2,209.36	3,767.07	3,517.07	3,402.21	114.86	30.620		
9,800.00	7,870.00	8,005.94	7,907.99	93.11	31.73	101.41	-2,209.42	3,767.05	3,417.88	3,303.01	114.87	29.754		
9,900.00	7,870.00	8,003.55	7,905.60	92.77	31.73	101.11	-2,209.48	3,767.02	3,318.73	3,203.85	114.88	28.888		
10,000.00	7,870.00	8,001.15	7,903.21	92.46	31.72	100.80	-2,209.54	3,767.00	3,219.64	3,104.74	114.90	28.022		
10,100.00	7,870.00	7,998.75	7,900.81	92.16	31.71	100.49	-2,209.60	3,766.98	3,120.60	3,005.69	114.91	27.157		
10,200.00	7,870.00	7,996.34	7,898.40	91.87	31.71	100.18	-2,209.66	3,766.96	3,021.62	2,906.70	114.92	26.293		
10,300.00	7,870.00	7,993.92	7,895.98	91.60	31.70	99.87	-2,209.72	3,766.94	2,922.72	2,807.78	114.94	25.429		
10,400.00	7,870.00	7,991.49	7,893.56	91.34	31.69	99.55	-2,209.78	3,766.92	2,823.88	2,708.93	114.95	24.566		
10,500.00	7,870.00	7,989.06	7,891.13	91.11	31.69	99.24	-2,209.84	3,766.90	2,725.13	2,610.16	114.97	23.704		
10,600.00	7,870.00	7,986.62	7,888.69	90.88	31.68	98.92	-2,209.90	3,766.88	2,626.47	2,511.49	114.98	22.842		
10,700.00	7,870.00	7,984.18	7,886.24	90.67	31.67	98.61	-2,209.96	3,766.86	2,527.91	2,412.91	115.00	21.982		
10,800.00	7,870.00	7,981.73	7,883.79	90.48	31.67	98.29	-2,210.02	3,766.84	2,429.47	2,314.45	115.02	21.123		
10,900.00	7,870.00	7,979.27	7,881.33	90.31	31.66	97.97	-2,210.08	3,766.82	2,331.16	2,216.13	115.04	20.265		
11,000.00	7,870.00	7,976.80	7,878.87	90.15	31.65	97.64	-2,210.14	3,766.80	2,233.00	2,117.94	115.05	19.408		
11,100.00	7,870.00	7,974.33	7,876.39	90.00	31.65	97.32	-2,210.20	3,766.78	2,135.00	2,019.93	115.07	18.554		
11,200.00	7,870.00	7,971.84	7,873.91	89.88	31.64	97.00	-2,210.26	3,766.76	2,037.20	1,922.11	115.09	17.701		
11,300.00	7,870.00	7,969.36	7,871.43	89.77	31.63	96.67	-2,210.33	3,766.74	1,939.61	1,824.51	115.10	16.851		
11,400.00	7,870.00	7,966.86	7,868.93	89.68	31.63	96.34	-2,210.39	3,766.72	1,842.28	1,727.17	115.11	16.004		
11,500.00	7,870.00	7,964.36	7,866.43	89.60	31.62	96.01	-2,210.45	3,766.70	1,745.26	1,630.14	115.12	15.160		
11,600.00	7,870.00	7,961.85	7,863.92	89.55	31.61	95.68	-2,210.51	3,766.69	1,648.58	1,533.46	115.12	14.320		
11,700.00	7,870.00	7,959.33	7,861.40	89.52	31.60	95.35	-2,210.58	3,766.67	1,552.32	1,437.20	115.11	13.485		
11,800.00	7,870.00	7,956.81	7,858.88	89.50	31.60	95.02	-2,210.64	3,766.65	1,456.55	1,341.46	115.09	12.655		
11,900.00	7,870.00	7,954.27	7,856.35	89.51	31.59	94.68	-2,210.70	3,766.64	1,361.40	1,246.34	115.05	11.833		
12,000.00	7,870.00	7,951.73	7,853.81	89.54	31.58	94.35	-2,210.77	3,766.62	1,266.98	1,151.99	114.99	11.018		
12,100.00	7,870.00	7,949.19	7,851.26	89.59	31.58	94.01	-2,210.83	3,766.60	1,173.48	1,058.60	114.89	10.214		
12,200.00	7,870.00	7,946.63	7,848.71	89.66	31.57	93.68	-2,210.90	3,766.59	1,081.15	966.41	114.73	9.423		
12,300.00	7,870.00	7,944.07	7,846.15	89.77	31.56	93.34	-2,210.96	3,766.57	990.29	875.80	114.50	8.649		
12,400.00	7,870.00	7,941.50	7,843.58	89.89	31.56	93.00	-2,211.03	3,766.56	901.37	787.23	114.14	7.897		
12,500.00	7,870.00	7,938.92	7,841.00	90.05	31.55	92.65	-2,211.09	3,766.54	815.01	701.40	113.61	7.174		
12,600.00	7,870.00	7,936.34	7,838.42	90.24	31.54	92.31	-2,211.16	3,766.53	732.12	619.32	112.80	6.490		
12,700.00	7,870.00	7,933.74	7,835.83	90.46	31.53	91.97	-2,211.22	3,766.51	654.03	542.44	111.59	5.861		
12,800.00	7,870.00	7,931.14	7,833.23	90.71	31.53	91.62	-2,211.29	3,766.50	582.66	472.89	109.76	5.308		
12,900.00	7,870.00	7,928.54	7,830.62	90.99	31.52	91.28	-2,211.36	3,766.49	520.78	413.69	107.09	4.863		
13,000.00	7,870.00	7,925.92	7,828.00	91.32	31.51	90.93	-2,211.42	3,766.47	472.14	368.71	103.44	4.565		
13,100.00	7,870.00	7,923.30	7,825.38	91.68	31.51	90.58	-2,211.49	3,766.46	441.15	342.01	99.14	4.450 SF		
13,191.62	7,870.00	7,920.88	7,822.97	92.04	31.50	90.26	-2,211.55	3,766.45	431.54	335.89	95.64	4.512 CC, ES		
13,200.00	7,870.00	7,920.66	7,822.75	92.08	31.50	90.23	-2,211.56	3,766.45	431.62	336.23	95.39	4.525		
13,300.00	7,870.00	7,918.02	7,820.11	92.52	31.49	89.88	-2,211.63	3,766.44	444.93	351.24	93.69	4.749		
13,400.00	7,870.00	7,915.38	7,817.46	93.00	31.48	89.53	-2,211.70	3,766.42	479.18	384.79	94.39	5.077		
13,500.00	7,870.00	7,912.72	7,814.81	93.53	31.48	89.18	-2,211.76	3,766.41	530.34	433.82	96.52	5.495		
13,600.00	7,870.00	7,910.06	7,812.15	94.10	31.47	88.82	-2,211.83	3,766.40	594.04	495.05	98.99	6.001		
13,700.00	7,870.00	7,907.43	7,809.52	94.72	31.46	88.48	-2,211.90	3,766.39	666.71	565.45	101.26	6.584		
13,800.00	7,870.00	7,904.80	7,806.90	95.38	31.45	88.13	-2,211.97	3,766.38	745.72	642.57	103.15	7.229		
13,900.00	7,870.00	7,902.18	7,804.27	96.09	31.45	87.78	-2,212.04	3,766.37	829.27	724.58	104.69	7.922		
14,000.00	7,870.00	7,899.55	7,801.64	96.84	31.44	87.43	-2,212.10	3,766.36	916.11	810.19	105.92	8.649		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,896.91	7,799.01	97.64	31.43	87.08	-2,212.17	3,766.35	1,005.39	898.48	106.91	9.404		
14,200.00	7,870.00	7,894.28	7,796.38	98.48	31.43	86.73	-2,212.24	3,766.34	1,096.52	988.81	107.72	10.180		
14,300.00	7,870.00	7,891.65	7,793.74	99.37	31.42	86.39	-2,212.31	3,766.33	1,189.07	1,080.69	108.38	10.971		
14,400.00	7,870.00	7,889.01	7,791.11	100.30	31.41	86.04	-2,212.38	3,766.32	1,282.73	1,173.80	108.93	11.775		
14,500.00	7,870.00	7,886.37	7,788.47	101.26	31.40	85.69	-2,212.45	3,766.31	1,377.28	1,267.89	109.40	12.590		
14,600.00	7,870.00	7,883.73	7,785.83	102.27	31.40	85.34	-2,212.51	3,766.31	1,472.55	1,362.75	109.80	13.412		
14,700.00	7,870.00	7,881.09	7,783.19	103.31	31.39	84.99	-2,212.58	3,766.30	1,568.40	1,458.26	110.14	14.241		
14,800.00	7,870.00	7,878.45	7,780.55	104.38	31.38	84.65	-2,212.65	3,766.29	1,664.73	1,554.30	110.43	15.075		
14,900.00	7,870.00	7,875.80	7,777.90	105.49	31.37	84.30	-2,212.72	3,766.28	1,761.47	1,650.78	110.69	15.914		
15,000.00	7,870.00	7,873.16	7,775.26	106.63	31.37	83.95	-2,212.79	3,766.27	1,858.55	1,747.64	110.92	16.756		
15,100.00	7,870.00	7,870.51	7,772.61	107.80	31.36	83.60	-2,212.86	3,766.27	1,955.93	1,844.81	111.12	17.602		
15,200.00	7,870.00	7,867.86	7,769.96	109.00	31.35	83.26	-2,212.93	3,766.26	2,053.55	1,942.25	111.30	18.450		
15,300.00	7,870.00	7,865.21	7,767.31	110.22	31.35	82.91	-2,213.00	3,766.25	2,151.38	2,039.92	111.46	19.301		
15,400.00	7,870.00	7,862.56	7,764.66	111.47	31.34	82.57	-2,213.06	3,766.24	2,249.41	2,137.79	111.61	20.154		
15,500.00	7,870.00	7,859.90	7,762.01	112.74	31.33	82.22	-2,213.13	3,766.24	2,347.59	2,235.85	111.75	21.008		
15,600.00	7,870.00	7,857.25	7,759.36	114.03	31.32	81.87	-2,213.20	3,766.23	2,445.93	2,334.06	111.87	21.864		
15,700.00	7,870.00	7,854.59	7,756.70	115.34	31.32	81.53	-2,213.27	3,766.22	2,544.38	2,432.40	111.98	22.721		
15,800.00	7,870.00	7,851.93	7,754.04	116.68	31.31	81.18	-2,213.34	3,766.22	2,642.96	2,530.87	112.09	23.579		
15,900.00	7,870.00	7,849.27	7,751.38	118.02	31.30	80.84	-2,213.41	3,766.21	2,741.63	2,629.44	112.18	24.439		
16,000.00	7,870.00	7,846.61	7,748.72	119.39	31.29	80.50	-2,213.48	3,766.21	2,840.39	2,728.12	112.28	25.299		
16,100.00	7,870.00	7,843.95	7,746.06	120.77	31.29	80.15	-2,213.55	3,766.20	2,939.24	2,826.88	112.36	26.159		
16,200.00	7,870.00	7,841.28	7,743.40	122.17	31.28	79.81	-2,213.62	3,766.19	3,038.15	2,925.71	112.44	27.020		
16,300.00	7,870.00	7,838.62	7,740.73	123.58	31.27	79.47	-2,213.69	3,766.19	3,137.14	3,024.62	112.51	27.882		
16,400.00	7,870.00	7,835.95	7,738.06	125.00	31.26	79.13	-2,213.76	3,766.18	3,236.18	3,123.60	112.59	28.744		
16,500.00	7,870.00	7,833.28	7,735.39	126.43	31.26	78.79	-2,213.83	3,766.18	3,335.28	3,222.63	112.65	29.607		
16,600.00	7,870.00	7,830.61	7,732.72	127.88	31.25	78.45	-2,213.90	3,766.18	3,434.43	3,321.71	112.72	30.470		
16,700.00	7,870.00	7,827.93	7,730.05	129.34	31.24	78.11	-2,213.97	3,766.17	3,533.63	3,420.85	112.78	31.333		
16,800.00	7,870.00	7,825.26	7,727.38	130.81	31.23	77.77	-2,214.04	3,766.17	3,632.86	3,520.03	112.84	32.196		
16,900.00	7,870.00	7,822.58	7,724.70	132.28	31.23	77.43	-2,214.11	3,766.16	3,732.14	3,619.25	112.89	33.059		
17,000.00	7,870.00	7,819.90	7,722.02	133.77	31.22	77.09	-2,214.18	3,766.16	3,831.45	3,718.51	112.95	33.923		
17,100.00	7,870.00	7,817.22	7,719.35	135.27	31.21	76.75	-2,214.25	3,766.16	3,930.80	3,817.80	113.00	34.787		
17,200.00	7,870.00	7,814.58	7,716.70	136.77	31.21	76.42	-2,214.32	3,766.15	4,030.17	3,917.13	113.05	35.650		
17,300.00	7,870.00	7,811.97	7,714.10	138.28	31.20	76.10	-2,214.38	3,766.15	4,129.58	4,016.48	113.10	36.514		
17,400.00	7,870.00	7,809.37	7,711.49	139.80	31.19	75.77	-2,214.45	3,766.15	4,229.01	4,115.87	113.14	37.377		
17,500.00	7,870.00	7,806.77	7,708.90	141.33	31.18	75.45	-2,214.52	3,766.15	4,328.47	4,215.28	113.19	38.241		
17,600.00	7,870.00	7,804.18	7,706.30	142.86	31.18	75.13	-2,214.59	3,766.15	4,427.94	4,314.71	113.23	39.104		
17,700.00	7,870.00	7,801.59	7,703.71	144.40	31.17	74.80	-2,214.65	3,766.14	4,527.44	4,414.17	113.28	39.968		
17,800.00	7,870.00	7,799.00	7,701.13	145.95	31.16	74.49	-2,214.72	3,766.15	4,626.96	4,513.64	113.32	40.831		
17,900.00	7,870.00	7,796.42	7,698.55	147.50	31.15	74.17	-2,214.79	3,766.15	4,726.50	4,613.14	113.36	41.694		
18,000.00	7,870.00	7,793.85	7,695.98	149.06	31.15	73.85	-2,214.86	3,766.15	4,826.06	4,712.66	113.40	42.557		
18,100.00	7,870.00	7,791.28	7,693.41	150.63	31.14	73.54	-2,214.92	3,766.15	4,925.63	4,812.19	113.44	43.419		
18,200.00	7,870.00	7,788.72	7,690.85	152.20	31.13	73.23	-2,214.99	3,766.15	5,025.22	4,911.74	113.48	44.282		
18,300.00	7,870.00	7,786.16	7,688.29	153.77	31.13	72.92	-2,215.06	3,766.15	5,124.83	5,011.30	113.52	45.144		
18,400.00	7,870.00	7,783.60	7,685.73	155.35	31.12	72.61	-2,215.12	3,766.16	5,224.44	5,110.88	113.56	46.006		
18,500.00	7,870.00	7,781.05	7,683.18	156.93	31.11	72.30	-2,215.19	3,766.16	5,324.07	5,210.48	113.60	46.868		
18,600.00	7,870.00	7,778.50	7,680.64	158.52	31.10	71.99	-2,215.25	3,766.17	5,423.72	5,310.08	113.64	47.729		
18,700.00	7,870.00	7,775.96	7,678.10	160.11	31.10	71.69	-2,215.32	3,766.17	5,523.37	5,409.70	113.67	48.590		
18,800.00	7,870.00	7,773.43	7,675.56	161.71	31.09	71.39	-2,215.38	3,766.18	5,623.04	5,509.33	113.71	49.451		
18,900.00	7,870.00	7,770.89	7,673.03	163.31	31.08	71.08	-2,215.45	3,766.18	5,722.71	5,608.97	113.75	50.311		
19,000.00	7,870.00	7,768.37	7,670.50	164.91	31.08	70.78	-2,215.51	3,766.19	5,822.40	5,708.62	113.78	51.171		
19,100.00	7,870.00	7,765.84	7,667.98	166.52	31.07	70.49	-2,215.58	3,766.20	5,922.10	5,808.28	113.82	52.031		
19,200.00	7,870.00	7,763.33	7,665.47	168.13	31.06	70.19	-2,215.64	3,766.21	6,021.80	5,907.95	113.85	52.891		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,760.81	7,662.95	169.75	31.06	69.89	-2,215.71	3,766.21	6,121.51	6,007.63	113.89	53.750	
19,383.51	7,870.00	7,758.72	7,660.86	171.10	31.05	69.65	-2,215.76	3,766.22	6,204.79	6,090.87	113.92	54.467	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	123.97	-3,055.97	4,536.60	5,470.08					
100.00	100.00	48.97	48.97	0.13	0.08	123.97	-3,056.05	4,536.57	5,469.91	5,469.70	0.21	N/A		
200.00	200.00	149.87	149.87	0.49	0.35	123.97	-3,056.64	4,536.33	5,470.04	5,469.19	0.85	6,466.069		
300.00	300.00	207.81	207.80	0.85	0.56	123.98	-3,057.01	4,536.24	5,470.37	5,468.96	1.41	3,878.024		
400.00	400.00	246.13	246.12	1.21	0.69	123.98	-3,057.36	4,536.66	5,471.78	5,469.87	1.90	2,872.651		
500.00	500.00	273.00	272.98	1.57	0.79	123.98	-3,057.66	4,537.23	5,474.34	5,471.99	2.36	2,321.247		
600.00	600.00	316.71	316.67	1.93	0.94	123.97	-3,058.21	4,538.72	5,478.04	5,475.17	2.87	1,908.636		
700.00	699.98	364.00	363.88	2.28	1.11	60.08	-3,058.87	4,541.23	5,482.16	5,478.78	3.39	1,618.646		
800.00	799.84	364.00	363.88	2.64	1.11	60.02	-3,058.87	4,541.23	5,485.76	5,482.02	3.74	1,467.886		
900.00	899.45	406.00	405.76	3.00	1.27	59.98	-3,059.61	4,544.33	5,488.82	5,484.58	4.24	1,293.846		
1,000.00	998.70	455.00	454.51	3.37	1.45	59.98	-3,060.78	4,549.09	5,491.74	5,486.96	4.78	1,148.985		
1,100.00	1,097.47	455.00	454.51	3.76	1.45	59.94	-3,060.78	4,549.09	5,493.91	5,488.75	5.16	1,065.499		
1,200.00	1,195.62	779.34	775.50	4.18	2.71	60.25	-3,054.89	4,585.00	5,491.09	5,484.33	6.76	812.712		
1,300.00	1,293.06	824.00	819.44	4.63	2.88	60.36	-3,054.63	4,592.76	5,490.19	5,482.85	7.34	747.664		
1,400.00	1,389.64	824.00	819.44	5.11	2.88	60.44	-3,054.63	4,592.76	5,485.95	5,478.16	7.79	703.965		
1,500.00	1,485.27	824.00	819.44	5.63	2.88	60.51	-3,054.63	4,592.76	5,481.81	5,473.53	8.28	662.410		
1,600.00	1,579.82	824.00	819.44	6.20	2.88	60.58	-3,054.63	4,592.76	5,477.77	5,468.97	8.80	622.780		
1,700.00	1,673.17	824.00	819.44	6.83	2.88	60.65	-3,054.63	4,592.76	5,473.84	5,464.48	9.36	584.955		
1,800.00	1,765.21	824.00	819.44	7.51	2.88	60.71	-3,054.63	4,592.76	5,470.02	5,460.05	9.97	548.886		
1,900.00	1,855.84	824.00	819.44	8.24	2.88	60.78	-3,054.63	4,592.76	5,466.32	5,455.70	10.62	514.561		
2,000.00	1,944.94	824.00	819.44	9.05	2.88	60.84	-3,054.63	4,592.76	5,462.75	5,451.42	11.33	481.990		
2,100.00	2,032.39	824.00	819.44	9.91	2.88	60.90	-3,054.63	4,592.76	5,459.31	5,447.21	12.10	451.187		
2,200.00	2,118.11	867.35	861.57	10.85	3.10	61.14	-3,056.98	4,602.68	5,455.53	5,442.43	13.10	416.407		
2,300.00	2,201.97	919.00	911.53	11.85	3.35	61.42	-3,059.66	4,615.51	5,451.42	5,437.21	14.21	383.710		
2,400.00	2,283.88	919.00	911.53	12.93	3.35	61.51	-3,059.66	4,615.51	5,446.81	5,431.65	15.15	359.437		
2,429.47	2,307.63	919.00	911.53	13.26	3.35	61.53	-3,059.66	4,615.51	5,445.48	5,430.04	15.44	352.594		
2,500.00	2,364.26	958.02	949.08	14.06	3.56	61.71	-3,061.79	4,625.92	5,442.30	5,425.97	16.33	333.228		
2,600.00	2,444.56	1,013.00	1,001.65	15.22	3.85	61.95	-3,065.28	4,641.60	5,439.43	5,421.83	17.60	309.020		
2,700.00	2,524.85	1,013.00	1,001.65	16.39	3.85	61.95	-3,065.28	4,641.60	5,437.44	5,418.81	18.64	291.770		
2,758.07	2,571.48	1,013.00	1,001.65	17.07	3.85	61.95	-3,065.28	4,641.60	5,437.13	5,417.89	19.24	282.581		
2,800.00	2,605.14	1,013.00	1,001.65	17.57	3.85	61.95	-3,065.28	4,641.60	5,437.29	5,417.62	19.68	276.322		
2,900.00	2,685.43	1,061.72	1,047.92	18.76	4.14	62.17	-3,069.03	4,656.40	5,438.21	5,417.24	20.97	259.371		
3,000.00	2,765.73	1,107.00	1,090.64	19.96	4.42	62.38	-3,073.22	4,670.82	5,440.84	5,418.59	22.25	244.512		
3,100.00	2,846.02	1,107.00	1,090.64	21.16	4.42	62.38	-3,073.22	4,670.82	5,444.65	5,421.34	23.31	233.603		
3,200.00	2,926.31	1,163.89	1,143.99	22.37	4.79	62.63	-3,078.79	4,689.77	5,449.71	5,425.03	24.68	220.857		
3,300.00	3,006.60	1,214.00	1,190.73	23.59	5.12	62.85	-3,083.48	4,707.21	5,455.83	5,429.82	26.01	209.744		
3,400.00	3,086.90	1,283.56	1,255.45	24.81	5.61	63.14	-3,090.08	4,731.83	5,462.79	5,435.31	27.48	198.818		
3,500.00	3,167.19	1,376.66	1,342.04	26.03	6.27	63.54	-3,099.15	4,764.81	5,470.24	5,441.14	29.10	188.004		
3,600.00	3,247.48	1,474.33	1,432.76	27.25	6.99	63.95	-3,107.85	4,799.94	5,477.84	5,447.08	30.77	178.045		
3,700.00	3,327.77	1,539.14	1,492.86	28.48	7.47	64.22	-3,113.37	4,823.56	5,485.85	5,453.61	32.25	170.108		
3,800.00	3,408.07	1,595.98	1,545.42	29.71	7.90	64.45	-3,118.42	4,844.57	5,494.73	5,461.05	33.69	163.103		
3,900.00	3,488.36	1,680.33	1,623.33	30.94	8.55	64.79	-3,126.07	4,876.00	5,504.23	5,468.91	35.32	155.842		
4,000.00	3,568.65	1,818.37	1,751.09	32.17	9.61	65.35	-3,137.85	4,926.94	5,513.23	5,475.91	37.32	147.713		
4,100.00	3,648.95	1,874.00	1,802.53	33.41	10.04	65.58	-3,142.71	4,947.53	5,522.86	5,484.07	38.79	142.395		
4,200.00	3,729.24	2,106.25	2,018.28	34.64	11.82	66.53	-3,163.37	5,030.96	5,532.44	5,490.99	41.45	133.474		
4,300.00	3,809.53	2,158.00	2,066.63	35.88	12.20	66.74	-3,167.51	5,048.92	5,540.70	5,497.80	42.90	129.140		
4,400.00	3,889.82	2,215.08	2,119.79	37.12	12.64	66.98	-3,172.11	5,069.22	5,549.83	5,505.43	44.40	124.983		
4,500.00	3,970.12	2,258.37	2,159.85	38.36	12.98	67.15	-3,175.75	5,085.19	5,560.20	5,514.39	45.81	121.380		
4,600.00	4,050.41	2,388.32	2,280.30	39.60	13.99	67.67	-3,186.68	5,132.73	5,570.59	5,522.74	47.84	116.437		
4,700.00	4,130.70	2,489.22	2,373.82	40.84	14.78	68.07	-3,195.11	5,169.67	5,581.32	5,531.64	49.68	112.356		
4,800.00	4,210.99	2,568.25	2,447.25	42.08	15.39	68.38	-3,201.76	5,198.11	5,591.94	5,540.58	51.36	108.880		
4,900.00	4,291.29	2,630.00	2,504.38	43.32	15.88	68.63	-3,207.19	5,220.91	5,603.60	5,550.68	52.92	105.890		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	2,668.26	2,539.64	44.57	16.19	68.78	-3,210.64	5,235.34	5,616.12	5,561.81	54.31	103.414		
5,100.00	4,451.87	2,734.95	2,600.96	45.81	16.73	69.03	-3,216.65	5,260.86	5,629.42	5,573.51	55.91	100.679		
5,200.00	4,532.16	2,823.32	2,682.13	47.05	17.46	69.37	-3,224.73	5,294.87	5,643.20	5,585.50	57.70	97.802		
5,300.00	4,612.46	2,952.12	2,800.76	48.30	18.50	69.86	-3,236.31	5,343.66	5,656.64	5,596.83	59.81	94.574		
5,400.00	4,692.75	3,019.85	2,863.18	49.54	19.05	70.13	-3,242.62	5,369.20	5,670.52	5,609.08	61.44	92.289		
5,500.00	4,773.04	3,095.51	2,932.76	50.79	19.67	70.41	-3,249.71	5,398.04	5,684.96	5,621.82	63.14	90.034		
5,600.00	4,853.34	3,153.02	2,985.51	52.03	20.15	70.63	-3,255.09	5,420.33	5,700.04	5,635.34	64.70	88.099		
5,700.00	4,933.63	3,306.38	3,125.86	53.28	21.44	71.19	-3,268.80	5,480.57	5,715.54	5,648.47	67.07	85.215		
5,800.00	5,013.92	3,366.69	3,181.22	54.53	21.94	71.41	-3,274.09	5,503.93	5,730.63	5,661.96	68.66	83.458		
5,900.00	5,094.21	3,497.79	3,301.86	55.77	23.01	71.91	-3,286.56	5,553.69	5,746.06	5,675.20	70.85	81.098		
6,000.00	5,174.51	3,574.00	3,372.06	57.02	23.63	72.19	-3,293.48	5,582.54	5,761.29	5,688.71	72.58	79.376		
6,100.00	5,254.80	3,614.89	3,409.59	58.27	23.98	72.34	-3,297.19	5,598.32	5,777.29	5,703.27	74.02	78.055		
6,200.00	5,335.09	3,668.00	3,458.03	59.52	24.43	72.53	-3,302.36	5,619.49	5,794.51	5,718.96	75.55	76.698		
6,300.00	5,415.38	3,835.98	3,611.86	60.76	25.84	73.14	-3,317.93	5,685.13	5,811.20	5,733.09	78.11	74.395		
6,400.00	5,495.68	3,933.41	3,701.67	62.01	26.63	73.50	-3,327.58	5,721.66	5,827.73	5,747.69	80.04	72.811		
6,500.00	5,575.97	4,057.51	3,816.12	63.26	27.64	73.96	-3,339.36	5,768.17	5,844.18	5,761.98	82.20	71.093		
6,600.00	5,656.26	4,197.68	3,945.55	64.51	28.77	74.47	-3,351.79	5,820.50	5,860.34	5,775.82	84.52	69.337		
6,700.00	5,736.55	4,280.12	4,021.85	65.76	29.43	74.77	-3,358.72	5,850.94	5,876.10	5,789.77	86.33	68.065		
6,800.00	5,816.85	4,337.43	4,074.86	67.01	29.89	74.98	-3,363.95	5,872.10	5,892.62	5,804.70	87.92	67.022		
6,900.00	5,897.14	4,410.96	4,142.75	68.26	30.48	75.25	-3,370.86	5,899.49	5,909.75	5,820.09	89.65	65.917		
7,000.00	5,977.43	6,294.35	5,970.31	69.50	39.59	83.96	-3,455.93	6,256.63	5,916.39	5,815.65	100.74	58.731		
7,100.00	6,057.72	6,376.43	6,052.39	70.75	39.73	84.44	-3,455.54	6,256.22	5,908.07	5,805.68	102.39	57.704		
7,200.00	6,138.02	6,457.13	6,133.08	72.00	39.88	84.90	-3,455.09	6,255.88	5,900.33	5,796.29	104.03	56.716		
7,300.00	6,218.31	6,540.98	6,216.94	73.25	40.03	85.39	-3,454.61	6,255.53	5,893.17	5,787.49	105.68	55.764		
7,400.00	6,298.60	6,627.18	6,303.13	74.50	40.18	85.89	-3,453.95	6,255.25	5,886.52	5,779.19	107.33	54.845		
7,500.00	6,378.90	6,705.90	6,381.85	75.75	40.33	86.34	-3,453.32	6,254.98	5,880.43	5,771.47	108.96	53.966		
7,600.00	6,459.19	6,776.56	6,452.50	77.00	40.47	86.75	-3,452.69	6,255.00	5,875.03	5,764.45	110.59	53.126		
7,700.00	6,539.48	6,835.54	6,511.49	78.25	40.59	87.09	-3,452.12	6,255.39	5,870.43	5,758.24	112.19	52.326		
7,800.00	6,619.77	6,896.40	6,572.33	79.50	40.72	87.43	-3,451.54	6,256.27	5,866.73	5,752.94	113.79	51.558		
7,900.00	6,700.07	6,970.69	6,646.61	80.75	40.89	87.85	-3,450.79	6,257.73	5,863.77	5,748.36	115.41	50.807		
8,000.00	6,780.36	7,089.22	6,765.10	82.00	41.16	88.52	-3,449.35	6,259.94	5,861.20	5,744.08	117.12	50.046		
8,100.00	6,860.65	7,192.34	6,868.20	83.25	41.39	89.11	-3,447.64	6,261.44	5,858.70	5,739.92	118.78	49.324		
8,200.00	6,940.94	7,273.72	6,949.56	84.50	41.57	89.57	-3,446.27	6,262.51	5,856.72	5,736.33	120.39	48.646		
8,300.00	7,021.24	7,353.00	7,028.83	85.76	41.74	90.02	-3,444.89	6,263.24	5,855.14	5,733.14	122.00	47.995		
8,400.00	7,101.53	7,410.57	7,086.40	87.01	41.86	90.35	-3,444.17	6,263.46	5,854.36	5,730.82	123.54	47.389		
8,418.28	7,116.21	7,418.54	7,094.37	87.23	41.87	90.40	-3,444.13	6,263.47	5,854.34	5,730.52	123.82	47.283		
8,500.00	7,181.82	7,470.54	7,146.36	88.26	41.98	90.70	-3,444.07	6,263.42	5,854.70	5,729.62	125.07	46.810		
8,605.60	7,266.61	7,664.84	7,340.65	89.58	42.36	91.84	-3,442.57	6,261.83	5,855.11	5,728.21	126.90	46.139		
8,650.00	7,302.60	7,751.93	7,427.70	90.13	42.53	96.47	-3,440.57	6,260.73	5,853.21	5,725.55	127.66	45.850		
8,700.00	7,343.78	7,788.92	7,464.69	90.72	42.60	79.39	-3,439.60	6,260.28	5,847.29	5,718.89	128.40	45.540		
8,750.00	7,385.32	7,826.20	7,501.94	91.28	42.67	71.82	-3,438.63	6,259.86	5,837.47	5,708.36	129.11	45.214		
8,800.00	7,426.92	7,823.00	7,498.75	91.81	42.67	63.84	-3,438.71	6,259.90	5,823.95	5,694.23	129.72	44.898		
8,850.00	7,468.27	7,823.00	7,498.75	92.29	42.67	55.97	-3,438.71	6,259.90	5,806.91	5,676.64	130.28	44.574		
8,900.00	7,509.04	7,860.11	7,535.85	92.72	42.75	48.60	-3,437.99	6,259.68	5,786.07	5,655.22	130.85	44.219		
8,950.00	7,548.93	7,871.84	7,547.58	93.10	42.77	41.56	-3,437.86	6,259.68	5,762.03	5,630.71	131.32	43.878		
9,000.00	7,587.63	7,883.30	7,559.04	93.43	42.80	34.99	-3,437.77	6,259.73	5,734.77	5,603.05	131.73	43.534		
9,050.00	7,624.85	7,918.00	7,593.74	93.71	42.87	28.95	-3,437.78	6,260.07	5,704.63	5,572.50	132.13	43.175		
9,100.00	7,660.30	7,918.00	7,593.74	93.93	42.87	23.04	-3,437.78	6,260.07	5,671.34	5,538.95	132.39	42.837		
9,150.00	7,693.72	7,918.00	7,593.74	94.10	42.87	17.27	-3,437.78	6,260.07	5,635.48	5,502.89	132.60	42.501		
9,200.00	7,724.85	7,936.86	7,612.59	94.23	42.92	11.46	-3,437.90	6,260.36	5,597.23	5,464.44	132.78	42.153		
9,250.00	7,753.45	7,961.44	7,637.17	94.30	42.98	5.27	-3,438.04	6,260.79	5,556.74	5,423.81	132.93	41.802		
9,300.00	7,779.31	9,300.00	7,733.71	94.34	46.39	-1.77	-3,437.80	6,263.16	5,514.21	5,377.60	136.61	40.365		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	8,175.05	7,850.66	94.33	43.51	-10.66	-3,435.25	6,266.43	5,469.55	5,336.13	133.42	40.994		
9,400.00	7,822.03	8,199.28	7,874.87	94.28	43.57	-21.51	-3,434.57	6,266.95	5,423.58	5,290.17	133.40	40.655		
9,450.00	7,838.57	8,219.12	7,894.71	94.20	43.62	-34.84	-3,434.01	6,267.32	5,376.74	5,243.41	133.33	40.327		
9,500.00	7,851.72	8,234.48	7,910.05	94.10	43.66	-50.23	-3,433.58	6,267.57	5,329.42	5,196.23	133.20	40.011		
9,550.00	7,861.37	8,245.25	7,920.82	93.96	43.68	-65.99	-3,433.29	6,267.73	5,282.01	5,148.99	133.02	39.709		
9,600.00	7,867.46	8,251.38	7,926.95	93.81	43.70	-80.01	-3,433.12	6,267.81	5,234.87	5,102.08	132.79	39.423		
9,650.00	7,869.94	8,252.82	7,928.39	93.64	43.70	-91.16	-3,433.08	6,267.83	5,188.40	5,055.89	132.51	39.155		
9,659.14	7,870.00	8,252.58	7,928.15	93.60	43.70	-92.87	-3,433.09	6,267.83	5,180.02	5,047.56	132.46	39.108		
9,700.00	7,870.00	8,251.13	7,926.70	93.46	43.70	-92.84	-3,433.12	6,267.81	5,142.61	5,010.40	132.20	38.899		
9,800.00	7,870.00	8,247.59	7,923.16	93.11	43.69	-92.74	-3,433.22	6,267.76	5,051.28	4,919.70	131.58	38.390		
9,900.00	7,870.00	8,244.04	7,919.61	92.77	43.68	-92.64	-3,433.32	6,267.71	4,960.29	4,829.36	130.93	37.886		
10,000.00	7,870.00	8,240.48	7,916.05	92.46	43.67	-92.54	-3,433.42	6,267.66	4,869.65	4,739.40	130.25	37.387		
10,100.00	7,870.00	8,236.91	7,912.48	92.16	43.66	-92.44	-3,433.52	6,267.61	4,779.38	4,649.83	129.55	36.893		
10,200.00	7,870.00	8,233.32	7,908.90	91.87	43.65	-92.34	-3,433.62	6,267.56	4,689.50	4,560.68	128.82	36.405		
10,300.00	7,870.00	8,229.73	7,905.30	91.60	43.64	-92.25	-3,433.72	6,267.50	4,600.04	4,471.98	128.06	35.922		
10,400.00	7,870.00	8,226.12	7,901.70	91.34	43.64	-92.15	-3,433.82	6,267.44	4,511.02	4,383.75	127.27	35.445		
10,500.00	7,870.00	8,222.50	7,898.08	91.11	43.63	-92.05	-3,433.92	6,267.38	4,422.46	4,296.02	126.45	34.975		
10,600.00	7,870.00	8,218.87	7,894.46	90.88	43.62	-91.95	-3,434.02	6,267.32	4,334.40	4,208.81	125.59	34.512		
10,700.00	7,870.00	8,215.23	7,890.82	90.67	43.61	-91.85	-3,434.12	6,267.25	4,246.87	4,122.17	124.70	34.056		
10,800.00	7,870.00	8,211.58	7,887.17	90.48	43.60	-91.75	-3,434.22	6,267.19	4,159.90	4,036.12	123.78	33.608		
10,900.00	7,870.00	8,207.92	7,883.51	90.31	43.59	-91.64	-3,434.32	6,267.12	4,073.52	3,950.70	122.82	33.168		
11,000.00	7,870.00	8,204.24	7,879.84	90.15	43.58	-91.54	-3,434.43	6,267.05	3,987.78	3,865.96	121.82	32.736		
11,100.00	7,870.00	8,200.56	7,876.15	90.00	43.57	-91.44	-3,434.53	6,266.98	3,902.71	3,781.94	120.78	32.314		
11,200.00	7,870.00	8,196.86	7,872.46	89.88	43.56	-91.34	-3,434.63	6,266.90	3,818.37	3,698.67	119.69	31.901		
11,300.00	7,870.00	8,193.15	7,868.75	89.77	43.56	-91.24	-3,434.74	6,266.83	3,734.79	3,616.22	118.57	31.498		
11,400.00	7,870.00	8,189.43	7,865.03	89.68	43.55	-91.13	-3,434.84	6,266.75	3,652.04	3,534.63	117.40	31.106		
11,500.00	7,870.00	8,185.70	7,861.30	89.60	43.54	-91.03	-3,434.95	6,266.67	3,570.16	3,453.97	116.19	30.726		
11,600.00	7,870.00	8,181.96	7,857.56	89.55	43.53	-90.93	-3,435.05	6,266.59	3,489.23	3,374.29	114.94	30.356		
11,700.00	7,870.00	8,178.20	7,853.81	89.52	43.52	-90.82	-3,435.16	6,266.50	3,409.31	3,295.66	113.65	29.999		
11,800.00	7,870.00	8,174.43	7,850.05	89.50	43.51	-90.72	-3,435.27	6,266.41	3,330.47	3,218.16	112.31	29.654		
11,900.00	7,870.00	8,170.65	7,846.27	89.51	43.50	-90.62	-3,435.37	6,266.33	3,252.79	3,141.85	110.94	29.322		
12,000.00	7,870.00	8,166.86	7,842.48	89.54	43.49	-90.51	-3,435.48	6,266.23	3,176.35	3,066.83	109.52	29.001		
12,100.00	7,870.00	8,163.06	7,838.68	89.59	43.48	-90.41	-3,435.59	6,266.14	3,101.26	2,993.17	108.08	28.693		
12,200.00	7,870.00	8,159.25	7,834.87	89.66	43.47	-90.30	-3,435.70	6,266.05	3,027.60	2,920.98	106.62	28.397		
12,300.00	7,870.00	8,155.42	7,831.05	89.77	43.46	-90.19	-3,435.81	6,265.95	2,955.48	2,850.34	105.14	28.111		
12,400.00	7,870.00	8,151.58	7,827.21	89.89	43.46	-90.09	-3,435.92	6,265.85	2,885.02	2,781.37	103.65	27.834		
12,500.00	7,870.00	8,147.73	7,823.36	90.05	43.45	-89.98	-3,436.03	6,265.74	2,816.35	2,714.17	102.18	27.563		
12,600.00	7,870.00	8,143.87	7,819.50	90.24	43.44	-89.88	-3,436.14	6,265.64	2,749.60	2,648.87	100.73	27.296		
12,700.00	7,870.00	8,139.99	7,815.63	90.46	43.43	-89.77	-3,436.25	6,265.53	2,684.91	2,585.57	99.34	27.029		
12,800.00	7,870.00	8,136.10	7,811.74	90.71	43.42	-89.66	-3,436.36	6,265.42	2,622.43	2,524.42	98.02	26.755		
12,900.00	7,870.00	8,132.20	7,807.85	90.99	43.41	-89.55	-3,436.47	6,265.31	2,562.33	2,465.53	96.80	26.470		
13,000.00	7,870.00	8,128.29	7,803.94	91.32	43.40	-89.45	-3,436.59	6,265.20	2,504.78	2,409.05	95.73	26.165		
13,100.00	7,870.00	8,125.25	7,800.90	91.68	43.39	-89.36	-3,436.60	6,265.15	2,449.95	2,355.11	94.83	25.834		
13,200.00	7,870.00	8,120.43	7,796.08	92.08	43.38	-89.23	-3,436.81	6,264.96	2,398.03	2,303.87	94.17	25.466		
13,300.00	7,870.00	8,116.48	7,792.13	92.52	43.37	-89.12	-3,436.93	6,264.84	2,349.23	2,255.47	93.76	25.056		
13,400.00	7,870.00	8,112.51	7,788.17	93.00	43.36	-89.01	-3,437.04	6,264.72	2,303.72	2,210.06	93.66	24.597		
13,500.00	7,870.00	8,108.54	7,784.20	93.53	43.35	-88.90	-3,437.16	6,264.59	2,261.72	2,167.82	93.90	24.086		
13,600.00	7,870.00	8,104.80	7,780.47	94.10	43.34	-88.80	-3,437.27	6,264.47	2,223.43	2,128.91	94.51	23.525		
13,700.00	7,870.00	8,101.70	7,777.37	94.72	43.33	-88.71	-3,437.36	6,264.37	2,189.03	2,093.51	95.52	22.918		
13,800.00	7,870.00	8,098.83	7,774.50	95.38	43.33	-88.63	-3,437.43	6,264.28	2,158.71	2,061.79	96.92	22.273		
13,900.00	7,870.00	8,096.17	7,771.85	96.09	43.32	-88.56	-3,437.50	6,264.19	2,132.65	2,033.93	98.72	21.602		
14,000.00	7,870.00	8,093.70	7,769.38	96.84	43.31	-88.49	-3,437.56	6,264.11	2,111.01	2,010.11	100.91	20.921		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,091.40	7,767.08	97.64	43.31	-88.43	-3,437.62	6,264.04	2,093.93	1,990.49	103.44	20.243		
14,200.00	7,870.00	8,089.26	7,764.94	98.48	43.30	-88.37	-3,437.67	6,263.98	2,081.51	1,975.23	106.28	19.585		
14,300.00	7,870.00	8,087.25	7,762.94	99.37	43.30	-88.31	-3,437.72	6,263.91	2,073.84	1,964.45	109.39	18.959		
14,400.00	7,870.00	8,085.37	7,761.06	100.30	43.29	-88.26	-3,437.76	6,263.86	2,070.97	1,958.28	112.70	18.376		
14,409.40	7,870.00	8,085.20	7,760.89	100.39	43.29	-88.25	-3,437.76	6,263.85	2,070.95	1,957.94	113.02	18.324 CC		
14,500.00	7,870.00	8,083.61	7,759.29	101.26	43.29	-88.21	-3,437.79	6,263.80	2,072.93	1,956.78	116.16	17.846 ES		
14,600.00	7,870.00	8,081.94	7,757.63	102.27	43.28	-88.16	-3,437.83	6,263.75	2,079.70	1,959.99	119.71	17.373		
14,700.00	7,870.00	8,080.38	7,756.06	103.31	43.28	-88.12	-3,437.86	6,263.71	2,091.24	1,967.94	123.29	16.962		
14,800.00	7,870.00	8,078.89	7,754.58	104.38	43.28	-88.08	-3,437.89	6,263.66	2,107.46	1,980.59	126.86	16.612		
14,900.00	7,870.00	8,077.49	7,753.18	105.49	43.27	-88.04	-3,437.91	6,263.62	2,128.25	1,997.89	130.37	16.325		
15,000.00	7,870.00	8,076.17	7,751.86	106.63	43.27	-88.00	-3,437.94	6,263.58	2,153.50	2,019.73	133.77	16.099		
15,100.00	7,870.00	8,074.91	7,750.60	107.80	43.27	-87.97	-3,437.96	6,263.54	2,183.03	2,046.00	137.04	15.930		
15,200.00	7,870.00	8,073.71	7,749.40	109.00	43.26	-87.94	-3,437.98	6,263.51	2,216.69	2,076.54	140.15	15.817		
15,300.00	7,870.00	8,072.57	7,748.27	110.22	43.26	-87.90	-3,438.00	6,263.47	2,254.28	2,111.20	143.08	15.755		
15,400.00	7,870.00	8,071.49	7,747.18	111.47	43.26	-87.87	-3,438.02	6,263.44	2,295.62	2,149.79	145.83	15.742 SF		
15,500.00	7,870.00	8,070.46	7,746.15	112.74	43.25	-87.85	-3,438.04	6,263.41	2,340.50	2,192.11	148.38	15.773		
15,600.00	7,870.00	8,069.47	7,745.16	114.03	43.25	-87.82	-3,438.05	6,263.38	2,388.72	2,237.98	150.74	15.846		
15,700.00	7,870.00	8,068.53	7,744.22	115.34	43.25	-87.79	-3,438.07	6,263.36	2,440.09	2,287.18	152.91	15.957		
15,800.00	7,870.00	8,067.63	7,743.32	116.68	43.25	-87.77	-3,438.08	6,263.33	2,494.41	2,339.51	154.90	16.103		
15,900.00	7,870.00	8,066.76	7,742.46	118.02	43.25	-87.74	-3,438.09	6,263.30	2,551.50	2,394.79	156.71	16.281		
16,000.00	7,870.00	8,065.94	7,741.63	119.39	43.24	-87.72	-3,438.10	6,263.28	2,611.17	2,452.81	158.36	16.489		
16,100.00	7,870.00	8,065.14	7,740.84	120.77	43.24	-87.70	-3,438.12	6,263.26	2,673.25	2,513.41	159.84	16.724		
16,200.00	7,870.00	8,064.38	7,740.08	122.17	43.24	-87.68	-3,438.13	6,263.24	2,737.57	2,576.39	161.18	16.984		
16,300.00	7,870.00	8,063.65	7,739.35	123.58	43.24	-87.66	-3,438.14	6,263.21	2,803.99	2,641.60	162.39	17.267		
16,400.00	7,870.00	8,062.95	7,738.64	125.00	43.24	-87.64	-3,438.15	6,263.19	2,872.35	2,708.88	163.47	17.571		
16,500.00	7,870.00	8,062.27	7,737.97	126.43	43.23	-87.62	-3,438.15	6,263.18	2,942.52	2,778.08	164.44	17.894		
16,600.00	7,870.00	8,061.62	7,737.31	127.88	43.23	-87.60	-3,438.16	6,263.16	3,014.38	2,849.07	165.31	18.235		
16,700.00	7,870.00	8,060.99	7,736.69	129.34	43.23	-87.58	-3,438.17	6,263.14	3,087.80	2,921.72	166.08	18.592		
16,800.00	7,870.00	8,060.38	7,736.08	130.81	43.23	-87.57	-3,438.18	6,263.12	3,162.68	2,995.91	166.77	18.965		
16,900.00	7,870.00	8,059.80	7,735.50	132.28	43.23	-87.55	-3,438.19	6,263.11	3,238.92	3,071.54	167.38	19.351		
17,000.00	7,870.00	8,059.23	7,734.93	133.77	43.23	-87.54	-3,438.19	6,263.09	3,316.42	3,148.50	167.92	19.750		
17,100.00	7,870.00	8,058.69	7,734.39	135.27	43.22	-87.52	-3,438.20	6,263.07	3,395.09	3,226.70	168.40	20.161		
17,200.00	7,870.00	8,058.16	7,733.86	136.77	43.22	-87.51	-3,438.20	6,263.06	3,474.87	3,306.05	168.82	20.584		
17,300.00	7,870.00	8,057.65	7,733.35	138.28	43.22	-87.49	-3,438.21	6,263.05	3,555.66	3,386.47	169.19	21.016		
17,400.00	7,870.00	8,057.16	7,732.86	139.80	43.22	-87.48	-3,438.22	6,263.03	3,637.41	3,467.90	169.51	21.458		
17,500.00	7,870.00	8,056.68	7,732.38	141.33	43.22	-87.46	-3,438.22	6,263.02	3,720.05	3,550.26	169.79	21.909		
17,600.00	7,870.00	8,056.22	7,731.92	142.86	43.22	-87.45	-3,438.23	6,263.01	3,803.53	3,633.49	170.04	22.368		
17,700.00	7,870.00	8,055.77	7,731.47	144.40	43.22	-87.44	-3,438.23	6,262.99	3,887.78	3,717.53	170.25	22.835		
17,800.00	7,870.00	8,055.33	7,731.03	145.95	43.22	-87.43	-3,438.24	6,262.98	3,972.77	3,802.33	170.44	23.309		
17,900.00	7,870.00	8,054.91	7,730.61	147.50	43.22	-87.42	-3,438.24	6,262.97	4,058.43	3,887.84	170.59	23.790		
18,000.00	7,870.00	8,054.50	7,730.20	149.06	43.21	-87.40	-3,438.24	6,262.96	4,144.75	3,974.02	170.73	24.277		
18,100.00	7,870.00	8,054.10	7,729.80	150.63	43.21	-87.39	-3,438.25	6,262.95	4,231.66	4,060.82	170.84	24.770		
18,200.00	7,870.00	8,053.72	7,729.42	152.20	43.21	-87.38	-3,438.25	6,262.94	4,319.14	4,148.21	170.93	25.268		
18,300.00	7,870.00	8,053.34	7,729.04	153.77	43.21	-87.37	-3,438.25	6,262.93	4,407.15	4,236.14	171.01	25.772		
18,400.00	7,870.00	8,052.98	7,728.68	155.35	43.21	-87.36	-3,438.26	6,262.92	4,495.66	4,324.60	171.07	26.280		
18,500.00	7,870.00	8,052.62	7,728.32	156.93	43.21	-87.35	-3,438.26	6,262.91	4,584.65	4,413.54	171.11	26.793		
18,600.00	7,870.00	8,052.28	7,727.98	158.52	43.21	-87.34	-3,438.27	6,262.90	4,674.08	4,502.93	171.15	27.310		
18,700.00	7,870.00	8,051.94	7,727.64	160.11	43.21	-87.33	-3,438.27	6,262.89	4,763.93	4,592.76	171.17	27.832		
18,800.00	7,870.00	8,051.61	7,727.31	161.71	43.21	-87.32	-3,438.27	6,262.88	4,854.18	4,683.00	171.18	28.356		
18,900.00	7,870.00	8,051.29	7,727.00	163.31	43.21	-87.32	-3,438.27	6,262.87	4,944.80	4,773.62	171.19	28.885		
19,000.00	7,870.00	8,050.98	7,726.68	164.91	43.21	-87.31	-3,438.28	6,262.86	5,035.78	4,864.60	171.19	29.417		
19,100.00	7,870.00	8,050.68	7,726.38	166.52	43.20	-87.30	-3,438.28	6,262.85	5,127.10	4,955.92	171.18	29.952		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,050.38	7,726.09	168.13	43.20	-87.29	-3,438.28	6,262.84	5,218.73	5,047.57	171.16	30.490	
19,300.00	7,870.00	8,050.10	7,725.80	169.75	43.20	-87.28	-3,438.28	6,262.84	5,310.66	5,139.52	171.14	31.031	
19,383.51	7,870.00	8,049.86	7,725.56	171.10	43.20	-87.28	-3,438.29	6,262.83	5,387.66	5,216.54	171.12	31.485	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	81.87	772.15	5,405.28	5,460.88					
100.00	100.00	11.00	11.00	0.13	0.09	81.87	772.15	5,405.28	5,460.16	5,459.94	0.22	N/A		
200.00	200.00	111.00	111.00	0.49	0.97	81.87	772.15	5,405.28	5,460.16	5,458.69	1.46	3,735.848		
300.00	300.00	211.00	211.00	0.85	2.71	81.87	772.15	5,405.28	5,460.16	5,456.59	3.57	1,531.447		
400.00	400.00	311.00	311.00	1.21	4.46	81.87	772.15	5,405.28	5,460.16	5,454.49	5.67	963.133		
500.00	500.00	411.00	411.00	1.57	6.20	81.87	772.15	5,405.28	5,460.16	5,452.38	7.77	702.455		
600.00	600.00	511.00	511.00	1.93	7.95	81.87	772.15	5,405.28	5,460.16	5,450.28	9.88	552.829		
700.00	699.98	610.98	610.98	2.28	9.69	18.07	772.15	5,405.28	5,458.50	5,446.52	11.98	455.795		
800.00	799.84	710.84	710.84	2.64	11.44	18.11	772.15	5,405.28	5,453.52	5,439.45	14.07	387.547		
900.00	899.45	810.45	810.45	3.00	13.18	18.19	772.15	5,405.28	5,445.24	5,429.07	16.17	336.816		
1,000.00	998.70	909.70	909.70	3.37	14.91	18.31	772.15	5,405.28	5,433.65	5,415.40	18.26	297.601		
1,100.00	1,097.47	1,008.47	1,008.47	3.76	16.63	18.45	772.15	5,405.28	5,418.79	5,398.45	20.34	266.352		
1,200.00	1,195.62	1,106.62	1,106.62	4.18	18.35	18.64	772.15	5,405.28	5,400.67	5,378.24	22.42	240.840		
1,300.00	1,293.06	1,204.06	1,204.06	4.63	20.05	18.85	772.15	5,405.28	5,379.31	5,354.82	24.50	219.595		
1,400.00	1,389.64	1,300.64	1,300.64	5.11	21.73	19.11	772.15	5,405.28	5,354.75	5,328.19	26.56	201.610		
1,500.00	1,485.27	1,403.73	1,396.27	5.63	23.53	19.40	772.15	5,405.28	5,327.02	5,298.28	28.74	185.327		
1,600.00	1,579.82	1,509.18	1,490.82	6.20	25.37	19.74	772.15	5,405.28	5,296.16	5,265.18	30.98	170.968		
1,700.00	1,673.17	1,584.17	1,584.17	6.83	26.68	20.11	772.15	5,405.28	5,262.22	5,229.53	32.69	160.980		
1,800.00	1,765.21	1,676.21	1,676.21	7.51	28.29	20.54	772.15	5,405.28	5,225.23	5,190.53	34.71	150.549		
1,900.00	1,855.84	1,766.84	1,766.84	8.24	29.87	21.01	772.15	5,405.28	5,185.27	5,148.55	36.71	141.233		
2,000.00	1,944.94	1,855.94	1,855.94	9.05	31.42	21.53	772.15	5,405.28	5,142.38	5,103.67	38.71	132.855		
2,100.00	2,032.39	1,943.39	1,943.39	9.91	32.95	22.11	772.15	5,405.28	5,096.62	5,055.94	40.68	125.271		
2,200.00	2,118.11	2,029.11	2,029.11	10.85	34.45	22.76	772.15	5,405.28	5,048.07	5,005.42	42.65	118.367		
2,300.00	2,201.97	2,112.97	2,112.97	11.85	35.91	23.46	772.15	5,405.28	4,996.79	4,952.20	44.60	112.048		
2,400.00	2,283.88	2,205.12	2,194.88	12.93	37.52	24.24	772.15	5,405.28	4,942.86	4,896.16	46.71	105.831		
2,429.47	2,307.63	2,218.63	2,218.63	13.26	37.75	24.48	772.15	5,405.28	4,926.47	4,879.38	47.10	104.605		
2,500.00	2,364.26	2,275.26	2,275.26	14.06	38.74	24.68	772.15	5,405.28	4,887.01	4,838.56	48.45	100.870		
2,600.00	2,444.56	2,355.56	2,355.56	15.22	40.14	24.97	772.15	5,405.28	4,831.13	4,780.76	50.38	95.896		
2,700.00	2,524.85	2,435.85	2,435.85	16.39	41.54	25.26	772.15	5,405.28	4,775.35	4,723.02	52.33	91.263		
2,800.00	2,605.14	2,516.14	2,516.14	17.57	42.95	25.56	772.15	5,405.28	4,719.65	4,665.37	54.29	86.940		
2,900.00	2,685.43	2,603.57	2,596.43	18.76	44.47	25.86	772.15	5,405.28	4,664.06	4,607.67	56.39	82.716		
3,000.00	2,765.73	2,676.73	2,676.73	19.96	45.75	26.18	772.15	5,405.28	4,608.56	4,550.31	58.25	79.115		
3,100.00	2,846.02	2,757.02	2,757.02	21.16	47.15	26.49	772.15	5,405.28	4,553.16	4,492.91	60.25	75.567		
3,200.00	2,926.31	2,837.31	2,837.31	22.37	48.55	26.82	772.15	5,405.28	4,497.88	4,435.61	62.27	72.233		
3,300.00	3,006.60	2,917.60	2,917.60	23.59	49.95	27.15	772.15	5,405.28	4,442.71	4,378.41	64.30	69.095		
3,400.00	3,086.90	3,002.10	2,997.90	24.81	51.43	27.50	772.15	5,405.28	4,387.65	4,321.23	66.41	66.066		
3,500.00	3,167.19	3,078.19	3,078.19	26.03	52.76	27.85	772.15	5,405.28	4,332.71	4,264.32	68.39	63.348		
3,600.00	3,247.48	3,158.48	3,158.48	27.25	54.16	28.20	772.15	5,405.28	4,277.90	4,207.43	70.46	60.711		
3,700.00	3,327.77	3,238.77	3,238.77	28.48	55.56	28.57	772.15	5,405.28	4,223.22	4,150.67	72.54	58.216		
3,800.00	3,408.07	3,319.07	3,319.07	29.71	56.96	28.94	772.15	5,405.28	4,168.67	4,094.03	74.64	55.851		
3,900.00	3,488.36	3,400.64	3,399.36	30.94	58.38	29.33	772.15	5,405.28	4,114.26	4,037.49	76.77	53.592		
4,000.00	3,568.65	3,479.65	3,479.65	32.17	59.76	29.72	772.15	5,405.28	4,060.00	3,981.13	78.87	51.477		
4,100.00	3,648.95	3,559.95	3,559.95	33.41	61.16	30.13	772.15	5,405.28	4,005.89	3,924.88	81.01	49.451		
4,200.00	3,729.24	3,640.24	3,640.24	34.64	62.57	30.54	772.15	5,405.28	3,951.94	3,868.78	83.16	47.522		
4,300.00	3,809.53	3,720.53	3,720.53	35.88	63.97	30.96	772.15	5,405.28	3,898.15	3,812.83	85.33	45.685		
4,400.00	3,889.82	3,800.82	3,800.82	37.12	65.37	31.40	772.15	5,405.28	3,844.54	3,757.03	87.51	43.932		
4,500.00	3,970.12	3,881.12	3,881.12	38.36	66.77	31.84	772.15	5,405.28	3,791.11	3,701.39	89.71	42.259		
4,600.00	4,050.41	3,961.41	3,961.41	39.60	68.17	32.30	772.15	5,405.28	3,737.86	3,645.93	91.93	40.661		
4,700.00	4,130.70	4,041.70	4,041.70	40.84	69.57	32.77	772.15	5,405.28	3,684.80	3,590.64	94.16	39.133		
4,800.00	4,210.99	4,121.99	4,121.99	42.08	70.97	33.25	772.15	5,405.28	3,631.95	3,535.54	96.41	37.670		
4,900.00	4,291.29	4,202.29	4,202.29	43.32	72.38	33.74	772.15	5,405.28	3,579.31	3,480.63	98.69	36.270		
5,000.00	4,371.58	4,282.58	4,282.58	44.57	73.78	34.25	772.15	5,405.28	3,526.90	3,425.92	100.98	34.928		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,362.87	4,362.87	45.81	75.18	34.77	772.15	5,405.28	3,474.71	3,371.43	103.29	33.641		
5,200.00	4,532.16	4,443.16	4,443.16	47.05	76.58	35.30	772.15	5,405.28	3,422.77	3,317.15	105.62	32.406		
5,300.00	4,612.46	4,523.46	4,523.46	48.30	77.98	35.85	772.15	5,405.28	3,371.08	3,263.11	107.98	31.221		
5,400.00	4,692.75	4,603.75	4,603.75	49.54	79.38	36.42	772.15	5,405.28	3,319.66	3,209.31	110.35	30.082		
5,500.00	4,773.04	4,684.04	4,684.04	50.79	80.78	37.00	772.15	5,405.28	3,268.52	3,155.76	112.76	28.988		
5,600.00	4,853.34	4,764.34	4,764.34	52.03	82.18	37.59	772.15	5,405.28	3,217.66	3,102.48	115.18	27.935		
5,700.00	4,933.63	4,844.63	4,844.63	53.28	83.59	38.20	772.15	5,405.28	3,167.11	3,049.48	117.63	26.923		
5,800.00	5,013.92	4,924.92	4,924.92	54.53	84.99	38.83	772.15	5,405.28	3,116.89	2,996.77	120.11	25.950		
5,900.00	5,094.21	5,005.21	5,005.21	55.77	86.39	39.48	772.15	5,405.28	3,066.99	2,944.37	122.62	25.012		
6,000.00	5,174.51	5,085.51	5,085.51	57.02	87.79	40.14	772.15	5,405.28	3,017.46	2,892.30	125.16	24.110		
6,100.00	5,254.80	5,165.80	5,165.80	58.27	89.19	40.82	772.15	5,405.28	2,968.29	2,840.57	127.72	23.240		
6,200.00	5,335.09	5,246.09	5,246.09	59.52	90.59	41.53	772.15	5,405.28	2,919.51	2,789.19	130.32	22.403		
6,300.00	5,415.38	5,326.38	5,326.38	60.76	91.99	42.25	772.15	5,405.28	2,871.14	2,738.19	132.95	21.596		
6,400.00	5,495.68	5,406.68	5,406.68	62.01	93.40	42.99	772.15	5,405.28	2,823.19	2,687.59	135.61	20.819		
6,500.00	5,575.97	5,486.97	5,486.97	63.26	94.80	43.76	772.15	5,405.28	2,775.70	2,637.40	138.30	20.070		
6,600.00	5,656.26	5,567.26	5,567.26	64.51	96.20	44.54	772.15	5,405.28	2,728.69	2,587.65	141.04	19.347		
6,700.00	5,736.55	5,647.55	5,647.55	65.76	97.60	45.35	772.15	5,405.28	2,682.18	2,538.37	143.80	18.652		
6,800.00	5,816.85	5,727.85	5,727.85	67.01	99.00	46.18	772.15	5,405.28	2,636.19	2,489.58	146.61	17.981		
6,900.00	5,897.14	5,808.14	5,808.14	68.26	100.40	47.04	772.15	5,405.28	2,590.76	2,441.31	149.46	17.335		
7,000.00	5,977.43	5,888.43	5,888.43	69.50	101.80	47.92	772.15	5,405.28	2,545.92	2,393.58	152.34	16.712		
7,100.00	6,057.72	5,968.72	5,968.72	70.75	103.21	48.83	772.15	5,405.28	2,501.69	2,346.42	155.26	16.112		
7,200.00	6,138.02	6,049.02	6,049.02	72.00	104.61	49.76	772.15	5,405.28	2,458.11	2,299.88	158.23	15.535		
7,300.00	6,218.31	6,129.31	6,129.31	73.25	106.01	50.72	772.15	5,405.28	2,415.21	2,253.98	161.24	14.979		
7,400.00	6,298.60	6,209.60	6,209.60	74.50	107.41	51.70	772.15	5,405.28	2,373.04	2,208.75	164.29	14.445		
7,500.00	6,378.90	6,289.90	6,289.90	75.75	108.81	52.71	772.15	5,405.28	2,331.63	2,164.25	167.38	13.930		
7,600.00	6,459.19	6,370.19	6,370.19	77.00	110.21	53.75	772.15	5,405.28	2,291.02	2,120.51	170.51	13.436		
7,700.00	6,539.48	6,450.48	6,450.48	78.25	111.61	54.82	772.15	5,405.28	2,251.26	2,077.57	173.69	12.961		
7,800.00	6,619.77	6,530.77	6,530.77	79.50	113.01	55.92	772.15	5,405.28	2,212.38	2,035.48	176.91	12.506		
7,900.00	6,700.07	6,611.07	6,611.07	80.75	114.42	57.04	772.15	5,405.28	2,174.45	1,994.29	180.17	12.069		
8,000.00	6,780.36	6,708.64	6,708.64	82.00	116.12	58.20	772.15	5,405.28	2,137.51	1,953.74	183.76	11.632		
8,100.00	6,860.65	6,771.65	6,771.65	83.25	117.22	59.39	772.15	5,405.28	2,101.61	1,914.81	186.80	11.251		
8,200.00	6,940.94	6,851.94	6,851.94	84.50	118.62	60.60	772.15	5,405.28	2,066.80	1,876.63	190.17	10.868		
8,300.00	7,021.24	6,932.24	6,932.24	85.76	120.02	61.85	772.15	5,405.28	2,033.15	1,839.58	193.57	10.503		
8,400.00	7,101.53	7,012.53	7,012.53	87.01	121.42	63.12	772.15	5,405.28	2,000.71	1,803.70	197.01	10.156		
8,500.00	7,181.82	7,107.18	7,107.18	88.26	123.08	64.43	772.15	5,405.28	1,969.53	1,768.82	200.71	9.813		
8,605.60	7,266.61	7,177.61	7,177.61	89.58	124.30	65.83	772.15	5,405.28	1,938.06	1,733.93	204.14	9.494		
8,650.00	7,302.60	7,213.60	7,213.60	90.13	124.93	59.55	772.15	5,405.28	1,924.14	1,718.49	205.65	9.356		
8,700.00	7,343.78	7,254.78	7,254.78	90.72	125.65	51.67	772.15	5,405.28	1,906.06	1,698.80	207.26	9.196		
8,750.00	7,385.32	7,303.68	7,296.32	91.28	126.50	43.13	772.15	5,405.28	1,885.46	1,676.57	208.89	9.026		
8,800.00	7,426.92	7,337.92	7,337.92	91.81	127.10	34.17	772.15	5,405.28	1,862.40	1,652.26	210.14	8.863		
8,850.00	7,468.27	7,379.27	7,379.27	92.29	127.82	25.06	772.15	5,405.28	1,836.98	1,625.60	211.38	8.690		
8,900.00	7,509.04	7,420.04	7,420.04	92.72	128.54	15.99	772.15	5,405.28	1,809.32	1,596.84	212.49	8.515		
8,950.00	7,548.93	7,459.93	7,459.93	93.10	129.23	7.05	772.15	5,405.28	1,779.59	1,566.15	213.43	8.338		
9,000.00	7,587.63	7,501.37	7,498.63	93.43	129.96	-1.73	772.15	5,405.28	1,747.97	1,533.71	214.26	8.158		
9,050.00	7,624.85	7,535.85	7,535.85	93.71	130.56	-10.42	772.15	5,405.28	1,714.71	1,499.89	214.82	7.982		
9,100.00	7,660.30	7,571.30	7,571.30	93.93	131.18	-19.08	772.15	5,405.28	1,680.08	1,464.83	215.25	7.805		
9,150.00	7,693.72	7,604.72	7,604.72	94.10	131.76	-27.76	772.15	5,405.28	1,644.38	1,428.90	215.48	7.631		
9,200.00	7,724.85	7,635.85	7,635.85	94.23	132.30	-36.42	772.15	5,405.28	1,607.95	1,392.45	215.50	7.461		
9,250.00	7,753.45	7,664.45	7,664.45	94.30	132.80	-44.98	772.15	5,405.28	1,571.19	1,355.88	215.31	7.297		
9,300.00	7,779.31	7,709.69	7,690.31	94.34	133.59	-53.24	772.15	5,405.28	1,534.49	1,319.26	215.23	7.129		
9,350.00	7,802.23	7,713.23	7,713.23	94.33	133.65	-61.00	772.15	5,405.28	1,498.31	1,284.07	214.24	6.994		
9,400.00	7,822.03	7,733.03	7,733.03	94.28	134.00	-68.06	772.15	5,405.28	1,463.10	1,249.75	213.35	6.858		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,749.57	7,749.57	94.20	134.29	-74.25	772.15	5,405.28	1,429.35	1,217.15	212.20	6.736		
9,500.00	7,851.72	7,762.72	7,762.72	94.10	134.52	-79.51	772.15	5,405.28	1,397.54	1,186.74	210.81	6.630		
9,550.00	7,861.37	7,772.37	7,772.37	93.96	134.68	-83.81	772.15	5,405.28	1,368.17	1,159.01	209.16	6.541		
9,600.00	7,867.46	7,778.46	7,778.46	93.81	134.79	-87.17	772.15	5,405.28	1,341.70	1,134.42	207.28	6.473		
9,650.00	7,869.94	7,780.94	7,780.94	93.64	134.83	-89.64	772.15	5,405.28	1,318.56	1,113.37	205.18	6.426		
9,659.14	7,870.00	7,781.00	7,781.00	93.60	134.84	-90.00	772.15	5,405.28	1,314.72	1,109.94	204.78	6.420		
9,700.00	7,870.00	7,781.00	7,781.00	93.46	134.84	-90.00	772.15	5,405.28	1,298.37	1,095.44	202.93	6.398		
9,800.00	7,870.00	7,781.00	7,781.00	93.11	134.84	-90.00	772.15	5,405.28	1,263.04	1,064.85	198.19	6.373 SF		
9,900.00	7,870.00	7,781.00	7,781.00	92.77	134.84	-90.00	772.15	5,405.28	1,234.83	1,041.54	193.29	6.389		
10,000.00	7,870.00	7,781.00	7,781.00	92.46	134.84	-90.00	772.15	5,405.28	1,214.22	1,025.80	188.42	6.444		
10,100.00	7,870.00	7,781.00	7,781.00	92.16	134.84	-90.00	772.15	5,405.28	1,201.60	1,017.71	183.89	6.534		
10,200.00	7,870.00	7,781.00	7,781.00	91.87	134.84	-90.00	772.15	5,405.28	1,197.23	1,017.15	180.08	6.648 ES		
10,202.40	7,870.00	7,781.00	7,781.00	91.86	134.84	-90.00	772.15	5,405.28	1,197.23	1,017.23	180.00	6.651 CC		
10,300.00	7,870.00	7,781.00	7,781.00	91.60	134.84	-90.00	772.15	5,405.28	1,201.20	1,023.82	177.38	6.772		
10,400.00	7,870.00	7,781.00	7,781.00	91.34	134.84	-90.00	772.15	5,405.28	1,213.42	1,037.33	176.09	6.891		
10,500.00	7,870.00	7,781.00	7,781.00	91.11	134.84	-90.00	772.15	5,405.28	1,233.66	1,057.34	176.32	6.997		
10,600.00	7,870.00	7,781.00	7,781.00	90.88	134.84	-90.00	772.15	5,405.28	1,261.52	1,083.63	177.89	7.092		
10,700.00	7,870.00	7,781.00	7,781.00	90.67	134.84	-90.00	772.15	5,405.28	1,296.52	1,116.06	180.46	7.185		
10,800.00	7,870.00	7,781.00	7,781.00	90.48	134.84	-90.00	772.15	5,405.28	1,338.08	1,154.44	183.64	7.286		
10,900.00	7,870.00	7,781.00	7,781.00	90.31	134.84	-90.00	772.15	5,405.28	1,385.64	1,198.51	187.12	7.405		
11,000.00	7,870.00	7,781.00	7,781.00	90.15	134.84	-90.00	772.15	5,405.28	1,438.58	1,247.91	190.67	7.545		
11,100.00	7,870.00	7,781.00	7,781.00	90.00	134.84	-90.00	772.15	5,405.28	1,496.34	1,302.21	194.13	7.708		
11,200.00	7,870.00	7,781.00	7,781.00	89.88	134.84	-90.00	772.15	5,405.28	1,558.38	1,360.97	197.41	7.894		
11,300.00	7,870.00	7,781.00	7,781.00	89.77	134.84	-90.00	772.15	5,405.28	1,624.21	1,423.74	200.47	8.102		
11,400.00	7,870.00	7,781.00	7,781.00	89.68	134.84	-90.00	772.15	5,405.28	1,693.39	1,490.10	203.29	8.330		
11,500.00	7,870.00	7,781.00	7,781.00	89.60	134.84	-90.00	772.15	5,405.28	1,765.53	1,559.66	205.88	8.576		
11,600.00	7,870.00	7,781.00	7,781.00	89.55	134.84	-90.00	772.15	5,405.28	1,840.28	1,632.05	208.23	8.838		
11,700.00	7,870.00	7,781.00	7,781.00	89.52	134.84	-90.00	772.15	5,405.28	1,917.33	1,706.97	210.36	9.114		
11,800.00	7,870.00	7,781.00	7,781.00	89.50	134.84	-90.00	772.15	5,405.28	1,996.41	1,784.11	212.30	9.404		
11,900.00	7,870.00	7,781.00	7,781.00	89.51	134.84	-90.00	772.15	5,405.28	2,077.30	1,863.25	214.05	9.705		
12,000.00	7,870.00	7,781.00	7,781.00	89.54	134.84	-90.00	772.15	5,405.28	2,159.79	1,944.14	215.65	10.015		
12,100.00	7,870.00	7,781.00	7,781.00	89.59	134.84	-90.00	772.15	5,405.28	2,243.71	2,026.61	217.10	10.335		
12,200.00	7,870.00	7,781.00	7,781.00	89.66	134.84	-90.00	772.15	5,405.28	2,328.89	2,110.48	218.41	10.663		
12,300.00	7,870.00	7,781.00	7,781.00	89.77	134.84	-90.00	772.15	5,405.28	2,415.21	2,195.60	219.61	10.998		
12,400.00	7,870.00	7,781.00	7,781.00	89.89	134.84	-90.00	772.15	5,405.28	2,502.55	2,281.85	220.71	11.339		
12,500.00	7,870.00	7,781.00	7,781.00	90.05	134.84	-90.00	772.15	5,405.28	2,590.81	2,369.10	221.71	11.686		
12,600.00	7,870.00	7,781.00	7,781.00	90.24	134.84	-90.00	772.15	5,405.28	2,679.89	2,457.26	222.63	12.038		
12,700.00	7,870.00	7,781.00	7,781.00	90.46	134.84	-90.00	772.15	5,405.28	2,769.72	2,546.25	223.47	12.394		
12,800.00	7,870.00	7,781.00	7,781.00	90.71	134.84	-90.00	772.15	5,405.28	2,860.22	2,635.97	224.25	12.755		
12,900.00	7,870.00	7,781.00	7,781.00	90.99	134.84	-90.00	772.15	5,405.28	2,951.33	2,726.37	224.96	13.119		
13,000.00	7,870.00	7,781.00	7,781.00	91.32	134.84	-90.00	772.15	5,405.28	3,043.01	2,817.38	225.63	13.487		
13,100.00	7,870.00	7,781.00	7,781.00	91.68	134.84	-90.00	772.15	5,405.28	3,135.19	2,908.95	226.24	13.858		
13,200.00	7,870.00	7,781.00	7,781.00	92.08	134.84	-90.00	772.15	5,405.28	3,227.84	3,001.03	226.81	14.232		
13,300.00	7,870.00	7,781.00	7,781.00	92.52	134.84	-90.00	772.15	5,405.28	3,320.91	3,093.57	227.34	14.608		
13,400.00	7,870.00	7,781.00	7,781.00	93.00	134.84	-90.00	772.15	5,405.28	3,414.38	3,186.55	227.83	14.986		
13,500.00	7,870.00	7,781.00	7,781.00	93.53	134.84	-90.00	772.15	5,405.28	3,508.20	3,279.91	228.29	15.367		
13,600.00	7,870.00	7,781.00	7,781.00	94.10	134.84	-90.00	772.15	5,405.28	3,602.36	3,373.64	228.72	15.750		
13,700.00	7,870.00	7,781.00	7,781.00	94.72	134.84	-90.00	772.15	5,405.28	3,696.83	3,467.70	229.13	16.135		
13,800.00	7,870.00	7,781.00	7,781.00	95.38	134.84	-90.00	772.15	5,405.28	3,791.58	3,562.07	229.50	16.521		
13,900.00	7,870.00	7,781.00	7,781.00	96.09	134.84	-90.00	772.15	5,405.28	3,886.59	3,656.73	229.86	16.909		
14,000.00	7,870.00	7,781.00	7,781.00	96.84	134.84	-90.00	772.15	5,405.28	3,981.84	3,751.65	230.19	17.298		
14,100.00	7,870.00	7,781.00	7,781.00	97.64	134.84	-90.00	772.15	5,405.28	4,077.33	3,846.82	230.51	17.688		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	7,781.00	7,781.00	98.48	134.84	-90.00	772.15	5,405.28	4,173.02	3,942.22	230.81	18.080		
14,300.00	7,870.00	7,781.00	7,781.00	99.37	134.84	-90.00	772.15	5,405.28	4,268.92	4,037.83	231.09	18.473		
14,400.00	7,870.00	7,781.00	7,781.00	100.30	134.84	-90.00	772.15	5,405.28	4,364.99	4,133.64	231.36	18.867		
14,500.00	7,870.00	7,781.00	7,781.00	101.26	134.84	-90.00	772.15	5,405.28	4,461.24	4,229.63	231.61	19.262		
14,600.00	7,870.00	7,781.00	7,781.00	102.27	134.84	-90.00	772.15	5,405.28	4,557.65	4,325.80	231.85	19.658		
14,700.00	7,870.00	7,781.00	7,781.00	103.31	134.84	-90.00	772.15	5,405.28	4,654.22	4,422.14	232.08	20.054		
14,800.00	7,870.00	7,781.00	7,781.00	104.38	134.84	-90.00	772.15	5,405.28	4,750.92	4,518.62	232.30	20.452		
14,900.00	7,870.00	7,781.00	7,781.00	105.49	134.84	-90.00	772.15	5,405.28	4,847.76	4,615.25	232.50	20.850		
15,000.00	7,870.00	7,781.00	7,781.00	106.63	134.84	-90.00	772.15	5,405.28	4,944.72	4,712.02	232.70	21.249		
15,100.00	7,870.00	7,781.00	7,781.00	107.80	134.84	-90.00	772.15	5,405.28	5,041.80	4,808.91	232.89	21.649		
15,200.00	7,870.00	7,781.00	7,781.00	109.00	134.84	-90.00	772.15	5,405.28	5,139.00	4,905.93	233.07	22.049		
15,300.00	7,870.00	7,781.00	7,781.00	110.22	134.84	-90.00	772.15	5,405.28	5,236.30	5,003.05	233.25	22.450		
15,400.00	7,870.00	7,781.00	7,781.00	111.47	134.84	-90.00	772.15	5,405.28	5,333.70	5,100.29	233.41	22.851		
15,500.00	7,870.00	7,781.00	7,781.00	112.74	134.84	-90.00	772.15	5,405.28	5,431.19	5,197.62	233.57	23.253		
15,600.00	7,870.00	7,781.00	7,781.00	114.03	134.84	-90.00	772.15	5,405.28	5,528.78	5,295.05	233.73	23.655		
15,700.00	7,870.00	7,781.00	7,781.00	115.34	134.84	-90.00	772.15	5,405.28	5,626.45	5,392.57	233.88	24.057		
15,800.00	7,870.00	7,781.00	7,781.00	116.68	134.84	-90.00	772.15	5,405.28	5,724.20	5,490.18	234.02	24.461		
15,900.00	7,870.00	7,781.00	7,781.00	118.02	134.84	-90.00	772.15	5,405.28	5,822.02	5,587.87	234.15	24.864		
16,000.00	7,870.00	7,781.00	7,781.00	119.39	134.84	-90.00	772.15	5,405.28	5,919.92	5,685.63	234.29	25.268		
16,100.00	7,870.00	7,781.00	7,781.00	120.77	134.84	-90.00	772.15	5,405.28	6,017.89	5,783.47	234.41	25.672		
16,200.00	7,870.00	7,781.00	7,781.00	122.17	134.84	-90.00	772.15	5,405.28	6,115.92	5,881.38	234.54	26.076		
16,300.00	7,870.00	7,781.00	7,781.00	123.58	134.84	-90.00	772.15	5,405.28	6,214.02	5,979.36	234.66	26.481		
16,400.00	7,870.00	7,781.00	7,781.00	125.00	134.84	-90.00	772.15	5,405.28	6,312.17	6,077.40	234.77	26.886		
16,500.00	7,870.00	7,781.00	7,781.00	126.43	134.84	-90.00	772.15	5,405.28	6,410.39	6,175.50	234.89	27.291		
16,600.00	7,870.00	7,781.00	7,781.00	127.88	134.84	-90.00	772.15	5,405.28	6,508.65	6,273.66	234.99	27.697		
16,700.00	7,870.00	7,781.00	7,781.00	129.34	134.84	-90.00	772.15	5,405.28	6,606.97	6,371.87	235.10	28.103		
16,800.00	7,870.00	7,781.00	7,781.00	130.81	134.84	-90.00	772.15	5,405.28	6,705.34	6,470.14	235.20	28.509		
16,900.00	7,870.00	7,781.00	7,781.00	132.28	134.84	-90.00	772.15	5,405.28	6,803.76	6,568.46	235.30	28.915		
17,000.00	7,870.00	7,781.00	7,781.00	133.77	134.84	-90.00	772.15	5,405.28	6,902.22	6,666.82	235.40	29.321		
17,100.00	7,870.00	7,781.00	7,781.00	135.27	134.84	-90.00	772.15	5,405.28	7,000.73	6,765.23	235.49	29.728		
17,200.00	7,870.00	7,781.00	7,781.00	136.77	134.84	-90.00	772.15	5,405.28	7,099.27	6,863.69	235.59	30.134		
17,300.00	7,870.00	7,781.00	7,781.00	138.28	134.84	-90.00	772.15	5,405.28	7,197.86	6,962.19	235.68	30.541		
17,400.00	7,870.00	7,781.00	7,781.00	139.80	134.84	-90.00	772.15	5,405.28	7,296.49	7,060.72	235.76	30.948		
17,500.00	7,870.00	7,781.00	7,781.00	141.33	134.84	-90.00	772.15	5,405.28	7,395.15	7,159.30	235.85	31.355		
17,600.00	7,870.00	7,781.00	7,781.00	142.86	134.84	-90.00	772.15	5,405.28	7,493.85	7,257.92	235.93	31.763		
17,700.00	7,870.00	7,781.00	7,781.00	144.40	134.84	-90.00	772.15	5,405.28	7,592.58	7,356.57	236.02	32.170		
17,800.00	7,870.00	7,781.00	7,781.00	145.95	134.84	-90.00	772.15	5,405.28	7,691.35	7,455.25	236.10	32.577		
17,900.00	7,870.00	7,781.00	7,781.00	147.50	134.84	-90.00	772.15	5,405.28	7,790.14	7,553.97	236.17	32.985		
18,000.00	7,870.00	7,781.00	7,781.00	149.06	134.84	-90.00	772.15	5,405.28	7,888.97	7,652.72	236.25	33.392		
18,100.00	7,870.00	7,781.00	7,781.00	150.63	134.84	-90.00	772.15	5,405.28	7,987.83	7,751.50	236.33	33.800		
18,200.00	7,870.00	7,781.00	7,781.00	152.20	134.84	-90.00	772.15	5,405.28	8,086.71	7,850.31	236.40	34.208		
18,300.00	7,870.00	7,781.00	7,781.00	153.77	134.84	-90.00	772.15	5,405.28	8,185.62	7,949.15	236.47	34.615		
18,400.00	7,870.00	7,781.00	7,781.00	155.35	134.84	-90.00	772.15	5,405.28	8,284.56	8,048.02	236.54	35.023		
18,500.00	7,870.00	7,781.00	7,781.00	156.93	134.84	-90.00	772.15	5,405.28	8,383.52	8,146.91	236.61	35.431		
18,600.00	7,870.00	7,781.00	7,781.00	158.52	134.84	-90.00	772.15	5,405.28	8,482.51	8,245.83	236.68	35.839		
18,700.00	7,870.00	7,781.00	7,781.00	160.11	134.84	-90.00	772.15	5,405.28	8,581.52	8,344.77	236.75	36.247		
18,800.00	7,870.00	7,781.00	7,781.00	161.71	134.84	-90.00	772.15	5,405.28	8,680.55	8,443.74	236.82	36.655		
18,900.00	7,870.00	7,781.00	7,781.00	163.31	134.84	-90.00	772.15	5,405.28	8,779.61	8,542.72	236.88	37.063		
19,000.00	7,870.00	7,781.00	7,781.00	164.91	134.84	-90.00	772.15	5,405.28	8,878.68	8,641.74	236.95	37.471		
19,100.00	7,870.00	7,781.00	7,781.00	166.52	134.84	-90.00	772.15	5,405.28	8,977.78	8,740.77	237.01	37.879		
19,200.00	7,870.00	7,781.00	7,781.00	168.13	134.84	-90.00	772.15	5,405.28	9,076.90	8,839.82	237.08	38.287		
19,300.00	7,870.00	7,781.00	7,781.00	169.75	134.84	-90.00	772.15	5,405.28	9,176.03	8,938.90	237.14	38.695		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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				
19,383.51	7,870.00	7,781.00	7,781.00	171.10	134.84	-90.00	772.15	5,405.28	9,258.83	9,021.65	237.19	39.036					

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	115.95	-1,438.76	2,957.00	3,288.96					
100.00	100.00	42.00	42.00	0.13	0.32	115.95	-1,438.76	2,957.00	3,288.45	3,287.99	0.46	7,196.290		
200.00	200.00	142.00	142.00	0.49	1.50	115.95	-1,438.76	2,957.00	3,288.45	3,286.45	1.99	1,649.268		
300.00	300.00	242.00	242.00	0.85	3.25	115.95	-1,438.76	2,957.00	3,288.45	3,284.35	4.10	802.514		
400.00	400.00	342.00	342.00	1.21	4.99	115.95	-1,438.76	2,957.00	3,288.45	3,282.25	6.20	530.268		
500.00	500.00	442.00	442.00	1.57	6.74	115.95	-1,438.76	2,957.00	3,288.45	3,280.14	8.31	395.946		
600.00	600.00	542.00	542.00	1.93	8.48	115.95	-1,438.76	2,957.00	3,288.45	3,278.04	10.41	315.921		
700.00	699.98	641.98	641.98	2.28	10.23	52.17	-1,438.76	2,957.00	3,287.38	3,274.87	12.51	262.824		
800.00	799.84	741.84	741.84	2.64	11.97	52.29	-1,438.76	2,957.00	3,284.17	3,269.56	14.60	224.889		
900.00	899.45	841.45	841.45	3.00	13.71	52.49	-1,438.76	2,957.00	3,278.84	3,262.14	16.70	196.334		
1,000.00	998.70	940.70	940.70	3.37	15.44	52.78	-1,438.76	2,957.00	3,271.40	3,252.61	18.80	174.020		
1,100.00	1,097.47	1,039.47	1,039.47	3.76	17.16	53.15	-1,438.76	2,957.00	3,261.91	3,241.01	20.90	156.064		
1,200.00	1,195.62	1,137.62	1,137.62	4.18	18.88	53.60	-1,438.76	2,957.00	3,250.39	3,227.38	23.01	141.268		
1,300.00	1,293.06	1,235.06	1,235.06	4.63	20.58	54.14	-1,438.76	2,957.00	3,236.90	3,211.78	25.12	128.835		
1,400.00	1,389.64	1,331.64	1,331.64	5.11	22.26	54.76	-1,438.76	2,957.00	3,221.51	3,194.26	27.25	118.217		
1,500.00	1,485.27	1,427.27	1,427.27	5.63	23.93	55.46	-1,438.76	2,957.00	3,204.28	3,174.89	29.39	109.021		
1,600.00	1,579.82	1,521.82	1,521.82	6.20	25.58	56.24	-1,438.76	2,957.00	3,185.30	3,153.75	31.55	100.963		
1,700.00	1,673.17	1,615.17	1,615.17	6.83	27.21	57.11	-1,438.76	2,957.00	3,164.67	3,130.94	33.73	93.830		
1,800.00	1,765.21	1,707.21	1,707.21	7.51	28.82	58.06	-1,438.76	2,957.00	3,142.48	3,106.55	35.93	87.461		
1,900.00	1,855.84	1,802.16	1,797.84	8.24	30.48	59.09	-1,438.76	2,957.00	3,118.86	3,080.62	38.24	81.570		
2,000.00	1,944.94	1,886.94	1,886.94	9.05	31.96	60.20	-1,438.76	2,957.00	3,093.92	3,053.50	40.42	76.543		
2,100.00	2,032.39	1,974.39	1,974.39	9.91	33.48	61.39	-1,438.76	2,957.00	3,067.81	3,025.10	42.72	71.820		
2,200.00	2,118.11	2,060.11	2,060.11	10.85	34.98	62.64	-1,438.76	2,957.00	3,040.67	2,995.63	45.05	67.499		
2,300.00	2,201.97	2,143.97	2,143.97	11.85	36.44	63.97	-1,438.76	2,957.00	3,012.67	2,965.25	47.42	63.532		
2,400.00	2,283.88	2,225.88	2,225.88	12.93	37.87	65.36	-1,438.76	2,957.00	2,983.97	2,934.13	49.84	59.876		
2,429.47	2,307.63	2,249.63	2,249.63	13.26	38.29	65.78	-1,438.76	2,957.00	2,975.40	2,924.85	50.56	58.854		
2,500.00	2,364.26	2,306.26	2,306.26	14.06	39.27	66.40	-1,438.76	2,957.00	2,955.08	2,902.79	52.29	56.510		
2,600.00	2,444.56	2,386.56	2,386.56	15.22	40.68	67.30	-1,438.76	2,957.00	2,927.06	2,872.28	54.79	53.426		
2,700.00	2,524.85	2,466.85	2,466.85	16.39	42.08	68.20	-1,438.76	2,957.00	2,900.00	2,842.68	57.31	50.599		
2,800.00	2,605.14	2,547.14	2,547.14	17.57	43.48	69.12	-1,438.76	2,957.00	2,873.92	2,814.05	59.87	48.003		
2,900.00	2,685.43	2,627.43	2,627.43	18.76	44.88	70.04	-1,438.76	2,957.00	2,848.84	2,786.39	62.45	45.617		
3,000.00	2,765.73	2,707.73	2,707.73	19.96	46.28	70.98	-1,438.76	2,957.00	2,824.80	2,759.75	65.06	43.421		
3,100.00	2,846.02	2,788.02	2,788.02	21.16	47.68	71.93	-1,438.76	2,957.00	2,801.83	2,734.14	67.68	41.397		
3,200.00	2,926.31	2,868.31	2,868.31	22.37	49.08	72.89	-1,438.76	2,957.00	2,779.94	2,709.61	70.33	39.528		
3,300.00	3,006.60	2,948.60	2,948.60	23.59	50.49	73.86	-1,438.76	2,957.00	2,759.17	2,686.18	72.99	37.802		
3,400.00	3,086.90	3,028.90	3,028.90	24.81	51.89	74.84	-1,438.76	2,957.00	2,739.53	2,663.86	75.67	36.205		
3,500.00	3,167.19	3,109.19	3,109.19	26.03	53.29	75.83	-1,438.76	2,957.00	2,721.06	2,642.70	78.36	34.726		
3,600.00	3,247.48	3,189.48	3,189.48	27.25	54.69	76.83	-1,438.76	2,957.00	2,703.78	2,622.72	81.06	33.356		
3,700.00	3,327.77	3,269.77	3,269.77	28.48	56.09	77.83	-1,438.76	2,957.00	2,687.71	2,603.94	83.77	32.085		
3,800.00	3,408.07	3,350.07	3,350.07	29.71	57.49	78.85	-1,438.76	2,957.00	2,672.87	2,586.39	86.49	30.905		
3,900.00	3,488.36	3,430.36	3,430.36	30.94	58.89	79.87	-1,438.76	2,957.00	2,659.29	2,570.08	89.21	29.810		
4,000.00	3,568.65	3,510.65	3,510.65	32.17	60.30	80.89	-1,438.76	2,957.00	2,646.98	2,555.05	91.93	28.793		
4,100.00	3,648.95	3,609.05	3,590.95	33.41	62.01	81.93	-1,438.76	2,957.00	2,635.96	2,540.98	94.97	27.754		
4,200.00	3,729.24	3,671.24	3,671.24	34.64	63.10	82.97	-1,438.76	2,957.00	2,626.24	2,528.86	97.38	26.968		
4,300.00	3,809.53	3,751.53	3,751.53	35.88	64.50	84.01	-1,438.76	2,957.00	2,617.85	2,517.75	100.10	26.152		
4,400.00	3,889.82	3,831.82	3,831.82	37.12	65.90	85.05	-1,438.76	2,957.00	2,610.80	2,507.98	102.82	25.393		
4,500.00	3,970.12	3,912.12	3,912.12	38.36	67.30	86.11	-1,438.76	2,957.00	2,605.08	2,499.56	105.52	24.687		
4,600.00	4,050.41	4,007.59	3,992.41	39.60	68.97	87.16	-1,438.76	2,957.00	2,600.73	2,492.24	108.49	23.973		
4,700.00	4,130.70	4,072.70	4,072.70	40.84	70.10	88.21	-1,438.76	2,957.00	2,597.73	2,486.82	110.90	23.423		
4,800.00	4,210.99	4,152.99	4,152.99	42.08	71.51	89.27	-1,438.76	2,957.00	2,596.10	2,482.52	113.58	22.858		
4,869.26	4,266.61	4,208.61	4,208.61	42.94	72.48	90.00	-1,438.76	2,957.00	2,595.77	2,480.35	115.42	22.491		
4,900.00	4,291.29	4,233.29	4,233.29	43.32	72.91	90.32	-1,438.76	2,957.00	2,595.83	2,479.60	116.23	22.334		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,313.58	4,313.58	44.57	74.31	91.38	-1,438.76	2,957.00	2,596.94	2,478.07	118.87	21.847		
5,100.00	4,451.87	4,406.13	4,393.87	45.81	75.92	92.44	-1,438.76	2,957.00	2,599.41	2,477.71	121.70	21.359		
5,200.00	4,532.16	4,474.16	4,474.16	47.05	77.11	93.49	-1,438.76	2,957.00	2,603.24	2,479.16	124.08	20.980		
5,300.00	4,612.46	4,554.46	4,554.46	48.30	78.51	94.54	-1,438.76	2,957.00	2,608.44	2,481.78	126.65	20.595		
5,400.00	4,692.75	4,634.75	4,634.75	49.54	79.91	95.59	-1,438.76	2,957.00	2,614.98	2,485.77	129.20	20.239		
5,500.00	4,773.04	4,715.04	4,715.04	50.79	81.32	96.63	-1,438.76	2,957.00	2,622.85	2,491.13	131.73	19.911		
5,600.00	4,853.34	4,804.67	4,795.34	52.03	82.88	97.67	-1,438.76	2,957.00	2,632.06	2,497.67	134.39	19.585		
5,700.00	4,933.63	4,875.63	4,875.63	53.28	84.12	98.71	-1,438.76	2,957.00	2,642.58	2,505.88	136.70	19.331		
5,800.00	5,013.92	4,955.92	4,955.92	54.53	85.52	99.74	-1,438.76	2,957.00	2,654.39	2,515.25	139.14	19.077		
5,900.00	5,094.21	5,036.21	5,036.21	55.77	86.92	100.76	-1,438.76	2,957.00	2,667.49	2,525.93	141.56	18.844		
6,000.00	5,174.51	5,116.51	5,116.51	57.02	88.32	101.78	-1,438.76	2,957.00	2,681.85	2,537.90	143.95	18.631		
6,100.00	5,254.80	5,203.20	5,196.80	58.27	89.84	102.79	-1,438.76	2,957.00	2,697.44	2,551.03	146.42	18.423		
6,200.00	5,335.09	5,277.09	5,277.09	59.52	91.13	103.79	-1,438.76	2,957.00	2,714.26	2,565.63	148.63	18.262		
6,300.00	5,415.38	5,357.38	5,357.38	60.76	92.53	104.78	-1,438.76	2,957.00	2,732.28	2,581.35	150.93	18.103		
6,400.00	5,495.68	5,437.68	5,437.68	62.01	93.93	105.76	-1,438.76	2,957.00	2,751.47	2,598.26	153.20	17.960		
6,500.00	5,575.97	5,517.97	5,517.97	63.26	95.33	106.73	-1,438.76	2,957.00	2,771.80	2,616.36	155.44	17.832		
6,600.00	5,656.26	5,601.74	5,598.26	64.51	96.79	107.70	-1,438.76	2,957.00	2,793.26	2,635.55	157.72	17.711		
6,700.00	5,736.55	5,678.55	5,678.55	65.76	98.13	108.65	-1,438.76	2,957.00	2,815.82	2,655.99	159.84	17.617		
6,800.00	5,816.85	5,758.85	5,758.85	67.01	99.53	109.60	-1,438.76	2,957.00	2,839.46	2,677.46	162.00	17.528		
6,900.00	5,897.14	5,839.14	5,839.14	68.26	100.93	110.53	-1,438.76	2,957.00	2,864.14	2,700.01	164.13	17.451		
7,000.00	5,977.43	5,919.43	5,919.43	69.50	102.34	111.45	-1,438.76	2,957.00	2,889.83	2,723.60	166.23	17.385		
7,100.00	6,057.72	6,000.28	5,999.72	70.75	103.75	112.36	-1,438.76	2,957.00	2,916.52	2,748.21	168.32	17.328		
7,200.00	6,138.02	6,080.02	6,080.02	72.00	105.14	113.26	-1,438.76	2,957.00	2,944.18	2,773.82	170.36	17.282		
7,300.00	6,218.31	6,160.31	6,160.31	73.25	106.54	114.14	-1,438.76	2,957.00	2,972.77	2,800.38	172.39	17.245		
7,400.00	6,298.60	6,240.60	6,240.60	74.50	107.94	115.01	-1,438.76	2,957.00	3,002.27	2,827.88	174.39	17.215		
7,500.00	6,378.90	6,320.90	6,320.90	75.75	109.34	115.88	-1,438.76	2,957.00	3,032.66	2,856.28	176.38	17.194		
7,600.00	6,459.19	6,401.19	6,401.19	77.00	110.74	116.72	-1,438.76	2,957.00	3,063.91	2,885.57	178.34	17.180		
7,700.00	6,539.48	6,481.48	6,481.48	78.25	112.15	117.56	-1,438.76	2,957.00	3,095.99	2,915.70	180.28	17.173		
7,800.00	6,619.77	6,561.77	6,561.77	79.50	113.55	118.39	-1,438.76	2,957.00	3,128.87	2,946.67	182.21	17.172		
7,900.00	6,700.07	6,642.07	6,642.07	80.75	114.95	119.20	-1,438.76	2,957.00	3,162.54	2,978.43	184.11	17.177		
8,000.00	6,780.36	6,722.36	6,722.36	82.00	116.35	120.00	-1,438.76	2,957.00	3,196.96	3,010.97	186.00	17.188		
8,100.00	6,860.65	6,802.65	6,802.65	83.25	117.75	120.78	-1,438.76	2,957.00	3,232.12	3,044.25	187.87	17.204		
8,200.00	6,940.94	6,882.94	6,882.94	84.50	119.15	121.55	-1,438.76	2,957.00	3,267.99	3,078.27	189.72	17.225		
8,300.00	7,021.24	6,963.24	6,963.24	85.76	120.55	122.32	-1,438.76	2,957.00	3,304.54	3,112.98	191.56	17.250		
8,400.00	7,101.53	7,043.53	7,043.53	87.01	121.96	123.06	-1,438.76	2,957.00	3,341.76	3,148.37	193.39	17.280		
8,500.00	7,181.82	7,123.82	7,123.82	88.26	123.36	123.80	-1,438.76	2,957.00	3,379.61	3,184.41	195.20	17.314		
8,605.60	7,266.61	7,208.61	7,208.61	89.58	124.84	124.56	-1,438.76	2,957.00	3,420.26	3,223.16	197.10	17.353		
8,650.00	7,302.60	7,244.60	7,244.60	90.13	125.46	118.69	-1,438.76	2,957.00	3,436.00	3,238.09	197.90	17.362		
8,700.00	7,343.78	7,285.78	7,285.78	90.72	126.18	111.65	-1,438.76	2,957.00	3,450.07	3,251.24	198.82	17.352		
8,750.00	7,385.32	7,327.32	7,327.32	91.28	126.91	104.36	-1,438.76	2,957.00	3,460.20	3,260.45	199.75	17.323		
8,800.00	7,426.92	7,368.92	7,368.92	91.81	127.63	97.11	-1,438.76	2,957.00	3,466.33	3,265.66	200.67	17.274		
8,850.00	7,468.27	7,410.27	7,410.27	92.29	128.36	90.20	-1,438.76	2,957.00	3,468.46	3,266.88	201.58	17.206		
8,900.00	7,509.04	7,451.04	7,451.04	92.72	129.07	83.89	-1,438.76	2,957.00	3,466.58	3,264.12	202.46	17.122		
8,950.00	7,548.93	7,509.07	7,490.93	93.10	130.08	78.35	-1,438.76	2,957.00	3,460.73	3,257.10	203.63	16.995		
9,000.00	7,587.63	7,529.63	7,529.63	93.43	130.44	73.66	-1,438.76	2,957.00	3,450.97	3,246.85	204.12	16.906		
9,050.00	7,624.85	7,566.85	7,566.85	93.71	131.09	69.81	-1,438.76	2,957.00	3,437.38	3,232.50	204.88	16.777		
9,100.00	7,660.30	7,602.30	7,602.30	93.93	131.71	66.79	-1,438.76	2,957.00	3,420.07	3,214.49	205.58	16.636		
9,150.00	7,693.72	7,635.72	7,635.72	94.10	132.29	64.55	-1,438.76	2,957.00	3,399.19	3,192.96	206.23	16.483		
9,200.00	7,724.85	7,666.85	7,666.85	94.23	132.83	63.05	-1,438.76	2,957.00	3,374.89	3,168.08	206.81	16.319		
9,250.00	7,753.45	7,704.55	7,695.45	94.30	133.49	62.25	-1,438.76	2,957.00	3,347.34	3,139.87	207.48	16.134		
9,300.00	7,779.31	7,721.31	7,721.31	94.34	133.78	62.16	-1,438.76	2,957.00	3,316.75	3,109.00	207.75	15.965		
9,350.00	7,802.23	7,744.23	7,744.23	94.33	134.18	62.79	-1,438.76	2,957.00	3,283.34	3,075.23	208.12	15.776		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,764.03	7,764.03	94.28	134.53	64.20	-1,438.76	2,957.00	3,247.35	3,038.94	208.41	15.582		
9,450.00	7,838.57	7,780.57	7,780.57	94.20	134.82	66.49	-1,438.76	2,957.00	3,209.01	3,000.39	208.62	15.382		
9,500.00	7,851.72	7,806.28	7,793.72	94.10	135.27	69.82	-1,438.76	2,957.00	3,168.60	2,959.62	208.99	15.162		
9,550.00	7,861.37	7,803.37	7,803.37	93.96	135.22	74.38	-1,438.76	2,957.00	3,126.40	2,917.56	208.84	14.970		
9,600.00	7,867.46	7,809.46	7,809.46	93.81	135.32	80.46	-1,438.76	2,957.00	3,082.69	2,873.85	208.84	14.761		
9,650.00	7,869.94	7,811.94	7,811.94	93.64	135.37	88.34	-1,438.76	2,957.00	3,037.76	2,828.98	208.77	14.550		
9,659.14	7,870.00	7,812.00	7,812.00	93.60	135.37	90.00	-1,438.76	2,957.00	3,029.44	2,820.69	208.76	14.512		
9,700.00	7,870.00	7,812.00	7,812.00	93.46	135.37	90.00	-1,438.76	2,957.00	2,992.23	2,783.56	208.67	14.340		
9,800.00	7,870.00	7,812.00	7,812.00	93.11	135.37	90.00	-1,438.76	2,957.00	2,901.57	2,693.14	208.43	13.921		
9,900.00	7,870.00	7,812.00	7,812.00	92.77	135.37	90.00	-1,438.76	2,957.00	2,811.55	2,603.37	208.18	13.505		
10,000.00	7,870.00	7,812.00	7,812.00	92.46	135.37	90.00	-1,438.76	2,957.00	2,722.22	2,514.32	207.90	13.094		
10,100.00	7,870.00	7,812.00	7,812.00	92.16	135.37	90.00	-1,438.76	2,957.00	2,633.66	2,426.06	207.60	12.686		
10,200.00	7,870.00	7,812.00	7,812.00	91.87	135.37	90.00	-1,438.76	2,957.00	2,545.95	2,338.68	207.27	12.283		
10,300.00	7,870.00	7,812.00	7,812.00	91.60	135.37	90.00	-1,438.76	2,957.00	2,459.18	2,252.26	206.91	11.885		
10,400.00	7,870.00	7,812.00	7,812.00	91.34	135.37	90.00	-1,438.76	2,957.00	2,373.44	2,166.92	206.52	11.493		
10,500.00	7,870.00	7,812.00	7,812.00	91.11	135.37	90.00	-1,438.76	2,957.00	2,288.87	2,082.78	206.09	11.106		
10,600.00	7,870.00	7,812.00	7,812.00	90.88	135.37	90.00	-1,438.76	2,957.00	2,205.59	1,999.98	205.61	10.727		
10,700.00	7,870.00	7,812.00	7,812.00	90.67	135.37	90.00	-1,438.76	2,957.00	2,123.75	1,918.66	205.08	10.356		
10,800.00	7,870.00	7,812.00	7,812.00	90.48	135.37	90.00	-1,438.76	2,957.00	2,043.52	1,839.02	204.51	9.992		
10,900.00	7,870.00	7,812.00	7,812.00	90.31	135.37	90.00	-1,438.76	2,957.00	1,965.11	1,761.24	203.87	9.639		
11,000.00	7,870.00	7,812.00	7,812.00	90.15	135.37	90.00	-1,438.76	2,957.00	1,888.74	1,685.57	203.17	9.296		
11,100.00	7,870.00	7,812.00	7,812.00	90.00	135.37	90.00	-1,438.76	2,957.00	1,814.67	1,612.27	202.40	8.966		
11,200.00	7,870.00	7,812.00	7,812.00	89.88	135.37	90.00	-1,438.76	2,957.00	1,743.19	1,541.63	201.56	8.648		
11,300.00	7,870.00	7,812.00	7,812.00	89.77	135.37	90.00	-1,438.76	2,957.00	1,674.64	1,473.99	200.65	8.346		
11,400.00	7,870.00	7,812.00	7,812.00	89.68	135.37	90.00	-1,438.76	2,957.00	1,609.38	1,409.71	199.67	8.060		
11,500.00	7,870.00	7,812.00	7,812.00	89.60	135.37	90.00	-1,438.76	2,957.00	1,547.83	1,349.22	198.61	7.793		
11,600.00	7,870.00	7,812.00	7,812.00	89.55	135.37	90.00	-1,438.76	2,957.00	1,490.46	1,292.96	197.50	7.546		
11,700.00	7,870.00	7,812.00	7,812.00	89.52	135.37	90.00	-1,438.76	2,957.00	1,437.76	1,241.40	196.36	7.322		
11,800.00	7,870.00	7,812.00	7,812.00	89.50	135.37	90.00	-1,438.76	2,957.00	1,390.27	1,195.05	195.22	7.122		
11,900.00	7,870.00	7,812.00	7,812.00	89.51	135.37	90.00	-1,438.76	2,957.00	1,348.53	1,154.42	194.11	6.947		
12,000.00	7,870.00	7,812.00	7,812.00	89.54	135.37	90.00	-1,438.76	2,957.00	1,313.10	1,120.00	193.09	6.800		
12,100.00	7,870.00	7,812.00	7,812.00	89.59	135.37	90.00	-1,438.76	2,957.00	1,284.49	1,092.25	192.23	6.682		
12,200.00	7,870.00	7,812.00	7,812.00	89.66	135.37	90.00	-1,438.76	2,957.00	1,263.17	1,071.57	191.60	6.593		
12,300.00	7,870.00	7,812.00	7,812.00	89.77	135.37	90.00	-1,438.76	2,957.00	1,249.51	1,058.28	191.24	6.534		
12,400.00	7,870.00	7,812.00	7,812.00	89.89	135.37	90.00	-1,438.76	2,957.00	1,243.77	1,052.58	191.19	6.505		
12,421.57	7,870.00	7,812.00	7,812.00	89.93	135.37	90.00	-1,438.76	2,957.00	1,243.59	1,052.35	191.23	6.503 CC, ES, SF		
12,500.00	7,870.00	7,812.00	7,812.00	90.05	135.37	90.00	-1,438.76	2,957.00	1,246.06	1,054.58	191.48	6.508		
12,600.00	7,870.00	7,812.00	7,812.00	90.24	135.37	90.00	-1,438.76	2,957.00	1,256.32	1,064.25	192.07	6.541		
12,700.00	7,870.00	7,812.00	7,812.00	90.46	135.37	90.00	-1,438.76	2,957.00	1,274.37	1,081.45	192.93	6.605		
12,800.00	7,870.00	7,812.00	7,812.00	90.71	135.37	90.00	-1,438.76	2,957.00	1,299.89	1,105.90	193.99	6.701		
12,900.00	7,870.00	7,812.00	7,812.00	90.99	135.37	90.00	-1,438.76	2,957.00	1,332.44	1,137.26	195.18	6.827		
13,000.00	7,870.00	7,812.00	7,812.00	91.32	135.37	90.00	-1,438.76	2,957.00	1,371.53	1,175.09	196.44	6.982		
13,100.00	7,870.00	7,812.00	7,812.00	91.68	135.37	90.00	-1,438.76	2,957.00	1,416.61	1,218.89	197.71	7.165		
13,200.00	7,870.00	7,812.00	7,812.00	92.08	135.37	90.00	-1,438.76	2,957.00	1,467.13	1,268.17	198.96	7.374		
13,300.00	7,870.00	7,812.00	7,812.00	92.52	135.37	90.00	-1,438.76	2,957.00	1,522.55	1,322.40	200.15	7.607		
13,400.00	7,870.00	7,812.00	7,812.00	93.00	135.37	90.00	-1,438.76	2,957.00	1,582.35	1,381.09	201.27	7.862		
13,500.00	7,870.00	7,812.00	7,812.00	93.53	135.37	90.00	-1,438.76	2,957.00	1,646.06	1,443.77	202.30	8.137		
13,600.00	7,870.00	7,812.00	7,812.00	94.10	135.37	90.00	-1,438.76	2,957.00	1,713.25	1,510.01	203.24	8.430		
13,700.00	7,870.00	7,812.00	7,812.00	94.72	135.37	90.00	-1,438.76	2,957.00	1,783.51	1,579.41	204.10	8.738		
13,800.00	7,870.00	7,812.00	7,812.00	95.38	135.37	90.00	-1,438.76	2,957.00	1,856.50	1,651.62	204.88	9.062		
13,900.00	7,870.00	7,812.00	7,812.00	96.09	135.37	90.00	-1,438.76	2,957.00	1,931.91	1,726.33	205.58	9.397		
14,000.00	7,870.00	7,812.00	7,812.00	96.84	135.37	90.00	-1,438.76	2,957.00	2,009.47	1,803.26	206.21	9.745		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,812.00	7,812.00	97.64	135.37	90.00	-1,438.76	2,957.00	2,088.93	1,882.16	206.78	10.102		
14,200.00	7,870.00	7,812.00	7,812.00	98.48	135.37	90.00	-1,438.76	2,957.00	2,170.10	1,962.81	207.29	10.469		
14,300.00	7,870.00	7,812.00	7,812.00	99.37	135.37	90.00	-1,438.76	2,957.00	2,252.78	2,045.03	207.75	10.844		
14,400.00	7,870.00	7,812.00	7,812.00	100.30	135.37	90.00	-1,438.76	2,957.00	2,336.82	2,128.65	208.17	11.226		
14,500.00	7,870.00	7,812.00	7,812.00	101.26	135.37	90.00	-1,438.76	2,957.00	2,422.06	2,213.52	208.55	11.614		
14,600.00	7,870.00	7,812.00	7,812.00	102.27	135.37	90.00	-1,438.76	2,957.00	2,508.40	2,299.51	208.89	12.008		
14,700.00	7,870.00	7,812.00	7,812.00	103.31	135.37	90.00	-1,438.76	2,957.00	2,595.72	2,386.52	209.20	12.408		
14,800.00	7,870.00	7,812.00	7,812.00	104.38	135.37	90.00	-1,438.76	2,957.00	2,683.93	2,474.45	209.48	12.812		
14,900.00	7,870.00	7,812.00	7,812.00	105.49	135.37	90.00	-1,438.76	2,957.00	2,772.93	2,563.19	209.74	13.221		
15,000.00	7,870.00	7,812.00	7,812.00	106.63	135.37	90.00	-1,438.76	2,957.00	2,862.66	2,652.69	209.97	13.634		
15,100.00	7,870.00	7,812.00	7,812.00	107.80	135.37	90.00	-1,438.76	2,957.00	2,953.05	2,742.87	210.19	14.050		
15,200.00	7,870.00	7,812.00	7,812.00	109.00	135.37	90.00	-1,438.76	2,957.00	3,044.04	2,833.66	210.38	14.469		
15,300.00	7,870.00	7,812.00	7,812.00	110.22	135.37	90.00	-1,438.76	2,957.00	3,135.58	2,925.02	210.57	14.891		
15,400.00	7,870.00	7,812.00	7,812.00	111.47	135.37	90.00	-1,438.76	2,957.00	3,227.63	3,016.89	210.73	15.316		
15,500.00	7,870.00	7,812.00	7,812.00	112.74	135.37	90.00	-1,438.76	2,957.00	3,320.13	3,109.24	210.89	15.743		
15,600.00	7,870.00	7,812.00	7,812.00	114.03	135.37	90.00	-1,438.76	2,957.00	3,413.06	3,202.02	211.03	16.173		
15,700.00	7,870.00	7,812.00	7,812.00	115.34	135.37	90.00	-1,438.76	2,957.00	3,506.37	3,295.20	211.17	16.605		
15,800.00	7,870.00	7,812.00	7,812.00	116.68	135.37	90.00	-1,438.76	2,957.00	3,600.04	3,388.75	211.29	17.038		
15,900.00	7,870.00	7,812.00	7,812.00	118.02	135.37	90.00	-1,438.76	2,957.00	3,694.05	3,482.64	211.41	17.473		
16,000.00	7,870.00	7,812.00	7,812.00	119.39	135.37	90.00	-1,438.76	2,957.00	3,788.36	3,576.84	211.52	17.910		
16,100.00	7,870.00	7,812.00	7,812.00	120.77	135.37	90.00	-1,438.76	2,957.00	3,882.96	3,671.34	211.63	18.348		
16,200.00	7,870.00	7,812.00	7,812.00	122.17	135.37	90.00	-1,438.76	2,957.00	3,977.82	3,766.10	211.72	18.788		
16,300.00	7,870.00	7,812.00	7,812.00	123.58	135.37	90.00	-1,438.76	2,957.00	4,072.93	3,861.11	211.82	19.229		
16,400.00	7,870.00	7,812.00	7,812.00	125.00	135.37	90.00	-1,438.76	2,957.00	4,168.27	3,956.36	211.90	19.671		
16,500.00	7,870.00	7,812.00	7,812.00	126.43	135.37	90.00	-1,438.76	2,957.00	4,263.82	4,051.83	211.99	20.114		
16,600.00	7,870.00	7,812.00	7,812.00	127.88	135.37	90.00	-1,438.76	2,957.00	4,359.57	4,147.50	212.06	20.558		
16,700.00	7,870.00	7,812.00	7,812.00	129.34	135.37	90.00	-1,438.76	2,957.00	4,455.50	4,243.36	212.14	21.003		
16,800.00	7,870.00	7,812.00	7,812.00	130.81	135.37	90.00	-1,438.76	2,957.00	4,551.61	4,339.40	212.21	21.448		
16,900.00	7,870.00	7,812.00	7,812.00	132.28	135.37	90.00	-1,438.76	2,957.00	4,647.89	4,435.61	212.28	21.895		
17,000.00	7,870.00	7,812.00	7,812.00	133.77	135.37	90.00	-1,438.76	2,957.00	4,744.32	4,531.97	212.35	22.342		
17,100.00	7,870.00	7,812.00	7,812.00	135.27	135.37	90.00	-1,438.76	2,957.00	4,840.89	4,628.48	212.41	22.790		
17,200.00	7,870.00	7,812.00	7,812.00	136.77	135.37	90.00	-1,438.76	2,957.00	4,937.60	4,725.13	212.47	23.239		
17,300.00	7,870.00	7,812.00	7,812.00	138.28	135.37	90.00	-1,438.76	2,957.00	5,034.44	4,821.91	212.53	23.688		
17,400.00	7,870.00	7,812.00	7,812.00	139.80	135.37	90.00	-1,438.76	2,957.00	5,131.40	4,918.82	212.59	24.138		
17,500.00	7,870.00	7,812.00	7,812.00	141.33	135.37	90.00	-1,438.76	2,957.00	5,228.48	5,015.84	212.64	24.588		
17,600.00	7,870.00	7,812.00	7,812.00	142.86	135.37	90.00	-1,438.76	2,957.00	5,325.66	5,112.96	212.70	25.039		
17,700.00	7,870.00	7,812.00	7,812.00	144.40	135.37	90.00	-1,438.76	2,957.00	5,422.95	5,210.20	212.75	25.490		
17,800.00	7,870.00	7,812.00	7,812.00	145.95	135.37	90.00	-1,438.76	2,957.00	5,520.33	5,307.53	212.80	25.941		
17,900.00	7,870.00	7,812.00	7,812.00	147.50	135.37	90.00	-1,438.76	2,957.00	5,617.81	5,404.95	212.85	26.393		
18,000.00	7,870.00	7,812.00	7,812.00	149.06	135.37	90.00	-1,438.76	2,957.00	5,715.37	5,502.47	212.90	26.845		
18,100.00	7,870.00	7,812.00	7,812.00	150.63	135.37	90.00	-1,438.76	2,957.00	5,813.01	5,600.06	212.95	27.298		
18,200.00	7,870.00	7,812.00	7,812.00	152.20	135.37	90.00	-1,438.76	2,957.00	5,910.74	5,697.74	213.00	27.750		
18,300.00	7,870.00	7,812.00	7,812.00	153.77	135.37	90.00	-1,438.76	2,957.00	6,008.54	5,795.49	213.04	28.203		
18,400.00	7,870.00	7,812.00	7,812.00	155.35	135.37	90.00	-1,438.76	2,957.00	6,106.40	5,893.32	213.09	28.657		
18,500.00	7,870.00	7,812.00	7,812.00	156.93	135.37	90.00	-1,438.76	2,957.00	6,204.34	5,991.21	213.13	29.110		
18,600.00	7,870.00	7,812.00	7,812.00	158.52	135.37	90.00	-1,438.76	2,957.00	6,302.35	6,089.17	213.18	29.564		
18,700.00	7,870.00	7,812.00	7,812.00	160.11	135.37	90.00	-1,438.76	2,957.00	6,400.41	6,187.19	213.22	30.018		
18,800.00	7,870.00	7,812.00	7,812.00	161.71	135.37	90.00	-1,438.76	2,957.00	6,498.53	6,285.27	213.26	30.472		
18,900.00	7,870.00	7,812.00	7,812.00	163.31	135.37	90.00	-1,438.76	2,957.00	6,596.71	6,383.41	213.31	30.926		
19,000.00	7,870.00	7,812.00	7,812.00	164.91	135.37	90.00	-1,438.76	2,957.00	6,694.95	6,481.60	213.35	31.380		
19,100.00	7,870.00	7,812.00	7,812.00	166.52	135.37	90.00	-1,438.76	2,957.00	6,793.23	6,579.84	213.39	31.835		
19,200.00	7,870.00	7,812.00	7,812.00	168.13	135.37	90.00	-1,438.76	2,957.00	6,891.57	6,678.13	213.43	32.289		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,812.00	7,812.00	169.75	135.37	90.00	-1,438.76	2,957.00	6,989.95	6,776.47	213.47	32.744	
19,383.51	7,870.00	7,812.00	7,812.00	171.10	135.37	90.00	-1,438.76	2,957.00	7,072.14	6,858.63	213.51	33.124	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	108.66	-1,434.93	4,247.89	4,483.85					
100.00	100.00	63.00	63.00	0.13	0.48	108.66	-1,434.93	4,247.89	4,483.70	4,483.09	0.61	7,317.518		
200.00	200.00	163.00	163.00	0.49	1.86	108.66	-1,434.93	4,247.89	4,483.70	4,481.35	2.35	1,906.598		
300.00	300.00	263.00	263.00	0.85	3.60	108.66	-1,434.93	4,247.89	4,483.70	4,479.24	4.46	1,006.335		
400.00	400.00	363.00	363.00	1.21	5.35	108.66	-1,434.93	4,247.89	4,483.70	4,477.14	6.56	683.566		
500.00	500.00	463.00	463.00	1.57	7.09	108.66	-1,434.93	4,247.89	4,483.70	4,475.04	8.66	517.564		
600.00	600.00	563.00	563.00	1.93	8.84	108.66	-1,434.93	4,247.89	4,483.70	4,472.93	10.77	416.435		
700.00	699.98	662.98	662.98	2.28	10.59	44.88	-1,434.93	4,247.89	4,482.46	4,469.60	12.87	348.404		
800.00	799.84	762.84	762.84	2.64	12.33	44.98	-1,434.93	4,247.89	4,478.75	4,463.79	14.96	299.356		
900.00	899.45	862.45	862.45	3.00	14.07	45.14	-1,434.93	4,247.89	4,472.59	4,455.53	17.06	262.207		
1,000.00	998.70	961.70	961.70	3.37	15.80	45.38	-1,434.93	4,247.89	4,463.98	4,444.82	19.15	233.056		
1,100.00	1,097.47	1,060.47	1,060.47	3.76	17.52	45.68	-1,434.93	4,247.89	4,452.95	4,431.70	21.25	209.530		
1,200.00	1,195.62	1,158.62	1,158.62	4.18	19.24	46.05	-1,434.93	4,247.89	4,439.53	4,416.18	23.35	190.110		
1,300.00	1,293.06	1,256.06	1,256.06	4.63	20.94	46.49	-1,434.93	4,247.89	4,423.77	4,398.31	25.46	173.773		
1,400.00	1,389.64	1,352.64	1,352.64	5.11	22.62	46.99	-1,434.93	4,247.89	4,405.71	4,378.14	27.57	159.813		
1,500.00	1,485.27	1,448.27	1,448.27	5.63	24.29	47.57	-1,434.93	4,247.89	4,385.40	4,355.71	29.69	147.723		
1,600.00	1,579.82	1,542.82	1,542.82	6.20	25.94	48.22	-1,434.93	4,247.89	4,362.91	4,331.09	31.82	137.129		
1,700.00	1,673.17	1,636.17	1,636.17	6.83	27.57	48.94	-1,434.93	4,247.89	4,338.29	4,304.33	33.96	127.754		
1,800.00	1,765.21	1,728.21	1,728.21	7.51	29.18	49.74	-1,434.93	4,247.89	4,311.63	4,275.52	36.12	119.384		
1,900.00	1,855.84	1,818.84	1,818.84	8.24	30.76	50.61	-1,434.93	4,247.89	4,283.01	4,244.72	38.29	111.855		
2,000.00	1,944.94	1,907.94	1,907.94	9.05	32.31	51.55	-1,434.93	4,247.89	4,252.52	4,212.04	40.49	105.036		
2,100.00	2,032.39	2,004.61	1,995.39	9.91	34.00	52.56	-1,434.93	4,247.89	4,220.26	4,177.39	42.87	98.452		
2,200.00	2,118.11	2,081.11	2,081.11	10.85	35.34	53.65	-1,434.93	4,247.89	4,186.33	4,141.38	44.95	93.134		
2,300.00	2,201.97	2,164.97	2,164.97	11.85	36.80	54.81	-1,434.93	4,247.89	4,150.84	4,103.61	47.22	87.901		
2,400.00	2,283.88	2,246.88	2,246.88	12.93	38.23	56.04	-1,434.93	4,247.89	4,113.91	4,064.38	49.52	83.068		
2,429.47	2,307.63	2,270.63	2,270.63	13.26	38.64	56.42	-1,434.93	4,247.89	4,102.77	4,052.56	50.21	81.713		
2,500.00	2,364.26	2,327.26	2,327.26	14.06	39.63	56.85	-1,434.93	4,247.89	4,076.11	4,024.25	51.86	78.601		
2,600.00	2,444.56	2,407.56	2,407.56	15.22	41.03	57.46	-1,434.93	4,247.89	4,038.76	3,984.53	54.22	74.482		
2,700.00	2,524.85	2,487.85	2,487.85	16.39	42.44	58.08	-1,434.93	4,247.89	4,001.94	3,945.32	56.62	70.679		
2,800.00	2,605.14	2,568.14	2,568.14	17.57	43.84	58.71	-1,434.93	4,247.89	3,965.68	3,906.64	59.05	67.163		
2,900.00	2,685.43	2,648.43	2,648.43	18.76	45.24	59.35	-1,434.93	4,247.89	3,929.99	3,868.50	61.50	63.907		
3,000.00	2,765.73	2,728.73	2,728.73	19.96	46.64	59.99	-1,434.93	4,247.89	3,894.89	3,830.92	63.97	60.886		
3,100.00	2,846.02	2,809.02	2,809.02	21.16	48.04	60.65	-1,434.93	4,247.89	3,860.38	3,793.91	66.47	58.079		
3,200.00	2,926.31	2,889.31	2,889.31	22.37	49.44	61.31	-1,434.93	4,247.89	3,826.50	3,757.51	68.99	55.467		
3,300.00	3,006.60	2,969.60	2,969.60	23.59	50.84	61.98	-1,434.93	4,247.89	3,793.24	3,721.72	71.53	53.032		
3,400.00	3,086.90	3,049.90	3,049.90	24.81	52.24	62.66	-1,434.93	4,247.89	3,760.64	3,686.55	74.09	50.759		
3,500.00	3,167.19	3,130.19	3,130.19	26.03	53.65	63.35	-1,434.93	4,247.89	3,728.71	3,652.04	76.67	48.635		
3,600.00	3,247.48	3,210.48	3,210.48	27.25	55.05	64.05	-1,434.93	4,247.89	3,697.46	3,618.19	79.27	46.646		
3,700.00	3,327.77	3,309.23	3,290.77	28.48	56.77	64.75	-1,434.93	4,247.89	3,666.91	3,584.71	82.20	44.607		
3,800.00	3,408.07	3,371.07	3,371.07	29.71	57.85	65.47	-1,434.93	4,247.89	3,637.09	3,552.57	84.52	43.034		
3,900.00	3,488.36	3,451.36	3,451.36	30.94	59.25	66.19	-1,434.93	4,247.89	3,608.00	3,520.83	87.17	41.392		
4,000.00	3,568.65	3,531.65	3,531.65	32.17	60.65	66.92	-1,434.93	4,247.89	3,579.67	3,489.84	89.83	39.848		
4,100.00	3,648.95	3,611.95	3,611.95	33.41	62.05	67.65	-1,434.93	4,247.89	3,552.11	3,459.60	92.51	38.396		
4,200.00	3,729.24	3,707.76	3,692.24	34.64	63.73	68.40	-1,434.93	4,247.89	3,525.35	3,429.87	95.48	36.922		
4,300.00	3,809.53	3,772.53	3,772.53	35.88	64.86	69.15	-1,434.93	4,247.89	3,499.40	3,401.48	97.92	35.738		
4,400.00	3,889.82	3,852.82	3,852.82	37.12	66.26	69.92	-1,434.93	4,247.89	3,474.27	3,373.63	100.64	34.521		
4,500.00	3,970.12	3,933.12	3,933.12	38.36	67.66	70.68	-1,434.93	4,247.89	3,450.00	3,346.62	103.38	33.373		
4,600.00	4,050.41	4,013.41	4,013.41	39.60	69.06	71.46	-1,434.93	4,247.89	3,426.58	3,320.46	106.12	32.289		
4,700.00	4,130.70	4,106.30	4,093.70	40.84	70.68	72.24	-1,434.93	4,247.89	3,404.05	3,294.96	109.10	31.202		
4,800.00	4,210.99	4,173.99	4,173.99	42.08	71.86	73.03	-1,434.93	4,247.89	3,382.43	3,270.78	111.64	30.297		
4,900.00	4,291.29	4,254.29	4,254.29	43.32	73.27	73.83	-1,434.93	4,247.89	3,361.71	3,247.30	114.41	29.382		
5,000.00	4,371.58	4,334.58	4,334.58	44.57	74.67	74.63	-1,434.93	4,247.89	3,341.94	3,224.74	117.19	28.516		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,414.87	4,414.87	45.81	76.07	75.44	-1,434.93	4,247.89	3,323.11	3,203.13	119.98	27.697		
5,200.00	4,532.16	4,504.84	4,495.16	47.05	77.64	76.26	-1,434.93	4,247.89	3,305.26	3,182.32	122.94	26.885		
5,300.00	4,612.46	4,575.46	4,575.46	48.30	78.87	77.08	-1,434.93	4,247.89	3,288.39	3,162.82	125.56	26.189		
5,400.00	4,692.75	4,655.75	4,655.75	49.54	80.27	77.91	-1,434.93	4,247.89	3,272.51	3,144.15	128.36	25.495		
5,500.00	4,773.04	4,736.04	4,736.04	50.79	81.67	78.74	-1,434.93	4,247.89	3,257.65	3,126.50	131.15	24.838		
5,600.00	4,853.34	4,816.34	4,816.34	52.03	83.07	79.57	-1,434.93	4,247.89	3,243.82	3,109.87	133.95	24.217		
5,700.00	4,933.63	4,903.37	4,896.63	53.28	84.59	80.42	-1,434.93	4,247.89	3,231.03	3,094.17	136.86	23.608		
5,800.00	5,013.92	4,976.92	4,976.92	54.53	85.88	81.26	-1,434.93	4,247.89	3,219.29	3,079.76	139.53	23.072		
5,900.00	5,094.21	5,057.21	5,057.21	55.77	87.28	82.11	-1,434.93	4,247.89	3,208.61	3,066.30	142.31	22.546		
6,000.00	5,174.51	5,137.51	5,137.51	57.02	88.68	82.96	-1,434.93	4,247.89	3,199.01	3,053.92	145.09	22.048		
6,100.00	5,254.80	5,217.80	5,217.80	58.27	90.08	83.82	-1,434.93	4,247.89	3,190.50	3,042.64	147.86	21.578		
6,200.00	5,335.09	5,301.91	5,298.09	59.52	91.55	84.68	-1,434.93	4,247.89	3,183.08	3,032.39	150.69	21.124		
6,300.00	5,415.38	5,378.38	5,378.38	60.76	92.88	85.54	-1,434.93	4,247.89	3,176.76	3,023.39	153.37	20.713		
6,400.00	5,495.68	5,458.68	5,458.68	62.01	94.29	86.40	-1,434.93	4,247.89	3,171.55	3,015.44	156.10	20.317		
6,500.00	5,575.97	5,538.97	5,538.97	63.26	95.69	87.27	-1,434.93	4,247.89	3,167.45	3,008.62	158.83	19.943		
6,600.00	5,656.26	5,619.26	5,619.26	64.51	97.09	88.13	-1,434.93	4,247.89	3,164.47	3,002.94	161.53	19.590		
6,700.00	5,736.55	5,700.45	5,699.55	65.76	98.51	89.00	-1,434.93	4,247.89	3,162.61	2,998.37	164.24	19.256		
6,800.00	5,816.85	5,779.85	5,779.85	67.01	99.89	89.87	-1,434.93	4,247.89	3,161.87	2,994.98	166.89	18.945		
6,815.56	5,829.34	5,807.66	5,792.34	67.20	100.38	90.00	-1,434.93	4,247.89	3,161.86	2,994.28	167.58	18.868		
6,900.00	5,897.14	5,860.14	5,860.14	68.26	101.29	90.73	-1,434.93	4,247.89	3,162.26	2,992.71	169.55	18.651		
7,000.00	5,977.43	5,940.43	5,940.43	69.50	102.69	91.60	-1,434.93	4,247.89	3,163.77	2,991.59	172.18	18.375		
7,100.00	6,057.72	6,020.72	6,020.72	70.75	104.10	92.47	-1,434.93	4,247.89	3,166.40	2,991.61	174.79	18.116		
7,200.00	6,138.02	6,101.02	6,101.02	72.00	105.50	93.33	-1,434.93	4,247.89	3,170.15	2,992.77	177.38	17.872		
7,300.00	6,218.31	6,181.31	6,181.31	73.25	106.90	94.19	-1,434.93	4,247.89	3,175.02	2,995.08	179.94	17.645		
7,400.00	6,298.60	6,261.60	6,261.60	74.50	108.30	95.06	-1,434.93	4,247.89	3,180.99	2,998.51	182.48	17.432		
7,500.00	6,378.90	6,341.90	6,341.90	75.75	109.70	95.91	-1,434.93	4,247.89	3,188.07	3,003.07	185.00	17.233		
7,600.00	6,459.19	6,422.19	6,422.19	77.00	111.10	96.77	-1,434.93	4,247.89	3,196.25	3,008.76	187.49	17.047		
7,700.00	6,539.48	6,502.48	6,502.48	78.25	112.50	97.63	-1,434.93	4,247.89	3,205.51	3,015.55	189.96	16.875		
7,800.00	6,619.77	6,582.77	6,582.77	79.50	113.90	98.48	-1,434.93	4,247.89	3,215.85	3,023.46	192.39	16.715		
7,900.00	6,700.07	6,663.07	6,663.07	80.75	115.31	99.32	-1,434.93	4,247.89	3,227.26	3,032.46	194.80	16.567		
8,000.00	6,780.36	6,743.36	6,743.36	82.00	116.71	100.16	-1,434.93	4,247.89	3,239.72	3,042.54	197.19	16.430		
8,100.00	6,860.65	6,823.65	6,823.65	83.25	118.11	101.00	-1,434.93	4,247.89	3,253.24	3,053.69	199.54	16.303		
8,200.00	6,940.94	6,903.94	6,903.94	84.50	119.51	101.84	-1,434.93	4,247.89	3,267.78	3,065.91	201.87	16.187		
8,300.00	7,021.24	6,984.24	6,984.24	85.76	120.91	102.66	-1,434.93	4,247.89	3,283.34	3,079.16	204.17	16.081		
8,400.00	7,101.53	7,064.53	7,064.53	87.01	122.31	103.49	-1,434.93	4,247.89	3,299.90	3,093.45	206.45	15.984		
8,500.00	7,181.82	7,144.82	7,144.82	88.26	123.71	104.30	-1,434.93	4,247.89	3,317.45	3,108.76	208.69	15.896		
8,605.60	7,266.61	7,229.61	7,229.61	89.58	125.19	105.16	-1,434.93	4,247.89	3,337.04	3,126.01	211.04	15.813		
8,650.00	7,302.60	7,265.60	7,265.60	90.13	125.82	99.78	-1,434.93	4,247.89	3,343.91	3,131.89	212.02	15.772		
8,700.00	7,343.78	7,306.78	7,306.78	90.72	126.54	93.13	-1,434.93	4,247.89	3,347.81	3,134.67	213.13	15.708		
8,750.00	7,385.32	7,348.32	7,348.32	91.28	127.27	86.09	-1,434.93	4,247.89	3,347.60	3,133.35	214.24	15.625		
8,800.00	7,426.92	7,389.92	7,389.92	91.81	127.99	78.96	-1,434.93	4,247.89	3,343.28	3,127.94	215.34	15.525		
8,850.00	7,468.27	7,431.27	7,431.27	92.29	128.71	72.04	-1,434.93	4,247.89	3,334.87	3,118.45	216.42	15.409		
8,900.00	7,509.04	7,472.04	7,472.04	92.72	129.43	65.59	-1,434.93	4,247.89	3,322.42	3,104.96	217.46	15.278		
8,950.00	7,548.93	7,511.93	7,511.93	93.10	130.12	59.77	-1,434.93	4,247.89	3,306.01	3,087.55	218.46	15.133		
9,000.00	7,587.63	7,550.63	7,550.63	93.43	130.80	54.66	-1,434.93	4,247.89	3,285.74	3,066.32	219.41	14.975		
9,050.00	7,624.85	7,587.85	7,587.85	93.71	131.45	50.24	-1,434.93	4,247.89	3,261.73	3,041.42	220.31	14.805		
9,100.00	7,660.30	7,623.30	7,623.30	93.93	132.07	46.48	-1,434.93	4,247.89	3,234.16	3,013.01	221.15	14.624		
9,150.00	7,693.72	7,656.72	7,656.72	94.10	132.65	43.30	-1,434.93	4,247.89	3,203.20	2,981.28	221.92	14.434		
9,200.00	7,724.85	7,687.85	7,687.85	94.23	133.19	40.62	-1,434.93	4,247.89	3,169.06	2,946.43	222.63	14.235		
9,250.00	7,753.45	7,716.45	7,716.45	94.30	133.69	38.37	-1,434.93	4,247.89	3,131.97	2,908.71	223.26	14.028		
9,300.00	7,779.31	7,742.31	7,742.31	94.34	134.14	36.49	-1,434.93	4,247.89	3,092.19	2,868.37	223.82	13.815		
9,350.00	7,802.23	7,765.23	7,765.23	94.33	134.54	34.89	-1,434.93	4,247.89	3,050.00	2,825.69	224.31	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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,785.03	7,785.03	94.28	134.89	33.52	-1,434.93	4,247.89	3,005.68	2,780.96	224.72	13.375		
9,450.00	7,838.57	7,801.57	7,801.57	94.20	135.18	32.27	-1,434.93	4,247.89	2,959.55	2,734.50	225.05	13.151		
9,500.00	7,851.72	7,814.72	7,814.72	94.10	135.41	30.97	-1,434.93	4,247.89	2,911.95	2,686.64	225.31	12.924		
9,550.00	7,861.37	7,824.37	7,824.37	93.96	135.57	29.20	-1,434.93	4,247.89	2,863.21	2,637.72	225.50	12.697		
9,600.00	7,867.46	7,830.46	7,830.46	93.81	135.68	24.95	-1,434.93	4,247.89	2,813.70	2,588.09	225.61	12.472		
9,650.00	7,869.94	7,832.94	7,832.94	93.64	135.72	-31.98	-1,434.93	4,247.89	2,763.79	2,538.14	225.65	12.248		
9,659.14	7,870.00	7,833.00	7,833.00	93.60	135.73	-90.00	-1,434.93	4,247.89	2,754.65	2,529.00	225.65	12.208		
9,700.00	7,870.00	7,833.00	7,833.00	93.46	135.73	-90.00	-1,434.93	4,247.89	2,713.79	2,488.15	225.65	12.027		
9,800.00	7,870.00	7,833.00	7,833.00	93.11	135.73	-90.00	-1,434.93	4,247.89	2,613.81	2,388.17	225.64	11.584		
9,900.00	7,870.00	7,833.00	7,833.00	92.77	135.73	-90.00	-1,434.93	4,247.89	2,513.83	2,288.20	225.63	11.141		
10,000.00	7,870.00	7,833.00	7,833.00	92.46	135.73	-90.00	-1,434.93	4,247.89	2,413.84	2,188.22	225.62	10.699		
10,100.00	7,870.00	7,833.00	7,833.00	92.16	135.73	-90.00	-1,434.93	4,247.89	2,313.86	2,088.25	225.61	10.256		
10,200.00	7,870.00	7,833.00	7,833.00	91.87	135.73	-90.00	-1,434.93	4,247.89	2,213.89	1,988.28	225.60	9.813		
10,300.00	7,870.00	7,833.00	7,833.00	91.60	135.73	-90.00	-1,434.93	4,247.89	2,113.91	1,888.32	225.59	9.371		
10,400.00	7,870.00	7,833.00	7,833.00	91.34	135.73	-90.00	-1,434.93	4,247.89	2,013.94	1,788.36	225.58	8.928		
10,500.00	7,870.00	7,833.00	7,833.00	91.11	135.73	-90.00	-1,434.93	4,247.89	1,913.97	1,688.40	225.57	8.485		
10,600.00	7,870.00	7,833.00	7,833.00	90.88	135.73	-90.00	-1,434.93	4,247.89	1,814.00	1,588.44	225.56	8.042		
10,700.00	7,870.00	7,833.00	7,833.00	90.67	135.73	-90.00	-1,434.93	4,247.89	1,714.03	1,488.49	225.54	7.600		
10,800.00	7,870.00	7,833.00	7,833.00	90.48	135.73	-90.00	-1,434.93	4,247.89	1,614.07	1,388.55	225.53	7.157		
10,900.00	7,870.00	7,833.00	7,833.00	90.31	135.73	-90.00	-1,434.93	4,247.89	1,514.12	1,288.61	225.51	6.714		
11,000.00	7,870.00	7,833.00	7,833.00	90.15	135.73	-90.00	-1,434.93	4,247.89	1,414.17	1,188.68	225.49	6.271		
11,100.00	7,870.00	7,833.00	7,833.00	90.00	135.73	-90.00	-1,434.93	4,247.89	1,314.23	1,088.76	225.47	5.829		
11,200.00	7,870.00	7,833.00	7,833.00	89.88	135.73	-90.00	-1,434.93	4,247.89	1,214.30	988.86	225.44	5.386		
11,300.00	7,870.00	7,833.00	7,833.00	89.77	135.73	-90.00	-1,434.93	4,247.89	1,114.38	888.97	225.41	4.944		
11,400.00	7,870.00	7,833.00	7,833.00	89.68	135.73	-90.00	-1,434.93	4,247.89	1,014.48	789.11	225.38	4.501		
11,500.00	7,870.00	7,833.00	7,833.00	89.60	135.73	-90.00	-1,434.93	4,247.89	914.60	689.28	225.33	4.059		
11,600.00	7,870.00	7,833.00	7,833.00	89.55	135.73	-90.00	-1,434.93	4,247.89	814.75	589.49	225.27	3.617		
11,700.00	7,870.00	7,833.00	7,833.00	89.52	135.73	-90.00	-1,434.93	4,247.89	714.95	489.76	225.18	3.175		
11,800.00	7,870.00	7,833.00	7,833.00	89.50	135.73	-90.00	-1,434.93	4,247.89	615.20	390.13	225.07	2.733		
11,900.00	7,870.00	7,833.00	7,833.00	89.51	135.73	-90.00	-1,434.93	4,247.89	515.55	290.65	224.90	2.292		
12,000.00	7,870.00	7,833.00	7,833.00	89.54	135.73	-90.00	-1,434.93	4,247.89	416.08	191.45	224.63	1.852		
12,100.00	7,870.00	7,833.00	7,833.00	89.59	135.73	-90.00	-1,434.93	4,247.89	316.93	92.80	224.13	1.414	Level 3	
12,200.00	7,870.00	7,833.00	7,833.00	89.66	135.73	-90.00	-1,434.93	4,247.89	218.56	-4.43	222.98	0.980	Level 1	
12,300.00	7,870.00	7,833.00	7,833.00	89.77	135.73	-90.00	-1,434.93	4,247.89	122.84	-96.12	218.97	0.561	Level 1	
12,400.00	7,870.00	7,833.00	7,833.00	89.89	135.73	-90.00	-1,434.93	4,247.89	49.14	-142.77	191.91	0.256	Level 1	
12,413.38	7,870.00	7,833.00	7,833.00	89.91	135.73	-90.00	-1,434.93	4,247.89	47.28	-144.22	191.50	0.247	Level 1, CC, ES, SF	
12,500.00	7,870.00	7,833.00	7,833.00	90.05	135.73	-90.00	-1,434.93	4,247.89	98.68	-123.56	222.24	0.444	Level 1	
12,600.00	7,870.00	7,833.00	7,833.00	90.24	135.73	-90.00	-1,434.93	4,247.89	192.52	-33.24	225.76	0.853	Level 1	
12,700.00	7,870.00	7,833.00	7,833.00	90.46	135.73	-90.00	-1,434.93	4,247.89	290.49	64.32	226.17	1.284	Level 3	
12,800.00	7,870.00	7,833.00	7,833.00	90.71	135.73	-90.00	-1,434.93	4,247.89	389.50	163.27	226.22	1.722		
12,900.00	7,870.00	7,833.00	7,833.00	90.99	135.73	-90.00	-1,434.93	4,247.89	488.91	262.70	226.21	2.161		
13,000.00	7,870.00	7,833.00	7,833.00	91.32	135.73	-90.00	-1,434.93	4,247.89	588.52	362.33	226.19	2.602		
13,100.00	7,870.00	7,833.00	7,833.00	91.68	135.73	-90.00	-1,434.93	4,247.89	688.24	462.08	226.16	3.043		
13,200.00	7,870.00	7,833.00	7,833.00	92.08	135.73	-90.00	-1,434.93	4,247.89	788.04	561.90	226.14	3.485		
13,300.00	7,870.00	7,833.00	7,833.00	92.52	135.73	-90.00	-1,434.93	4,247.89	887.88	661.75	226.12	3.927		
13,400.00	7,870.00	7,833.00	7,833.00	93.00	135.73	-90.00	-1,434.93	4,247.89	987.75	761.64	226.11	4.368		
13,500.00	7,870.00	7,833.00	7,833.00	93.53	135.73	-90.00	-1,434.93	4,247.89	1,087.65	861.55	226.10	4.811		
13,600.00	7,870.00	7,833.00	7,833.00	94.10	135.73	-90.00	-1,434.93	4,247.89	1,187.56	961.47	226.09	5.253		
13,700.00	7,870.00	7,833.00	7,833.00	94.72	135.73	-90.00	-1,434.93	4,247.89	1,287.49	1,061.40	226.08	5.695		
13,800.00	7,870.00	7,833.00	7,833.00	95.38	135.73	-90.00	-1,434.93	4,247.89	1,387.42	1,161.35	226.08	6.137		
13,900.00	7,870.00	7,833.00	7,833.00	96.09	135.73	-90.00	-1,434.93	4,247.89	1,487.37	1,261.30	226.08	6.579		
14,000.00	7,870.00	7,833.00	7,833.00	96.84	135.73	-90.00	-1,434.93	4,247.89	1,587.32	1,361.25	226.07	7.021		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,833.00	7,833.00	97.64	135.73	-90.00	-1,434.93	4,247.89	1,687.28	1,461.21	226.07	7.463		
14,200.00	7,870.00	7,833.00	7,833.00	98.48	135.73	-90.00	-1,434.93	4,247.89	1,787.24	1,561.17	226.08	7.906		
14,300.00	7,870.00	7,833.00	7,833.00	99.37	135.73	-90.00	-1,434.93	4,247.89	1,887.21	1,661.13	226.08	8.348		
14,400.00	7,870.00	7,833.00	7,833.00	100.30	135.73	-90.00	-1,434.93	4,247.89	1,987.18	1,761.10	226.08	8.790		
14,500.00	7,870.00	7,833.00	7,833.00	101.26	135.73	-90.00	-1,434.93	4,247.89	2,087.15	1,861.07	226.09	9.232		
14,600.00	7,870.00	7,833.00	7,833.00	102.27	135.73	-90.00	-1,434.93	4,247.89	2,187.13	1,961.04	226.09	9.674		
14,700.00	7,870.00	7,833.00	7,833.00	103.31	135.73	-90.00	-1,434.93	4,247.89	2,287.11	2,061.01	226.10	10.116		
14,800.00	7,870.00	7,833.00	7,833.00	104.38	135.73	-90.00	-1,434.93	4,247.89	2,387.09	2,160.99	226.10	10.558		
14,900.00	7,870.00	7,833.00	7,833.00	105.49	135.73	-90.00	-1,434.93	4,247.89	2,487.07	2,260.96	226.11	10.999		
15,000.00	7,870.00	7,833.00	7,833.00	106.63	135.73	-90.00	-1,434.93	4,247.89	2,587.05	2,360.93	226.12	11.441		
15,100.00	7,870.00	7,833.00	7,833.00	107.80	135.73	-90.00	-1,434.93	4,247.89	2,687.03	2,460.91	226.13	11.883		
15,200.00	7,870.00	7,833.00	7,833.00	109.00	135.73	-90.00	-1,434.93	4,247.89	2,787.02	2,560.89	226.13	12.325		
15,300.00	7,870.00	7,833.00	7,833.00	110.22	135.73	-90.00	-1,434.93	4,247.89	2,887.01	2,660.86	226.14	12.766		
15,400.00	7,870.00	7,833.00	7,833.00	111.47	135.73	-90.00	-1,434.93	4,247.89	2,986.99	2,760.84	226.15	13.208		
15,500.00	7,870.00	7,833.00	7,833.00	112.74	135.73	-90.00	-1,434.93	4,247.89	3,086.98	2,860.82	226.16	13.649		
15,600.00	7,870.00	7,833.00	7,833.00	114.03	135.73	-90.00	-1,434.93	4,247.89	3,186.97	2,960.80	226.17	14.091		
15,700.00	7,870.00	7,833.00	7,833.00	115.34	135.73	-90.00	-1,434.93	4,247.89	3,286.96	3,060.77	226.19	14.532		
15,800.00	7,870.00	7,833.00	7,833.00	116.68	135.73	-90.00	-1,434.93	4,247.89	3,386.95	3,160.75	226.20	14.973		
15,900.00	7,870.00	7,833.00	7,833.00	118.02	135.73	-90.00	-1,434.93	4,247.89	3,486.94	3,260.73	226.21	15.415		
16,000.00	7,870.00	7,833.00	7,833.00	119.39	135.73	-90.00	-1,434.93	4,247.89	3,586.93	3,360.71	226.22	15.856		
16,100.00	7,870.00	7,833.00	7,833.00	120.77	135.73	-90.00	-1,434.93	4,247.89	3,686.92	3,460.69	226.24	16.297		
16,200.00	7,870.00	7,833.00	7,833.00	122.17	135.73	-90.00	-1,434.93	4,247.89	3,786.91	3,560.67	226.25	16.738		
16,300.00	7,870.00	7,833.00	7,833.00	123.58	135.73	-90.00	-1,434.93	4,247.89	3,886.91	3,660.64	226.26	17.179		
16,400.00	7,870.00	7,833.00	7,833.00	125.00	135.73	-90.00	-1,434.93	4,247.89	3,986.90	3,760.62	226.28	17.620		
16,500.00	7,870.00	7,833.00	7,833.00	126.43	135.73	-90.00	-1,434.93	4,247.89	4,086.89	3,860.60	226.29	18.060		
16,600.00	7,870.00	7,833.00	7,833.00	127.88	135.73	-90.00	-1,434.93	4,247.89	4,186.89	3,960.58	226.31	18.501		
16,700.00	7,870.00	7,833.00	7,833.00	129.34	135.73	-90.00	-1,434.93	4,247.89	4,286.88	4,060.56	226.32	18.941		
16,800.00	7,870.00	7,833.00	7,833.00	130.81	135.73	-90.00	-1,434.93	4,247.89	4,386.87	4,160.54	226.34	19.382		
16,900.00	7,870.00	7,833.00	7,833.00	132.28	135.73	-90.00	-1,434.93	4,247.89	4,486.87	4,260.51	226.35	19.822		
17,000.00	7,870.00	7,833.00	7,833.00	133.77	135.73	-90.00	-1,434.93	4,247.89	4,586.86	4,360.49	226.37	20.263		
17,100.00	7,870.00	7,833.00	7,833.00	135.27	135.73	-90.00	-1,434.93	4,247.89	4,686.86	4,460.47	226.39	20.703		
17,200.00	7,870.00	7,833.00	7,833.00	136.77	135.73	-90.00	-1,434.93	4,247.89	4,786.85	4,560.45	226.40	21.143		
17,300.00	7,870.00	7,833.00	7,833.00	138.28	135.73	-90.00	-1,434.93	4,247.89	4,886.85	4,660.43	226.42	21.583		
17,400.00	7,870.00	7,833.00	7,833.00	139.80	135.73	-90.00	-1,434.93	4,247.89	4,986.84	4,760.40	226.44	22.023		
17,500.00	7,870.00	7,833.00	7,833.00	141.33	135.73	-90.00	-1,434.93	4,247.89	5,086.84	4,860.38	226.46	22.463		
17,600.00	7,870.00	7,833.00	7,833.00	142.86	135.73	-90.00	-1,434.93	4,247.89	5,186.83	4,960.36	226.48	22.902		
17,700.00	7,870.00	7,833.00	7,833.00	144.40	135.73	-90.00	-1,434.93	4,247.89	5,286.83	5,060.34	226.50	23.342		
17,800.00	7,870.00	7,833.00	7,833.00	145.95	135.73	-90.00	-1,434.93	4,247.89	5,386.83	5,160.31	226.51	23.781		
17,900.00	7,870.00	7,833.00	7,833.00	147.50	135.73	-90.00	-1,434.93	4,247.89	5,486.82	5,260.29	226.53	24.221		
18,000.00	7,870.00	7,833.00	7,833.00	149.06	135.73	-90.00	-1,434.93	4,247.89	5,586.82	5,360.27	226.55	24.660		
18,100.00	7,870.00	7,833.00	7,833.00	150.63	135.73	-90.00	-1,434.93	4,247.89	5,686.82	5,460.24	226.57	25.099		
18,200.00	7,870.00	7,833.00	7,833.00	152.20	135.73	-90.00	-1,434.93	4,247.89	5,786.81	5,560.22	226.59	25.538		
18,300.00	7,870.00	7,833.00	7,833.00	153.77	135.73	-90.00	-1,434.93	4,247.89	5,886.81	5,660.19	226.62	25.977		
18,400.00	7,870.00	7,833.00	7,833.00	155.35	135.73	-90.00	-1,434.93	4,247.89	5,986.81	5,760.17	226.64	26.416		
18,500.00	7,870.00	7,833.00	7,833.00	156.93	135.73	-90.00	-1,434.93	4,247.89	6,086.80	5,860.14	226.66	26.855		
18,600.00	7,870.00	7,833.00	7,833.00	158.52	135.73	-90.00	-1,434.93	4,247.89	6,186.80	5,960.12	226.68	27.293		
18,700.00	7,870.00	7,833.00	7,833.00	160.11	135.73	-90.00	-1,434.93	4,247.89	6,286.80	6,060.10	226.70	27.732		
18,800.00	7,870.00	7,833.00	7,833.00	161.71	135.73	-90.00	-1,434.93	4,247.89	6,386.79	6,160.07	226.72	28.170		
18,900.00	7,870.00	7,833.00	7,833.00	163.31	135.73	-90.00	-1,434.93	4,247.89	6,486.79	6,260.04	226.75	28.608		
19,000.00	7,870.00	7,833.00	7,833.00	164.91	135.73	-90.00	-1,434.93	4,247.89	6,586.79	6,360.02	226.77	29.046		
19,100.00	7,870.00	7,833.00	7,833.00	166.52	135.73	-90.00	-1,434.93	4,247.89	6,686.79	6,459.99	226.79	29.484		
19,200.00	7,870.00	7,833.00	7,833.00	168.13	135.73	-90.00	-1,434.93	4,247.89	6,786.78	6,559.97	226.82	29.922		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,833.00	7,833.00	169.75	135.73	-90.00	-1,434.93	4,247.89	6,886.78	6,659.94	226.84	30.360	
19,383.51	7,870.00	7,833.00	7,833.00	171.10	135.73	-90.00	-1,434.93	4,247.89	6,970.29	6,743.43	226.86	30.725	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	124.01	-3,055.97	4,528.20	5,463.12					
100.00	100.00	54.00	54.00	0.13	0.41	124.01	-3,055.97	4,528.20	5,462.92	5,462.37	0.55	9,948.546		
200.00	200.00	154.00	154.00	0.49	1.71	124.01	-3,055.97	4,528.20	5,462.92	5,460.72	2.20	2,479.403		
300.00	300.00	254.00	254.00	0.85	3.46	124.01	-3,055.97	4,528.20	5,462.92	5,458.62	4.31	1,268.346		
400.00	400.00	354.00	354.00	1.21	5.20	124.01	-3,055.97	4,528.20	5,462.92	5,456.51	6.41	852.127		
500.00	500.00	454.00	454.00	1.57	6.95	124.01	-3,055.97	4,528.20	5,462.92	5,454.41	8.51	641.585		
600.00	600.00	554.00	554.00	1.93	8.69	124.01	-3,055.97	4,528.20	5,462.92	5,452.30	10.62	514.471		
700.00	699.98	653.98	653.98	2.28	10.44	60.23	-3,055.97	4,528.20	5,462.06	5,449.34	12.72	429.496		
800.00	799.84	753.84	753.84	2.64	12.18	60.32	-3,055.97	4,528.20	5,459.46	5,444.64	14.81	368.558		
900.00	899.45	853.45	853.45	3.00	13.92	60.47	-3,055.97	4,528.20	5,455.14	5,438.23	16.91	322.587		
1,000.00	998.70	952.70	952.70	3.37	15.65	60.69	-3,055.97	4,528.20	5,449.12	5,430.11	19.01	286.624		
1,100.00	1,097.47	1,051.47	1,051.47	3.76	17.37	60.97	-3,055.97	4,528.20	5,441.42	5,420.30	21.12	257.672		
1,200.00	1,195.62	1,149.62	1,149.62	4.18	19.09	61.30	-3,055.97	4,528.20	5,432.08	5,408.85	23.23	233.818		
1,300.00	1,293.06	1,247.06	1,247.06	4.63	20.79	61.70	-3,055.97	4,528.20	5,421.13	5,395.77	25.36	213.787		
1,400.00	1,389.64	1,343.64	1,343.64	5.11	22.47	62.16	-3,055.97	4,528.20	5,408.62	5,381.12	27.50	196.695		
1,500.00	1,485.27	1,439.27	1,439.27	5.63	24.14	62.68	-3,055.97	4,528.20	5,394.60	5,364.95	29.66	181.912		
1,600.00	1,579.82	1,533.82	1,533.82	6.20	25.79	63.25	-3,055.97	4,528.20	5,379.14	5,347.30	31.83	168.979		
1,700.00	1,673.17	1,627.17	1,627.17	6.83	27.42	63.88	-3,055.97	4,528.20	5,362.29	5,328.26	34.04	157.551		
1,800.00	1,765.21	1,719.21	1,719.21	7.51	29.03	64.57	-3,055.97	4,528.20	5,344.14	5,307.87	36.26	147.369		
1,900.00	1,855.84	1,809.84	1,809.84	8.24	30.61	65.30	-3,055.97	4,528.20	5,324.76	5,286.23	38.52	138.228		
2,000.00	1,944.94	1,901.06	1,898.94	9.05	32.20	66.09	-3,055.97	4,528.20	5,304.23	5,263.38	40.85	129.853		
2,100.00	2,032.39	1,986.39	1,986.39	9.91	33.69	66.93	-3,055.97	4,528.20	5,282.66	5,239.52	43.13	122.471		
2,200.00	2,118.11	2,072.11	2,072.11	10.85	35.19	67.81	-3,055.97	4,528.20	5,260.13	5,214.64	45.49	115.627		
2,300.00	2,201.97	2,155.97	2,155.97	11.85	36.65	68.73	-3,055.97	4,528.20	5,236.75	5,188.86	47.89	109.355		
2,400.00	2,283.88	2,237.88	2,237.88	12.93	38.08	69.69	-3,055.97	4,528.20	5,212.63	5,162.31	50.32	103.588		
2,429.47	2,307.63	2,261.63	2,261.63	13.26	38.50	69.98	-3,055.97	4,528.20	5,205.40	5,154.36	51.04	101.977		
2,500.00	2,364.26	2,318.26	2,318.26	14.06	39.48	70.34	-3,055.97	4,528.20	5,188.17	5,135.38	52.79	98.282		
2,600.00	2,444.56	2,401.44	2,398.56	15.22	40.94	70.86	-3,055.97	4,528.20	5,164.23	5,108.89	55.34	93.326		
2,700.00	2,524.85	2,478.85	2,478.85	16.39	42.29	71.38	-3,055.97	4,528.20	5,140.87	5,083.06	57.80	88.935		
2,800.00	2,605.14	2,559.14	2,559.14	17.57	43.69	71.90	-3,055.97	4,528.20	5,118.09	5,057.75	60.35	84.813		
2,900.00	2,685.43	2,639.43	2,639.43	18.76	45.09	72.42	-3,055.97	4,528.20	5,095.92	5,033.01	62.90	81.011		
3,000.00	2,765.73	2,719.73	2,719.73	19.96	46.49	72.95	-3,055.97	4,528.20	5,074.34	5,008.86	65.48	77.497		
3,100.00	2,846.02	2,800.02	2,800.02	21.16	47.89	73.48	-3,055.97	4,528.20	5,053.38	4,985.31	68.07	74.241		
3,200.00	2,926.31	2,880.31	2,880.31	22.37	49.29	74.01	-3,055.97	4,528.20	5,033.03	4,962.36	70.67	71.220		
3,300.00	3,006.60	2,960.60	2,960.60	23.59	50.69	74.55	-3,055.97	4,528.20	5,013.31	4,940.03	73.28	68.411		
3,400.00	3,086.90	3,040.90	3,040.90	24.81	52.10	75.09	-3,055.97	4,528.20	4,994.23	4,918.32	75.91	65.794		
3,500.00	3,167.19	3,121.19	3,121.19	26.03	53.50	75.63	-3,055.97	4,528.20	4,975.78	4,897.24	78.54	63.352		
3,600.00	3,247.48	3,201.48	3,201.48	27.25	54.90	76.17	-3,055.97	4,528.20	4,957.99	4,876.80	81.18	61.070		
3,700.00	3,327.77	3,281.77	3,281.77	28.48	56.30	76.72	-3,055.97	4,528.20	4,940.85	4,857.01	83.84	58.935		
3,800.00	3,408.07	3,362.07	3,362.07	29.71	57.70	77.27	-3,055.97	4,528.20	4,924.37	4,837.87	86.49	56.932		
3,900.00	3,488.36	3,442.36	3,442.36	30.94	59.10	77.82	-3,055.97	4,528.20	4,908.56	4,819.40	89.16	55.053		
4,000.00	3,568.65	3,522.65	3,522.65	32.17	60.50	78.37	-3,055.97	4,528.20	4,893.42	4,801.59	91.83	53.287		
4,100.00	3,648.95	3,602.95	3,602.95	33.41	61.91	78.93	-3,055.97	4,528.20	4,878.97	4,784.46	94.51	51.624		
4,200.00	3,729.24	3,683.24	3,683.24	34.64	63.31	79.49	-3,055.97	4,528.20	4,865.20	4,768.01	97.19	50.058		
4,300.00	3,809.53	3,763.53	3,763.53	35.88	64.71	80.05	-3,055.97	4,528.20	4,852.13	4,752.25	99.88	48.581		
4,400.00	3,889.82	3,843.82	3,843.82	37.12	66.11	80.61	-3,055.97	4,528.20	4,839.75	4,737.19	102.57	47.187		
4,500.00	3,970.12	3,924.12	3,924.12	38.36	67.51	81.17	-3,055.97	4,528.20	4,828.08	4,722.82	105.26	45.869		
4,600.00	4,050.41	4,004.41	4,004.41	39.60	68.91	81.74	-3,055.97	4,528.20	4,817.12	4,709.17	107.95	44.623		
4,700.00	4,130.70	4,084.70	4,084.70	40.84	70.31	82.31	-3,055.97	4,528.20	4,806.87	4,696.23	110.65	43.444		
4,800.00	4,210.99	4,164.99	4,164.99	42.08	71.72	82.88	-3,055.97	4,528.20	4,797.34	4,684.00	113.34	42.326		
4,900.00	4,291.29	4,245.29	4,245.29	43.32	73.12	83.45	-3,055.97	4,528.20	4,788.54	4,672.50	116.04	41.266		
5,000.00	4,371.58	4,325.58	4,325.58	44.57	74.52	84.02	-3,055.97	4,528.20	4,780.46	4,661.72	118.74	40.261		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,405.87	4,405.87	45.81	75.92	84.59	-3,055.97	4,528.20	4,773.11	4,651.68	121.43	39.307		
5,200.00	4,532.16	4,486.16	4,486.16	47.05	77.32	85.17	-3,055.97	4,528.20	4,766.50	4,642.37	124.13	38.401		
5,300.00	4,612.46	4,566.46	4,566.46	48.30	78.72	85.74	-3,055.97	4,528.20	4,760.62	4,633.81	126.82	37.539		
5,400.00	4,692.75	4,646.75	4,646.75	49.54	80.12	86.32	-3,055.97	4,528.20	4,755.49	4,625.98	129.51	36.720		
5,500.00	4,773.04	4,727.04	4,727.04	50.79	81.53	86.89	-3,055.97	4,528.20	4,751.09	4,618.90	132.19	35.941		
5,600.00	4,853.34	4,807.34	4,807.34	52.03	82.93	87.47	-3,055.97	4,528.20	4,747.45	4,612.57	134.87	35.199		
5,700.00	4,933.63	4,887.63	4,887.63	53.28	84.33	88.05	-3,055.97	4,528.20	4,744.54	4,606.99	137.55	34.493		
5,800.00	5,013.92	4,967.92	4,967.92	54.53	85.73	88.62	-3,055.97	4,528.20	4,742.39	4,602.16	140.22	33.821		
5,900.00	5,094.21	5,048.21	5,048.21	55.77	87.13	89.20	-3,055.97	4,528.20	4,740.98	4,598.09	142.89	33.180		
6,000.00	5,174.51	5,128.51	5,128.51	57.02	88.53	89.78	-3,055.97	4,528.20	4,740.32	4,594.77	145.55	32.569		
6,037.76	5,204.83	5,158.83	5,158.83	57.49	89.06	90.00	-3,055.97	4,528.20	4,740.27	4,593.72	146.55	32.346		
6,100.00	5,254.80	5,208.80	5,208.80	58.27	89.93	90.36	-3,055.97	4,528.20	4,740.41	4,592.21	148.20	31.986		
6,200.00	5,335.09	5,289.09	5,289.09	59.52	91.33	90.94	-3,055.97	4,528.20	4,741.26	4,590.41	150.85	31.431		
6,300.00	5,415.38	5,369.38	5,369.38	60.76	92.74	91.52	-3,055.97	4,528.20	4,742.85	4,589.36	153.49	30.901		
6,400.00	5,495.68	5,449.68	5,449.68	62.01	94.14	92.09	-3,055.97	4,528.20	4,745.18	4,589.07	156.11	30.396		
6,500.00	5,575.97	5,529.97	5,529.97	63.26	95.54	92.67	-3,055.97	4,528.20	4,748.27	4,589.53	158.74	29.913		
6,600.00	5,656.26	5,610.26	5,610.26	64.51	96.94	93.25	-3,055.97	4,528.20	4,752.10	4,590.75	161.35	29.453		
6,700.00	5,736.55	5,709.45	5,690.55	65.76	98.67	93.83	-3,055.97	4,528.20	4,756.68	4,592.40	164.28	28.955		
6,800.00	5,816.85	5,770.85	5,770.85	67.01	99.74	94.40	-3,055.97	4,528.20	4,761.99	4,595.45	166.54	28.594		
6,900.00	5,897.14	5,851.14	5,851.14	68.26	101.14	94.98	-3,055.97	4,528.20	4,768.05	4,598.93	169.12	28.193		
7,000.00	5,977.43	5,931.43	5,931.43	69.50	102.55	95.55	-3,055.97	4,528.20	4,774.84	4,603.15	171.69	27.811		
7,100.00	6,057.72	6,011.72	6,011.72	70.75	103.95	96.12	-3,055.97	4,528.20	4,782.37	4,608.12	174.25	27.446		
7,200.00	6,138.02	6,107.98	6,092.02	72.00	105.63	96.69	-3,055.97	4,528.20	4,790.63	4,613.55	177.07	27.055		
7,300.00	6,218.31	6,172.31	6,172.31	73.25	106.75	97.26	-3,055.97	4,528.20	4,799.61	4,620.28	179.33	26.764		
7,400.00	6,298.60	6,252.60	6,252.60	74.50	108.15	97.83	-3,055.97	4,528.20	4,809.31	4,627.46	181.85	26.447		
7,500.00	6,378.90	6,332.90	6,332.90	75.75	109.55	98.40	-3,055.97	4,528.20	4,819.74	4,635.38	184.36	26.143		
7,600.00	6,459.19	6,413.19	6,413.19	77.00	110.95	98.96	-3,055.97	4,528.20	4,830.87	4,644.02	186.85	25.854		
7,700.00	6,539.48	6,506.52	6,493.48	78.25	112.58	99.53	-3,055.97	4,528.20	4,842.71	4,653.15	189.56	25.546		
7,800.00	6,619.77	6,573.77	6,573.77	79.50	113.76	100.09	-3,055.97	4,528.20	4,855.26	4,663.45	191.81	25.313		
7,900.00	6,700.07	6,654.07	6,654.07	80.75	115.16	100.65	-3,055.97	4,528.20	4,868.50	4,674.24	194.26	25.062		
8,000.00	6,780.36	6,734.36	6,734.36	82.00	116.56	101.21	-3,055.97	4,528.20	4,882.44	4,685.74	196.70	24.821		
8,100.00	6,860.65	6,814.65	6,814.65	83.25	117.96	101.76	-3,055.97	4,528.20	4,897.06	4,697.93	199.13	24.592		
8,200.00	6,940.94	6,905.06	6,894.94	84.50	119.54	102.32	-3,055.97	4,528.20	4,912.36	4,710.64	201.72	24.352		
8,300.00	7,021.24	6,975.24	6,975.24	85.76	120.76	102.87	-3,055.97	4,528.20	4,928.34	4,724.39	203.94	24.165		
8,400.00	7,101.53	7,055.53	7,055.53	87.01	122.16	103.41	-3,055.97	4,528.20	4,944.98	4,738.65	206.33	23.967		
8,500.00	7,181.82	7,135.82	7,135.82	88.26	123.57	103.96	-3,055.97	4,528.20	4,962.28	4,753.58	208.70	23.777		
8,605.60	7,266.61	7,220.61	7,220.61	89.58	125.05	104.53	-3,055.97	4,528.20	4,981.26	4,770.08	211.19	23.587		
8,650.00	7,302.60	7,256.60	7,256.60	90.13	125.67	99.04	-3,055.97	4,528.20	4,987.77	4,775.54	212.23	23.501		
8,700.00	7,343.78	7,302.22	7,297.78	90.72	126.47	92.26	-3,055.97	4,528.20	4,991.19	4,777.69	213.50	23.378		
8,750.00	7,385.32	7,339.32	7,339.32	91.28	127.12	85.09	-3,055.97	4,528.20	4,990.44	4,775.82	214.61	23.253		
8,800.00	7,426.92	7,380.92	7,380.92	91.81	127.84	77.81	-3,055.97	4,528.20	4,985.50	4,769.72	215.78	23.104		
8,850.00	7,468.27	7,422.27	7,422.27	92.29	128.57	70.73	-3,055.97	4,528.20	4,976.42	4,759.49	216.94	22.940		
8,900.00	7,509.04	7,463.04	7,463.04	92.72	129.28	64.11	-3,055.97	4,528.20	4,963.25	4,745.20	218.05	22.762		
8,950.00	7,548.93	7,502.93	7,502.93	93.10	129.97	58.10	-3,055.97	4,528.20	4,946.08	4,726.96	219.12	22.572		
9,000.00	7,587.63	7,541.63	7,541.63	93.43	130.65	52.78	-3,055.97	4,528.20	4,925.02	4,704.87	220.15	22.372		
9,050.00	7,624.85	7,578.85	7,578.85	93.71	131.30	48.12	-3,055.97	4,528.20	4,900.20	4,679.09	221.11	22.162		
9,100.00	7,660.30	7,614.30	7,614.30	93.93	131.92	44.08	-3,055.97	4,528.20	4,871.81	4,649.81	222.01	21.944		
9,150.00	7,693.72	7,647.72	7,647.72	94.10	132.50	40.56	-3,055.97	4,528.20	4,840.04	4,617.21	222.84	21.720		
9,200.00	7,724.85	7,678.85	7,678.85	94.23	133.04	37.47	-3,055.97	4,528.20	4,805.12	4,581.52	223.59	21.490		
9,250.00	7,753.45	7,707.45	7,707.45	94.30	133.54	34.72	-3,055.97	4,528.20	4,767.28	4,543.01	224.27	21.257		
9,300.00	7,779.31	7,733.31	7,733.31	94.34	133.99	32.18	-3,055.97	4,528.20	4,726.80	4,501.93	224.87	21.020		
9,350.00	7,802.23	7,756.23	7,756.23	94.33	134.39	29.71	-3,055.97	4,528.20	4,683.97	4,458.58	225.39	20.781		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,776.03	7,776.03	94.28	134.74	27.10	-3,055.97	4,528.20	4,639.09	4,413.27	225.83	20.543		
9,450.00	7,838.57	7,807.43	7,792.57	94.20	135.29	23.97	-3,055.97	4,528.20	4,592.51	4,366.07	226.44	20.282		
9,500.00	7,851.72	7,805.72	7,805.72	94.10	135.26	19.48	-3,055.97	4,528.20	4,544.55	4,318.11	226.45	20.069		
9,550.00	7,861.37	7,815.37	7,815.37	93.96	135.43	11.11	-3,055.97	4,528.20	4,495.59	4,268.95	226.63	19.837		
9,600.00	7,867.46	7,821.46	7,821.46	93.81	135.53	-11.89	-3,055.97	4,528.20	4,445.98	4,219.24	226.74	19.609		
9,650.00	7,869.94	7,823.94	7,823.94	93.64	135.58	-78.81	-3,055.97	4,528.20	4,396.10	4,169.34	226.76	19.386		
9,659.14	7,870.00	7,824.00	7,824.00	93.60	135.58	-90.00	-3,055.97	4,528.20	4,386.98	4,160.23	226.76	19.347		
9,700.00	7,870.00	7,824.00	7,824.00	93.46	135.58	-90.00	-3,055.97	4,528.20	4,346.24	4,119.51	226.73	19.169		
9,800.00	7,870.00	7,824.00	7,824.00	93.11	135.58	-90.00	-3,055.97	4,528.20	4,246.54	4,019.87	226.68	18.734		
9,900.00	7,870.00	7,824.00	7,824.00	92.77	135.58	-90.00	-3,055.97	4,528.20	4,146.86	3,920.24	226.61	18.299		
10,000.00	7,870.00	7,824.00	7,824.00	92.46	135.58	-90.00	-3,055.97	4,528.20	4,047.19	3,820.64	226.55	17.864		
10,100.00	7,870.00	7,824.00	7,824.00	92.16	135.58	-90.00	-3,055.97	4,528.20	3,947.54	3,721.05	226.48	17.430		
10,200.00	7,870.00	7,824.00	7,824.00	91.87	135.58	-90.00	-3,055.97	4,528.20	3,847.90	3,621.49	226.41	16.995		
10,300.00	7,870.00	7,824.00	7,824.00	91.60	135.58	-90.00	-3,055.97	4,528.20	3,748.29	3,521.95	226.34	16.560		
10,400.00	7,870.00	7,824.00	7,824.00	91.34	135.58	-90.00	-3,055.97	4,528.20	3,648.69	3,422.43	226.26	16.126		
10,500.00	7,870.00	7,824.00	7,824.00	91.11	135.58	-90.00	-3,055.97	4,528.20	3,549.12	3,322.94	226.18	15.692		
10,600.00	7,870.00	7,824.00	7,824.00	90.88	135.58	-90.00	-3,055.97	4,528.20	3,449.58	3,223.48	226.09	15.257		
10,700.00	7,870.00	7,824.00	7,824.00	90.67	135.58	-90.00	-3,055.97	4,528.20	3,350.06	3,124.05	226.00	14.823		
10,800.00	7,870.00	7,824.00	7,824.00	90.48	135.58	-90.00	-3,055.97	4,528.20	3,250.57	3,024.66	225.91	14.389		
10,900.00	7,870.00	7,824.00	7,824.00	90.31	135.58	-90.00	-3,055.97	4,528.20	3,151.11	2,925.31	225.80	13.955		
11,000.00	7,870.00	7,824.00	7,824.00	90.15	135.58	-90.00	-3,055.97	4,528.20	3,051.69	2,826.00	225.69	13.521		
11,100.00	7,870.00	7,824.00	7,824.00	90.00	135.58	-90.00	-3,055.97	4,528.20	2,952.31	2,726.73	225.58	13.088		
11,200.00	7,870.00	7,824.00	7,824.00	89.88	135.58	-90.00	-3,055.97	4,528.20	2,852.97	2,627.52	225.45	12.654		
11,300.00	7,870.00	7,824.00	7,824.00	89.77	135.58	-90.00	-3,055.97	4,528.20	2,753.68	2,528.36	225.32	12.221		
11,400.00	7,870.00	7,824.00	7,824.00	89.68	135.58	-90.00	-3,055.97	4,528.20	2,654.44	2,429.27	225.17	11.788		
11,500.00	7,870.00	7,824.00	7,824.00	89.60	135.58	-90.00	-3,055.97	4,528.20	2,555.26	2,330.24	225.02	11.356		
11,600.00	7,870.00	7,824.00	7,824.00	89.55	135.58	-90.00	-3,055.97	4,528.20	2,456.15	2,231.30	224.85	10.924		
11,700.00	7,870.00	7,824.00	7,824.00	89.52	135.58	-90.00	-3,055.97	4,528.20	2,357.11	2,132.45	224.66	10.492		
11,800.00	7,870.00	7,824.00	7,824.00	89.50	135.58	-90.00	-3,055.97	4,528.20	2,258.16	2,033.70	224.46	10.060		
11,900.00	7,870.00	7,824.00	7,824.00	89.51	135.58	-90.00	-3,055.97	4,528.20	2,159.30	1,935.06	224.24	9.630		
12,000.00	7,870.00	7,824.00	7,824.00	89.54	135.58	-90.00	-3,055.97	4,528.20	2,060.56	1,836.56	223.99	9.199		
12,100.00	7,870.00	7,824.00	7,824.00	89.59	135.58	-90.00	-3,055.97	4,528.20	1,961.94	1,738.22	223.72	8.770		
12,200.00	7,870.00	7,824.00	7,824.00	89.66	135.58	-90.00	-3,055.97	4,528.20	1,863.47	1,640.05	223.42	8.341		
12,300.00	7,870.00	7,824.00	7,824.00	89.77	135.58	-90.00	-3,055.97	4,528.20	1,765.17	1,542.08	223.08	7.913		
12,400.00	7,870.00	7,824.00	7,824.00	89.89	135.58	-90.00	-3,055.97	4,528.20	1,667.07	1,444.37	222.70	7.486		
12,500.00	7,870.00	7,824.00	7,824.00	90.05	135.58	-90.00	-3,055.97	4,528.20	1,569.21	1,346.94	222.27	7.060		
12,600.00	7,870.00	7,824.00	7,824.00	90.24	135.58	-90.00	-3,055.97	4,528.20	1,471.64	1,249.86	221.78	6.636		
12,700.00	7,870.00	7,824.00	7,824.00	90.46	135.58	-90.00	-3,055.97	4,528.20	1,374.43	1,153.21	221.22	6.213		
12,800.00	7,870.00	7,824.00	7,824.00	90.71	135.58	-90.00	-3,055.97	4,528.20	1,277.64	1,057.08	220.56	5.793		
12,900.00	7,870.00	7,824.00	7,824.00	90.99	135.58	-90.00	-3,055.97	4,528.20	1,181.38	961.59	219.79	5.375		
13,000.00	7,870.00	7,824.00	7,824.00	91.32	135.58	-90.00	-3,055.97	4,528.20	1,085.80	866.93	218.88	4.961		
13,100.00	7,870.00	7,824.00	7,824.00	91.68	135.58	-90.00	-3,055.97	4,528.20	991.10	773.32	217.78	4.551		
13,200.00	7,870.00	7,824.00	7,824.00	92.08	135.58	-90.00	-3,055.97	4,528.20	897.54	681.10	216.45	4.147		
13,300.00	7,870.00	7,824.00	7,824.00	92.52	135.58	-90.00	-3,055.97	4,528.20	805.54	590.72	214.82	3.750		
13,400.00	7,870.00	7,824.00	7,824.00	93.00	135.58	-90.00	-3,055.97	4,528.20	715.68	502.89	212.80	3.363		
13,500.00	7,870.00	7,824.00	7,824.00	93.53	135.58	-90.00	-3,055.97	4,528.20	628.90	418.59	210.30	2.990		
13,600.00	7,870.00	7,824.00	7,824.00	94.10	135.58	-90.00	-3,055.97	4,528.20	546.64	339.34	207.30	2.637		
13,700.00	7,870.00	7,824.00	7,824.00	94.72	135.58	-90.00	-3,055.97	4,528.20	471.30	267.28	204.02	2.310		
13,800.00	7,870.00	7,824.00	7,824.00	95.38	135.58	-90.00	-3,055.97	4,528.20	406.74	205.25	201.49	2.019		
13,900.00	7,870.00	7,824.00	7,824.00	96.09	135.58	-90.00	-3,055.97	4,528.20	358.81	156.61	202.20	1.775		
14,000.00	7,870.00	7,824.00	7,824.00	96.84	135.58	-90.00	-3,055.97	4,528.20	334.74	126.05	208.69	1.604		
14,033.46	7,870.00	7,824.00	7,824.00	97.11	135.58	-90.00	-3,055.97	4,528.20	333.06	121.10	211.96	1.571	CC	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,824.00	7,824.00	97.64	135.58	-90.00	-3,055.97	4,528.20	339.64	120.72	218.92	1.551	ES, SF	
14,200.00	7,870.00	7,824.00	7,824.00	98.48	135.58	-90.00	-3,055.97	4,528.20	372.38	144.60	227.78	1.635		
14,300.00	7,870.00	7,824.00	7,824.00	99.37	135.58	-90.00	-3,055.97	4,528.20	426.58	193.47	233.11	1.830		
14,400.00	7,870.00	7,824.00	7,824.00	100.30	135.58	-90.00	-3,055.97	4,528.20	495.26	259.56	235.70	2.101		
14,500.00	7,870.00	7,824.00	7,824.00	101.26	135.58	-90.00	-3,055.97	4,528.20	573.23	336.50	236.73	2.421		
14,600.00	7,870.00	7,824.00	7,824.00	102.27	135.58	-90.00	-3,055.97	4,528.20	657.19	420.21	236.97	2.773		
14,700.00	7,870.00	7,824.00	7,824.00	103.31	135.58	-90.00	-3,055.97	4,528.20	745.12	508.27	236.85	3.146		
14,800.00	7,870.00	7,824.00	7,824.00	104.38	135.58	-90.00	-3,055.97	4,528.20	835.77	599.20	236.57	3.533		
14,900.00	7,870.00	7,824.00	7,824.00	105.49	135.58	-90.00	-3,055.97	4,528.20	928.34	692.12	236.23	3.930		
15,000.00	7,870.00	7,824.00	7,824.00	106.63	135.58	-90.00	-3,055.97	4,528.20	1,022.32	786.45	235.87	4.334		
15,100.00	7,870.00	7,824.00	7,824.00	107.80	135.58	-90.00	-3,055.97	4,528.20	1,117.34	881.82	235.52	4.744		
15,200.00	7,870.00	7,824.00	7,824.00	109.00	135.58	-90.00	-3,055.97	4,528.20	1,213.16	977.96	235.19	5.158		
15,300.00	7,870.00	7,824.00	7,824.00	110.22	135.58	-90.00	-3,055.97	4,528.20	1,309.60	1,074.71	234.89	5.575		
15,400.00	7,870.00	7,824.00	7,824.00	111.47	135.58	-90.00	-3,055.97	4,528.20	1,406.54	1,171.93	234.61	5.995		
15,500.00	7,870.00	7,824.00	7,824.00	112.74	135.58	-90.00	-3,055.97	4,528.20	1,503.88	1,269.53	234.36	6.417		
15,600.00	7,870.00	7,824.00	7,824.00	114.03	135.58	-90.00	-3,055.97	4,528.20	1,601.55	1,367.43	234.12	6.841		
15,700.00	7,870.00	7,824.00	7,824.00	115.34	135.58	-90.00	-3,055.97	4,528.20	1,699.50	1,465.59	233.91	7.266		
15,800.00	7,870.00	7,824.00	7,824.00	116.68	135.58	-90.00	-3,055.97	4,528.20	1,797.66	1,563.95	233.72	7.692		
15,900.00	7,870.00	7,824.00	7,824.00	118.02	135.58	-90.00	-3,055.97	4,528.20	1,896.02	1,662.48	233.54	8.119		
16,000.00	7,870.00	7,824.00	7,824.00	119.39	135.58	-90.00	-3,055.97	4,528.20	1,994.55	1,761.17	233.38	8.546		
16,100.00	7,870.00	7,824.00	7,824.00	120.77	135.58	-90.00	-3,055.97	4,528.20	2,093.21	1,859.98	233.23	8.975		
16,200.00	7,870.00	7,824.00	7,824.00	122.17	135.58	-90.00	-3,055.97	4,528.20	2,191.99	1,958.90	233.09	9.404		
16,300.00	7,870.00	7,824.00	7,824.00	123.58	135.58	-90.00	-3,055.97	4,528.20	2,290.88	2,057.91	232.97	9.834		
16,400.00	7,870.00	7,824.00	7,824.00	125.00	135.58	-90.00	-3,055.97	4,528.20	2,389.86	2,157.01	232.85	10.263		
16,500.00	7,870.00	7,824.00	7,824.00	126.43	135.58	-90.00	-3,055.97	4,528.20	2,488.93	2,256.18	232.74	10.694		
16,600.00	7,870.00	7,824.00	7,824.00	127.88	135.58	-90.00	-3,055.97	4,528.20	2,588.06	2,355.41	232.65	11.124		
16,700.00	7,870.00	7,824.00	7,824.00	129.34	135.58	-90.00	-3,055.97	4,528.20	2,687.26	2,454.70	232.56	11.555		
16,800.00	7,870.00	7,824.00	7,824.00	130.81	135.58	-90.00	-3,055.97	4,528.20	2,786.52	2,554.04	232.47	11.986		
16,900.00	7,870.00	7,824.00	7,824.00	132.28	135.58	-90.00	-3,055.97	4,528.20	2,885.82	2,653.43	232.40	12.418		
17,000.00	7,870.00	7,824.00	7,824.00	133.77	135.58	-90.00	-3,055.97	4,528.20	2,985.18	2,752.85	232.32	12.849		
17,100.00	7,870.00	7,824.00	7,824.00	135.27	135.58	-90.00	-3,055.97	4,528.20	3,084.57	2,852.32	232.26	13.281		
17,200.00	7,870.00	7,824.00	7,824.00	136.77	135.58	-90.00	-3,055.97	4,528.20	3,184.01	2,951.81	232.20	13.713		
17,300.00	7,870.00	7,824.00	7,824.00	138.28	135.58	-90.00	-3,055.97	4,528.20	3,283.48	3,051.34	232.14	14.144		
17,400.00	7,870.00	7,824.00	7,824.00	139.80	135.58	-90.00	-3,055.97	4,528.20	3,382.98	3,150.89	232.09	14.576		
17,500.00	7,870.00	7,824.00	7,824.00	141.33	135.58	-90.00	-3,055.97	4,528.20	3,482.50	3,250.46	232.04	15.008		
17,600.00	7,870.00	7,824.00	7,824.00	142.86	135.58	-90.00	-3,055.97	4,528.20	3,582.06	3,350.06	232.00	15.440		
17,700.00	7,870.00	7,824.00	7,824.00	144.40	135.58	-90.00	-3,055.97	4,528.20	3,681.64	3,449.68	231.95	15.872		
17,800.00	7,870.00	7,824.00	7,824.00	145.95	135.58	-90.00	-3,055.97	4,528.20	3,781.24	3,549.32	231.92	16.304		
17,900.00	7,870.00	7,824.00	7,824.00	147.50	135.58	-90.00	-3,055.97	4,528.20	3,880.86	3,648.98	231.88	16.736		
18,000.00	7,870.00	7,824.00	7,824.00	149.06	135.58	-90.00	-3,055.97	4,528.20	3,980.50	3,748.65	231.85	17.169		
18,100.00	7,870.00	7,824.00	7,824.00	150.63	135.58	-90.00	-3,055.97	4,528.20	4,080.16	3,848.34	231.82	17.601		
18,200.00	7,870.00	7,824.00	7,824.00	152.20	135.58	-90.00	-3,055.97	4,528.20	4,179.83	3,948.04	231.79	18.033		
18,300.00	7,870.00	7,824.00	7,824.00	153.77	135.58	-90.00	-3,055.97	4,528.20	4,279.52	4,047.75	231.77	18.465		
18,400.00	7,870.00	7,824.00	7,824.00	155.35	135.58	-90.00	-3,055.97	4,528.20	4,379.22	4,147.48	231.74	18.897		
18,500.00	7,870.00	7,824.00	7,824.00	156.93	135.58	-90.00	-3,055.97	4,528.20	4,478.94	4,247.22	231.72	19.329		
18,600.00	7,870.00	7,824.00	7,824.00	158.52	135.58	-90.00	-3,055.97	4,528.20	4,578.67	4,346.96	231.71	19.761		
18,700.00	7,870.00	7,824.00	7,824.00	160.11	135.58	-90.00	-3,055.97	4,528.20	4,678.41	4,446.72	231.69	20.193		
18,800.00	7,870.00	7,824.00	7,824.00	161.71	135.58	-90.00	-3,055.97	4,528.20	4,778.16	4,546.49	231.67	20.625		
18,900.00	7,870.00	7,824.00	7,824.00	163.31	135.58	-90.00	-3,055.97	4,528.20	4,877.92	4,646.26	231.66	21.056		
19,000.00	7,870.00	7,824.00	7,824.00	164.91	135.58	-90.00	-3,055.97	4,528.20	4,977.70	4,746.05	231.65	21.488		
19,100.00	7,870.00	7,824.00	7,824.00	166.52	135.58	-90.00	-3,055.97	4,528.20	5,077.48	4,845.84	231.64	21.920		
19,200.00	7,870.00	7,824.00	7,824.00	168.13	135.58	-90.00	-3,055.97	4,528.20	5,177.26	4,945.63	231.63	22.351		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,824.00	7,824.00	169.75	135.58	-90.00	-3,055.97	4,528.20	5,277.06	5,045.44	231.62	22.783	
19,383.51	7,870.00	7,824.00	7,824.00	171.10	135.58	-90.00	-3,055.97	4,528.20	5,360.40	5,128.79	231.62	23.143	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	105.08	-1,580.32	5,863.63	6,073.09					
100.00	100.00	46.00	46.00	0.13	0.35	105.08	-1,580.32	5,863.63	6,072.85	6,072.37	0.49	N/A		
200.00	200.00	146.00	146.00	0.49	1.57	105.08	-1,580.32	5,863.63	6,072.85	6,070.79	2.06	2,942.708		
300.00	300.00	246.00	246.00	0.85	3.32	105.08	-1,580.32	5,863.63	6,072.85	6,068.69	4.17	1,457.194		
400.00	400.00	346.00	346.00	1.21	5.06	105.08	-1,580.32	5,863.63	6,072.85	6,066.58	6.27	968.357		
500.00	500.00	446.00	446.00	1.57	6.81	105.08	-1,580.32	5,863.63	6,072.85	6,064.48	8.38	725.108		
600.00	600.00	546.00	546.00	1.93	8.55	105.08	-1,580.32	5,863.63	6,072.85	6,062.37	10.48	579.532		
700.00	699.98	645.98	645.98	2.28	10.30	41.29	-1,580.32	5,863.63	6,071.54	6,058.96	12.58	482.722		
800.00	799.84	745.84	745.84	2.64	12.04	41.38	-1,580.32	5,863.63	6,067.61	6,052.94	14.67	413.512		
900.00	899.45	845.45	845.45	3.00	13.78	41.52	-1,580.32	5,863.63	6,061.07	6,044.30	16.77	361.440		
1,000.00	998.70	944.70	944.70	3.37	15.51	41.72	-1,580.32	5,863.63	6,051.92	6,033.06	18.86	320.803		
1,100.00	1,097.47	1,043.47	1,043.47	3.76	17.23	41.97	-1,580.32	5,863.63	6,040.21	6,019.25	20.96	288.166		
1,200.00	1,195.62	1,141.62	1,141.62	4.18	18.95	42.29	-1,580.32	5,863.63	6,025.94	6,002.88	23.06	261.340		
1,300.00	1,293.06	1,239.06	1,239.06	4.63	20.65	42.66	-1,580.32	5,863.63	6,009.15	5,983.99	25.16	238.866		
1,400.00	1,389.64	1,335.64	1,335.64	5.11	22.33	43.09	-1,580.32	5,863.63	5,989.88	5,962.62	27.26	219.735		
1,500.00	1,485.27	1,431.27	1,431.27	5.63	24.00	43.58	-1,580.32	5,863.63	5,968.17	5,938.81	29.37	203.225		
1,600.00	1,579.82	1,525.82	1,525.82	6.20	25.65	44.14	-1,580.32	5,863.63	5,944.08	5,912.60	31.48	188.810		
1,700.00	1,673.17	1,619.17	1,619.17	6.83	27.28	44.76	-1,580.32	5,863.63	5,917.65	5,884.04	33.60	176.096		
1,800.00	1,765.21	1,711.21	1,711.21	7.51	28.89	45.44	-1,580.32	5,863.63	5,888.95	5,853.21	35.74	164.782		
1,900.00	1,855.84	1,801.84	1,801.84	8.24	30.47	46.19	-1,580.32	5,863.63	5,858.04	5,820.15	37.88	154.636		
2,000.00	1,944.94	1,890.94	1,890.94	9.05	32.34	47.00	-1,580.32	5,863.63	5,824.99	5,784.63	40.36	144.332		
2,100.00	2,032.39	1,978.39	1,978.39	9.91	33.55	47.88	-1,580.32	5,863.63	5,789.89	5,747.67	42.22	137.148		
2,200.00	2,118.11	2,064.11	2,064.11	10.85	35.05	48.83	-1,580.32	5,863.63	5,752.81	5,708.40	44.41	129.544		
2,300.00	2,201.97	2,147.97	2,147.97	11.85	36.51	49.85	-1,580.32	5,863.63	5,713.84	5,667.22	46.62	122.564		
2,400.00	2,283.88	2,229.88	2,229.88	12.93	37.94	50.94	-1,580.32	5,863.63	5,673.07	5,624.22	48.85	116.130		
2,429.47	2,307.63	2,253.63	2,253.63	13.26	38.36	51.27	-1,580.32	5,863.63	5,660.73	5,611.22	49.51	114.326		
2,500.00	2,364.26	2,310.26	2,310.26	14.06	39.34	51.57	-1,580.32	5,863.63	5,631.10	5,580.00	51.10	110.187		
2,600.00	2,444.56	2,409.44	2,390.56	15.22	41.08	51.99	-1,580.32	5,863.63	5,589.36	5,535.65	53.71	104.057		
2,700.00	2,524.85	2,470.85	2,470.85	16.39	42.15	52.42	-1,580.32	5,863.63	5,547.95	5,492.26	55.69	99.621		
2,800.00	2,605.14	2,551.14	2,551.14	17.57	43.55	52.85	-1,580.32	5,863.63	5,506.87	5,448.85	58.02	94.914		
2,900.00	2,685.43	2,631.43	2,631.43	18.76	44.95	53.29	-1,580.32	5,863.63	5,466.13	5,405.76	60.37	90.544		
3,000.00	2,765.73	2,711.73	2,711.73	19.96	46.35	53.73	-1,580.32	5,863.63	5,425.74	5,363.00	62.74	86.479		
3,100.00	2,846.02	2,807.98	2,792.02	21.16	48.03	54.18	-1,580.32	5,863.63	5,385.71	5,320.30	65.41	82.339		
3,200.00	2,926.31	2,872.31	2,872.31	22.37	49.15	54.63	-1,580.32	5,863.63	5,346.05	5,278.51	67.54	79.156		
3,300.00	3,006.60	2,952.60	2,952.60	23.59	50.56	55.09	-1,580.32	5,863.63	5,306.75	5,236.79	69.96	75.850		
3,400.00	3,086.90	3,032.90	3,032.90	24.81	51.96	55.55	-1,580.32	5,863.63	5,267.84	5,195.43	72.41	72.754		
3,500.00	3,167.19	3,113.19	3,113.19	26.03	53.36	56.02	-1,580.32	5,863.63	5,229.32	5,154.45	74.86	69.851		
3,600.00	3,247.48	3,206.52	3,193.48	27.25	54.99	56.49	-1,580.32	5,863.63	5,191.19	5,113.63	77.57	66.926		
3,700.00	3,327.77	3,273.77	3,273.77	28.48	56.16	56.97	-1,580.32	5,863.63	5,153.48	5,073.65	79.83	64.557		
3,800.00	3,408.07	3,354.07	3,354.07	29.71	57.56	57.46	-1,580.32	5,863.63	5,116.18	5,033.84	82.33	62.139		
3,900.00	3,488.36	3,434.36	3,434.36	30.94	58.96	57.94	-1,580.32	5,863.63	5,079.30	4,994.45	84.85	59.859		
4,000.00	3,568.65	3,514.65	3,514.65	32.17	60.36	58.44	-1,580.32	5,863.63	5,042.86	4,955.47	87.39	57.706		
4,100.00	3,648.95	3,605.05	3,594.95	33.41	61.94	58.94	-1,580.32	5,863.63	5,006.87	4,916.75	90.12	55.560		
4,200.00	3,729.24	3,675.24	3,675.24	34.64	63.17	59.44	-1,580.32	5,863.63	4,971.33	4,878.82	92.50	53.742		
4,300.00	3,809.53	3,755.53	3,755.53	35.88	64.57	59.95	-1,580.32	5,863.63	4,936.25	4,841.17	95.08	51.916		
4,400.00	3,889.82	3,835.82	3,835.82	37.12	65.97	60.47	-1,580.32	5,863.63	4,901.65	4,803.97	97.67	50.184		
4,500.00	3,970.12	3,916.12	3,916.12	38.36	67.37	60.99	-1,580.32	5,863.63	4,867.53	4,767.25	100.28	48.539		
4,600.00	4,050.41	4,003.59	3,996.41	39.60	68.90	61.52	-1,580.32	5,863.63	4,833.90	4,730.88	103.03	46.919		
4,700.00	4,130.70	4,076.70	4,076.70	40.84	70.17	62.05	-1,580.32	5,863.63	4,800.78	4,695.25	105.53	45.490		
4,800.00	4,210.99	4,156.99	4,156.99	42.08	71.58	62.59	-1,580.32	5,863.63	4,768.18	4,660.00	108.18	44.076		
4,900.00	4,291.29	4,237.29	4,237.29	43.32	72.98	63.13	-1,580.32	5,863.63	4,736.10	4,625.26	110.84	42.729		
5,000.00	4,371.58	4,317.58	4,317.58	44.57	74.38	63.67	-1,580.32	5,863.63	4,704.55	4,591.04	113.51	41.445		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,402.13	4,397.87	45.81	75.85	64.23	-1,580.32	5,863.63	4,673.56	4,557.29	116.27	40.195		
5,200.00	4,532.16	4,478.16	4,478.16	47.05	77.18	64.79	-1,580.32	5,863.63	4,643.12	4,524.23	118.89	39.053		
5,300.00	4,612.46	4,558.46	4,558.46	48.30	78.58	65.35	-1,580.32	5,863.63	4,613.25	4,491.65	121.60	37.937		
5,400.00	4,692.75	4,638.75	4,638.75	49.54	79.98	65.92	-1,580.32	5,863.63	4,583.97	4,459.64	124.32	36.871		
5,500.00	4,773.04	4,719.04	4,719.04	50.79	81.39	66.49	-1,580.32	5,863.63	4,555.27	4,428.22	127.05	35.853		
5,600.00	4,853.34	4,800.67	4,799.34	52.03	82.81	67.07	-1,580.32	5,863.63	4,527.18	4,397.36	129.82	34.873		
5,700.00	4,933.63	4,879.63	4,879.63	53.28	84.19	67.65	-1,580.32	5,863.63	4,499.70	4,367.15	132.55	33.947		
5,800.00	5,013.92	4,959.92	4,959.92	54.53	85.59	68.24	-1,580.32	5,863.63	4,472.85	4,337.54	135.31	33.056		
5,900.00	5,094.21	5,040.21	5,040.21	55.77	86.99	68.83	-1,580.32	5,863.63	4,446.63	4,308.55	138.08	32.202		
6,000.00	5,174.51	5,120.51	5,120.51	57.02	88.39	69.43	-1,580.32	5,863.63	4,421.07	4,280.20	140.87	31.385		
6,100.00	5,254.80	5,200.80	5,200.80	58.27	89.79	70.03	-1,580.32	5,863.63	4,396.16	4,252.50	143.66	30.602		
6,200.00	5,335.09	5,281.09	5,281.09	59.52	91.20	70.64	-1,580.32	5,863.63	4,371.92	4,225.47	146.45	29.852		
6,300.00	5,415.38	5,361.38	5,361.38	60.76	92.60	71.25	-1,580.32	5,863.63	4,348.37	4,199.11	149.26	29.133		
6,400.00	5,495.68	5,441.68	5,441.68	62.01	94.00	71.87	-1,580.32	5,863.63	4,325.51	4,173.44	152.07	28.444		
6,500.00	5,575.97	5,521.97	5,521.97	63.26	95.40	72.49	-1,580.32	5,863.63	4,303.35	4,148.46	154.89	27.784		
6,600.00	5,656.26	5,602.26	5,602.26	64.51	96.80	73.11	-1,580.32	5,863.63	4,281.91	4,124.19	157.71	27.150		
6,700.00	5,736.55	5,682.55	5,682.55	65.76	98.20	73.74	-1,580.32	5,863.63	4,261.19	4,100.65	160.54	26.543		
6,800.00	5,816.85	5,762.85	5,762.85	67.01	99.60	74.37	-1,580.32	5,863.63	4,241.21	4,077.84	163.37	25.961		
6,900.00	5,897.14	5,843.14	5,843.14	68.26	101.00	75.01	-1,580.32	5,863.63	4,221.98	4,055.77	166.21	25.402		
7,000.00	5,977.43	5,923.43	5,923.43	69.50	102.41	75.65	-1,580.32	5,863.63	4,203.50	4,034.46	169.04	24.866		
7,100.00	6,057.72	6,003.72	6,003.72	70.75	103.81	76.30	-1,580.32	5,863.63	4,185.80	4,013.91	171.88	24.353		
7,200.00	6,138.02	6,084.02	6,084.02	72.00	105.21	76.94	-1,580.32	5,863.63	4,168.86	3,994.14	174.72	23.860		
7,300.00	6,218.31	6,164.31	6,164.31	73.25	106.61	77.60	-1,580.32	5,863.63	4,152.72	3,975.16	177.56	23.387		
7,400.00	6,298.60	6,244.60	6,244.60	74.50	108.01	78.25	-1,580.32	5,863.63	4,137.37	3,956.97	180.40	22.934		
7,500.00	6,378.90	6,324.90	6,324.90	75.75	109.41	78.91	-1,580.32	5,863.63	4,122.83	3,939.59	183.24	22.500		
7,600.00	6,459.19	6,405.19	6,405.19	77.00	110.81	79.57	-1,580.32	5,863.63	4,109.10	3,923.03	186.07	22.084		
7,700.00	6,539.48	6,485.48	6,485.48	78.25	112.22	80.23	-1,580.32	5,863.63	4,096.19	3,907.29	188.90	21.684		
7,800.00	6,619.77	6,565.77	6,565.77	79.50	113.62	80.90	-1,580.32	5,863.63	4,084.11	3,892.39	191.73	21.302		
7,900.00	6,700.07	6,646.07	6,646.07	80.75	115.02	81.57	-1,580.32	5,863.63	4,072.87	3,878.32	194.55	20.935		
8,000.00	6,780.36	6,726.36	6,726.36	82.00	116.42	82.24	-1,580.32	5,863.63	4,062.47	3,865.11	197.36	20.584		
8,100.00	6,860.65	6,806.65	6,806.65	83.25	117.82	82.91	-1,580.32	5,863.63	4,052.92	3,852.76	200.16	20.248		
8,200.00	6,940.94	6,886.94	6,886.94	84.50	119.22	83.59	-1,580.32	5,863.63	4,044.23	3,841.27	202.96	19.926		
8,300.00	7,021.24	6,967.24	6,967.24	85.76	120.62	84.26	-1,580.32	5,863.63	4,036.40	3,830.65	205.75	19.618		
8,400.00	7,101.53	7,047.53	7,047.53	87.01	122.03	84.94	-1,580.32	5,863.63	4,029.43	3,820.91	208.52	19.324		
8,500.00	7,181.82	7,127.82	7,127.82	88.26	123.43	85.62	-1,580.32	5,863.63	4,023.34	3,812.05	211.29	19.042		
8,605.60	7,266.61	7,212.61	7,212.61	89.58	124.91	86.34	-1,580.32	5,863.63	4,017.86	3,803.66	214.20	18.758		
8,650.00	7,302.60	7,248.60	7,248.60	90.13	125.53	86.67	-1,580.32	5,863.63	4,014.29	3,798.88	215.41	18.636		
8,700.00	7,343.78	7,289.78	7,289.78	90.72	126.25	87.39	-1,580.32	5,863.63	4,006.76	3,790.00	216.75	18.485		
8,750.00	7,385.32	7,331.32	7,331.32	91.28	126.98	88.19	-1,580.32	5,863.63	3,995.52	3,777.46	218.06	18.323		
8,800.00	7,426.92	7,372.92	7,372.92	91.81	127.70	88.99	-1,580.32	5,863.63	3,980.64	3,761.31	219.33	18.149		
8,850.00	7,468.27	7,414.27	7,414.27	92.29	128.43	89.79	-1,580.32	5,863.63	3,962.18	3,741.64	220.54	17.966		
8,900.00	7,509.04	7,455.04	7,455.04	92.72	129.14	90.59	-1,580.32	5,863.63	3,940.24	3,718.56	221.68	17.774		
8,950.00	7,548.93	7,505.07	7,494.93	93.10	130.01	91.39	-1,580.32	5,863.63	3,914.97	3,692.04	222.93	17.562		
9,000.00	7,587.63	7,533.63	7,533.63	93.43	130.51	92.19	-1,580.32	5,863.63	3,886.51	3,662.77	223.74	17.371		
9,050.00	7,624.85	7,570.85	7,570.85	93.71	131.16	92.99	-1,580.32	5,863.63	3,855.07	3,630.42	224.65	17.161		
9,100.00	7,660.30	7,606.30	7,606.30	93.93	131.78	93.79	-1,580.32	5,863.63	3,820.85	3,595.39	225.46	16.947		
9,150.00	7,693.72	7,639.72	7,639.72	94.10	132.36	94.59	-1,580.32	5,863.63	3,784.10	3,557.92	226.17	16.731		
9,200.00	7,724.85	7,670.85	7,670.85	94.23	132.90	95.39	-1,580.32	5,863.63	3,745.08	3,518.29	226.79	16.513		
9,250.00	7,753.45	7,700.55	7,699.45	94.30	133.42	-4.39	-1,580.32	5,863.63	3,704.09	3,476.76	227.33	16.294		
9,300.00	7,779.31	7,725.31	7,725.31	94.34	133.85	-12.60	-1,580.32	5,863.63	3,661.44	3,433.72	227.72	16.079		
9,350.00	7,802.23	7,748.23	7,748.23	94.33	134.25	-22.07	-1,580.32	5,863.63	3,617.46	3,389.43	228.03	15.864		
9,400.00	7,822.03	7,768.03	7,768.03	94.28	134.60	-32.95	-1,580.32	5,863.63	3,572.50	3,344.27	228.23	15.653		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	7,784.57	7,784.57	94.20	134.89	-45.05	-1,580.32	5,863.63	3,526.92	3,298.61	228.32	15.447		
9,500.00	7,851.72	7,802.28	7,797.72	94.10	135.20	-57.62	-1,580.32	5,863.63	3,481.11	3,252.73	228.39	15.242		
9,550.00	7,861.37	7,807.37	7,807.37	93.96	135.29	-69.60	-1,580.32	5,863.63	3,435.45	3,207.26	228.19	15.055		
9,600.00	7,867.46	7,813.46	7,813.46	93.81	135.39	-80.08	-1,580.32	5,863.63	3,390.33	3,162.36	227.97	14.872		
9,650.00	7,869.94	7,815.94	7,815.94	93.64	135.44	-88.64	-1,580.32	5,863.63	3,346.14	3,118.49	227.65	14.699		
9,659.14	7,870.00	7,816.00	7,816.00	93.60	135.44	-90.00	-1,580.32	5,863.63	3,338.19	3,110.61	227.58	14.668		
9,700.00	7,870.00	7,816.00	7,816.00	93.46	135.44	-90.00	-1,580.32	5,863.63	3,302.83	3,075.57	227.25	14.534		
9,800.00	7,870.00	7,816.00	7,816.00	93.11	135.44	-90.00	-1,580.32	5,863.63	3,216.83	2,990.40	226.43	14.207		
9,900.00	7,870.00	7,816.00	7,816.00	92.77	135.44	-90.00	-1,580.32	5,863.63	3,131.67	2,906.12	225.55	13.885		
10,000.00	7,870.00	7,816.00	7,816.00	92.46	135.44	-90.00	-1,580.32	5,863.63	3,047.40	2,822.79	224.61	13.567		
10,100.00	7,870.00	7,816.00	7,816.00	92.16	135.44	-90.00	-1,580.32	5,863.63	2,964.12	2,740.51	223.61	13.256		
10,200.00	7,870.00	7,816.00	7,816.00	91.87	135.44	-90.00	-1,580.32	5,863.63	2,881.90	2,659.37	222.53	12.951		
10,300.00	7,870.00	7,816.00	7,816.00	91.60	135.44	-90.00	-1,580.32	5,863.63	2,800.84	2,579.45	221.38	12.652		
10,400.00	7,870.00	7,816.00	7,816.00	91.34	135.44	-90.00	-1,580.32	5,863.63	2,721.03	2,500.88	220.15	12.360		
10,500.00	7,870.00	7,816.00	7,816.00	91.11	135.44	-90.00	-1,580.32	5,863.63	2,642.60	2,423.77	218.83	12.076		
10,600.00	7,870.00	7,816.00	7,816.00	90.88	135.44	-90.00	-1,580.32	5,863.63	2,565.68	2,348.25	217.43	11.800		
10,700.00	7,870.00	7,816.00	7,816.00	90.67	135.44	-90.00	-1,580.32	5,863.63	2,490.39	2,274.46	215.93	11.534		
10,800.00	7,870.00	7,816.00	7,816.00	90.48	135.44	-90.00	-1,580.32	5,863.63	2,416.89	2,202.57	214.32	11.277		
10,900.00	7,870.00	7,816.00	7,816.00	90.31	135.44	-90.00	-1,580.32	5,863.63	2,345.36	2,132.74	212.62	11.031		
11,000.00	7,870.00	7,816.00	7,816.00	90.15	135.44	-90.00	-1,580.32	5,863.63	2,275.97	2,065.15	210.82	10.796		
11,100.00	7,870.00	7,816.00	7,816.00	90.00	135.44	-90.00	-1,580.32	5,863.63	2,208.93	2,000.02	208.91	10.573		
11,200.00	7,870.00	7,816.00	7,816.00	89.88	135.44	-90.00	-1,580.32	5,863.63	2,144.46	1,937.55	206.92	10.364		
11,300.00	7,870.00	7,816.00	7,816.00	89.77	135.44	-90.00	-1,580.32	5,863.63	2,082.80	1,877.96	204.84	10.168		
11,400.00	7,870.00	7,816.00	7,816.00	89.68	135.44	-90.00	-1,580.32	5,863.63	2,024.20	1,821.50	202.70	9.986		
11,500.00	7,870.00	7,816.00	7,816.00	89.60	135.44	-90.00	-1,580.32	5,863.63	1,968.94	1,768.41	200.53	9.819		
11,600.00	7,870.00	7,816.00	7,816.00	89.55	135.44	-90.00	-1,580.32	5,863.63	1,917.31	1,718.93	198.37	9.665		
11,700.00	7,870.00	7,816.00	7,816.00	89.52	135.44	-90.00	-1,580.32	5,863.63	1,869.60	1,673.31	196.28	9.525		
11,800.00	7,870.00	7,816.00	7,816.00	89.50	135.44	-90.00	-1,580.32	5,863.63	1,826.13	1,631.80	194.33	9.397		
11,900.00	7,870.00	7,816.00	7,816.00	89.51	135.44	-90.00	-1,580.32	5,863.63	1,787.20	1,594.60	192.59	9.280		
12,000.00	7,870.00	7,816.00	7,816.00	89.54	135.44	-90.00	-1,580.32	5,863.63	1,753.11	1,561.94	191.18	9.170		
12,100.00	7,870.00	7,816.00	7,816.00	89.59	135.44	-90.00	-1,580.32	5,863.63	1,724.16	1,533.98	190.18	9.066		
12,200.00	7,870.00	7,816.00	7,816.00	89.66	135.44	-90.00	-1,580.32	5,863.63	1,700.61	1,510.92	189.69	8.965		
12,300.00	7,870.00	7,816.00	7,816.00	89.77	135.44	-90.00	-1,580.32	5,863.63	1,682.68	1,492.90	189.79	8.866		
12,400.00	7,870.00	7,816.00	7,816.00	89.89	135.44	-90.00	-1,580.32	5,863.63	1,670.56	1,480.07	190.49	8.770		
12,500.00	7,870.00	7,816.00	7,816.00	90.05	135.44	-90.00	-1,580.32	5,863.63	1,664.36	1,472.56	191.80	8.678		
12,553.32	7,870.00	7,816.00	7,816.00	90.15	135.44	-90.00	-1,580.32	5,863.63	1,663.50	1,470.78	192.72	8.632 CC		
12,600.00	7,870.00	7,816.00	7,816.00	90.24	135.44	-90.00	-1,580.32	5,863.63	1,664.16	1,470.51	193.65	8.594 ES		
12,700.00	7,870.00	7,816.00	7,816.00	90.46	135.44	-90.00	-1,580.32	5,863.63	1,669.96	1,474.00	195.96	8.522		
12,800.00	7,870.00	7,816.00	7,816.00	90.71	135.44	-90.00	-1,580.32	5,863.63	1,681.70	1,483.07	198.62	8.467		
12,900.00	7,870.00	7,816.00	7,816.00	90.99	135.44	-90.00	-1,580.32	5,863.63	1,699.25	1,497.72	201.53	8.432		
13,000.00	7,870.00	7,816.00	7,816.00	91.32	135.44	-90.00	-1,580.32	5,863.63	1,722.43	1,517.86	204.57	8.420 SF		
13,100.00	7,870.00	7,816.00	7,816.00	91.68	135.44	-90.00	-1,580.32	5,863.63	1,751.03	1,543.37	207.66	8.432		
13,200.00	7,870.00	7,816.00	7,816.00	92.08	135.44	-90.00	-1,580.32	5,863.63	1,784.78	1,574.07	210.71	8.470		
13,300.00	7,870.00	7,816.00	7,816.00	92.52	135.44	-90.00	-1,580.32	5,863.63	1,823.40	1,609.72	213.68	8.533		
13,400.00	7,870.00	7,816.00	7,816.00	93.00	135.44	-90.00	-1,580.32	5,863.63	1,866.58	1,650.06	216.52	8.621		
13,500.00	7,870.00	7,816.00	7,816.00	93.53	135.44	-90.00	-1,580.32	5,863.63	1,914.02	1,694.82	219.20	8.732		
13,600.00	7,870.00	7,816.00	7,816.00	94.10	135.44	-90.00	-1,580.32	5,863.63	1,965.40	1,743.70	221.70	8.865		
13,700.00	7,870.00	7,816.00	7,816.00	94.72	135.44	-90.00	-1,580.32	5,863.63	2,020.43	1,796.41	224.02	9.019		
13,800.00	7,870.00	7,816.00	7,816.00	95.38	135.44	-90.00	-1,580.32	5,863.63	2,078.81	1,852.66	226.16	9.192		
13,900.00	7,870.00	7,816.00	7,816.00	96.09	135.44	-90.00	-1,580.32	5,863.63	2,140.28	1,912.17	228.12	9.382		
14,000.00	7,870.00	7,816.00	7,816.00	96.84	135.44	-90.00	-1,580.32	5,863.63	2,204.57	1,974.67	229.91	9.589		
14,100.00	7,870.00	7,816.00	7,816.00	97.64	135.44	-90.00	-1,580.32	5,863.63	2,271.45	2,039.91	231.54	9.810		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	7,816.00	7,816.00	98.48	135.44	-90.00	-1,580.32	5,863.63	2,340.69	2,107.67	233.02	10.045		
14,300.00	7,870.00	7,816.00	7,816.00	99.37	135.44	-90.00	-1,580.32	5,863.63	2,412.08	2,177.72	234.36	10.292		
14,400.00	7,870.00	7,816.00	7,816.00	100.30	135.44	-90.00	-1,580.32	5,863.63	2,485.46	2,249.87	235.58	10.550		
14,500.00	7,870.00	7,816.00	7,816.00	101.26	135.44	-90.00	-1,580.32	5,863.63	2,560.63	2,323.94	236.69	10.819		
14,600.00	7,870.00	7,816.00	7,816.00	102.27	135.44	-90.00	-1,580.32	5,863.63	2,637.45	2,399.77	237.69	11.096		
14,700.00	7,870.00	7,816.00	7,816.00	103.31	135.44	-90.00	-1,580.32	5,863.63	2,715.79	2,477.19	238.59	11.383		
14,800.00	7,870.00	7,816.00	7,816.00	104.38	135.44	-90.00	-1,580.32	5,863.63	2,795.50	2,556.09	239.41	11.676		
14,900.00	7,870.00	7,816.00	7,816.00	105.49	135.44	-90.00	-1,580.32	5,863.63	2,876.49	2,636.33	240.16	11.977		
15,000.00	7,870.00	7,816.00	7,816.00	106.63	135.44	-90.00	-1,580.32	5,863.63	2,958.63	2,717.80	240.84	12.285		
15,100.00	7,870.00	7,816.00	7,816.00	107.80	135.44	-90.00	-1,580.32	5,863.63	3,041.85	2,800.40	241.45	12.598		
15,200.00	7,870.00	7,816.00	7,816.00	109.00	135.44	-90.00	-1,580.32	5,863.63	3,126.05	2,884.04	242.01	12.917		
15,300.00	7,870.00	7,816.00	7,816.00	110.22	135.44	-90.00	-1,580.32	5,863.63	3,211.16	2,968.63	242.52	13.241		
15,400.00	7,870.00	7,816.00	7,816.00	111.47	135.44	-90.00	-1,580.32	5,863.63	3,297.10	3,054.11	242.99	13.569		
15,500.00	7,870.00	7,816.00	7,816.00	112.74	135.44	-90.00	-1,580.32	5,863.63	3,383.81	3,140.40	243.41	13.902		
15,600.00	7,870.00	7,816.00	7,816.00	114.03	135.44	-90.00	-1,580.32	5,863.63	3,471.24	3,227.45	243.80	14.238		
15,700.00	7,870.00	7,816.00	7,816.00	115.34	135.44	-90.00	-1,580.32	5,863.63	3,559.34	3,315.18	244.15	14.578		
15,800.00	7,870.00	7,816.00	7,816.00	116.68	135.44	-90.00	-1,580.32	5,863.63	3,648.04	3,403.57	244.48	14.922		
15,900.00	7,870.00	7,816.00	7,816.00	118.02	135.44	-90.00	-1,580.32	5,863.63	3,737.32	3,492.54	244.77	15.268		
16,000.00	7,870.00	7,816.00	7,816.00	119.39	135.44	-90.00	-1,580.32	5,863.63	3,827.12	3,582.08	245.05	15.618		
16,100.00	7,870.00	7,816.00	7,816.00	120.77	135.44	-90.00	-1,580.32	5,863.63	3,917.42	3,672.13	245.30	15.970		
16,200.00	7,870.00	7,816.00	7,816.00	122.17	135.44	-90.00	-1,580.32	5,863.63	4,008.19	3,762.66	245.53	16.325		
16,300.00	7,870.00	7,816.00	7,816.00	123.58	135.44	-90.00	-1,580.32	5,863.63	4,099.38	3,853.63	245.74	16.682		
16,400.00	7,870.00	7,816.00	7,816.00	125.00	135.44	-90.00	-1,580.32	5,863.63	4,190.97	3,945.03	245.94	17.041		
16,500.00	7,870.00	7,816.00	7,816.00	126.43	135.44	-90.00	-1,580.32	5,863.63	4,282.94	4,036.82	246.12	17.402		
16,600.00	7,870.00	7,816.00	7,816.00	127.88	135.44	-90.00	-1,580.32	5,863.63	4,375.26	4,128.97	246.29	17.765		
16,700.00	7,870.00	7,816.00	7,816.00	129.34	135.44	-90.00	-1,580.32	5,863.63	4,467.91	4,221.47	246.45	18.129		
16,800.00	7,870.00	7,816.00	7,816.00	130.81	135.44	-90.00	-1,580.32	5,863.63	4,560.87	4,314.28	246.59	18.496		
16,900.00	7,870.00	7,816.00	7,816.00	132.28	135.44	-90.00	-1,580.32	5,863.63	4,654.13	4,407.40	246.73	18.864		
17,000.00	7,870.00	7,816.00	7,816.00	133.77	135.44	-90.00	-1,580.32	5,863.63	4,747.66	4,500.81	246.85	19.233		
17,100.00	7,870.00	7,816.00	7,816.00	135.27	135.44	-90.00	-1,580.32	5,863.63	4,841.44	4,594.48	246.97	19.603		
17,200.00	7,870.00	7,816.00	7,816.00	136.77	135.44	-90.00	-1,580.32	5,863.63	4,935.48	4,688.40	247.08	19.975		
17,300.00	7,870.00	7,816.00	7,816.00	138.28	135.44	-90.00	-1,580.32	5,863.63	5,029.74	4,782.56	247.18	20.349		
17,400.00	7,870.00	7,816.00	7,816.00	139.80	135.44	-90.00	-1,580.32	5,863.63	5,124.22	4,876.94	247.27	20.723		
17,500.00	7,870.00	7,816.00	7,816.00	141.33	135.44	-90.00	-1,580.32	5,863.63	5,218.90	4,971.54	247.36	21.098		
17,600.00	7,870.00	7,816.00	7,816.00	142.86	135.44	-90.00	-1,580.32	5,863.63	5,313.78	5,066.33	247.45	21.474		
17,700.00	7,870.00	7,816.00	7,816.00	144.40	135.44	-90.00	-1,580.32	5,863.63	5,408.84	5,161.32	247.53	21.852		
17,800.00	7,870.00	7,816.00	7,816.00	145.95	135.44	-90.00	-1,580.32	5,863.63	5,504.08	5,256.48	247.60	22.230		
17,900.00	7,870.00	7,816.00	7,816.00	147.50	135.44	-90.00	-1,580.32	5,863.63	5,599.49	5,351.82	247.67	22.609		
18,000.00	7,870.00	7,816.00	7,816.00	149.06	135.44	-90.00	-1,580.32	5,863.63	5,695.05	5,447.31	247.74	22.988		
18,100.00	7,870.00	7,816.00	7,816.00	150.63	135.44	-90.00	-1,580.32	5,863.63	5,790.76	5,542.96	247.80	23.369		
18,200.00	7,870.00	7,816.00	7,816.00	152.20	135.44	-90.00	-1,580.32	5,863.63	5,886.62	5,638.76	247.86	23.750		
18,300.00	7,870.00	7,816.00	7,816.00	153.77	135.44	-90.00	-1,580.32	5,863.63	5,982.61	5,734.70	247.91	24.132		
18,400.00	7,870.00	7,816.00	7,816.00	155.35	135.44	-90.00	-1,580.32	5,863.63	6,078.73	5,830.76	247.97	24.514		
18,500.00	7,870.00	7,816.00	7,816.00	156.93	135.44	-90.00	-1,580.32	5,863.63	6,174.97	5,926.96	248.02	24.897		
18,600.00	7,870.00	7,816.00	7,816.00	158.52	135.44	-90.00	-1,580.32	5,863.63	6,271.33	6,023.27	248.07	25.281		
18,700.00	7,870.00	7,816.00	7,816.00	160.11	135.44	-90.00	-1,580.32	5,863.63	6,367.81	6,119.69	248.11	25.665		
18,800.00	7,870.00	7,816.00	7,816.00	161.71	135.44	-90.00	-1,580.32	5,863.63	6,464.39	6,216.23	248.16	26.050		
18,900.00	7,870.00	7,816.00	7,816.00	163.31	135.44	-90.00	-1,580.32	5,863.63	6,561.07	6,312.87	248.20	26.435		
19,000.00	7,870.00	7,816.00	7,816.00	164.91	135.44	-90.00	-1,580.32	5,863.63	6,657.85	6,409.61	248.24	26.820		
19,100.00	7,870.00	7,816.00	7,816.00	166.52	135.44	-90.00	-1,580.32	5,863.63	6,754.73	6,506.45	248.28	27.206		
19,200.00	7,870.00	7,816.00	7,816.00	168.13	135.44	-90.00	-1,580.32	5,863.63	6,851.69	6,603.37	248.32	27.593		
19,300.00	7,870.00	7,816.00	7,816.00	169.75	135.44	-90.00	-1,580.32	5,863.63	6,948.74	6,700.39	248.35	27.979		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	7,816.00	7,816.00	171.10	135.44	-90.00	-1,580.32	5,863.63	7,029.85	6,781.47	248.38	28.303	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	115.03	-2,506.45	5,366.79	5,923.43					
100.00	100.00	52.00	52.00	0.13	0.40	115.03	-2,506.45	5,366.79	5,923.24	5,922.71	0.53	N/A		
200.00	200.00	152.00	152.00	0.49	1.68	115.03	-2,506.45	5,366.79	5,923.24	5,921.07	2.17	2,731.598		
300.00	300.00	252.00	252.00	0.85	3.42	115.03	-2,506.45	5,366.79	5,923.24	5,918.97	4.27	1,386.456		
400.00	400.00	352.00	352.00	1.21	5.17	115.03	-2,506.45	5,366.79	5,923.24	5,916.86	6.38	928.987		
500.00	500.00	452.00	452.00	1.57	6.91	115.03	-2,506.45	5,366.79	5,923.24	5,914.76	8.48	698.510		
600.00	600.00	552.00	552.00	1.93	8.66	115.03	-2,506.45	5,366.79	5,923.24	5,912.66	10.58	559.661		
700.00	699.98	651.98	651.98	2.28	10.40	51.24	-2,506.45	5,366.79	5,922.15	5,909.46	12.68	466.957		
800.00	799.84	751.84	751.84	2.64	12.14	51.33	-2,506.45	5,366.79	5,918.87	5,904.09	14.78	400.518		
900.00	899.45	851.45	851.45	3.00	13.88	51.49	-2,506.45	5,366.79	5,913.42	5,896.55	16.87	350.430		
1,000.00	998.70	950.70	950.70	3.37	15.62	51.70	-2,506.45	5,366.79	5,905.82	5,886.84	18.97	311.273		
1,100.00	1,097.47	1,049.47	1,049.47	3.76	17.34	51.97	-2,506.45	5,366.79	5,896.07	5,875.00	21.07	279.773		
1,200.00	1,195.62	1,147.62	1,147.62	4.18	19.05	52.30	-2,506.45	5,366.79	5,884.23	5,861.05	23.18	253.841		
1,300.00	1,293.06	1,245.06	1,245.06	4.63	20.75	52.70	-2,506.45	5,366.79	5,870.31	5,845.01	25.29	232.082		
1,400.00	1,389.64	1,341.64	1,341.64	5.11	22.44	53.15	-2,506.45	5,366.79	5,854.36	5,826.94	27.42	213.530		
1,500.00	1,485.27	1,437.27	1,437.27	5.63	24.11	53.67	-2,506.45	5,366.79	5,836.43	5,806.88	29.55	197.498		
1,600.00	1,579.82	1,531.82	1,531.82	6.20	25.76	54.25	-2,506.45	5,366.79	5,816.57	5,784.87	31.70	183.480		
1,700.00	1,673.17	1,625.17	1,625.17	6.83	27.39	54.88	-2,506.45	5,366.79	5,794.85	5,760.98	33.87	171.101		
1,800.00	1,765.21	1,717.21	1,717.21	7.51	28.99	55.58	-2,506.45	5,366.79	5,771.32	5,735.27	36.05	160.074		
1,900.00	1,855.84	1,807.84	1,807.84	8.24	30.58	56.34	-2,506.45	5,366.79	5,746.07	5,707.80	38.26	150.176		
2,000.00	1,944.94	1,903.06	1,896.94	9.05	32.24	57.16	-2,506.45	5,366.79	5,719.16	5,678.56	40.60	140.860		
2,100.00	2,032.39	1,984.39	1,984.39	9.91	33.66	58.04	-2,506.45	5,366.79	5,690.69	5,647.93	42.75	133.104		
2,200.00	2,118.11	2,070.11	2,070.11	10.85	35.15	58.97	-2,506.45	5,366.79	5,660.73	5,615.69	45.04	125.680		
2,300.00	2,201.97	2,153.97	2,153.97	11.85	36.62	59.96	-2,506.45	5,366.79	5,629.40	5,582.04	47.36	118.869		
2,400.00	2,283.88	2,235.88	2,235.88	12.93	38.05	61.00	-2,506.45	5,366.79	5,596.78	5,547.08	49.71	112.596		
2,429.47	2,307.63	2,259.63	2,259.63	13.26	38.46	61.32	-2,506.45	5,366.79	5,586.94	5,536.54	50.41	110.840		
2,500.00	2,364.26	2,316.26	2,316.26	14.06	39.45	61.64	-2,506.45	5,366.79	5,563.38	5,511.29	52.09	106.812		
2,600.00	2,444.56	2,403.44	2,396.56	15.22	40.97	62.10	-2,506.45	5,366.79	5,530.35	5,475.73	54.61	101.263		
2,700.00	2,524.85	2,476.85	2,476.85	16.39	42.25	62.57	-2,506.45	5,366.79	5,497.76	5,440.83	56.93	96.576		
2,800.00	2,605.14	2,557.14	2,557.14	17.57	43.65	63.04	-2,506.45	5,366.79	5,465.63	5,406.25	59.38	92.042		
2,900.00	2,685.43	2,637.43	2,637.43	18.76	45.05	63.51	-2,506.45	5,366.79	5,433.96	5,372.11	61.86	87.845		
3,000.00	2,765.73	2,717.73	2,717.73	19.96	46.46	63.99	-2,506.45	5,366.79	5,402.77	5,338.42	64.35	83.955		
3,100.00	2,846.02	2,801.98	2,798.02	21.16	47.93	64.47	-2,506.45	5,366.79	5,372.06	5,305.12	66.93	80.258		
3,200.00	2,926.31	2,878.31	2,878.31	22.37	49.26	64.96	-2,506.45	5,366.79	5,341.83	5,272.44	69.39	76.978		
3,300.00	3,006.60	2,958.60	2,958.60	23.59	50.66	65.45	-2,506.45	5,366.79	5,312.10	5,240.16	71.94	73.843		
3,400.00	3,086.90	3,038.90	3,038.90	24.81	52.06	65.94	-2,506.45	5,366.79	5,282.88	5,208.38	74.50	70.915		
3,500.00	3,167.19	3,119.19	3,119.19	26.03	53.46	66.44	-2,506.45	5,366.79	5,254.17	5,177.10	77.07	68.176		
3,600.00	3,247.48	3,200.52	3,199.48	27.25	54.88	66.94	-2,506.45	5,366.79	5,225.98	5,146.31	79.67	65.594		
3,700.00	3,327.77	3,279.77	3,279.77	28.48	56.27	67.44	-2,506.45	5,366.79	5,198.33	5,116.08	82.25	63.201		
3,800.00	3,408.07	3,360.07	3,360.07	29.71	57.67	67.95	-2,506.45	5,366.79	5,171.21	5,086.35	84.86	60.938		
3,900.00	3,488.36	3,440.36	3,440.36	30.94	59.07	68.46	-2,506.45	5,366.79	5,144.64	5,057.16	87.48	58.809		
4,000.00	3,568.65	3,520.65	3,520.65	32.17	60.47	68.98	-2,506.45	5,366.79	5,118.63	5,028.51	90.11	56.802		
4,100.00	3,648.95	3,600.95	3,600.95	33.41	61.87	69.50	-2,506.45	5,366.79	5,093.18	5,000.42	92.76	54.910		
4,200.00	3,729.24	3,681.24	3,681.24	34.64	63.27	70.02	-2,506.45	5,366.79	5,068.30	4,972.90	95.41	53.123		
4,300.00	3,809.53	3,761.53	3,761.53	35.88	64.67	70.55	-2,506.45	5,366.79	5,044.01	4,945.94	98.07	51.433		
4,400.00	3,889.82	3,841.82	3,841.82	37.12	66.08	71.08	-2,506.45	5,366.79	5,020.31	4,919.57	100.74	49.834		
4,500.00	3,970.12	3,922.12	3,922.12	38.36	67.48	71.61	-2,506.45	5,366.79	4,997.20	4,893.78	103.42	48.319		
4,600.00	4,050.41	4,002.41	4,002.41	39.60	68.88	72.15	-2,506.45	5,366.79	4,974.70	4,868.60	106.11	46.883		
4,700.00	4,130.70	4,082.70	4,082.70	40.84	70.28	72.69	-2,506.45	5,366.79	4,952.82	4,844.02	108.80	45.520		
4,800.00	4,210.99	4,162.99	4,162.99	42.08	71.68	73.23	-2,506.45	5,366.79	4,931.56	4,820.06	111.51	44.226		
4,900.00	4,291.29	4,243.29	4,243.29	43.32	73.08	73.78	-2,506.45	5,366.79	4,910.94	4,796.72	114.22	42.996		
5,000.00	4,371.58	4,323.58	4,323.58	44.57	74.48	74.33	-2,506.45	5,366.79	4,890.95	4,774.01	116.93	41.826		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,403.87	4,403.87	45.81	75.88	74.88	-2,506.45	5,366.79	4,871.61	4,751.95	119.66	40.713		
5,200.00	4,532.16	4,484.16	4,484.16	47.05	77.29	75.43	-2,506.45	5,366.79	4,852.92	4,730.54	122.38	39.653		
5,300.00	4,612.46	4,564.46	4,564.46	48.30	78.69	75.99	-2,506.45	5,366.79	4,834.90	4,709.78	125.12	38.643		
5,400.00	4,692.75	4,644.75	4,644.75	49.54	80.09	76.55	-2,506.45	5,366.79	4,817.55	4,689.69	127.85	37.680		
5,500.00	4,773.04	4,725.04	4,725.04	50.79	81.49	77.11	-2,506.45	5,366.79	4,800.87	4,670.28	130.59	36.762		
5,600.00	4,853.34	4,805.34	4,805.34	52.03	82.89	77.68	-2,506.45	5,366.79	4,784.88	4,651.54	133.34	35.886		
5,700.00	4,933.63	4,885.63	4,885.63	53.28	84.29	78.25	-2,506.45	5,366.79	4,769.58	4,633.50	136.08	35.049		
5,800.00	5,013.92	4,965.92	4,965.92	54.53	85.69	78.82	-2,506.45	5,366.79	4,754.98	4,616.15	138.83	34.250		
5,900.00	5,094.21	5,046.21	5,046.21	55.77	87.10	79.39	-2,506.45	5,366.79	4,741.08	4,599.50	141.58	33.487		
6,000.00	5,174.51	5,126.51	5,126.51	57.02	88.50	79.97	-2,506.45	5,366.79	4,727.90	4,583.57	144.33	32.758		
6,100.00	5,254.80	5,206.80	5,206.80	58.27	89.90	80.54	-2,506.45	5,366.79	4,715.43	4,568.35	147.08	32.060		
6,200.00	5,335.09	5,287.09	5,287.09	59.52	91.30	81.12	-2,506.45	5,366.79	4,703.68	4,553.85	149.83	31.394		
6,300.00	5,415.38	5,367.38	5,367.38	60.76	92.70	81.70	-2,506.45	5,366.79	4,692.66	4,540.09	152.58	30.756		
6,400.00	5,495.68	5,447.68	5,447.68	62.01	94.10	82.28	-2,506.45	5,366.79	4,682.38	4,527.05	155.32	30.146		
6,500.00	5,575.97	5,527.97	5,527.97	63.26	95.50	82.87	-2,506.45	5,366.79	4,672.83	4,514.76	158.07	29.562		
6,600.00	5,656.26	5,608.26	5,608.26	64.51	96.91	83.45	-2,506.45	5,366.79	4,664.02	4,503.21	160.81	29.004		
6,700.00	5,736.55	5,688.55	5,688.55	65.76	98.31	84.04	-2,506.45	5,366.79	4,655.96	4,492.42	163.55	28.469		
6,800.00	5,816.85	5,768.85	5,768.85	67.01	99.71	84.63	-2,506.45	5,366.79	4,648.65	4,482.38	166.28	27.957		
6,900.00	5,897.14	5,849.14	5,849.14	68.26	101.11	85.22	-2,506.45	5,366.79	4,642.10	4,473.09	169.01	27.467		
7,000.00	5,977.43	5,929.43	5,929.43	69.50	102.51	85.81	-2,506.45	5,366.79	4,636.30	4,464.57	171.73	26.998		
7,100.00	6,057.72	6,009.72	6,009.72	70.75	103.91	86.40	-2,506.45	5,366.79	4,631.26	4,456.82	174.44	26.549		
7,200.00	6,138.02	6,109.98	6,109.98	72.00	105.66	86.99	-2,506.45	5,366.79	4,626.99	4,449.49	177.50	26.067		
7,300.00	6,218.31	6,170.31	6,170.31	73.25	106.71	87.58	-2,506.45	5,366.79	4,623.48	4,443.62	179.85	25.707		
7,400.00	6,298.60	6,250.60	6,250.60	74.50	108.12	88.18	-2,506.45	5,366.79	4,620.73	4,438.19	182.55	25.313		
7,500.00	6,378.90	6,330.90	6,330.90	75.75	109.52	88.77	-2,506.45	5,366.79	4,618.76	4,433.53	185.23	24.935		
7,600.00	6,459.19	6,411.19	6,411.19	77.00	110.92	89.36	-2,506.45	5,366.79	4,617.55	4,429.64	187.91	24.574		
7,700.00	6,539.48	6,508.52	6,491.48	78.25	112.62	89.96	-2,506.45	5,366.79	4,617.11	4,426.24	190.87	24.190		
7,707.02	6,545.11	6,502.89	6,497.11	78.34	112.52	90.00	-2,506.45	5,366.79	4,617.11	4,426.25	190.86	24.191		
7,800.00	6,619.77	6,571.77	6,571.77	79.50	113.72	90.55	-2,506.45	5,366.79	4,617.44	4,424.22	193.22	23.897		
7,900.00	6,700.07	6,652.07	6,652.07	80.75	115.12	91.15	-2,506.45	5,366.79	4,618.54	4,422.67	195.87	23.580		
8,000.00	6,780.36	6,732.36	6,732.36	82.00	116.52	91.74	-2,506.45	5,366.79	4,620.41	4,421.91	198.50	23.277		
8,100.00	6,860.65	6,812.65	6,812.65	83.25	117.93	92.33	-2,506.45	5,366.79	4,623.05	4,421.93	201.12	22.987		
8,200.00	6,940.94	6,907.06	6,892.94	84.50	119.57	92.93	-2,506.45	5,366.79	4,626.45	4,422.48	203.97	22.682		
8,300.00	7,021.24	6,973.24	6,973.24	85.76	120.73	93.52	-2,506.45	5,366.79	4,630.62	4,424.30	206.32	22.444		
8,400.00	7,101.53	7,053.53	7,053.53	87.01	122.13	94.11	-2,506.45	5,366.79	4,635.55	4,426.65	208.90	22.191		
8,500.00	7,181.82	7,133.82	7,133.82	88.26	123.53	94.70	-2,506.45	5,366.79	4,641.24	4,429.78	211.46	21.948		
8,605.60	7,266.61	7,218.61	7,218.61	89.58	125.01	95.32	-2,506.45	5,366.79	4,648.07	4,433.92	214.16	21.704		
8,650.00	7,302.60	7,254.60	7,254.60	90.13	125.64	95.80	-2,506.45	5,366.79	4,649.55	4,434.26	215.29	21.597		
8,700.00	7,343.78	7,304.22	7,295.78	90.72	126.51	96.25	-2,506.45	5,366.79	4,647.42	4,430.71	216.70	21.446		
8,750.00	7,385.32	7,337.32	7,337.32	91.28	127.08	96.63	-2,506.45	5,366.79	4,641.27	4,423.46	217.81	21.309		
8,800.00	7,426.92	7,378.92	7,378.92	91.81	127.81	97.04	-2,506.45	5,366.79	4,631.14	4,412.10	219.03	21.143		
8,850.00	7,468.27	7,420.27	7,420.27	92.29	128.53	97.47	-2,506.45	5,366.79	4,617.07	4,396.85	220.22	20.966		
8,900.00	7,509.04	7,461.04	7,461.04	92.72	129.24	97.90	-2,506.45	5,366.79	4,599.14	4,377.78	221.36	20.777		
8,950.00	7,548.93	7,500.93	7,500.93	93.10	129.94	98.32	-2,506.45	5,366.79	4,577.48	4,355.03	222.44	20.578		
9,000.00	7,587.63	7,539.63	7,539.63	93.43	130.61	98.74	-2,506.45	5,366.79	4,552.21	4,328.74	223.46	20.371		
9,050.00	7,624.85	7,576.85	7,576.85	93.71	131.26	99.15	-2,506.45	5,366.79	4,523.50	4,299.09	224.41	20.157		
9,100.00	7,660.30	7,612.30	7,612.30	93.93	131.88	99.56	-2,506.45	5,366.79	4,491.56	4,266.27	225.29	19.937		
9,150.00	7,693.72	7,645.72	7,645.72	94.10	132.47	99.96	-2,506.45	5,366.79	4,456.60	4,230.52	226.08	19.712		
9,200.00	7,724.85	7,676.85	7,676.85	94.23	133.01	100.35	-2,506.45	5,366.79	4,418.87	4,192.08	226.79	19.484		
9,250.00	7,753.45	7,705.45	7,705.45	94.30	133.51	100.74	-2,506.45	5,366.79	4,378.64	4,151.22	227.42	19.254		
9,300.00	7,779.31	7,731.31	7,731.31	94.34	133.96	101.12	-2,506.45	5,366.79	4,336.20	4,108.25	227.95	19.022		
9,350.00	7,802.23	7,754.23	7,754.23	94.33	134.36	101.50	-2,506.45	5,366.79	4,291.87	4,063.48	228.40	18.791		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,774.03	7,774.03	94.28	134.71	-3.79	-2,506.45	5,366.79	4,245.98	4,017.23	228.75	18.562		
9,450.00	7,838.57	7,809.43	7,790.57	94.20	135.32	-14.91	-2,506.45	5,366.79	4,198.87	3,969.54	229.34	18.309		
9,500.00	7,851.72	7,803.72	7,803.72	94.10	135.22	-30.21	-2,506.45	5,366.79	4,150.92	3,921.74	229.17	18.112		
9,550.00	7,861.37	7,813.37	7,813.37	93.96	135.39	-49.77	-2,506.45	5,366.79	4,102.49	3,873.24	229.25	17.895		
9,600.00	7,867.46	7,819.46	7,819.46	93.81	135.50	-70.36	-2,506.45	5,366.79	4,053.97	3,824.73	229.24	17.684		
9,650.00	7,869.94	7,821.94	7,821.94	93.64	135.54	-87.43	-2,506.45	5,366.79	4,005.75	3,776.61	229.14	17.482		
9,659.14	7,870.00	7,822.00	7,822.00	93.60	135.54	-90.00	-2,506.45	5,366.79	3,997.00	3,767.88	229.11	17.446		
9,700.00	7,870.00	7,822.00	7,822.00	93.46	135.54	-90.00	-2,506.45	5,366.79	3,957.94	3,728.96	228.98	17.285		
9,800.00	7,870.00	7,822.00	7,822.00	93.11	135.54	-90.00	-2,506.45	5,366.79	3,862.52	3,633.87	228.65	16.893		
9,900.00	7,870.00	7,822.00	7,822.00	92.77	135.54	-90.00	-2,506.45	5,366.79	3,767.34	3,539.04	228.30	16.502		
10,000.00	7,870.00	7,822.00	7,822.00	92.46	135.54	-90.00	-2,506.45	5,366.79	3,672.41	3,444.48	227.93	16.112		
10,100.00	7,870.00	7,822.00	7,822.00	92.16	135.54	-90.00	-2,506.45	5,366.79	3,577.76	3,350.23	227.54	15.724		
10,200.00	7,870.00	7,822.00	7,822.00	91.87	135.54	-90.00	-2,506.45	5,366.79	3,483.41	3,256.29	227.12	15.337		
10,300.00	7,870.00	7,822.00	7,822.00	91.60	135.54	-90.00	-2,506.45	5,366.79	3,389.39	3,162.71	226.68	14.953		
10,400.00	7,870.00	7,822.00	7,822.00	91.34	135.54	-90.00	-2,506.45	5,366.79	3,295.71	3,069.51	226.21	14.570		
10,500.00	7,870.00	7,822.00	7,822.00	91.11	135.54	-90.00	-2,506.45	5,366.79	3,202.42	2,976.72	225.70	14.189		
10,600.00	7,870.00	7,822.00	7,822.00	90.88	135.54	-90.00	-2,506.45	5,366.79	3,109.55	2,884.38	225.17	13.810		
10,700.00	7,870.00	7,822.00	7,822.00	90.67	135.54	-90.00	-2,506.45	5,366.79	3,017.13	2,792.53	224.59	13.434		
10,800.00	7,870.00	7,822.00	7,822.00	90.48	135.54	-90.00	-2,506.45	5,366.79	2,925.21	2,701.23	223.98	13.060		
10,900.00	7,870.00	7,822.00	7,822.00	90.31	135.54	-90.00	-2,506.45	5,366.79	2,833.83	2,610.51	223.32	12.690		
11,000.00	7,870.00	7,822.00	7,822.00	90.15	135.54	-90.00	-2,506.45	5,366.79	2,743.06	2,520.45	222.61	12.322		
11,100.00	7,870.00	7,822.00	7,822.00	90.00	135.54	-90.00	-2,506.45	5,366.79	2,652.95	2,431.10	221.85	11.958		
11,200.00	7,870.00	7,822.00	7,822.00	89.88	135.54	-90.00	-2,506.45	5,366.79	2,563.58	2,342.54	221.04	11.598		
11,300.00	7,870.00	7,822.00	7,822.00	89.77	135.54	-90.00	-2,506.45	5,366.79	2,475.02	2,254.86	220.15	11.242		
11,400.00	7,870.00	7,822.00	7,822.00	89.68	135.54	-90.00	-2,506.45	5,366.79	2,387.36	2,168.16	219.20	10.891		
11,500.00	7,870.00	7,822.00	7,822.00	89.60	135.54	-90.00	-2,506.45	5,366.79	2,300.71	2,082.54	218.17	10.545		
11,600.00	7,870.00	7,822.00	7,822.00	89.55	135.54	-90.00	-2,506.45	5,366.79	2,215.18	1,998.12	217.06	10.205		
11,700.00	7,870.00	7,822.00	7,822.00	89.52	135.54	-90.00	-2,506.45	5,366.79	2,130.92	1,915.05	215.86	9.872		
11,800.00	7,870.00	7,822.00	7,822.00	89.50	135.54	-90.00	-2,506.45	5,366.79	2,048.07	1,833.50	214.57	9.545		
11,900.00	7,870.00	7,822.00	7,822.00	89.51	135.54	-90.00	-2,506.45	5,366.79	1,966.82	1,753.64	213.17	9.226		
12,000.00	7,870.00	7,822.00	7,822.00	89.54	135.54	-90.00	-2,506.45	5,366.79	1,887.36	1,675.69	211.67	8.916		
12,100.00	7,870.00	7,822.00	7,822.00	89.59	135.54	-90.00	-2,506.45	5,366.79	1,809.95	1,599.88	210.07	8.616		
12,200.00	7,870.00	7,822.00	7,822.00	89.66	135.54	-90.00	-2,506.45	5,366.79	1,734.85	1,526.48	208.36	8.326		
12,300.00	7,870.00	7,822.00	7,822.00	89.77	135.54	-90.00	-2,506.45	5,366.79	1,662.37	1,455.80	206.57	8.047		
12,400.00	7,870.00	7,822.00	7,822.00	89.89	135.54	-90.00	-2,506.45	5,366.79	1,592.87	1,388.16	204.71	7.781		
12,500.00	7,870.00	7,822.00	7,822.00	90.05	135.54	-90.00	-2,506.45	5,366.79	1,526.77	1,323.94	202.83	7.527		
12,600.00	7,870.00	7,822.00	7,822.00	90.24	135.54	-90.00	-2,506.45	5,366.79	1,464.51	1,263.54	200.98	7.287		
12,700.00	7,870.00	7,822.00	7,822.00	90.46	135.54	-90.00	-2,506.45	5,366.79	1,406.62	1,207.37	199.25	7.060		
12,800.00	7,870.00	7,822.00	7,822.00	90.71	135.54	-90.00	-2,506.45	5,366.79	1,353.64	1,155.89	197.75	6.845		
12,900.00	7,870.00	7,822.00	7,822.00	90.99	135.54	-90.00	-2,506.45	5,366.79	1,306.19	1,109.54	196.65	6.642		
13,000.00	7,870.00	7,822.00	7,822.00	91.32	135.54	-90.00	-2,506.45	5,366.79	1,264.87	1,068.78	196.09	6.450		
13,100.00	7,870.00	7,822.00	7,822.00	91.68	135.54	-90.00	-2,506.45	5,366.79	1,230.31	1,034.08	196.24	6.269		
13,200.00	7,870.00	7,822.00	7,822.00	92.08	135.54	-90.00	-2,506.45	5,366.79	1,203.10	1,005.89	197.21	6.101		
13,300.00	7,870.00	7,822.00	7,822.00	92.52	135.54	-90.00	-2,506.45	5,366.79	1,183.73	984.70	199.03	5.947		
13,400.00	7,870.00	7,822.00	7,822.00	93.00	135.54	-90.00	-2,506.45	5,366.79	1,172.60	970.96	201.65	5.815		
13,481.12	7,870.00	7,822.00	7,822.00	93.43	135.54	-90.00	-2,506.45	5,366.79	1,169.80	965.54	204.26	5.727 CC		
13,500.00	7,870.00	7,822.00	7,822.00	93.53	135.54	-90.00	-2,506.45	5,366.79	1,169.95	965.04	204.91	5.710 ES		
13,600.00	7,870.00	7,822.00	7,822.00	94.10	135.54	-90.00	-2,506.45	5,366.79	1,175.82	967.22	208.60	5.637		
13,700.00	7,870.00	7,822.00	7,822.00	94.72	135.54	-90.00	-2,506.45	5,366.79	1,190.10	977.58	212.51	5.600 SF		
13,800.00	7,870.00	7,822.00	7,822.00	95.38	135.54	-90.00	-2,506.45	5,366.79	1,212.48	996.05	216.43	5.602		
13,900.00	7,870.00	7,822.00	7,822.00	96.09	135.54	-90.00	-2,506.45	5,366.79	1,242.53	1,022.34	220.19	5.643		
14,000.00	7,870.00	7,822.00	7,822.00	96.84	135.54	-90.00	-2,506.45	5,366.79	1,279.71	1,056.02	223.69	5.721		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,822.00	7,822.00	97.64	135.54	-90.00	-2,506.45	5,366.79	1,323.42	1,096.56	226.85	5.834		
14,200.00	7,870.00	7,822.00	7,822.00	98.48	135.54	-90.00	-2,506.45	5,366.79	1,373.03	1,143.37	229.66	5.979		
14,300.00	7,870.00	7,822.00	7,822.00	99.37	135.54	-90.00	-2,506.45	5,366.79	1,427.93	1,195.82	232.11	6.152		
14,400.00	7,870.00	7,822.00	7,822.00	100.30	135.54	-90.00	-2,506.45	5,366.79	1,487.54	1,253.32	234.21	6.351		
14,500.00	7,870.00	7,822.00	7,822.00	101.26	135.54	-90.00	-2,506.45	5,366.79	1,551.30	1,315.29	236.01	6.573		
14,600.00	7,870.00	7,822.00	7,822.00	102.27	135.54	-90.00	-2,506.45	5,366.79	1,618.74	1,381.20	237.54	6.815		
14,700.00	7,870.00	7,822.00	7,822.00	103.31	135.54	-90.00	-2,506.45	5,366.79	1,689.40	1,450.58	238.82	7.074		
14,800.00	7,870.00	7,822.00	7,822.00	104.38	135.54	-90.00	-2,506.45	5,366.79	1,762.91	1,523.01	239.90	7.349		
14,900.00	7,870.00	7,822.00	7,822.00	105.49	135.54	-90.00	-2,506.45	5,366.79	1,838.92	1,598.12	240.80	7.637		
15,000.00	7,870.00	7,822.00	7,822.00	106.63	135.54	-90.00	-2,506.45	5,366.79	1,917.14	1,675.58	241.55	7.937		
15,100.00	7,870.00	7,822.00	7,822.00	107.80	135.54	-90.00	-2,506.45	5,366.79	1,997.30	1,755.11	242.18	8.247		
15,200.00	7,870.00	7,822.00	7,822.00	109.00	135.54	-90.00	-2,506.45	5,366.79	2,079.18	1,836.47	242.70	8.567		
15,300.00	7,870.00	7,822.00	7,822.00	110.22	135.54	-90.00	-2,506.45	5,366.79	2,162.58	1,919.44	243.13	8.895		
15,400.00	7,870.00	7,822.00	7,822.00	111.47	135.54	-90.00	-2,506.45	5,366.79	2,247.34	2,003.85	243.49	9.230		
15,500.00	7,870.00	7,822.00	7,822.00	112.74	135.54	-90.00	-2,506.45	5,366.79	2,333.30	2,089.52	243.78	9.571		
15,600.00	7,870.00	7,822.00	7,822.00	114.03	135.54	-90.00	-2,506.45	5,366.79	2,420.35	2,176.32	244.03	9.918		
15,700.00	7,870.00	7,822.00	7,822.00	115.34	135.54	-90.00	-2,506.45	5,366.79	2,508.36	2,264.13	244.22	10.271		
15,800.00	7,870.00	7,822.00	7,822.00	116.68	135.54	-90.00	-2,506.45	5,366.79	2,597.23	2,352.85	244.38	10.628		
15,900.00	7,870.00	7,822.00	7,822.00	118.02	135.54	-90.00	-2,506.45	5,366.79	2,686.89	2,442.38	244.51	10.989		
16,000.00	7,870.00	7,822.00	7,822.00	119.39	135.54	-90.00	-2,506.45	5,366.79	2,777.26	2,532.65	244.61	11.354		
16,100.00	7,870.00	7,822.00	7,822.00	120.77	135.54	-90.00	-2,506.45	5,366.79	2,868.27	2,623.57	244.69	11.722		
16,200.00	7,870.00	7,822.00	7,822.00	122.17	135.54	-90.00	-2,506.45	5,366.79	2,959.85	2,715.10	244.76	12.093		
16,300.00	7,870.00	7,822.00	7,822.00	123.58	135.54	-90.00	-2,506.45	5,366.79	3,051.97	2,807.17	244.80	12.467		
16,400.00	7,870.00	7,822.00	7,822.00	125.00	135.54	-90.00	-2,506.45	5,366.79	3,144.56	2,899.73	244.83	12.844		
16,500.00	7,870.00	7,822.00	7,822.00	126.43	135.54	-90.00	-2,506.45	5,366.79	3,237.60	2,992.75	244.85	13.223		
16,600.00	7,870.00	7,822.00	7,822.00	127.88	135.54	-90.00	-2,506.45	5,366.79	3,331.04	3,086.17	244.87	13.603		
16,700.00	7,870.00	7,822.00	7,822.00	129.34	135.54	-90.00	-2,506.45	5,366.79	3,424.85	3,179.98	244.87	13.986		
16,800.00	7,870.00	7,822.00	7,822.00	130.81	135.54	-90.00	-2,506.45	5,366.79	3,519.00	3,274.13	244.87	14.371		
16,900.00	7,870.00	7,822.00	7,822.00	132.28	135.54	-90.00	-2,506.45	5,366.79	3,613.47	3,368.61	244.86	14.757		
17,000.00	7,870.00	7,822.00	7,822.00	133.77	135.54	-90.00	-2,506.45	5,366.79	3,708.23	3,463.38	244.85	15.145		
17,100.00	7,870.00	7,822.00	7,822.00	135.27	135.54	-90.00	-2,506.45	5,366.79	3,803.25	3,558.42	244.83	15.534		
17,200.00	7,870.00	7,822.00	7,822.00	136.77	135.54	-90.00	-2,506.45	5,366.79	3,898.52	3,653.71	244.82	15.924		
17,300.00	7,870.00	7,822.00	7,822.00	138.28	135.54	-90.00	-2,506.45	5,366.79	3,994.03	3,749.23	244.79	16.316		
17,400.00	7,870.00	7,822.00	7,822.00	139.80	135.54	-90.00	-2,506.45	5,366.79	4,089.75	3,844.98	244.77	16.708		
17,500.00	7,870.00	7,822.00	7,822.00	141.33	135.54	-90.00	-2,506.45	5,366.79	4,185.67	3,940.92	244.75	17.102		
17,600.00	7,870.00	7,822.00	7,822.00	142.86	135.54	-90.00	-2,506.45	5,366.79	4,281.77	4,037.05	244.72	17.497		
17,700.00	7,870.00	7,822.00	7,822.00	144.40	135.54	-90.00	-2,506.45	5,366.79	4,378.06	4,133.36	244.69	17.892		
17,800.00	7,870.00	7,822.00	7,822.00	145.95	135.54	-90.00	-2,506.45	5,366.79	4,474.50	4,229.83	244.67	18.288		
17,900.00	7,870.00	7,822.00	7,822.00	147.50	135.54	-90.00	-2,506.45	5,366.79	4,571.10	4,326.46	244.64	18.685		
18,000.00	7,870.00	7,822.00	7,822.00	149.06	135.54	-90.00	-2,506.45	5,366.79	4,667.84	4,423.23	244.61	19.083		
18,100.00	7,870.00	7,822.00	7,822.00	150.63	135.54	-90.00	-2,506.45	5,366.79	4,764.71	4,520.13	244.58	19.481		
18,200.00	7,870.00	7,822.00	7,822.00	152.20	135.54	-90.00	-2,506.45	5,366.79	4,861.71	4,617.16	244.56	19.880		
18,300.00	7,870.00	7,822.00	7,822.00	153.77	135.54	-90.00	-2,506.45	5,366.79	4,958.83	4,714.30	244.53	20.279		
18,400.00	7,870.00	7,822.00	7,822.00	155.35	135.54	-90.00	-2,506.45	5,366.79	5,056.07	4,811.56	244.50	20.679		
18,500.00	7,870.00	7,822.00	7,822.00	156.93	135.54	-90.00	-2,506.45	5,366.79	5,153.40	4,908.93	244.47	21.080		
18,600.00	7,870.00	7,822.00	7,822.00	158.52	135.54	-90.00	-2,506.45	5,366.79	5,250.84	5,006.39	244.45	21.480		
18,700.00	7,870.00	7,822.00	7,822.00	160.11	135.54	-90.00	-2,506.45	5,366.79	5,348.38	5,103.95	244.42	21.882		
18,800.00	7,870.00	7,822.00	7,822.00	161.71	135.54	-90.00	-2,506.45	5,366.79	5,446.00	5,201.60	244.40	22.283		
18,900.00	7,870.00	7,822.00	7,822.00	163.31	135.54	-90.00	-2,506.45	5,366.79	5,543.71	5,299.33	244.37	22.685		
19,000.00	7,870.00	7,822.00	7,822.00	164.91	135.54	-90.00	-2,506.45	5,366.79	5,641.49	5,397.14	244.35	23.088		
19,100.00	7,870.00	7,822.00	7,822.00	166.52	135.54	-90.00	-2,506.45	5,366.79	5,739.36	5,495.03	244.33	23.490		
19,200.00	7,870.00	7,822.00	7,822.00	168.13	135.54	-90.00	-2,506.45	5,366.79	5,837.29	5,592.99	244.31	23.893		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	7,822.00	7,822.00	169.75	135.54	-90.00	-2,506.45	5,366.79	5,935.30	5,691.01	244.29	24.297	
19,383.51	7,870.00	7,822.00	7,822.00	171.10	135.54	-90.00	-2,506.45	5,366.79	6,017.19	5,772.92	244.27	24.634	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	143.75	-4,237.21	3,107.16	5,254.43					
100.00	100.00	74.00	74.00	0.13	0.61	143.75	-4,237.21	3,107.16	5,254.37	5,253.62	0.75	7,025.391		
200.00	200.00	174.00	174.00	0.49	2.12	143.75	-4,237.21	3,107.16	5,254.37	5,251.75	2.61	2,010.491		
300.00	300.00	274.00	274.00	0.85	3.87	143.75	-4,237.21	3,107.16	5,254.37	5,249.65	4.72	1,113.856		
400.00	400.00	374.00	374.00	1.21	5.61	143.75	-4,237.21	3,107.16	5,254.37	5,247.55	6.82	770.313		
500.00	500.00	474.00	474.00	1.57	7.36	143.75	-4,237.21	3,107.16	5,254.37	5,245.44	8.92	588.733		
600.00	600.00	574.00	574.00	1.93	9.10	143.75	-4,237.21	3,107.16	5,254.37	5,243.34	11.03	476.428		
700.00	699.98	673.98	673.98	2.28	10.85	79.95	-4,237.21	3,107.16	5,254.06	5,240.93	13.13	400.229		
800.00	799.84	773.84	773.84	2.64	12.59	80.03	-4,237.21	3,107.16	5,253.15	5,237.93	15.22	345.064		
900.00	899.45	873.45	873.45	3.00	14.33	80.15	-4,237.21	3,107.16	5,251.64	5,234.32	17.32	303.158		
1,000.00	998.70	972.70	972.70	3.37	16.06	80.32	-4,237.21	3,107.16	5,249.56	5,230.13	19.43	270.202		
1,100.00	1,097.47	1,071.47	1,071.47	3.76	17.78	80.54	-4,237.21	3,107.16	5,246.93	5,225.39	21.54	243.561		
1,200.00	1,195.62	1,169.62	1,169.62	4.18	19.50	80.80	-4,237.21	3,107.16	5,243.78	5,220.11	23.67	221.540		
1,300.00	1,293.06	1,267.06	1,267.06	4.63	21.20	81.11	-4,237.21	3,107.16	5,240.15	5,214.34	25.81	202.998		
1,400.00	1,389.64	1,363.64	1,363.64	5.11	22.88	81.46	-4,237.21	3,107.16	5,236.10	5,208.12	27.98	187.146		
1,500.00	1,485.27	1,459.27	1,459.27	5.63	24.55	81.85	-4,237.21	3,107.16	5,231.67	5,201.50	30.17	173.417		
1,600.00	1,579.82	1,553.82	1,553.82	6.20	26.20	82.28	-4,237.21	3,107.16	5,226.92	5,194.53	32.39	161.397		
1,700.00	1,673.17	1,647.17	1,647.17	6.83	27.83	82.74	-4,237.21	3,107.16	5,221.92	5,187.29	34.63	150.775		
1,800.00	1,765.21	1,739.21	1,739.21	7.51	29.44	83.24	-4,237.21	3,107.16	5,216.75	5,179.84	36.92	141.315		
1,900.00	1,855.84	1,829.84	1,829.84	8.24	31.02	83.76	-4,237.21	3,107.16	5,211.48	5,172.25	39.23	132.833		
2,000.00	1,944.94	1,918.94	1,918.94	9.05	32.58	84.31	-4,237.21	3,107.16	5,206.20	5,164.61	41.59	125.185		
2,100.00	2,032.39	2,006.39	2,006.39	9.91	34.10	84.88	-4,237.21	3,107.16	5,200.99	5,157.00	43.98	118.256		
2,200.00	2,118.11	2,107.89	2,107.89	10.85	35.87	85.47	-4,237.21	3,107.16	5,195.94	5,149.25	46.69	111.292		
2,300.00	2,201.97	2,175.97	2,175.97	11.85	37.06	86.07	-4,237.21	3,107.16	5,191.15	5,142.27	48.88	106.197		
2,400.00	2,283.88	2,257.88	2,257.88	12.93	38.49	86.67	-4,237.21	3,107.16	5,186.73	5,135.33	51.39	100.927		
2,429.47	2,307.63	2,281.63	2,281.63	13.26	38.91	86.85	-4,237.21	3,107.16	5,185.50	5,133.37	52.14	99.461		
2,500.00	2,364.26	2,338.26	2,338.26	14.06	39.89	87.22	-4,237.21	3,107.16	5,182.80	5,128.87	53.93	96.101		
2,600.00	2,444.56	2,418.56	2,418.56	15.22	41.30	87.75	-4,237.21	3,107.16	5,179.55	5,123.06	56.49	91.686		
2,700.00	2,524.85	2,501.15	2,498.85	16.39	42.74	88.28	-4,237.21	3,107.16	5,176.98	5,117.87	59.11	87.583		
2,800.00	2,605.14	2,579.14	2,579.14	17.57	44.10	88.81	-4,237.21	3,107.16	5,175.10	5,113.44	61.66	83.934		
2,900.00	2,685.43	2,659.43	2,659.43	18.76	45.50	89.34	-4,237.21	3,107.16	5,173.91	5,109.65	64.25	80.524		
3,000.00	2,765.73	2,739.73	2,739.73	19.96	46.90	89.87	-4,237.21	3,107.16	5,173.40	5,106.54	66.86	77.381		
3,024.04	2,785.03	2,759.03	2,759.03	20.25	47.24	90.00	-4,237.21	3,107.16	5,173.38	5,105.89	67.48	76.662		
3,100.00	2,846.02	2,820.02	2,820.02	21.16	48.30	90.40	-4,237.21	3,107.16	5,173.58	5,104.11	69.46	74.478		
3,200.00	2,926.31	2,900.31	2,900.31	22.37	49.70	90.93	-4,237.21	3,107.16	5,174.44	5,102.37	72.08	71.792		
3,300.00	3,006.60	2,980.60	2,980.60	23.59	51.11	91.46	-4,237.21	3,107.16	5,175.99	5,101.30	74.69	69.301		
3,400.00	3,086.90	3,060.90	3,060.90	24.81	52.51	91.99	-4,237.21	3,107.16	5,178.23	5,100.93	77.30	66.986		
3,500.00	3,167.19	3,141.19	3,141.19	26.03	53.91	92.52	-4,237.21	3,107.16	5,181.15	5,101.23	79.92	64.832		
3,600.00	3,247.48	3,221.48	3,221.48	27.25	55.31	93.05	-4,237.21	3,107.16	5,184.76	5,102.23	82.53	62.823		
3,700.00	3,327.77	3,301.77	3,301.77	28.48	56.71	93.58	-4,237.21	3,107.16	5,189.05	5,103.90	85.14	60.946		
3,800.00	3,408.07	3,382.07	3,382.07	29.71	58.11	94.11	-4,237.21	3,107.16	5,194.01	5,106.26	87.75	59.191		
3,900.00	3,488.36	3,462.36	3,462.36	30.94	59.51	94.63	-4,237.21	3,107.16	5,199.66	5,109.30	90.36	57.546		
4,000.00	3,568.65	3,542.65	3,542.65	32.17	60.91	95.16	-4,237.21	3,107.16	5,205.98	5,113.02	92.96	56.003		
4,100.00	3,648.95	3,622.95	3,622.95	33.41	62.32	95.68	-4,237.21	3,107.16	5,212.98	5,117.42	95.56	54.553		
4,200.00	3,729.24	3,703.24	3,703.24	34.64	63.72	96.21	-4,237.21	3,107.16	5,220.65	5,122.50	98.15	53.190		
4,300.00	3,809.53	3,783.53	3,783.53	35.88	65.12	96.73	-4,237.21	3,107.16	5,228.99	5,128.25	100.74	51.906		
4,400.00	3,889.82	3,863.82	3,863.82	37.12	66.52	97.25	-4,237.21	3,107.16	5,237.99	5,134.67	103.32	50.696		
4,500.00	3,970.12	3,944.12	3,944.12	38.36	67.92	97.78	-4,237.21	3,107.16	5,247.65	5,141.76	105.90	49.554		
4,600.00	4,050.41	4,024.41	4,024.41	39.60	69.32	98.30	-4,237.21	3,107.16	5,257.98	5,149.51	108.47	48.475		
4,700.00	4,130.70	4,104.70	4,104.70	40.84	70.72	98.81	-4,237.21	3,107.16	5,268.95	5,157.92	111.03	47.455		
4,800.00	4,210.99	4,184.99	4,184.99	42.08	72.13	99.33	-4,237.21	3,107.16	5,280.58	5,166.99	113.59	46.490		
4,900.00	4,291.29	4,265.29	4,265.29	43.32	73.53	99.85	-4,237.21	3,107.16	5,292.85	5,176.72	116.13	45.575		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,371.58	4,345.58	4,345.58	44.57	74.93	100.36	-4,237.21	3,107.16	5,305.76	5,187.09	118.67	44.709		
5,100.00	4,451.87	4,425.87	4,425.87	45.81	76.33	100.87	-4,237.21	3,107.16	5,319.31	5,198.11	121.21	43.887		
5,200.00	4,532.16	4,506.16	4,506.16	47.05	77.73	101.38	-4,237.21	3,107.16	5,333.49	5,209.77	123.73	43.107		
5,300.00	4,612.46	4,586.46	4,586.46	48.30	79.13	101.89	-4,237.21	3,107.16	5,348.30	5,222.06	126.24	42.365		
5,400.00	4,692.75	4,666.75	4,666.75	49.54	80.53	102.40	-4,237.21	3,107.16	5,363.73	5,234.99	128.75	41.661		
5,500.00	4,773.04	4,747.04	4,747.04	50.79	81.94	102.90	-4,237.21	3,107.16	5,379.78	5,248.54	131.24	40.991		
5,600.00	4,853.34	4,827.34	4,827.34	52.03	83.34	103.40	-4,237.21	3,107.16	5,396.44	5,262.71	133.73	40.354		
5,700.00	4,933.63	4,907.63	4,907.63	53.28	84.74	103.90	-4,237.21	3,107.16	5,413.70	5,277.49	136.21	39.747		
5,800.00	5,013.92	4,987.92	4,987.92	54.53	86.14	104.40	-4,237.21	3,107.16	5,431.56	5,292.89	138.67	39.169		
5,900.00	5,094.21	5,050.00	5,050.00	55.77	87.22	104.79	-4,237.21	3,107.16	5,450.04	5,309.24	140.80	38.707		
6,000.00	5,174.51	5,050.00	5,050.00	57.02	87.22	104.79	-4,237.21	3,107.16	5,469.94	5,328.15	141.80	38.576		
6,100.00	5,254.80	5,050.00	5,050.00	58.27	87.22	104.79	-4,237.21	3,107.16	5,491.59	5,348.84	142.75	38.471		
6,200.00	5,335.09	5,050.00	5,050.00	59.52	87.22	104.79	-4,237.21	3,107.16	5,514.97	5,371.31	143.66	38.390		
6,300.00	5,415.38	5,050.00	5,050.00	60.76	87.22	104.79	-4,237.21	3,107.16	5,540.05	5,395.53	144.52	38.333		
6,400.00	5,495.68	5,050.00	5,050.00	62.01	87.22	104.79	-4,237.21	3,107.16	5,566.82	5,421.47	145.35	38.299		
6,500.00	5,575.97	5,050.00	5,050.00	63.26	87.22	104.79	-4,237.21	3,107.16	5,595.24	5,449.11	146.14	38.288		
6,600.00	5,656.26	5,050.00	5,050.00	64.51	87.22	104.79	-4,237.21	3,107.16	5,625.30	5,478.42	146.88	38.299		
6,700.00	5,736.55	5,050.00	5,050.00	65.76	87.22	104.79	-4,237.21	3,107.16	5,656.97	5,509.39	147.58	38.330		
6,800.00	5,816.85	5,050.00	5,050.00	67.01	87.22	104.79	-4,237.21	3,107.16	5,690.22	5,541.97	148.25	38.383		
6,900.00	5,897.14	5,050.00	5,050.00	68.26	87.22	104.79	-4,237.21	3,107.16	5,725.03	5,576.15	148.88	38.455		
7,000.00	5,977.43	5,050.00	5,050.00	69.50	87.22	104.79	-4,237.21	3,107.16	5,761.36	5,611.89	149.47	38.546		
7,100.00	6,057.72	5,050.00	5,050.00	70.75	87.22	104.79	-4,237.21	3,107.16	5,799.18	5,649.17	150.02	38.657		
7,200.00	6,138.02	5,050.00	5,050.00	72.00	87.22	104.79	-4,237.21	3,107.16	5,838.48	5,687.94	150.53	38.785		
7,300.00	6,218.31	5,050.00	5,050.00	73.25	87.22	104.79	-4,237.21	3,107.16	5,879.21	5,728.19	151.02	38.931		
7,400.00	6,298.60	5,050.00	5,050.00	74.50	87.22	104.79	-4,237.21	3,107.16	5,921.35	5,769.89	151.46	39.094		
7,500.00	6,378.90	5,050.00	5,050.00	75.75	87.22	104.79	-4,237.21	3,107.16	5,964.87	5,812.99	151.88	39.274		
7,600.00	6,459.19	5,050.00	5,050.00	77.00	87.22	104.79	-4,237.21	3,107.16	6,009.74	5,857.48	152.26	39.469		
7,700.00	6,539.48	5,050.00	5,050.00	78.25	87.22	104.79	-4,237.21	3,107.16	6,055.93	5,903.31	152.62	39.681		
7,800.00	6,619.77	5,050.00	5,050.00	79.50	87.22	104.79	-4,237.21	3,107.16	6,103.41	5,950.47	152.94	39.907		
7,900.00	6,700.07	5,050.00	5,050.00	80.75	87.22	104.79	-4,237.21	3,107.16	6,152.15	5,998.91	153.24	40.148		
8,000.00	6,780.36	5,050.00	5,050.00	82.00	87.22	104.79	-4,237.21	3,107.16	6,202.11	6,048.60	153.51	40.403		
8,100.00	6,860.65	5,050.00	5,050.00	83.25	87.22	104.79	-4,237.21	3,107.16	6,253.28	6,099.53	153.75	40.672		
8,200.00	6,940.94	5,050.00	5,050.00	84.50	87.22	104.79	-4,237.21	3,107.16	6,305.61	6,151.65	153.97	40.954		
8,300.00	7,021.24	5,050.00	5,050.00	85.76	87.22	104.79	-4,237.21	3,107.16	6,359.09	6,204.93	154.16	41.249		
8,400.00	7,101.53	5,050.00	5,050.00	87.01	87.22	104.79	-4,237.21	3,107.16	6,413.69	6,259.35	154.34	41.556		
8,500.00	7,181.82	5,050.00	5,050.00	88.26	87.22	104.79	-4,237.21	3,107.16	6,469.36	6,314.87	154.49	41.876		
8,605.60	7,266.61	5,050.00	5,050.00	89.58	87.22	104.79	-4,237.21	3,107.16	6,529.30	6,374.68	154.63	42.226		
8,650.00	7,302.60	5,050.00	5,050.00	90.13	87.22	99.31	-4,237.21	3,107.16	6,553.43	6,398.76	154.68	42.368		
8,700.00	7,343.78	5,050.00	5,050.00	90.72	87.22	92.53	-4,237.21	3,107.16	6,577.36	6,422.63	154.72	42.510		
8,750.00	7,385.32	5,050.00	5,050.00	91.28	87.22	85.34	-4,237.21	3,107.16	6,597.70	6,442.94	154.76	42.632		
8,800.00	7,426.92	5,050.00	5,050.00	91.81	87.22	78.03	-4,237.21	3,107.16	6,614.33	6,459.56	154.78	42.735		
8,850.00	7,468.27	5,050.00	5,050.00	92.29	87.22	70.92	-4,237.21	3,107.16	6,627.17	6,472.40	154.77	42.818		
8,900.00	7,509.04	5,050.00	5,050.00	92.72	87.22	64.27	-4,237.21	3,107.16	6,636.13	6,481.39	154.75	42.883		
8,950.00	7,548.93	5,050.00	5,050.00	93.10	87.22	58.24	-4,237.21	3,107.16	6,641.17	6,486.47	154.70	42.930		
9,000.00	7,587.63	5,050.00	5,050.00	93.43	87.22	52.90	-4,237.21	3,107.16	6,642.25	6,487.62	154.62	42.958		
9,050.00	7,624.85	5,050.00	5,050.00	93.71	87.22	48.24	-4,237.21	3,107.16	6,639.36	6,484.84	154.52	42.969		
9,100.00	7,660.30	5,050.00	5,050.00	93.93	87.22	44.21	-4,237.21	3,107.16	6,632.52	6,478.14	154.38	42.962		
9,150.00	7,693.72	5,050.00	5,050.00	94.10	87.22	40.75	-4,237.21	3,107.16	6,621.78	6,467.56	154.22	42.936		
9,200.00	7,724.85	5,050.00	5,050.00	94.23	87.22	37.78	-4,237.21	3,107.16	6,607.20	6,453.16	154.04	42.892		
9,250.00	7,753.45	5,050.00	5,050.00	94.30	87.22	35.21	-4,237.21	3,107.16	6,588.85	6,435.02	153.84	42.830		
9,300.00	7,779.31	5,050.00	5,050.00	94.34	87.22	32.99	-4,237.21	3,107.16	6,566.86	6,413.25	153.61	42.750		
9,350.00	7,802.23	5,050.00	5,050.00	94.33	87.22	31.04	-4,237.21	3,107.16	6,541.35	6,387.98	153.37	42.651		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	5,050.00	5,050.00	94.28	87.22	29.30	-4,237.21	3,107.16	6,512.47	6,359.36	153.12	42.532		
9,450.00	7,838.57	5,050.00	5,050.00	94.20	87.22	27.73	-4,237.21	3,107.16	6,480.41	6,327.55	152.86	42.395		
9,500.00	7,851.72	5,050.00	5,050.00	94.10	87.22	26.26	-4,237.21	3,107.16	6,445.36	6,292.77	152.59	42.239		
9,550.00	7,861.37	5,050.00	5,050.00	93.96	87.22	24.81	-4,237.21	3,107.16	6,407.54	6,255.21	152.33	42.063		
9,600.00	7,867.46	5,050.00	5,050.00	93.81	87.22	23.29	-4,237.21	3,107.16	6,367.19	6,215.11	152.07	41.869		
9,650.00	7,869.94	5,050.00	5,050.00	93.64	87.22	21.56	-4,237.21	3,107.16	6,324.57	6,172.74	151.83	41.656		
9,659.14	7,870.00	5,050.00	5,050.00	93.60	87.22	21.20	-4,237.21	3,107.16	6,316.56	6,164.77	151.79	41.614		
9,700.00	7,870.00	5,050.00	5,050.00	93.46	87.22	21.20	-4,237.21	3,107.16	6,280.62	6,129.03	151.59	41.431		
9,800.00	7,870.00	5,050.00	5,050.00	93.11	87.22	21.20	-4,237.21	3,107.16	6,192.92	6,041.82	151.11	40.984		
9,900.00	7,870.00	5,050.00	5,050.00	92.77	87.22	21.20	-4,237.21	3,107.16	6,105.61	5,955.00	150.60	40.542		
10,000.00	7,870.00	5,050.00	5,050.00	92.46	87.22	21.20	-4,237.21	3,107.16	6,018.68	5,868.60	150.08	40.104		
10,100.00	7,870.00	5,050.00	5,050.00	92.16	87.22	21.20	-4,237.21	3,107.16	5,932.17	5,782.63	149.54	39.670		
10,200.00	7,870.00	5,050.00	5,050.00	91.87	87.22	21.20	-4,237.21	3,107.16	5,846.09	5,697.11	148.97	39.242		
10,300.00	7,870.00	5,050.00	5,050.00	91.60	87.22	21.20	-4,237.21	3,107.16	5,760.45	5,612.06	148.39	38.819		
10,400.00	7,870.00	5,050.00	5,050.00	91.34	87.22	21.20	-4,237.21	3,107.16	5,675.29	5,527.50	147.79	38.402		
10,500.00	7,870.00	5,050.00	5,050.00	91.11	87.22	21.20	-4,237.21	3,107.16	5,590.62	5,443.46	147.16	37.990		
10,600.00	7,870.00	5,050.00	5,050.00	90.88	87.22	21.20	-4,237.21	3,107.16	5,506.46	5,359.95	146.51	37.584		
10,700.00	7,870.00	5,050.00	5,050.00	90.67	87.22	21.20	-4,237.21	3,107.16	5,422.84	5,277.01	145.84	37.184		
10,800.00	7,870.00	5,050.00	5,050.00	90.48	87.22	21.20	-4,237.21	3,107.16	5,339.79	5,194.65	145.14	36.791		
10,900.00	7,870.00	5,050.00	5,050.00	90.31	87.22	21.20	-4,237.21	3,107.16	5,257.32	5,112.91	144.41	36.405		
11,000.00	7,870.00	5,050.00	5,050.00	90.15	87.22	21.20	-4,237.21	3,107.16	5,175.47	5,031.82	143.66	36.027		
11,100.00	7,870.00	5,050.00	5,050.00	90.00	87.22	21.20	-4,237.21	3,107.16	5,094.28	4,951.40	142.87	35.656		
11,200.00	7,870.00	5,050.00	5,050.00	89.88	87.22	21.20	-4,237.21	3,107.16	5,013.76	4,871.70	142.06	35.293		
11,300.00	7,870.00	5,050.00	5,050.00	89.77	87.22	21.20	-4,237.21	3,107.16	4,933.95	4,792.73	141.21	34.939		
11,400.00	7,870.00	5,050.00	5,050.00	89.68	87.22	21.20	-4,237.21	3,107.16	4,854.89	4,714.55	140.34	34.594		
11,500.00	7,870.00	5,050.00	5,050.00	89.60	87.22	21.20	-4,237.21	3,107.16	4,776.62	4,637.19	139.43	34.259		
11,600.00	7,870.00	5,050.00	5,050.00	89.55	87.22	21.20	-4,237.21	3,107.16	4,699.17	4,560.68	138.48	33.933		
11,700.00	7,870.00	5,050.00	5,050.00	89.52	87.22	21.20	-4,237.21	3,107.16	4,622.58	4,485.08	137.50	33.618		
11,800.00	7,870.00	5,050.00	5,050.00	89.50	87.22	21.20	-4,237.21	3,107.16	4,546.91	4,410.42	136.48	33.315		
11,900.00	7,870.00	5,050.00	5,050.00	89.51	87.22	21.20	-4,237.21	3,107.16	4,472.19	4,336.76	135.43	33.022		
12,000.00	7,870.00	5,050.00	5,050.00	89.54	87.22	21.20	-4,237.21	3,107.16	4,398.47	4,264.14	134.33	32.743		
12,100.00	7,870.00	5,050.00	5,050.00	89.59	87.22	21.20	-4,237.21	3,107.16	4,325.81	4,192.61	133.20	32.476		
12,200.00	7,870.00	5,050.00	5,050.00	89.66	87.22	21.20	-4,237.21	3,107.16	4,254.26	4,122.24	132.03	32.222		
12,300.00	7,870.00	5,050.00	5,050.00	89.77	87.22	21.20	-4,237.21	3,107.16	4,183.88	4,053.07	130.81	31.983		
12,400.00	7,870.00	5,050.00	5,050.00	89.89	87.22	21.20	-4,237.21	3,107.16	4,114.73	3,985.17	129.56	31.759		
12,500.00	7,870.00	5,050.00	5,050.00	90.05	87.22	21.20	-4,237.21	3,107.16	4,046.86	3,918.59	128.27	31.551		
12,600.00	7,870.00	5,050.00	5,050.00	90.24	87.22	21.20	-4,237.21	3,107.16	3,980.35	3,853.42	126.93	31.359		
12,700.00	7,870.00	5,050.00	5,050.00	90.46	87.22	21.20	-4,237.21	3,107.16	3,915.26	3,789.71	125.56	31.183		
12,800.00	7,870.00	5,050.00	5,050.00	90.71	87.22	21.20	-4,237.21	3,107.16	3,851.67	3,727.53	124.15	31.026		
12,900.00	7,870.00	5,050.00	5,050.00	90.99	87.22	21.20	-4,237.21	3,107.16	3,789.66	3,666.96	122.70	30.886		
13,000.00	7,870.00	5,050.00	5,050.00	91.32	87.22	21.20	-4,237.21	3,107.16	3,729.29	3,608.07	121.22	30.765		
13,100.00	7,870.00	5,050.00	5,050.00	91.68	87.22	21.20	-4,237.21	3,107.16	3,670.65	3,550.95	119.71	30.664		
13,200.00	7,870.00	5,050.00	5,050.00	92.08	87.22	21.20	-4,237.21	3,107.16	3,613.83	3,495.66	118.17	30.582		
13,300.00	7,870.00	5,050.00	5,050.00	92.52	87.22	21.20	-4,237.21	3,107.16	3,558.92	3,442.31	116.61	30.519		
13,400.00	7,870.00	5,050.00	5,050.00	93.00	87.22	21.20	-4,237.21	3,107.16	3,505.99	3,390.95	115.04	30.476		
13,500.00	7,870.00	5,050.00	5,050.00	93.53	87.22	21.20	-4,237.21	3,107.16	3,455.16	3,341.70	113.46	30.453		
13,600.00	7,870.00	5,050.00	5,050.00	94.10	87.22	21.20	-4,237.21	3,107.16	3,406.49	3,294.61	111.88	30.448		
13,700.00	7,870.00	5,050.00	5,050.00	94.72	87.22	21.20	-4,237.21	3,107.16	3,360.10	3,249.79	110.31	30.460		
13,800.00	7,870.00	5,050.00	5,050.00	95.38	87.22	21.20	-4,237.21	3,107.16	3,316.08	3,207.32	108.76	30.489		
13,900.00	7,870.00	5,050.00	5,050.00	96.09	87.22	21.20	-4,237.21	3,107.16	3,274.52	3,167.28	107.25	30.532		
14,000.00	7,870.00	5,050.00	5,050.00	96.84	87.22	21.20	-4,237.21	3,107.16	3,235.52	3,129.74	105.78	30.587		
14,100.00	7,870.00	5,050.00	5,050.00	97.64	87.22	21.20	-4,237.21	3,107.16	3,199.17	3,094.80	104.38	30.650		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,200.00	7,870.00	5,050.00	5,050.00	98.48	87.22	21.20	-4,237.21	3,107.16	3,165.57	3,062.51	103.06	30.717		
14,300.00	7,870.00	5,050.00	5,050.00	99.37	87.22	21.20	-4,237.21	3,107.16	3,134.79	3,032.96	101.83	30.784		
14,400.00	7,870.00	5,050.00	5,050.00	100.30	87.22	21.20	-4,237.21	3,107.16	3,106.93	3,006.20	100.73	30.844		
14,500.00	7,870.00	5,050.00	5,050.00	101.26	87.22	21.20	-4,237.21	3,107.16	3,082.06	2,982.30	99.77	30.893		
14,600.00	7,870.00	5,050.00	5,050.00	102.27	87.22	21.20	-4,237.21	3,107.16	3,060.27	2,961.30	98.97	30.922		
14,700.00	7,870.00	5,050.00	5,050.00	103.31	87.22	21.20	-4,237.21	3,107.16	3,041.60	2,943.25	98.35	30.927		
14,800.00	7,870.00	5,050.00	5,050.00	104.38	87.22	21.20	-4,237.21	3,107.16	3,026.12	2,928.19	97.94	30.899		
14,900.00	7,870.00	5,050.00	5,050.00	105.49	87.22	21.20	-4,237.21	3,107.16	3,013.89	2,916.14	97.75	30.834		
15,000.00	7,870.00	5,050.00	5,050.00	106.63	87.22	21.20	-4,237.21	3,107.16	3,004.94	2,907.14	97.80	30.727		
15,100.00	7,870.00	5,050.00	5,050.00	107.80	87.22	21.20	-4,237.21	3,107.16	2,999.29	2,901.20	98.09	30.576		
15,200.00	7,870.00	5,050.00	5,050.00	109.00	87.22	21.20	-4,237.21	3,107.16	2,996.97	2,898.33	98.64	30.381		
15,219.49	7,870.00	5,050.00	5,050.00	109.24	87.22	21.20	-4,237.21	3,107.16	2,996.91	2,898.13	98.78	30.339 CC, ES		
15,300.00	7,870.00	5,050.00	5,050.00	110.22	87.22	21.20	-4,237.21	3,107.16	2,997.99	2,898.54	99.45	30.146		
15,400.00	7,870.00	5,050.00	5,050.00	111.47	87.22	21.20	-4,237.21	3,107.16	3,002.34	2,901.84	100.50	29.875		
15,500.00	7,870.00	5,050.00	5,050.00	112.74	87.22	21.20	-4,237.21	3,107.16	3,010.01	2,908.23	101.77	29.576		
15,600.00	7,870.00	5,050.00	5,050.00	114.03	87.22	21.20	-4,237.21	3,107.16	3,020.97	2,917.71	103.26	29.256		
15,700.00	7,870.00	5,050.00	5,050.00	115.34	87.22	21.20	-4,237.21	3,107.16	3,035.19	2,930.26	104.93	28.926		
15,800.00	7,870.00	5,050.00	5,050.00	116.68	87.22	21.20	-4,237.21	3,107.16	3,052.61	2,945.86	106.76	28.594		
15,900.00	7,870.00	5,050.00	5,050.00	118.02	87.22	21.20	-4,237.21	3,107.16	3,073.20	2,964.49	108.71	28.269		
16,000.00	7,870.00	5,050.00	5,050.00	119.39	87.22	21.20	-4,237.21	3,107.16	3,096.88	2,986.11	110.77	27.957		
16,100.00	7,870.00	5,050.00	5,050.00	120.77	87.22	21.20	-4,237.21	3,107.16	3,123.58	3,010.68	112.90	27.666		
16,200.00	7,870.00	5,050.00	5,050.00	122.17	87.22	21.20	-4,237.21	3,107.16	3,153.23	3,038.15	115.09	27.399		
16,300.00	7,870.00	5,050.00	5,050.00	123.58	87.22	21.20	-4,237.21	3,107.16	3,185.74	3,068.45	117.29	27.160		
16,400.00	7,870.00	5,050.00	5,050.00	125.00	87.22	21.20	-4,237.21	3,107.16	3,221.04	3,101.52	119.51	26.952		
16,500.00	7,870.00	5,050.00	5,050.00	126.43	87.22	21.20	-4,237.21	3,107.16	3,259.01	3,137.30	121.72	26.775		
16,600.00	7,870.00	5,050.00	5,050.00	127.88	87.22	21.20	-4,237.21	3,107.16	3,299.59	3,175.69	123.90	26.631		
16,700.00	7,870.00	5,050.00	5,050.00	129.34	87.22	21.20	-4,237.21	3,107.16	3,342.66	3,216.61	126.05	26.519		
16,800.00	7,870.00	5,050.00	5,050.00	130.81	87.22	21.20	-4,237.21	3,107.16	3,388.14	3,259.99	128.15	26.440		
16,900.00	7,870.00	5,050.00	5,050.00	132.28	87.22	21.20	-4,237.21	3,107.16	3,435.93	3,305.74	130.19	26.392		
17,000.00	7,870.00	5,050.00	5,050.00	133.77	87.22	21.20	-4,237.21	3,107.16	3,485.93	3,353.75	132.17	26.374 SF		
17,100.00	7,870.00	5,050.00	5,050.00	135.27	87.22	21.20	-4,237.21	3,107.16	3,538.05	3,403.95	134.09	26.385		
17,200.00	7,870.00	5,050.00	5,050.00	136.77	87.22	21.20	-4,237.21	3,107.16	3,592.20	3,456.25	135.95	26.424		
17,300.00	7,870.00	5,050.00	5,050.00	138.28	87.22	21.20	-4,237.21	3,107.16	3,648.29	3,510.56	137.73	26.489		
17,400.00	7,870.00	5,050.00	5,050.00	139.80	87.22	21.20	-4,237.21	3,107.16	3,706.22	3,566.78	139.44	26.580		
17,500.00	7,870.00	5,050.00	5,050.00	141.33	87.22	21.20	-4,237.21	3,107.16	3,765.93	3,624.85	141.08	26.694		
17,600.00	7,870.00	5,050.00	5,050.00	142.86	87.22	21.20	-4,237.21	3,107.16	3,827.31	3,684.66	142.65	26.831		
17,700.00	7,870.00	5,050.00	5,050.00	144.40	87.22	21.20	-4,237.21	3,107.16	3,890.30	3,746.15	144.15	26.988		
17,800.00	7,870.00	5,050.00	5,050.00	145.95	87.22	21.20	-4,237.21	3,107.16	3,954.81	3,809.23	145.58	27.166		
17,900.00	7,870.00	5,050.00	5,050.00	147.50	87.22	21.20	-4,237.21	3,107.16	4,020.77	3,873.83	146.94	27.363		
18,000.00	7,870.00	5,050.00	5,050.00	149.06	87.22	21.20	-4,237.21	3,107.16	4,088.12	3,939.88	148.24	27.577		
18,100.00	7,870.00	5,050.00	5,050.00	150.63	87.22	21.20	-4,237.21	3,107.16	4,156.78	4,007.30	149.48	27.808		
18,200.00	7,870.00	5,050.00	5,050.00	152.20	87.22	21.20	-4,237.21	3,107.16	4,226.69	4,076.03	150.66	28.055		
18,300.00	7,870.00	5,050.00	5,050.00	153.77	87.22	21.20	-4,237.21	3,107.16	4,297.79	4,146.01	151.78	28.316		
18,400.00	7,870.00	5,050.00	5,050.00	155.35	87.22	21.20	-4,237.21	3,107.16	4,370.03	4,217.18	152.85	28.591		
18,500.00	7,870.00	5,050.00	5,050.00	156.93	87.22	21.20	-4,237.21	3,107.16	4,443.33	4,289.48	153.86	28.879		
18,600.00	7,870.00	5,050.00	5,050.00	158.52	87.22	21.20	-4,237.21	3,107.16	4,517.67	4,362.85	154.82	29.180		
18,700.00	7,870.00	5,050.00	5,050.00	160.11	87.22	21.20	-4,237.21	3,107.16	4,592.98	4,437.24	155.74	29.492		
18,800.00	7,870.00	5,050.00	5,050.00	161.71	87.22	21.20	-4,237.21	3,107.16	4,669.21	4,512.60	156.61	29.814		
18,900.00	7,870.00	5,050.00	5,050.00	163.31	87.22	21.20	-4,237.21	3,107.16	4,746.33	4,588.89	157.44	30.147		
19,000.00	7,870.00	5,050.00	5,050.00	164.91	87.22	21.20	-4,237.21	3,107.16	4,824.29	4,666.06	158.22	30.490		
19,100.00	7,870.00	5,050.00	5,050.00	166.52	87.22	21.20	-4,237.21	3,107.16	4,903.04	4,744.07	158.97	30.842		
19,200.00	7,870.00	5,050.00	5,050.00	168.13	87.22	21.20	-4,237.21	3,107.16	4,982.56	4,822.88	159.69	31.202		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,870.00	5,050.00	5,050.00	169.75	87.22	21.20	-4,237.21	3,107.16	5,062.81	4,902.45	160.36	31.571	
19,383.51	7,870.00	5,050.00	5,050.00	171.10	87.22	21.20	-4,237.21	3,107.16	5,130.35	4,969.45	160.90	31.884	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	157.12	-4,237.34	1,788.12	4,599.24					
100.00	100.00	76.00	76.00	0.13	0.62	157.12	-4,237.34	1,788.12	4,599.18	4,598.42	0.76	6,068.640		
200.00	200.00	176.00	176.00	0.49	2.15	157.12	-4,237.34	1,788.12	4,599.18	4,596.54	2.64	1,742.340		
300.00	300.00	276.00	276.00	0.85	3.89	157.12	-4,237.34	1,788.12	4,599.18	4,594.43	4.74	969.583		
400.00	400.00	376.00	376.00	1.21	5.64	157.12	-4,237.34	1,788.12	4,599.18	4,592.33	6.85	671.681		
500.00	500.00	476.00	476.00	1.57	7.38	157.12	-4,237.34	1,788.12	4,599.18	4,590.22	8.95	513.814		
600.00	600.00	576.00	576.00	1.93	9.13	157.12	-4,237.34	1,788.12	4,599.18	4,588.12	11.05	416.032		
700.00	699.98	675.98	675.98	2.28	10.87	93.32	-4,237.34	1,788.12	4,599.28	4,586.12	13.15	349.649		
800.00	799.84	775.84	775.84	2.64	12.62	93.38	-4,237.34	1,788.12	4,599.58	4,584.33	15.25	301.603		
900.00	899.45	875.45	875.45	3.00	14.35	93.48	-4,237.34	1,788.12	4,600.11	4,582.75	17.35	265.125		
1,000.00	998.70	974.70	974.70	3.37	16.09	93.61	-4,237.34	1,788.12	4,600.86	4,581.41	19.46	236.460		
1,100.00	1,097.47	1,073.47	1,073.47	3.76	17.81	93.78	-4,237.34	1,788.12	4,601.89	4,580.31	21.57	213.313		
1,200.00	1,195.62	1,171.62	1,171.62	4.18	19.52	93.99	-4,237.34	1,788.12	4,603.20	4,579.50	23.70	194.202		
1,300.00	1,293.06	1,269.06	1,269.06	4.63	21.22	94.23	-4,237.34	1,788.12	4,604.86	4,579.01	25.85	178.136		
1,400.00	1,389.64	1,365.64	1,365.64	5.11	22.91	94.50	-4,237.34	1,788.12	4,606.90	4,578.88	28.02	164.423		
1,500.00	1,485.27	1,461.27	1,461.27	5.63	24.58	94.80	-4,237.34	1,788.12	4,609.37	4,579.16	30.21	152.570		
1,600.00	1,579.82	1,555.82	1,555.82	6.20	26.23	95.12	-4,237.34	1,788.12	4,612.35	4,579.92	32.43	142.216		
1,700.00	1,673.17	1,649.17	1,649.17	6.83	27.86	95.46	-4,237.34	1,788.12	4,615.89	4,581.20	34.68	133.090		
1,800.00	1,765.21	1,741.21	1,741.21	7.51	29.46	95.82	-4,237.34	1,788.12	4,620.06	4,583.09	36.96	124.986		
1,900.00	1,855.84	1,831.84	1,831.84	8.24	31.05	96.20	-4,237.34	1,788.12	4,624.93	4,585.65	39.28	117.742		
2,000.00	1,944.94	1,920.94	1,920.94	9.05	32.60	96.58	-4,237.34	1,788.12	4,630.60	4,588.97	41.63	111.233		
2,100.00	2,032.39	2,008.39	2,008.39	9.91	34.13	96.97	-4,237.34	1,788.12	4,637.13	4,593.12	44.01	105.358		
2,200.00	2,118.11	2,105.89	2,105.89	10.85	35.83	97.37	-4,237.34	1,788.12	4,644.61	4,597.98	46.64	99.593		
2,300.00	2,201.97	2,177.97	2,177.97	11.85	37.09	97.76	-4,237.34	1,788.12	4,653.14	4,604.26	48.88	95.196		
2,400.00	2,283.88	2,259.88	2,259.88	12.93	38.52	98.14	-4,237.34	1,788.12	4,662.78	4,611.42	51.36	90.787		
2,429.47	2,307.63	2,283.63	2,283.63	13.26	38.93	98.25	-4,237.34	1,788.12	4,665.85	4,613.75	52.09	89.564		
2,500.00	2,364.26	2,340.26	2,340.26	14.06	39.92	98.66	-4,237.34	1,788.12	4,673.51	4,619.64	53.86	86.767		
2,600.00	2,444.56	2,420.56	2,420.56	15.22	41.32	99.25	-4,237.34	1,788.12	4,684.99	4,628.60	56.38	83.095		
2,700.00	2,524.85	2,500.85	2,500.85	16.39	42.72	99.83	-4,237.34	1,788.12	4,697.19	4,638.29	58.91	79.739		
2,800.00	2,605.14	2,581.14	2,581.14	17.57	44.12	100.41	-4,237.34	1,788.12	4,710.13	4,648.69	61.44	76.666		
2,900.00	2,685.43	2,661.43	2,661.43	18.76	45.53	100.98	-4,237.34	1,788.12	4,723.77	4,659.80	63.97	73.844		
3,000.00	2,765.73	2,741.73	2,741.73	19.96	46.93	101.56	-4,237.34	1,788.12	4,738.13	4,671.63	66.50	71.248		
3,100.00	2,846.02	2,822.02	2,822.02	21.16	48.33	102.13	-4,237.34	1,788.12	4,753.20	4,684.16	69.03	68.855		
3,200.00	2,926.31	2,902.31	2,902.31	22.37	49.73	102.70	-4,237.34	1,788.12	4,768.96	4,697.40	71.56	66.644		
3,300.00	3,006.60	2,982.60	2,982.60	23.59	51.13	103.27	-4,237.34	1,788.12	4,785.41	4,711.33	74.08	64.596		
3,400.00	3,086.90	3,062.90	3,062.90	24.81	52.53	103.83	-4,237.34	1,788.12	4,802.54	4,725.94	76.60	62.697		
3,500.00	3,167.19	3,143.19	3,143.19	26.03	53.93	104.39	-4,237.34	1,788.12	4,820.35	4,741.24	79.11	60.931		
3,600.00	3,247.48	3,223.48	3,223.48	27.25	55.34	104.95	-4,237.34	1,788.12	4,838.83	4,757.22	81.62	59.288		
3,700.00	3,327.77	3,303.77	3,303.77	28.48	56.74	105.51	-4,237.34	1,788.12	4,857.97	4,773.86	84.11	57.755		
3,800.00	3,408.07	3,384.07	3,384.07	29.71	58.14	106.06	-4,237.34	1,788.12	4,877.77	4,791.17	86.60	56.323		
3,900.00	3,488.36	3,464.36	3,464.36	30.94	59.54	106.61	-4,237.34	1,788.12	4,898.21	4,809.12	89.08	54.984		
4,000.00	3,568.65	3,544.65	3,544.65	32.17	60.94	107.16	-4,237.34	1,788.12	4,919.29	4,827.73	91.56	53.730		
4,100.00	3,648.95	3,624.95	3,624.95	33.41	62.34	107.70	-4,237.34	1,788.12	4,940.99	4,846.97	94.02	52.553		
4,200.00	3,729.24	3,705.24	3,705.24	34.64	63.74	108.24	-4,237.34	1,788.12	4,963.32	4,866.85	96.47	51.448		
4,300.00	3,809.53	3,785.53	3,785.53	35.88	65.14	108.78	-4,237.34	1,788.12	4,986.26	4,887.34	98.92	50.408		
4,400.00	3,889.82	3,865.82	3,865.82	37.12	66.55	109.31	-4,237.34	1,788.12	5,009.80	4,908.45	101.35	49.430		
4,500.00	3,970.12	3,946.12	3,946.12	38.36	67.95	109.84	-4,237.34	1,788.12	5,033.94	4,930.17	103.78	48.508		
4,600.00	4,050.41	4,026.41	4,026.41	39.60	69.35	110.37	-4,237.34	1,788.12	5,058.67	4,952.48	106.19	47.638		
4,700.00	4,130.70	4,106.70	4,106.70	40.84	70.75	110.89	-4,237.34	1,788.12	5,083.98	4,975.38	108.59	46.817		
4,800.00	4,210.99	4,186.99	4,186.99	42.08	72.15	111.41	-4,237.34	1,788.12	5,109.85	4,998.87	110.99	46.041		
4,900.00	4,291.29	4,267.29	4,267.29	43.32	73.55	111.93	-4,237.34	1,788.12	5,136.29	5,022.92	113.37	45.307		
5,000.00	4,371.58	4,347.58	4,347.58	44.57	74.95	112.44	-4,237.34	1,788.12	5,163.28	5,047.54	115.74	44.612		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,451.87	4,427.87	4,427.87	45.81	76.36	112.95	-4,237.34	1,788.12	5,190.81	5,072.72	118.10	43.953		
5,200.00	4,532.16	4,508.16	4,508.16	47.05	77.76	113.45	-4,237.34	1,788.12	5,218.88	5,098.44	120.45	43.329		
5,300.00	4,612.46	4,588.46	4,588.46	48.30	79.16	113.95	-4,237.34	1,788.12	5,247.48	5,124.69	122.79	42.736		
5,400.00	4,692.75	4,668.75	4,668.75	49.54	80.56	114.45	-4,237.34	1,788.12	5,276.60	5,151.48	125.12	42.174		
5,500.00	4,773.04	4,749.04	4,749.04	50.79	81.96	114.94	-4,237.34	1,788.12	5,306.22	5,178.79	127.43	41.639		
5,600.00	4,853.34	4,829.34	4,829.34	52.03	83.36	115.43	-4,237.34	1,788.12	5,336.35	5,206.61	129.74	41.131		
5,700.00	4,933.63	4,909.63	4,909.63	53.28	84.76	115.92	-4,237.34	1,788.12	5,366.97	5,234.93	132.04	40.648		
5,800.00	5,013.92	4,989.92	4,989.92	54.53	86.17	116.40	-4,237.34	1,788.12	5,398.07	5,263.75	134.32	40.188		
5,900.00	5,094.21	5,070.21	5,070.21	55.77	87.57	116.88	-4,237.34	1,788.12	5,429.65	5,293.06	136.60	39.750		
6,000.00	5,174.51	5,150.51	5,150.51	57.02	88.97	117.35	-4,237.34	1,788.12	5,461.70	5,322.84	138.86	39.333		
6,100.00	5,254.80	5,230.80	5,230.80	58.27	90.37	117.82	-4,237.34	1,788.12	5,494.21	5,353.10	141.11	38.935		
6,200.00	5,335.09	5,311.09	5,311.09	59.52	91.77	118.28	-4,237.34	1,788.12	5,527.17	5,383.81	143.36	38.555		
6,300.00	5,415.38	5,391.38	5,391.38	60.76	93.17	118.74	-4,237.34	1,788.12	5,560.57	5,414.98	145.59	38.193		
6,400.00	5,495.68	5,450.00	5,450.00	62.01	94.20	119.08	-4,237.34	1,788.12	5,594.45	5,447.04	147.42	37.950		
6,500.00	5,575.97	5,450.00	5,450.00	63.26	94.20	119.08	-4,237.34	1,788.12	5,629.60	5,481.46	148.15	38.000		
6,600.00	5,656.26	5,450.00	5,450.00	64.51	94.20	119.08	-4,237.34	1,788.12	5,666.30	5,517.46	148.83	38.071		
6,700.00	5,736.55	5,450.00	5,450.00	65.76	94.20	119.08	-4,237.34	1,788.12	5,704.51	5,555.03	149.48	38.162		
6,800.00	5,816.85	5,450.00	5,450.00	67.01	94.20	119.08	-4,237.34	1,788.12	5,744.21	5,594.12	150.09	38.272		
6,900.00	5,897.14	5,450.00	5,450.00	68.26	94.20	119.08	-4,237.34	1,788.12	5,785.36	5,634.70	150.66	38.400		
7,000.00	5,977.43	5,450.00	5,450.00	69.50	94.20	119.08	-4,237.34	1,788.12	5,827.95	5,676.75	151.19	38.546		
7,100.00	6,057.72	5,450.00	5,450.00	70.75	94.20	119.08	-4,237.34	1,788.12	5,871.92	5,720.23	151.69	38.709		
7,200.00	6,138.02	5,450.00	5,450.00	72.00	94.20	119.08	-4,237.34	1,788.12	5,917.26	5,765.10	152.16	38.890		
7,300.00	6,218.31	5,450.00	5,450.00	73.25	94.20	119.08	-4,237.34	1,788.12	5,963.93	5,811.35	152.58	39.086		
7,400.00	6,298.60	5,450.00	5,450.00	74.50	94.20	119.08	-4,237.34	1,788.12	6,011.90	5,858.92	152.98	39.298		
7,500.00	6,378.90	5,450.00	5,450.00	75.75	94.20	119.08	-4,237.34	1,788.12	6,061.15	5,907.80	153.35	39.525		
7,600.00	6,459.19	5,450.00	5,450.00	77.00	94.20	119.08	-4,237.34	1,788.12	6,111.63	5,957.94	153.68	39.767		
7,700.00	6,539.48	5,450.00	5,450.00	78.25	94.20	119.08	-4,237.34	1,788.12	6,163.32	6,009.33	153.99	40.024		
7,800.00	6,619.77	5,450.00	5,450.00	79.50	94.20	119.08	-4,237.34	1,788.12	6,216.19	6,061.92	154.27	40.293		
7,900.00	6,700.07	5,450.00	5,450.00	80.75	94.20	119.08	-4,237.34	1,788.12	6,270.21	6,115.68	154.53	40.577		
8,000.00	6,780.36	5,450.00	5,450.00	82.00	94.20	119.08	-4,237.34	1,788.12	6,325.35	6,170.59	154.76	40.873		
8,100.00	6,860.65	5,450.00	5,450.00	83.25	94.20	119.08	-4,237.34	1,788.12	6,381.58	6,226.62	154.96	41.182		
8,200.00	6,940.94	5,450.00	5,450.00	84.50	94.20	119.08	-4,237.34	1,788.12	6,438.87	6,283.72	155.14	41.502		
8,300.00	7,021.24	5,450.00	5,450.00	85.76	94.20	119.08	-4,237.34	1,788.12	6,497.20	6,341.89	155.31	41.835		
8,400.00	7,101.53	5,450.00	5,450.00	87.01	94.20	119.08	-4,237.34	1,788.12	6,556.53	6,401.08	155.45	42.178		
8,500.00	7,181.82	5,450.00	5,450.00	88.26	94.20	119.08	-4,237.34	1,788.12	6,616.84	6,461.27	155.57	42.533		
8,605.60	7,266.61	5,450.00	5,450.00	89.58	94.20	119.08	-4,237.34	1,788.12	6,681.56	6,525.88	155.68	42.919		
8,650.00	7,302.60	5,450.00	5,450.00	90.13	94.20	112.86	-4,237.34	1,788.12	6,707.72	6,552.00	155.72	43.076		
8,700.00	7,343.78	5,450.00	5,450.00	90.72	94.20	105.41	-4,237.34	1,788.12	6,734.03	6,578.26	155.77	43.231		
8,750.00	7,385.32	5,450.00	5,450.00	91.28	94.20	97.69	-4,237.34	1,788.12	6,756.85	6,601.03	155.82	43.364		
8,800.00	7,426.92	5,450.00	5,450.00	91.81	94.20	89.97	-4,237.34	1,788.12	6,776.04	6,620.18	155.86	43.476		
8,850.00	7,468.27	5,450.00	5,450.00	92.29	94.20	82.56	-4,237.34	1,788.12	6,791.49	6,635.60	155.89	43.566		
8,900.00	7,509.04	5,450.00	5,450.00	92.72	94.20	75.70	-4,237.34	1,788.12	6,803.10	6,647.19	155.91	43.635		
8,950.00	7,548.93	5,450.00	5,450.00	93.10	94.20	69.54	-4,237.34	1,788.12	6,810.81	6,654.89	155.91	43.683		
9,000.00	7,587.63	5,450.00	5,450.00	93.43	94.20	64.15	-4,237.34	1,788.12	6,814.57	6,658.67	155.90	43.711		
9,050.00	7,624.85	5,450.00	5,450.00	93.71	94.20	59.52	-4,237.34	1,788.12	6,814.36	6,658.49	155.87	43.719		
9,100.00	7,660.30	5,450.00	5,450.00	93.93	94.20	55.60	-4,237.34	1,788.12	6,810.17	6,654.36	155.81	43.708		
9,150.00	7,693.72	5,450.00	5,450.00	94.10	94.20	52.34	-4,237.34	1,788.12	6,802.05	6,646.31	155.74	43.676		
9,200.00	7,724.85	5,450.00	5,450.00	94.23	94.20	49.64	-4,237.34	1,788.12	6,790.03	6,634.38	155.64	43.626		
9,250.00	7,753.45	5,450.00	5,450.00	94.30	94.20	47.46	-4,237.34	1,788.12	6,774.18	6,618.65	155.53	43.555		
9,300.00	7,779.31	5,450.00	5,450.00	94.34	94.20	45.73	-4,237.34	1,788.12	6,754.60	6,599.19	155.40	43.465		
9,350.00	7,802.23	5,450.00	5,450.00	94.33	94.20	44.42	-4,237.34	1,788.12	6,731.40	6,576.14	155.26	43.356		
9,400.00	7,822.03	5,450.00	5,450.00	94.28	94.20	43.49	-4,237.34	1,788.12	6,704.73	6,549.62	155.11	43.227		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,450.00	7,838.57	5,450.00	5,450.00	94.20	94.20	42.93	-4,237.34	1,788.12	6,674.75	6,519.80	154.94	43.078		
9,500.00	7,851.72	5,450.00	5,450.00	94.10	94.20	42.75	-4,237.34	1,788.12	6,641.64	6,486.86	154.78	42.910		
9,550.00	7,861.37	5,450.00	5,450.00	93.96	94.20	42.96	-4,237.34	1,788.12	6,605.61	6,450.99	154.61	42.723		
9,600.00	7,867.46	5,450.00	5,450.00	93.81	94.20	43.61	-4,237.34	1,788.12	6,566.89	6,412.43	154.45	42.517		
9,650.00	7,869.94	5,450.00	5,450.00	93.64	94.20	44.80	-4,237.34	1,788.12	6,525.72	6,371.42	154.30	42.292		
9,659.14	7,870.00	5,450.00	5,450.00	93.60	94.20	45.08	-4,237.34	1,788.12	6,517.96	6,363.68	154.28	42.249		
9,700.00	7,870.00	5,450.00	5,450.00	93.46	94.20	45.08	-4,237.34	1,788.12	6,483.10	6,328.95	154.16	42.055		
9,800.00	7,870.00	5,450.00	5,450.00	93.11	94.20	45.08	-4,237.34	1,788.12	6,398.11	6,244.25	153.86	41.585		
9,900.00	7,870.00	5,450.00	5,450.00	92.77	94.20	45.08	-4,237.34	1,788.12	6,313.56	6,160.01	153.55	41.117		
10,000.00	7,870.00	5,450.00	5,450.00	92.46	94.20	45.08	-4,237.34	1,788.12	6,229.46	6,076.23	153.23	40.653		
10,100.00	7,870.00	5,450.00	5,450.00	92.16	94.20	45.08	-4,237.34	1,788.12	6,145.84	5,992.93	152.91	40.192		
10,200.00	7,870.00	5,450.00	5,450.00	91.87	94.20	45.08	-4,237.34	1,788.12	6,062.72	5,910.14	152.58	39.735		
10,300.00	7,870.00	5,450.00	5,450.00	91.60	94.20	45.08	-4,237.34	1,788.12	5,980.11	5,827.87	152.24	39.281		
10,400.00	7,870.00	5,450.00	5,450.00	91.34	94.20	45.08	-4,237.34	1,788.12	5,898.04	5,746.15	151.89	38.831		
10,500.00	7,870.00	5,450.00	5,450.00	91.11	94.20	45.08	-4,237.34	1,788.12	5,816.54	5,665.01	151.53	38.385		
10,600.00	7,870.00	5,450.00	5,450.00	90.88	94.20	45.08	-4,237.34	1,788.12	5,735.62	5,584.45	151.17	37.943		
10,700.00	7,870.00	5,450.00	5,450.00	90.67	94.20	45.08	-4,237.34	1,788.12	5,655.31	5,504.52	150.79	37.505		
10,800.00	7,870.00	5,450.00	5,450.00	90.48	94.20	45.08	-4,237.34	1,788.12	5,575.63	5,425.23	150.40	37.071		
10,900.00	7,870.00	5,450.00	5,450.00	90.31	94.20	45.08	-4,237.34	1,788.12	5,496.62	5,346.61	150.01	36.642		
11,000.00	7,870.00	5,450.00	5,450.00	90.15	94.20	45.08	-4,237.34	1,788.12	5,418.31	5,268.70	149.61	36.217		
11,100.00	7,870.00	5,450.00	5,450.00	90.00	94.20	45.08	-4,237.34	1,788.12	5,340.71	5,191.52	149.19	35.797		
11,200.00	7,870.00	5,450.00	5,450.00	89.88	94.20	45.08	-4,237.34	1,788.12	5,263.88	5,115.11	148.77	35.382		
11,300.00	7,870.00	5,450.00	5,450.00	89.77	94.20	45.08	-4,237.34	1,788.12	5,187.83	5,039.49	148.34	34.973		
11,400.00	7,870.00	5,450.00	5,450.00	89.68	94.20	45.08	-4,237.34	1,788.12	5,112.61	4,964.71	147.90	34.568		
11,500.00	7,870.00	5,450.00	5,450.00	89.60	94.20	45.08	-4,237.34	1,788.12	5,038.25	4,890.80	147.45	34.170		
11,600.00	7,870.00	5,450.00	5,450.00	89.55	94.20	45.08	-4,237.34	1,788.12	4,964.79	4,817.80	146.99	33.776		
11,700.00	7,870.00	5,450.00	5,450.00	89.52	94.20	45.08	-4,237.34	1,788.12	4,892.27	4,745.75	146.52	33.389		
11,800.00	7,870.00	5,450.00	5,450.00	89.50	94.20	45.08	-4,237.34	1,788.12	4,820.74	4,674.69	146.05	33.008		
11,900.00	7,870.00	5,450.00	5,450.00	89.51	94.20	45.08	-4,237.34	1,788.12	4,750.23	4,604.67	145.56	32.633		
12,000.00	7,870.00	5,450.00	5,450.00	89.54	94.20	45.08	-4,237.34	1,788.12	4,680.80	4,535.73	145.07	32.265		
12,100.00	7,870.00	5,450.00	5,450.00	89.59	94.20	45.08	-4,237.34	1,788.12	4,612.49	4,467.92	144.58	31.903		
12,200.00	7,870.00	5,450.00	5,450.00	89.66	94.20	45.08	-4,237.34	1,788.12	4,545.36	4,401.28	144.07	31.549		
12,300.00	7,870.00	5,450.00	5,450.00	89.77	94.20	45.08	-4,237.34	1,788.12	4,479.45	4,335.88	143.57	31.201		
12,400.00	7,870.00	5,450.00	5,450.00	89.89	94.20	45.08	-4,237.34	1,788.12	4,414.82	4,271.76	143.06	30.860		
12,500.00	7,870.00	5,450.00	5,450.00	90.05	94.20	45.08	-4,237.34	1,788.12	4,351.53	4,208.99	142.55	30.527		
12,600.00	7,870.00	5,450.00	5,450.00	90.24	94.20	45.08	-4,237.34	1,788.12	4,289.64	4,147.61	142.04	30.201		
12,700.00	7,870.00	5,450.00	5,450.00	90.46	94.20	45.08	-4,237.34	1,788.12	4,229.21	4,087.68	141.52	29.883		
12,800.00	7,870.00	5,450.00	5,450.00	90.71	94.20	45.08	-4,237.34	1,788.12	4,170.30	4,029.28	141.02	29.573		
12,900.00	7,870.00	5,450.00	5,450.00	90.99	94.20	45.08	-4,237.34	1,788.12	4,112.98	3,972.46	140.52	29.271		
13,000.00	7,870.00	5,450.00	5,450.00	91.32	94.20	45.08	-4,237.34	1,788.12	4,057.31	3,917.29	140.02	28.976		
13,100.00	7,870.00	5,450.00	5,450.00	91.68	94.20	45.08	-4,237.34	1,788.12	4,003.37	3,863.83	139.54	28.690		
13,200.00	7,870.00	5,450.00	5,450.00	92.08	94.20	45.08	-4,237.34	1,788.12	3,951.22	3,812.15	139.07	28.413		
13,300.00	7,870.00	5,450.00	5,450.00	92.52	94.20	45.08	-4,237.34	1,788.12	3,900.94	3,762.33	138.61	28.143		
13,400.00	7,870.00	5,450.00	5,450.00	93.00	94.20	45.08	-4,237.34	1,788.12	3,852.60	3,714.42	138.18	27.882		
13,500.00	7,870.00	5,450.00	5,450.00	93.53	94.20	45.08	-4,237.34	1,788.12	3,806.27	3,668.51	137.76	27.629		
13,600.00	7,870.00	5,450.00	5,450.00	94.10	94.20	45.08	-4,237.34	1,788.12	3,762.03	3,624.66	137.38	27.385		
13,700.00	7,870.00	5,450.00	5,450.00	94.72	94.20	45.08	-4,237.34	1,788.12	3,719.96	3,582.93	137.02	27.149		
13,800.00	7,870.00	5,450.00	5,450.00	95.38	94.20	45.08	-4,237.34	1,788.12	3,680.12	3,543.42	136.70	26.921		
13,900.00	7,870.00	5,450.00	5,450.00	96.09	94.20	45.08	-4,237.34	1,788.12	3,642.59	3,506.17	136.42	26.702		
14,000.00	7,870.00	5,450.00	5,450.00	96.84	94.20	45.08	-4,237.34	1,788.12	3,607.44	3,471.26	136.18	26.491		
14,100.00	7,870.00	5,450.00	5,450.00	97.64	94.20	45.08	-4,237.34	1,788.12	3,574.75	3,438.76	135.98	26.288		
14,200.00	7,870.00	5,450.00	5,450.00	98.48	94.20	45.08	-4,237.34	1,788.12	3,544.58	3,408.73	135.84	26.094		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,300.00	7,870.00	5,450.00	5,450.00	99.37	94.20	45.08	-4,237.34	1,788.12	3,516.99	3,381.24	135.75	25.908		
14,400.00	7,870.00	5,450.00	5,450.00	100.30	94.20	45.08	-4,237.34	1,788.12	3,492.05	3,356.33	135.72	25.730		
14,500.00	7,870.00	5,450.00	5,450.00	101.26	94.20	45.08	-4,237.34	1,788.12	3,469.81	3,334.06	135.75	25.561		
14,600.00	7,870.00	5,450.00	5,450.00	102.27	94.20	45.08	-4,237.34	1,788.12	3,450.33	3,314.49	135.84	25.401		
14,700.00	7,870.00	5,450.00	5,450.00	103.31	94.20	45.08	-4,237.34	1,788.12	3,433.65	3,297.66	135.99	25.249		
14,800.00	7,870.00	5,450.00	5,450.00	104.38	94.20	45.08	-4,237.34	1,788.12	3,419.81	3,283.60	136.21	25.106		
14,900.00	7,870.00	5,450.00	5,450.00	105.49	94.20	45.08	-4,237.34	1,788.12	3,408.86	3,272.36	136.50	24.973		
15,000.00	7,870.00	5,450.00	5,450.00	106.63	94.20	45.08	-4,237.34	1,788.12	3,400.81	3,263.95	136.86	24.849		
15,100.00	7,870.00	5,450.00	5,450.00	107.80	94.20	45.08	-4,237.34	1,788.12	3,395.69	3,258.41	137.28	24.735		
15,200.00	7,870.00	5,450.00	5,450.00	109.00	94.20	45.08	-4,237.34	1,788.12	3,393.51	3,255.74	137.77	24.632		
15,224.07	7,870.00	5,450.00	5,450.00	109.29	94.20	45.08	-4,237.34	1,788.12	3,393.42	3,255.52	137.90	24.608 CC, ES		
15,300.00	7,870.00	5,450.00	5,450.00	110.22	94.20	45.08	-4,237.34	1,788.12	3,394.27	3,255.95	138.32	24.539		
15,400.00	7,870.00	5,450.00	5,450.00	111.47	94.20	45.08	-4,237.34	1,788.12	3,397.98	3,259.05	138.93	24.458		
15,500.00	7,870.00	5,450.00	5,450.00	112.74	94.20	45.08	-4,237.34	1,788.12	3,404.62	3,265.03	139.60	24.389		
15,600.00	7,870.00	5,450.00	5,450.00	114.03	94.20	45.08	-4,237.34	1,788.12	3,414.18	3,273.87	140.31	24.333		
15,700.00	7,870.00	5,450.00	5,450.00	115.34	94.20	45.08	-4,237.34	1,788.12	3,426.63	3,285.56	141.08	24.289		
15,800.00	7,870.00	5,450.00	5,450.00	116.68	94.20	45.08	-4,237.34	1,788.12	3,441.95	3,300.07	141.88	24.259		
15,900.00	7,870.00	5,450.00	5,450.00	118.02	94.20	45.08	-4,237.34	1,788.12	3,460.08	3,317.36	142.72	24.243		
16,000.00	7,870.00	5,450.00	5,450.00	119.39	94.20	45.08	-4,237.34	1,788.12	3,481.00	3,337.41	143.59	24.242 SF		
16,100.00	7,870.00	5,450.00	5,450.00	120.77	94.20	45.08	-4,237.34	1,788.12	3,504.65	3,360.16	144.49	24.255		
16,200.00	7,870.00	5,450.00	5,450.00	122.17	94.20	45.08	-4,237.34	1,788.12	3,530.97	3,385.57	145.40	24.284		
16,300.00	7,870.00	5,450.00	5,450.00	123.58	94.20	45.08	-4,237.34	1,788.12	3,559.91	3,413.57	146.33	24.328		
16,400.00	7,870.00	5,450.00	5,450.00	125.00	94.20	45.08	-4,237.34	1,788.12	3,591.39	3,444.13	147.27	24.387		
16,500.00	7,870.00	5,450.00	5,450.00	126.43	94.20	45.08	-4,237.34	1,788.12	3,625.37	3,477.17	148.20	24.462		
16,600.00	7,870.00	5,450.00	5,450.00	127.88	94.20	45.08	-4,237.34	1,788.12	3,661.76	3,512.62	149.14	24.552		
16,700.00	7,870.00	5,450.00	5,450.00	129.34	94.20	45.08	-4,237.34	1,788.12	3,700.50	3,550.43	150.07	24.658		
16,800.00	7,870.00	5,450.00	5,450.00	130.81	94.20	45.08	-4,237.34	1,788.12	3,741.51	3,590.51	150.99	24.780		
16,900.00	7,870.00	5,450.00	5,450.00	132.28	94.20	45.08	-4,237.34	1,788.12	3,784.71	3,632.82	151.90	24.916		
17,000.00	7,870.00	5,450.00	5,450.00	133.77	94.20	45.08	-4,237.34	1,788.12	3,830.04	3,677.26	152.79	25.068		
17,100.00	7,870.00	5,450.00	5,450.00	135.27	94.20	45.08	-4,237.34	1,788.12	3,877.42	3,723.76	153.66	25.234		
17,200.00	7,870.00	5,450.00	5,450.00	136.77	94.20	45.08	-4,237.34	1,788.12	3,926.78	3,772.27	154.51	25.414		
17,300.00	7,870.00	5,450.00	5,450.00	138.28	94.20	45.08	-4,237.34	1,788.12	3,978.04	3,822.70	155.34	25.609		
17,400.00	7,870.00	5,450.00	5,450.00	139.80	94.20	45.08	-4,237.34	1,788.12	4,031.13	3,874.98	156.14	25.817		
17,500.00	7,870.00	5,450.00	5,450.00	141.33	94.20	45.08	-4,237.34	1,788.12	4,085.97	3,929.05	156.92	26.038		
17,600.00	7,870.00	5,450.00	5,450.00	142.86	94.20	45.08	-4,237.34	1,788.12	4,142.51	3,984.83	157.68	26.272		
17,700.00	7,870.00	5,450.00	5,450.00	144.40	94.20	45.08	-4,237.34	1,788.12	4,200.66	4,042.25	158.41	26.518		
17,800.00	7,870.00	5,450.00	5,450.00	145.95	94.20	45.08	-4,237.34	1,788.12	4,260.37	4,101.26	159.11	26.777		
17,900.00	7,870.00	5,450.00	5,450.00	147.50	94.20	45.08	-4,237.34	1,788.12	4,321.56	4,161.78	159.78	27.046		
18,000.00	7,870.00	5,450.00	5,450.00	149.06	94.20	45.08	-4,237.34	1,788.12	4,384.19	4,223.75	160.43	27.327		
18,100.00	7,870.00	5,450.00	5,450.00	150.63	94.20	45.08	-4,237.34	1,788.12	4,448.18	4,287.12	161.06	27.619		
18,200.00	7,870.00	5,450.00	5,450.00	152.20	94.20	45.08	-4,237.34	1,788.12	4,513.48	4,351.82	161.66	27.920		
18,300.00	7,870.00	5,450.00	5,450.00	153.77	94.20	45.08	-4,237.34	1,788.12	4,580.03	4,417.80	162.23	28.232		
18,400.00	7,870.00	5,450.00	5,450.00	155.35	94.20	45.08	-4,237.34	1,788.12	4,647.78	4,485.00	162.78	28.553		
18,500.00	7,870.00	5,450.00	5,450.00	156.93	94.20	45.08	-4,237.34	1,788.12	4,716.68	4,553.37	163.31	28.883		
18,600.00	7,870.00	5,450.00	5,450.00	158.52	94.20	45.08	-4,237.34	1,788.12	4,786.67	4,622.86	163.81	29.221		
18,700.00	7,870.00	5,450.00	5,450.00	160.11	94.20	45.08	-4,237.34	1,788.12	4,857.72	4,693.43	164.29	29.568		
18,800.00	7,870.00	5,450.00	5,450.00	161.71	94.20	45.08	-4,237.34	1,788.12	4,929.77	4,765.02	164.75	29.923		
18,900.00	7,870.00	5,450.00	5,450.00	163.31	94.20	45.08	-4,237.34	1,788.12	5,002.78	4,837.59	165.19	30.285		
19,000.00	7,870.00	5,450.00	5,450.00	164.91	94.20	45.08	-4,237.34	1,788.12	5,076.71	4,911.10	165.61	30.654		
19,100.00	7,870.00	5,450.00	5,450.00	166.52	94.20	45.08	-4,237.34	1,788.12	5,151.52	4,985.51	166.01	31.031		
19,200.00	7,870.00	5,450.00	5,450.00	168.13	94.20	45.08	-4,237.34	1,788.12	5,227.17	5,060.78	166.40	31.414		
19,300.00	7,870.00	5,450.00	5,450.00	169.75	94.20	45.08	-4,237.34	1,788.12	5,303.63	5,136.87	166.76	31.803		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,383.51	7,870.00	5,450.00	5,450.00	171.10	94.20	45.08	-4,237.34	1,788.12	5,368.08	5,201.02	167.06	32.133	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	155.15	-4,568.81	2,115.81	5,034.95					
100.00	100.00	71.96	71.96	0.13	0.12	155.15	-4,569.04	2,115.69	5,035.14	5,034.89	0.25	N/A		
200.00	200.00	167.27	167.27	0.49	0.40	155.16	-4,569.80	2,115.25	5,035.67	5,034.78	0.89	5,630.554		
300.00	300.00	286.89	286.88	0.85	0.83	155.17	-4,570.50	2,114.74	5,036.03	5,034.35	1.68	2,995.236		
400.00	400.00	382.06	382.05	1.21	1.17	155.17	-4,570.70	2,114.62	5,036.17	5,033.79	2.38	2,116.998		
500.00	500.00	483.96	483.96	1.57	1.53	155.17	-4,570.94	2,114.62	5,036.39	5,033.29	3.10	1,624.422		
600.00	600.00	614.71	614.70	1.93	2.00	155.18	-4,571.17	2,113.96	5,036.36	5,032.44	3.92	1,284.245		
700.00	699.98	780.32	780.29	2.28	2.57	91.43	-4,569.78	2,112.00	5,035.02	5,030.18	4.85	1,038.721		
800.00	799.84	874.68	874.63	2.64	2.89	91.52	-4,568.48	2,110.93	5,033.43	5,027.91	5.53	910.771		
900.00	899.45	974.86	974.80	3.00	3.24	91.65	-4,567.16	2,109.97	5,032.07	5,025.83	6.24	806.955		
1,000.00	998.70	1,110.32	1,110.23	3.37	3.71	91.88	-4,564.89	2,108.61	5,030.51	5,023.43	7.08	710.310		
1,100.00	1,097.47	1,179.90	1,179.80	3.76	3.96	92.03	-4,563.70	2,107.86	5,029.01	5,021.29	7.72	651.469		
1,200.00	1,195.62	1,270.55	1,270.44	4.18	4.28	92.25	-4,562.43	2,107.03	5,028.05	5,019.59	8.46	594.683		
1,300.00	1,293.06	1,357.41	1,357.29	4.63	4.58	92.49	-4,561.25	2,106.37	5,027.42	5,018.21	9.21	545.942		
1,365.20	1,356.13	1,410.53	1,410.40	4.94	4.77	92.65	-4,560.71	2,105.85	5,027.29	5,017.58	9.71	517.684		
1,400.00	1,389.64	1,437.95	1,437.82	5.11	4.87	92.73	-4,560.48	2,105.58	5,027.33	5,017.35	9.98	503.873		
1,500.00	1,485.27	1,518.43	1,518.30	5.63	5.16	92.99	-4,559.97	2,104.89	5,027.88	5,017.09	10.79	466.040		
1,600.00	1,579.82	1,607.55	1,607.41	6.20	5.47	93.31	-4,559.56	2,104.19	5,029.00	5,017.32	11.68	430.650		
1,700.00	1,673.17	1,709.39	1,709.24	6.83	5.84	93.70	-4,559.08	2,103.29	5,030.52	5,017.86	12.66	397.229		
1,800.00	1,765.21	1,779.87	1,779.72	7.51	6.09	93.97	-4,558.87	2,102.68	5,032.69	5,019.10	13.59	370.223		
1,900.00	1,855.84	1,865.45	1,865.30	8.24	6.39	94.33	-4,558.87	2,101.91	5,035.69	5,021.05	14.64	344.063		
2,000.00	1,944.94	1,954.12	1,953.97	9.05	6.71	94.73	-4,558.96	2,100.88	5,039.35	5,023.59	15.75	319.941		
2,100.00	2,032.39	2,051.04	2,050.88	9.91	7.06	95.18	-4,559.00	2,099.76	5,043.71	5,026.75	16.96	297.398		
2,200.00	2,118.11	2,144.78	2,144.61	10.85	7.39	95.64	-4,558.85	2,098.45	5,048.64	5,030.42	18.22	277.057		
2,300.00	2,201.97	2,229.82	2,229.64	11.85	7.70	96.06	-4,558.62	2,097.42	5,054.47	5,034.94	19.52	258.930		
2,400.00	2,283.88	2,316.85	2,316.67	12.93	8.01	96.50	-4,558.33	2,096.24	5,061.19	5,040.30	20.89	242.245		
2,429.47	2,307.63	2,339.18	2,338.99	13.26	8.09	96.60	-4,558.25	2,095.93	5,063.37	5,042.07	21.30	237.749		
2,500.00	2,364.26	2,392.43	2,392.23	14.06	8.28	96.97	-4,558.08	2,095.20	5,068.90	5,046.63	22.28	227.549		
2,600.00	2,444.56	2,482.50	2,482.29	15.22	8.60	97.58	-4,557.70	2,094.11	5,077.30	5,053.58	23.73	213.971		
2,700.00	2,524.85	2,569.42	2,569.21	16.39	8.91	98.17	-4,557.09	2,093.24	5,086.25	5,061.07	25.18	202.001		
2,800.00	2,605.14	2,670.84	2,670.62	17.57	9.28	98.85	-4,556.19	2,092.07	5,095.71	5,069.02	26.69	190.937		
2,900.00	2,685.43	2,749.47	2,749.24	18.76	9.56	99.38	-4,555.29	2,090.94	5,105.60	5,077.48	28.12	181.577		
3,000.00	2,765.73	2,818.44	2,818.20	19.96	9.81	99.85	-4,554.68	2,089.84	5,116.35	5,086.83	29.52	173.347		
3,100.00	2,846.02	2,892.52	2,892.26	21.16	10.07	100.35	-4,554.22	2,088.34	5,127.91	5,096.98	30.93	165.788		
3,200.00	2,926.31	2,965.78	2,965.50	22.37	10.33	100.85	-4,553.90	2,086.61	5,140.25	5,107.91	32.34	158.939		
3,300.00	3,006.60	3,037.09	3,036.79	23.59	10.59	101.33	-4,553.68	2,084.96	5,153.38	5,119.64	33.74	152.732		
3,400.00	3,086.90	3,109.44	3,109.12	24.81	10.85	101.82	-4,553.57	2,083.37	5,167.35	5,132.20	35.14	147.045		
3,500.00	3,167.19	3,206.49	3,206.15	26.03	11.20	102.47	-4,553.29	2,081.17	5,181.89	5,145.26	36.63	141.475		
3,600.00	3,247.48	3,278.12	3,277.76	27.25	11.46	102.95	-4,553.02	2,079.64	5,197.05	5,159.03	38.01	136.712		
3,700.00	3,327.77	3,352.72	3,352.34	28.48	11.72	103.44	-4,552.77	2,078.20	5,212.95	5,173.55	39.41	132.286		
3,800.00	3,408.07	3,425.17	3,424.78	29.71	11.99	103.92	-4,552.63	2,076.65	5,229.59	5,188.81	40.78	128.229		
3,900.00	3,488.36	3,493.55	3,493.14	30.94	12.23	104.37	-4,552.62	2,075.25	5,247.04	5,204.90	42.14	124.523		
4,000.00	3,568.65	3,577.11	3,576.68	32.17	12.53	104.92	-4,552.64	2,073.68	5,265.19	5,221.65	43.54	120.927		
4,100.00	3,648.95	3,653.43	3,653.00	33.41	12.80	105.42	-4,552.62	2,072.31	5,283.95	5,239.04	44.91	117.661		
4,200.00	3,729.24	3,732.72	3,732.27	34.64	13.09	105.93	-4,552.68	2,070.76	5,303.41	5,257.13	46.28	114.597		
4,300.00	3,809.53	3,819.66	3,819.19	35.88	13.40	106.50	-4,552.63	2,069.04	5,323.39	5,275.72	47.67	111.672		
4,400.00	3,889.82	3,895.80	3,895.32	37.12	13.68	106.99	-4,552.57	2,067.59	5,343.97	5,294.96	49.01	109.037		
4,500.00	3,970.12	3,970.09	3,969.60	38.36	13.94	107.46	-4,552.55	2,066.26	5,365.23	5,314.90	50.34	106.590		
4,600.00	4,050.41	4,064.86	4,064.35	39.60	14.28	108.06	-4,552.50	2,064.64	5,387.08	5,335.35	51.73	104.140		
4,700.00	4,130.70	4,170.37	4,169.85	40.84	14.66	108.73	-4,551.94	2,063.17	5,409.15	5,356.00	53.15	101.763		
4,800.00	4,210.99	4,272.31	4,271.78	42.08	15.02	109.36	-4,550.90	2,062.44	5,431.45	5,376.90	54.55	99.562		
4,900.00	4,291.29	4,347.26	4,346.73	43.32	15.28	109.81	-4,549.96	2,062.27	5,454.14	5,398.30	55.84	97.677		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,413.00	4,412.46	44.57	15.51	110.21	-4,549.30	2,062.22	5,477.58	5,420.50	57.08	95.966		
5,100.00	4,451.87	4,481.68	4,481.14	45.81	15.75	110.62	-4,548.78	2,062.14	5,501.75	5,443.44	58.32	94.339		
5,200.00	4,532.16	4,556.54	4,556.00	47.05	16.02	111.07	-4,548.34	2,061.86	5,526.60	5,467.02	59.58	92.765		
5,300.00	4,612.46	4,649.61	4,649.06	48.30	16.35	111.63	-4,547.79	2,061.07	5,551.98	5,491.08	60.90	91.173		
5,400.00	4,692.75	4,772.05	4,771.49	49.54	16.79	112.37	-4,546.39	2,059.10	5,577.45	5,515.14	62.32	89.501		
5,500.00	4,773.04	4,870.44	4,869.84	50.79	17.14	112.96	-4,544.65	2,057.32	5,602.95	5,539.32	63.63	88.050		
5,600.00	4,853.34	4,950.62	4,949.99	52.03	17.43	113.44	-4,543.12	2,055.87	5,628.87	5,564.00	64.87	86.771		
5,700.00	4,933.63	5,022.53	5,021.87	53.28	17.68	113.86	-4,541.79	2,054.57	5,655.37	5,589.31	66.06	85.604		
5,800.00	5,013.92	5,087.63	5,086.96	54.53	17.92	114.24	-4,540.73	2,053.33	5,682.56	5,615.34	67.22	84.535		
5,900.00	5,094.21	5,155.55	5,154.86	55.77	18.16	114.64	-4,539.79	2,051.94	5,710.46	5,642.08	68.38	83.512		
6,000.00	5,174.51	5,228.16	5,227.44	57.02	18.42	115.07	-4,538.90	2,050.33	5,739.00	5,669.45	69.54	82.525		
6,100.00	5,254.80	5,310.21	5,309.47	58.27	18.72	115.54	-4,537.92	2,048.54	5,768.05	5,697.32	70.73	81.546		
6,200.00	5,335.09	5,406.19	5,405.42	59.52	19.06	116.10	-4,536.60	2,046.41	5,797.46	5,725.49	71.97	80.555		
6,300.00	5,415.38	5,485.23	5,484.43	60.76	19.35	116.55	-4,535.40	2,044.59	5,827.25	5,754.13	73.13	79.687		
6,400.00	5,495.68	5,559.29	5,558.46	62.01	19.61	116.97	-4,534.31	2,042.95	5,857.55	5,783.29	74.25	78.886		
6,500.00	5,575.97	5,633.60	5,632.75	63.26	19.88	117.39	-4,533.32	2,041.64	5,888.39	5,813.02	75.37	78.124		
6,600.00	5,656.26	5,707.94	5,707.08	64.51	20.15	117.80	-4,532.40	2,040.42	5,919.75	5,843.27	76.48	77.401		
6,700.00	5,736.55	5,771.20	5,770.32	65.76	20.37	118.15	-4,531.77	2,039.54	5,951.72	5,874.18	77.53	76.762		
6,800.00	5,816.85	5,847.39	5,846.51	67.01	20.65	118.56	-4,531.20	2,038.73	5,984.29	5,905.65	78.63	76.105		
6,900.00	5,897.14	5,960.56	5,959.67	68.26	21.05	119.17	-4,530.11	2,037.37	6,017.15	5,937.28	79.87	75.334		
7,000.00	5,977.43	6,117.41	6,116.47	69.50	21.61	120.01	-4,526.85	2,035.65	6,049.44	5,968.16	81.28	74.431		
7,100.00	6,057.72	6,169.11	6,168.15	70.75	21.79	120.28	-4,525.60	2,034.95	6,081.98	5,999.73	82.24	73.950		
7,200.00	6,138.02	6,223.71	6,222.72	72.00	21.99	120.57	-4,524.46	2,033.70	6,115.30	6,032.09	83.21	73.491		
7,300.00	6,218.31	6,283.90	6,282.89	73.25	22.21	120.89	-4,523.42	2,032.38	6,149.32	6,065.13	84.19	73.040		
7,400.00	6,298.60	6,331.99	6,330.96	74.50	22.38	121.14	-4,522.78	2,031.40	6,184.05	6,098.94	85.11	72.660		
7,500.00	6,378.90	7,500.00	6,437.86	75.75	26.54	121.70	-4,521.76	2,028.89	6,219.60	6,129.55	90.05	69.071		
7,600.00	6,459.19	6,569.70	6,568.60	77.00	23.23	122.37	-4,519.29	2,027.41	6,254.43	6,166.93	87.51	71.472		
7,700.00	6,539.48	6,771.65	6,770.45	78.25	23.93	123.35	-4,513.53	2,028.11	6,288.68	6,199.66	89.03	70.638		
7,800.00	6,619.77	6,800.00	6,798.79	79.50	24.03	123.49	-4,512.47	2,028.34	6,322.78	6,232.94	89.84	70.377		
7,900.00	6,700.07	6,856.90	6,855.66	80.75	24.22	123.76	-4,510.71	2,028.83	6,357.60	6,266.84	90.76	70.050		
8,000.00	6,780.36	6,900.00	6,898.75	82.00	24.37	123.97	-4,509.89	2,029.22	6,393.49	6,301.89	91.61	69.792		
8,100.00	6,860.65	6,974.35	6,973.08	83.25	24.63	124.32	-4,508.56	2,029.17	6,430.06	6,337.49	92.58	69.456		
8,200.00	6,940.94	7,061.61	7,060.32	84.50	24.94	124.74	-4,506.59	2,028.21	6,466.80	6,373.21	93.59	69.099		
8,300.00	7,021.24	7,126.10	7,124.80	85.76	25.16	125.04	-4,505.41	2,028.55	6,503.90	6,409.40	94.50	68.823		
8,400.00	7,101.53	7,174.46	7,173.15	87.01	25.33	125.27	-4,504.72	2,028.71	6,541.67	6,446.34	95.34	68.618		
8,500.00	7,181.82	7,227.45	7,226.13	88.26	25.52	125.51	-4,504.16	2,028.58	6,580.14	6,483.96	96.18	68.415		
8,605.60	7,266.61	7,288.88	7,287.56	89.58	25.74	125.80	-4,503.62	2,028.02	6,621.41	6,524.33	97.08	68.203		
8,650.00	7,302.60	7,330.51	7,329.18	90.13	25.88	119.76	-4,503.28	2,027.45	6,637.38	6,539.85	97.54	68.049		
8,700.00	7,343.78	7,391.69	7,390.36	90.72	26.10	112.61	-4,502.63	2,026.64	6,651.57	6,553.44	98.13	67.784		
8,750.00	7,385.32	7,435.82	7,434.48	91.28	26.26	105.14	-4,502.07	2,026.03	6,661.67	6,563.02	98.65	67.527		
8,800.00	7,426.92	7,477.03	7,475.68	91.81	26.41	97.71	-4,501.50	2,025.31	6,667.70	6,568.53	99.17	67.237		
8,850.00	7,468.27	7,500.00	7,498.64	92.29	26.49	90.53	-4,501.16	2,024.85	6,669.65	6,570.05	99.60	66.965		
8,900.00	7,509.04	7,535.06	7,533.69	92.72	26.62	84.02	-4,500.74	2,024.23	6,667.55	6,567.47	100.08	66.623		
8,950.00	7,548.93	7,559.04	7,557.67	93.10	26.70	78.22	-4,500.56	2,023.94	6,661.48	6,560.98	100.50	66.283		
9,000.00	7,587.63	7,582.51	7,581.14	93.43	26.79	73.25	-4,500.47	2,023.75	6,651.46	6,550.56	100.91	65.918		
9,050.00	7,624.85	7,623.17	7,621.80	93.71	26.93	69.23	-4,500.45	2,023.60	6,637.57	6,536.19	101.38	65.475		
9,100.00	7,660.30	9,100.00	7,775.86	93.93	32.10	66.75	-4,498.59	2,023.56	6,619.17	6,512.21	106.97	61.880		
9,150.00	7,693.72	7,800.00	7,798.61	94.10	27.55	64.28	-4,498.17	2,023.65	6,597.09	6,494.40	102.69	64.243		
9,200.00	7,724.85	7,800.00	7,798.61	94.23	27.55	62.39	-4,498.17	2,023.65	6,571.60	6,468.68	102.92	63.854		
9,250.00	7,753.45	7,800.00	7,798.61	94.30	27.55	61.19	-4,498.17	2,023.65	6,542.91	6,439.79	103.12	63.449		
9,300.00	7,779.31	7,800.00	7,798.61	94.34	27.55	60.67	-4,498.17	2,023.65	6,511.20	6,407.90	103.30	63.031		
9,350.00	7,802.23	7,800.00	7,798.61	94.33	27.55	60.87	-4,498.17	2,023.65	6,476.66	6,373.20	103.46	62.601		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		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)						
9,400.00	7,822.03	7,800.00	7,798.61	94.28	27.55	61.84	-4,498.17	2,023.65	6,439.51	6,335.91	103.60	62.160		
9,450.00	7,838.57	7,800.00	7,798.61	94.20	27.55	63.72	-4,498.17	2,023.65	6,400.00	6,296.28	103.71	61.708		
9,500.00	7,851.72	7,800.00	7,798.61	94.10	27.55	66.72	-4,498.17	2,023.65	6,358.38	6,254.56	103.82	61.247		
9,550.00	7,861.37	7,800.00	7,798.61	93.96	27.55	71.14	-4,498.17	2,023.65	6,314.93	6,211.02	103.90	60.777		
9,600.00	7,867.46	7,800.00	7,798.61	93.81	27.55	77.48	-4,498.17	2,023.65	6,269.94	6,165.97	103.98	60.300		
9,650.00	7,869.94	7,800.00	7,798.61	93.64	27.55	86.35	-4,498.17	2,023.65	6,223.74	6,119.70	104.05	59.818		
9,659.14	7,870.00	7,800.00	7,798.61	93.60	27.55	88.30	-4,498.17	2,023.65	6,215.19	6,111.14	104.06	59.729		
9,700.00	7,870.00	7,800.00	7,798.61	93.46	27.55	88.30	-4,498.17	2,023.65	6,176.91	6,072.81	104.11	59.332		
9,800.00	7,870.00	7,800.00	7,798.61	93.11	27.55	88.30	-4,498.17	2,023.65	6,083.37	5,979.14	104.23	58.362		
9,900.00	7,870.00	7,800.00	7,798.61	92.77	27.55	88.30	-4,498.17	2,023.65	5,990.04	5,885.68	104.37	57.394		
10,000.00	7,870.00	7,800.00	7,798.61	92.46	27.55	88.30	-4,498.17	2,023.65	5,896.93	5,792.43	104.50	56.427		
10,100.00	7,870.00	7,800.00	7,798.61	92.16	27.55	88.30	-4,498.17	2,023.65	5,804.05	5,699.40	104.65	55.462		
10,200.00	7,870.00	7,800.00	7,798.61	91.87	27.55	88.30	-4,498.17	2,023.65	5,711.40	5,606.61	104.80	54.499		
10,300.00	7,870.00	7,800.00	7,798.61	91.60	27.55	88.30	-4,498.17	2,023.65	5,619.01	5,514.06	104.96	53.537		
10,400.00	7,870.00	7,800.00	7,798.61	91.34	27.55	88.30	-4,498.17	2,023.65	5,526.89	5,421.77	105.12	52.577		
10,500.00	7,870.00	7,800.00	7,798.61	91.11	27.55	88.30	-4,498.17	2,023.65	5,435.04	5,329.75	105.29	51.619		
10,600.00	7,870.00	7,800.00	7,798.61	90.88	27.55	88.30	-4,498.17	2,023.65	5,343.49	5,238.02	105.47	50.664		
10,700.00	7,870.00	7,800.00	7,798.61	90.67	27.55	88.30	-4,498.17	2,023.65	5,252.24	5,146.59	105.66	49.711		
10,800.00	7,870.00	7,800.00	7,798.61	90.48	27.55	88.30	-4,498.17	2,023.65	5,161.32	5,055.47	105.85	48.760		
10,900.00	7,870.00	7,800.00	7,798.61	90.31	27.55	88.30	-4,498.17	2,023.65	5,070.74	4,964.68	106.06	47.812		
11,000.00	7,870.00	7,800.00	7,798.61	90.15	27.55	88.30	-4,498.17	2,023.65	4,980.52	4,874.25	106.27	46.867		
11,100.00	7,870.00	7,800.00	7,798.61	90.00	27.55	88.30	-4,498.17	2,023.65	4,890.68	4,784.19	106.49	45.926		
11,200.00	7,870.00	7,800.00	7,798.61	89.88	27.55	88.30	-4,498.17	2,023.65	4,801.24	4,694.52	106.72	44.988		
11,300.00	7,870.00	7,800.00	7,798.61	89.77	27.55	88.30	-4,498.17	2,023.65	4,712.23	4,605.26	106.97	44.053		
11,400.00	7,870.00	7,800.00	7,798.61	89.68	27.55	88.30	-4,498.17	2,023.65	4,623.67	4,516.44	107.22	43.122		
11,500.00	7,870.00	7,800.00	7,798.61	89.60	27.55	88.30	-4,498.17	2,023.65	4,535.58	4,428.09	107.49	42.196		
11,600.00	7,870.00	7,800.00	7,798.61	89.55	27.55	88.30	-4,498.17	2,023.65	4,447.99	4,340.23	107.77	41.274		
11,700.00	7,870.00	7,800.00	7,798.61	89.52	27.55	88.30	-4,498.17	2,023.65	4,360.94	4,252.88	108.06	40.357		
11,800.00	7,870.00	7,800.00	7,798.61	89.50	27.55	88.30	-4,498.17	2,023.65	4,274.46	4,166.09	108.37	39.445		
11,900.00	7,870.00	7,800.00	7,798.61	89.51	27.55	88.30	-4,498.17	2,023.65	4,188.58	4,079.89	108.68	38.539		
12,000.00	7,870.00	7,800.00	7,798.61	89.54	27.55	88.30	-4,498.17	2,023.65	4,103.34	3,994.32	109.02	37.639		
12,100.00	7,870.00	7,800.00	7,798.61	89.59	27.55	88.30	-4,498.17	2,023.65	4,018.77	3,909.40	109.37	36.745		
12,200.00	7,870.00	7,800.00	7,798.61	89.66	27.55	88.30	-4,498.17	2,023.65	3,934.94	3,825.20	109.74	35.858		
12,300.00	7,870.00	7,800.00	7,798.61	89.77	27.55	88.30	-4,498.17	2,023.65	3,851.87	3,741.75	110.12	34.979		
12,400.00	7,870.00	7,800.00	7,798.61	89.89	27.55	88.30	-4,498.17	2,023.65	3,769.62	3,659.11	110.52	34.109		
12,500.00	7,870.00	7,800.00	7,798.61	90.05	27.55	88.30	-4,498.17	2,023.65	3,688.26	3,577.32	110.94	33.246		
12,600.00	7,870.00	7,800.00	7,798.61	90.24	27.55	88.30	-4,498.17	2,023.65	3,607.83	3,496.45	111.37	32.394		
12,700.00	7,870.00	7,800.00	7,798.61	90.46	27.55	88.30	-4,498.17	2,023.65	3,528.40	3,416.57	111.83	31.551		
12,800.00	7,870.00	7,800.00	7,798.61	90.71	27.55	88.30	-4,498.17	2,023.65	3,450.04	3,337.74	112.31	30.720		
12,900.00	7,870.00	7,800.00	7,798.61	90.99	27.55	88.30	-4,498.17	2,023.65	3,372.83	3,260.03	112.80	29.900		
13,000.00	7,870.00	7,800.00	7,798.61	91.32	27.55	88.30	-4,498.17	2,023.65	3,296.84	3,183.52	113.32	29.094		
13,100.00	7,870.00	7,800.00	7,798.61	91.68	27.55	88.30	-4,498.17	2,023.65	3,222.16	3,108.31	113.85	28.301		
13,200.00	7,870.00	7,800.00	7,798.61	92.08	27.55	88.30	-4,498.17	2,023.65	3,148.89	3,034.48	114.41	27.523		
13,300.00	7,870.00	7,800.00	7,798.61	92.52	27.55	88.30	-4,498.17	2,023.65	3,077.12	2,962.14	114.98	26.761		
13,400.00	7,870.00	7,800.00	7,798.61	93.00	27.55	88.30	-4,498.17	2,023.65	3,006.97	2,891.39	115.58	26.017		
13,500.00	7,870.00	7,800.00	7,798.61	93.53	27.55	88.30	-4,498.17	2,023.65	2,938.54	2,822.35	116.19	25.291		
13,600.00	7,870.00	7,800.00	7,798.61	94.10	27.55	88.30	-4,498.17	2,023.65	2,871.97	2,755.15	116.82	24.585		
13,700.00	7,870.00	7,800.00	7,798.61	94.72	27.55	88.30	-4,498.17	2,023.65	2,807.38	2,689.92	117.46	23.901		
13,800.00	7,870.00	7,800.00	7,798.61	95.38	27.55	88.30	-4,498.17	2,023.65	2,744.92	2,626.81	118.11	23.240		
13,900.00	7,870.00	7,800.00	7,798.61	96.09	27.55	88.30	-4,498.17	2,023.65	2,684.73	2,565.95	118.77	22.604		
14,000.00	7,870.00	7,800.00	7,798.61	96.84	27.55	88.30	-4,498.17	2,023.65	2,626.96	2,507.53	119.44	21.995		
14,100.00	7,870.00	7,800.00	7,798.61	97.64	27.55	88.30	-4,498.17	2,023.65	2,571.79	2,451.69	120.10	21.414		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,800.00	7,798.61	98.48	27.55	88.30	-4,498.17	2,023.65	2,519.38	2,398.63	120.76	20.863		
14,300.00	7,870.00	7,800.00	7,798.61	99.37	27.55	88.30	-4,498.17	2,023.65	2,469.91	2,348.51	121.40	20.345		
14,400.00	7,870.00	7,800.00	7,798.61	100.30	27.55	88.30	-4,498.17	2,023.65	2,423.56	2,301.54	122.02	19.862		
14,500.00	7,870.00	7,800.00	7,798.61	101.26	27.55	88.30	-4,498.17	2,023.65	2,380.51	2,257.89	122.62	19.414		
14,600.00	7,870.00	7,800.00	7,798.61	102.27	27.55	88.30	-4,498.17	2,023.65	2,340.94	2,217.76	123.18	19.005		
14,700.00	7,870.00	7,800.00	7,798.61	103.31	27.55	88.30	-4,498.17	2,023.65	2,305.03	2,181.35	123.69	18.636		
14,800.00	7,870.00	7,800.00	7,798.61	104.38	27.55	88.30	-4,498.17	2,023.65	2,272.96	2,148.82	124.14	18.309		
14,900.00	7,870.00	7,800.00	7,798.61	105.49	27.55	88.30	-4,498.17	2,023.65	2,244.89	2,120.35	124.54	18.026		
15,000.00	7,870.00	7,800.00	7,798.61	106.63	27.55	88.30	-4,498.17	2,023.65	2,220.97	2,096.11	124.86	17.788		
15,100.00	7,870.00	7,800.00	7,798.61	107.80	27.55	88.30	-4,498.17	2,023.65	2,201.34	2,076.24	125.10	17.597		
15,200.00	7,870.00	7,800.00	7,798.61	109.00	27.55	88.30	-4,498.17	2,023.65	2,186.11	2,060.86	125.25	17.454		
15,300.00	7,870.00	7,800.00	7,798.61	110.22	27.55	88.30	-4,498.17	2,023.65	2,175.37	2,050.06	125.31	17.360		
15,400.00	7,870.00	7,800.00	7,798.61	111.47	27.55	88.30	-4,498.17	2,023.65	2,169.20	2,043.93	125.27	17.316 SF		
15,484.11	7,870.00	7,800.00	7,798.61	112.54	27.55	88.30	-4,498.17	2,023.65	2,167.57	2,042.40	125.17	17.317 CC, ES		
15,500.00	7,870.00	7,800.00	7,798.61	112.74	27.55	88.30	-4,498.17	2,023.65	2,167.63	2,042.49	125.14	17.321		
15,600.00	7,870.00	7,800.00	7,798.61	114.03	27.55	88.30	-4,498.17	2,023.65	2,170.66	2,045.75	124.91	17.377		
15,700.00	7,870.00	7,800.00	7,798.61	115.34	27.55	88.30	-4,498.17	2,023.65	2,178.29	2,053.70	124.59	17.483		
15,800.00	7,870.00	7,800.00	7,798.61	116.68	27.55	88.30	-4,498.17	2,023.65	2,190.47	2,066.28	124.19	17.638		
15,900.00	7,870.00	7,800.00	7,798.61	118.02	27.55	88.30	-4,498.17	2,023.65	2,207.11	2,083.41	123.70	17.842		
16,000.00	7,870.00	7,800.00	7,798.61	119.39	27.55	88.30	-4,498.17	2,023.65	2,228.12	2,104.97	123.14	18.094		
16,100.00	7,870.00	7,800.00	7,798.61	120.77	27.55	88.30	-4,498.17	2,023.65	2,253.37	2,130.85	122.52	18.392		
16,200.00	7,870.00	7,800.00	7,798.61	122.17	27.55	88.30	-4,498.17	2,023.65	2,282.73	2,160.88	121.85	18.735		
16,300.00	7,870.00	7,800.00	7,798.61	123.58	27.55	88.30	-4,498.17	2,023.65	2,316.04	2,194.91	121.13	19.120		
16,400.00	7,870.00	7,800.00	7,798.61	125.00	27.55	88.30	-4,498.17	2,023.65	2,353.13	2,232.75	120.38	19.547		
16,500.00	7,870.00	7,800.00	7,798.61	126.43	27.55	88.30	-4,498.17	2,023.65	2,393.82	2,274.21	119.61	20.013		
16,600.00	7,870.00	7,800.00	7,798.61	127.88	27.55	88.30	-4,498.17	2,023.65	2,437.94	2,319.11	118.83	20.516		
16,700.00	7,870.00	7,800.00	7,798.61	129.34	27.55	88.30	-4,498.17	2,023.65	2,485.31	2,367.26	118.04	21.055		
16,800.00	7,870.00	7,800.00	7,798.61	130.81	27.55	88.30	-4,498.17	2,023.65	2,535.73	2,418.47	117.26	21.626		
16,900.00	7,870.00	7,800.00	7,798.61	132.28	27.55	88.30	-4,498.17	2,023.65	2,589.04	2,472.56	116.48	22.227		
17,000.00	7,870.00	7,800.00	7,798.61	133.77	27.55	88.30	-4,498.17	2,023.65	2,645.05	2,529.33	115.72	22.858		
17,100.00	7,870.00	7,800.00	7,798.61	135.27	27.55	88.30	-4,498.17	2,023.65	2,703.60	2,588.63	114.97	23.515		
17,200.00	7,870.00	7,800.00	7,798.61	136.77	27.55	88.30	-4,498.17	2,023.65	2,764.53	2,650.28	114.25	24.197		
17,300.00	7,870.00	7,800.00	7,798.61	138.28	27.55	88.30	-4,498.17	2,023.65	2,827.69	2,714.13	113.55	24.902		
17,400.00	7,870.00	7,800.00	7,798.61	139.80	27.55	88.30	-4,498.17	2,023.65	2,892.92	2,780.04	112.88	25.627		
17,500.00	7,870.00	7,800.00	7,798.61	141.33	27.55	88.30	-4,498.17	2,023.65	2,960.10	2,847.86	112.24	26.373		
17,600.00	7,870.00	7,800.00	7,798.61	142.86	27.55	88.30	-4,498.17	2,023.65	3,029.08	2,917.46	111.63	27.136		
17,700.00	7,870.00	7,800.00	7,798.61	144.40	27.55	88.30	-4,498.17	2,023.65	3,099.76	2,988.72	111.04	27.916		
17,800.00	7,870.00	7,800.00	7,798.61	145.95	27.55	88.30	-4,498.17	2,023.65	3,172.02	3,061.54	110.48	28.710		
17,900.00	7,870.00	7,800.00	7,798.61	147.50	27.55	88.30	-4,498.17	2,023.65	3,245.75	3,135.79	109.96	29.519		
18,000.00	7,870.00	7,800.00	7,798.61	149.06	27.55	88.30	-4,498.17	2,023.65	3,320.85	3,211.40	109.46	30.340		
18,100.00	7,870.00	7,800.00	7,798.61	150.63	27.55	88.30	-4,498.17	2,023.65	3,397.24	3,288.26	108.98	31.172		
18,200.00	7,870.00	7,800.00	7,798.61	152.20	27.55	88.30	-4,498.17	2,023.65	3,474.83	3,366.29	108.54	32.015		
18,300.00	7,870.00	7,800.00	7,798.61	153.77	27.55	88.30	-4,498.17	2,023.65	3,553.53	3,445.42	108.12	32.868		
18,400.00	7,870.00	7,800.00	7,798.61	155.35	27.55	88.30	-4,498.17	2,023.65	3,633.29	3,525.57	107.72	33.729		
18,500.00	7,870.00	7,800.00	7,798.61	156.93	27.55	88.30	-4,498.17	2,023.65	3,714.02	3,606.68	107.35	34.599		
18,600.00	7,870.00	7,800.00	7,798.61	158.52	27.55	88.30	-4,498.17	2,023.65	3,795.67	3,688.68	106.99	35.475		
18,700.00	7,870.00	7,800.00	7,798.61	160.11	27.55	88.30	-4,498.17	2,023.65	3,878.18	3,771.52	106.66	36.359		
18,800.00	7,870.00	7,800.00	7,798.61	161.71	27.55	88.30	-4,498.17	2,023.65	3,961.50	3,855.15	106.35	37.248		
18,900.00	7,870.00	7,800.00	7,798.61	163.31	27.55	88.30	-4,498.17	2,023.65	4,045.57	3,939.51	106.06	38.143		
19,000.00	7,870.00	7,802.24	7,800.85	164.91	27.56	88.36	-4,498.12	2,023.68	4,130.36	4,024.56	105.80	39.040		
19,100.00	7,870.00	7,799.93	7,798.54	166.52	27.55	88.30	-4,498.18	2,023.65	4,215.81	4,110.27	105.53	39.948		
19,200.00	7,870.00	7,797.68	7,796.29	168.13	27.55	88.24	-4,498.23	2,023.62	4,301.88	4,196.60	105.28	40.860		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,795.50	7,794.11	169.75	27.54	88.18	-4,498.29	2,023.59	4,388.55	4,283.50	105.05	41.775					
19,383.51	7,870.00	7,793.72	7,792.33	171.10	27.53	88.13	-4,498.34	2,023.56	4,461.35	4,356.48	104.87	42.542					

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	17.00	17.00	0.00	0.13	163.61	-7,180.03	2,111.83	7,484.16					
100.00	100.00	117.00	117.00	0.13	1.07	163.61	-7,180.03	2,111.83	7,484.16	7,482.95	1.21	6,196.496		
200.00	200.00	217.00	217.00	0.49	2.82	163.61	-7,180.03	2,111.83	7,484.16	7,480.85	3.31	2,259.979		
300.00	300.00	317.00	317.00	0.85	4.56	163.61	-7,180.03	2,111.83	7,484.16	7,478.75	5.42	1,382.013		
400.00	400.00	417.00	417.00	1.21	6.31	163.61	-7,180.03	2,111.83	7,484.16	7,476.64	7.52	995.339		
500.00	500.00	517.00	517.00	1.57	8.05	163.61	-7,180.03	2,111.83	7,484.16	7,474.54	9.62	777.736		
600.00	600.00	617.00	617.00	1.93	9.80	163.61	-7,180.03	2,111.83	7,484.16	7,472.43	11.73	638.210		
700.00	699.98	716.98	716.98	2.28	11.54	99.80	-7,180.03	2,111.83	7,484.46	7,470.63	13.83	541.332		
800.00	799.84	816.84	816.84	2.64	13.29	99.82	-7,180.03	2,111.83	7,485.35	7,469.43	15.92	470.105		
900.00	899.45	916.45	916.45	3.00	15.03	99.86	-7,180.03	2,111.83	7,486.85	7,468.82	18.02	415.401		
1,000.00	998.70	1,015.70	1,015.70	3.37	16.76	99.90	-7,180.03	2,111.83	7,488.95	7,468.82	20.13	372.034		
1,100.00	1,097.47	1,114.47	1,114.47	3.76	18.48	99.97	-7,180.03	2,111.83	7,491.68	7,469.44	22.25	336.770		
1,200.00	1,195.62	1,212.62	1,212.62	4.18	20.20	100.04	-7,180.03	2,111.83	7,495.06	7,470.69	24.37	307.494		
1,300.00	1,293.06	1,310.06	1,310.06	4.63	21.90	100.13	-7,180.03	2,111.83	7,499.10	7,472.58	26.52	282.768		
1,400.00	1,389.64	1,406.64	1,406.64	5.11	23.58	100.22	-7,180.03	2,111.83	7,503.83	7,475.14	28.69	261.582		
1,500.00	1,485.27	1,502.27	1,502.27	5.63	25.25	100.33	-7,180.03	2,111.83	7,509.27	7,478.40	30.88	243.208		
1,600.00	1,579.82	1,603.18	1,596.82	6.20	27.01	100.43	-7,180.03	2,111.83	7,515.47	7,482.26	33.20	226.349		
1,700.00	1,673.17	1,709.83	1,690.17	6.83	28.87	100.55	-7,180.03	2,111.83	7,522.44	7,486.76	35.68	210.832		
1,800.00	1,765.21	1,782.21	1,782.21	7.51	30.14	100.66	-7,180.03	2,111.83	7,530.23	7,492.62	37.61	200.208		
1,900.00	1,855.84	1,872.84	1,872.84	8.24	31.72	100.78	-7,180.03	2,111.83	7,538.88	7,498.96	39.92	188.853		
2,000.00	1,944.94	1,961.94	1,961.94	9.05	33.27	100.90	-7,180.03	2,111.83	7,548.42	7,506.16	42.26	178.622		
2,100.00	2,032.39	2,049.39	2,049.39	9.91	34.80	101.01	-7,180.03	2,111.83	7,558.89	7,514.26	44.63	169.361		
2,200.00	2,118.11	2,135.11	2,135.11	10.85	36.30	101.11	-7,180.03	2,111.83	7,570.34	7,523.31	47.04	160.944		
2,300.00	2,201.97	2,218.97	2,218.97	11.85	37.76	101.21	-7,180.03	2,111.83	7,582.82	7,533.34	49.47	153.268		
2,400.00	2,283.88	2,300.88	2,300.88	12.93	39.19	101.29	-7,180.03	2,111.83	7,596.35	7,544.41	51.94	146.247		
2,429.47	2,307.63	2,324.63	2,324.63	13.26	39.60	101.31	-7,180.03	2,111.83	7,600.55	7,547.88	52.67	144.294		
2,500.00	2,364.26	2,381.26	2,381.26	14.06	40.59	101.56	-7,180.03	2,111.83	7,610.82	7,556.39	54.43	139.818		
2,600.00	2,444.56	2,461.56	2,461.56	15.22	41.99	101.92	-7,180.03	2,111.83	7,625.76	7,568.82	56.94	133.923		
2,700.00	2,524.85	2,541.85	2,541.85	16.39	43.39	102.27	-7,180.03	2,111.83	7,641.13	7,581.67	59.46	128.511		
2,800.00	2,605.14	2,622.14	2,622.14	17.57	44.80	102.63	-7,180.03	2,111.83	7,656.94	7,594.95	61.98	123.533		
2,900.00	2,685.43	2,702.43	2,702.43	18.76	46.20	102.98	-7,180.03	2,111.83	7,673.17	7,608.66	64.51	118.942		
3,000.00	2,765.73	2,782.73	2,782.73	19.96	47.60	103.33	-7,180.03	2,111.83	7,689.84	7,622.79	67.04	114.700		
3,100.00	2,846.02	2,863.02	2,863.02	21.16	49.00	103.69	-7,180.03	2,111.83	7,706.92	7,637.35	69.58	110.770		
3,200.00	2,926.31	2,943.31	2,943.31	22.37	50.40	104.04	-7,180.03	2,111.83	7,724.44	7,652.33	72.11	107.122		
3,300.00	3,006.60	3,023.60	3,023.60	23.59	51.80	104.39	-7,180.03	2,111.83	7,742.37	7,667.72	74.64	103.728		
3,400.00	3,086.90	3,103.90	3,103.90	24.81	53.20	104.73	-7,180.03	2,111.83	7,760.71	7,683.54	77.17	100.564		
3,500.00	3,167.19	3,184.19	3,184.19	26.03	54.61	105.08	-7,180.03	2,111.83	7,779.47	7,699.77	79.70	97.610		
3,600.00	3,247.48	3,264.48	3,264.48	27.25	56.01	105.43	-7,180.03	2,111.83	7,798.64	7,716.42	82.23	94.845		
3,700.00	3,327.77	3,344.77	3,344.77	28.48	57.41	105.77	-7,180.03	2,111.83	7,818.22	7,733.47	84.75	92.253		
3,800.00	3,408.07	3,425.07	3,425.07	29.71	58.81	106.12	-7,180.03	2,111.83	7,838.20	7,750.94	87.27	89.819		
3,900.00	3,488.36	3,505.36	3,505.36	30.94	60.21	106.46	-7,180.03	2,111.83	7,858.59	7,768.81	89.78	87.531		
4,000.00	3,568.65	3,585.65	3,585.65	32.17	61.61	106.80	-7,180.03	2,111.83	7,879.37	7,787.08	92.29	85.375		
4,100.00	3,648.95	3,665.95	3,665.95	33.41	63.01	107.14	-7,180.03	2,111.83	7,900.55	7,805.75	94.80	83.342		
4,200.00	3,729.24	3,746.24	3,746.24	34.64	64.42	107.48	-7,180.03	2,111.83	7,922.12	7,824.82	97.30	81.421		
4,300.00	3,809.53	3,826.53	3,826.53	35.88	65.82	107.82	-7,180.03	2,111.83	7,944.08	7,844.28	99.79	79.605		
4,400.00	3,889.82	3,906.82	3,906.82	37.12	67.22	108.15	-7,180.03	2,111.83	7,966.42	7,864.13	102.28	77.885		
4,500.00	3,970.12	3,987.12	3,987.12	38.36	68.62	108.49	-7,180.03	2,111.83	7,989.14	7,884.37	104.77	76.254		
4,600.00	4,050.41	4,067.41	4,067.41	39.60	70.02	108.82	-7,180.03	2,111.83	8,012.25	7,905.00	107.25	74.707		
4,700.00	4,130.70	4,147.70	4,147.70	40.84	71.42	109.15	-7,180.03	2,111.83	8,035.73	7,926.01	109.72	73.236		
4,800.00	4,210.99	4,227.99	4,227.99	42.08	72.82	109.49	-7,180.03	2,111.83	8,059.58	7,947.39	112.19	71.837		
4,900.00	4,291.29	4,308.29	4,308.29	43.32	74.23	109.82	-7,180.03	2,111.83	8,083.80	7,969.15	114.65	70.506		
5,000.00	4,371.58	4,388.58	4,388.58	44.57	75.63	110.14	-7,180.03	2,111.83	8,108.39	7,991.28	117.11	69.237		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,468.87	4,468.87	45.81	77.03	110.47	-7,180.03	2,111.83	8,133.34	8,013.78	119.56	68.027		
5,200.00	4,532.16	4,549.16	4,549.16	47.05	78.43	110.80	-7,180.03	2,111.83	8,158.65	8,036.65	122.01	66.871		
5,300.00	4,612.46	4,629.46	4,629.46	48.30	79.83	111.12	-7,180.03	2,111.83	8,184.32	8,059.87	124.44	65.768		
5,400.00	4,692.75	4,709.75	4,709.75	49.54	81.23	111.44	-7,180.03	2,111.83	8,210.34	8,083.46	126.87	64.712		
5,500.00	4,773.04	4,809.96	4,790.04	50.79	82.98	111.77	-7,180.03	2,111.83	8,236.70	8,107.06	129.65	63.532		
5,600.00	4,853.34	4,870.34	4,870.34	52.03	84.03	112.09	-7,180.03	2,111.83	8,263.42	8,131.70	131.72	62.735		
5,700.00	4,933.63	4,950.63	4,950.63	53.28	85.44	112.40	-7,180.03	2,111.83	8,290.47	8,156.34	134.13	61.809		
5,800.00	5,013.92	5,030.92	5,030.92	54.53	86.84	112.72	-7,180.03	2,111.83	8,317.87	8,181.33	136.54	60.920		
5,900.00	5,094.21	5,111.21	5,111.21	55.77	88.24	113.04	-7,180.03	2,111.83	8,345.60	8,206.66	138.94	60.068		
6,000.00	5,174.51	5,208.49	5,191.51	57.02	89.94	113.35	-7,180.03	2,111.83	8,373.66	8,232.03	141.63	59.125		
6,100.00	5,254.80	5,271.80	5,271.80	58.27	91.04	113.66	-7,180.03	2,111.83	8,402.05	8,258.34	143.72	58.463		
6,200.00	5,335.09	5,352.09	5,352.09	59.52	92.44	113.97	-7,180.03	2,111.83	8,430.77	8,284.68	146.09	57.708		
6,300.00	5,415.38	5,432.38	5,432.38	60.76	93.84	114.28	-7,180.03	2,111.83	8,459.81	8,311.34	148.47	56.981		
6,400.00	5,495.68	5,512.68	5,512.68	62.01	95.25	114.59	-7,180.03	2,111.83	8,489.17	8,338.34	150.83	56.281		
6,500.00	5,575.97	5,607.03	5,592.97	63.26	96.89	114.90	-7,180.03	2,111.83	8,518.85	8,365.41	153.44	55.519		
6,600.00	5,656.26	5,673.26	5,673.26	64.51	98.05	115.20	-7,180.03	2,111.83	8,548.83	8,393.29	155.55	54.960		
6,700.00	5,736.55	5,753.55	5,753.55	65.76	99.45	115.51	-7,180.03	2,111.83	8,579.13	8,421.24	157.89	54.335		
6,800.00	5,816.85	5,833.85	5,833.85	67.01	100.85	115.81	-7,180.03	2,111.83	8,609.74	8,449.50	160.23	53.732		
6,900.00	5,897.14	5,914.14	5,914.14	68.26	102.25	116.11	-7,180.03	2,111.83	8,640.64	8,478.07	162.57	53.151		
7,000.00	5,977.43	6,005.57	5,994.43	69.50	103.85	116.41	-7,180.03	2,111.83	8,671.85	8,506.76	165.09	52.528		
7,100.00	6,057.72	6,074.72	6,074.72	70.75	105.06	116.71	-7,180.03	2,111.83	8,703.35	8,536.14	167.21	52.049		
7,200.00	6,138.02	6,155.02	6,155.02	72.00	106.46	117.00	-7,180.03	2,111.83	8,735.15	8,565.62	169.53	51.526		
7,300.00	6,218.31	6,235.31	6,235.31	73.25	107.86	117.30	-7,180.03	2,111.83	8,767.23	8,595.40	171.84	51.021		
7,400.00	6,298.60	6,315.60	6,315.60	74.50	109.26	117.59	-7,180.03	2,111.83	8,799.60	8,625.47	174.14	50.533		
7,500.00	6,378.90	6,404.10	6,395.90	75.75	110.80	117.88	-7,180.03	2,111.83	8,832.26	8,655.69	176.57	50.020		
7,600.00	6,459.19	6,476.19	6,476.19	77.00	112.06	118.17	-7,180.03	2,111.83	8,865.20	8,686.48	178.72	49.604		
7,700.00	6,539.48	6,556.48	6,556.48	78.25	113.46	118.46	-7,180.03	2,111.83	8,898.41	8,717.41	181.00	49.162		
7,800.00	6,619.77	6,636.77	6,636.77	79.50	114.86	118.75	-7,180.03	2,111.83	8,931.90	8,748.62	183.28	48.735		
7,900.00	6,700.07	6,717.07	6,717.07	80.75	116.27	119.03	-7,180.03	2,111.83	8,965.66	8,780.11	185.55	48.320		
8,000.00	6,780.36	6,802.64	6,797.36	82.00	117.76	119.31	-7,180.03	2,111.83	8,999.69	8,811.78	187.90	47.896		
8,100.00	6,860.65	6,877.65	6,877.65	83.25	119.07	119.60	-7,180.03	2,111.83	9,033.98	8,843.91	190.06	47.531		
8,200.00	6,940.94	6,957.94	6,957.94	84.50	120.47	119.88	-7,180.03	2,111.83	9,068.53	8,876.22	192.32	47.155		
8,300.00	7,021.24	7,038.24	7,038.24	85.76	121.87	120.16	-7,180.03	2,111.83	9,103.35	8,908.79	194.56	46.790		
8,400.00	7,101.53	7,118.53	7,118.53	87.01	123.27	120.43	-7,180.03	2,111.83	9,138.42	8,941.62	196.80	46.436		
8,500.00	7,181.82	7,201.18	7,198.82	88.26	124.72	120.71	-7,180.03	2,111.83	9,173.74	8,974.67	199.07	46.083		
8,605.60	7,266.61	7,283.61	7,283.61	89.58	126.15	121.00	-7,180.03	2,111.83	9,211.31	9,009.93	201.38	45.741		
8,650.00	7,302.60	7,319.60	7,319.60	90.13	126.78	115.06	-7,180.03	2,111.83	9,225.59	9,023.21	202.38	45.586		
8,700.00	7,343.78	7,360.78	7,360.78	90.72	127.50	107.91	-7,180.03	2,111.83	9,237.84	9,034.31	203.53	45.388		
8,750.00	7,385.32	7,402.32	7,402.32	91.28	128.23	100.49	-7,180.03	2,111.83	9,245.95	9,041.25	204.70	45.168		
8,800.00	7,426.92	7,443.92	7,443.92	91.81	128.95	93.08	-7,180.03	2,111.83	9,249.86	9,043.98	205.87	44.930		
8,850.00	7,468.27	7,485.27	7,485.27	92.29	129.67	85.99	-7,180.03	2,111.83	9,249.55	9,042.51	207.04	44.675		
8,900.00	7,509.04	7,526.04	7,526.04	92.72	130.39	79.47	-7,180.03	2,111.83	9,245.03	9,036.84	208.19	44.406		
8,950.00	7,548.93	7,565.93	7,565.93	93.10	131.08	73.68	-7,180.03	2,111.83	9,236.34	9,027.03	209.31	44.127		
9,000.00	7,587.63	7,604.63	7,604.63	93.43	131.76	68.71	-7,180.03	2,111.83	9,223.54	9,013.14	210.40	43.839		
9,050.00	7,624.85	7,641.85	7,641.85	93.71	132.41	64.56	-7,180.03	2,111.83	9,206.74	8,995.30	211.44	43.544		
9,100.00	7,660.30	7,677.30	7,677.30	93.93	133.03	61.19	-7,180.03	2,111.83	9,186.05	8,973.63	212.42	43.245		
9,150.00	7,693.72	7,710.72	7,710.72	94.10	133.61	58.56	-7,180.03	2,111.83	9,161.64	8,948.29	213.34	42.943		
9,200.00	7,724.85	7,741.85	7,741.85	94.23	134.15	56.62	-7,180.03	2,111.83	9,133.67	8,919.47	214.20	42.641		
9,250.00	7,753.45	7,770.45	7,770.45	94.30	134.65	55.36	-7,180.03	2,111.83	9,102.37	8,887.38	214.99	42.339		
9,300.00	7,779.31	7,803.69	7,796.31	94.34	135.23	54.76	-7,180.03	2,111.83	9,067.95	8,852.13	215.82	42.015		
9,350.00	7,802.23	7,819.23	7,819.23	94.33	135.50	54.87	-7,180.03	2,111.83	9,030.68	8,814.35	216.33	41.746		
9,400.00	7,822.03	7,839.03	7,839.03	94.28	135.85	55.79	-7,180.03	2,111.83	8,990.81	8,773.94	216.88	41.456		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,450.00	7,838.57	7,855.57	7,855.57	94.20	136.14	57.70	-7,180.03	2,111.83	8,948.66	8,731.32	217.34	41.173		
9,500.00	7,851.72	7,868.72	7,868.72	94.10	136.37	60.93	-7,180.03	2,111.83	8,904.51	8,686.79	217.72	40.898		
9,550.00	7,861.37	7,878.37	7,878.37	93.96	136.53	66.08	-7,180.03	2,111.83	8,858.71	8,640.69	218.02	40.632		
9,600.00	7,867.46	7,884.46	7,884.46	93.81	136.64	74.19	-7,180.03	2,111.83	8,811.58	8,593.34	218.24	40.376		
9,650.00	7,869.94	7,886.94	7,886.94	93.64	136.68	86.99	-7,180.03	2,111.83	8,763.47	8,545.10	218.37	40.131		
9,659.14	7,870.00	7,887.00	7,887.00	93.60	136.69	90.00	-7,180.03	2,111.83	8,754.61	8,536.22	218.39	40.088		
9,700.00	7,870.00	7,887.00	7,887.00	93.46	136.69	90.00	-7,180.03	2,111.83	8,714.91	8,496.46	218.45	39.894		
9,800.00	7,870.00	7,887.00	7,887.00	93.11	136.69	90.00	-7,180.03	2,111.83	8,617.80	8,399.19	218.61	39.421		
9,900.00	7,870.00	7,887.00	7,887.00	92.77	136.69	90.00	-7,180.03	2,111.83	8,520.76	8,301.99	218.77	38.948		
10,000.00	7,870.00	7,887.00	7,887.00	92.46	136.69	90.00	-7,180.03	2,111.83	8,423.79	8,204.85	218.94	38.475		
10,100.00	7,870.00	7,887.00	7,887.00	92.16	136.69	90.00	-7,180.03	2,111.83	8,326.89	8,107.77	219.12	38.002		
10,200.00	7,870.00	7,887.00	7,887.00	91.87	136.69	90.00	-7,180.03	2,111.83	8,230.06	8,010.77	219.29	37.530		
10,300.00	7,870.00	7,887.00	7,887.00	91.60	136.69	90.00	-7,180.03	2,111.83	8,133.32	7,913.84	219.48	37.057		
10,400.00	7,870.00	7,887.00	7,887.00	91.34	136.69	90.00	-7,180.03	2,111.83	8,036.65	7,816.98	219.67	36.585		
10,500.00	7,870.00	7,887.00	7,887.00	91.11	136.69	90.00	-7,180.03	2,111.83	7,940.06	7,720.19	219.87	36.113		
10,600.00	7,870.00	7,887.00	7,887.00	90.88	136.69	90.00	-7,180.03	2,111.83	7,843.56	7,623.49	220.07	35.641		
10,700.00	7,870.00	7,887.00	7,887.00	90.67	136.69	90.00	-7,180.03	2,111.83	7,747.15	7,526.87	220.28	35.170		
10,800.00	7,870.00	7,887.00	7,887.00	90.48	136.69	90.00	-7,180.03	2,111.83	7,650.83	7,430.33	220.50	34.698		
10,900.00	7,870.00	7,887.00	7,887.00	90.31	136.69	90.00	-7,180.03	2,111.83	7,554.60	7,333.88	220.72	34.227		
11,000.00	7,870.00	7,887.00	7,887.00	90.15	136.69	90.00	-7,180.03	2,111.83	7,458.48	7,237.53	220.95	33.757		
11,100.00	7,870.00	7,887.00	7,887.00	90.00	136.69	90.00	-7,180.03	2,111.83	7,362.46	7,141.27	221.19	33.286		
11,200.00	7,870.00	7,887.00	7,887.00	89.88	136.69	90.00	-7,180.03	2,111.83	7,266.54	7,045.11	221.43	32.816		
11,300.00	7,870.00	7,887.00	7,887.00	89.77	136.69	90.00	-7,180.03	2,111.83	7,170.74	6,949.05	221.69	32.346		
11,400.00	7,870.00	7,887.00	7,887.00	89.68	136.69	90.00	-7,180.03	2,111.83	7,075.05	6,853.11	221.95	31.877		
11,500.00	7,870.00	7,887.00	7,887.00	89.60	136.69	90.00	-7,180.03	2,111.83	6,979.49	6,757.27	222.22	31.408		
11,600.00	7,870.00	7,887.00	7,887.00	89.55	136.69	90.00	-7,180.03	2,111.83	6,884.05	6,661.55	222.50	30.940		
11,700.00	7,870.00	7,887.00	7,887.00	89.52	136.69	90.00	-7,180.03	2,111.83	6,788.74	6,565.95	222.79	30.472		
11,800.00	7,870.00	7,887.00	7,887.00	89.50	136.69	90.00	-7,180.03	2,111.83	6,693.57	6,470.48	223.09	30.004		
11,900.00	7,870.00	7,887.00	7,887.00	89.51	136.69	90.00	-7,180.03	2,111.83	6,598.54	6,375.14	223.40	29.537		
12,000.00	7,870.00	7,887.00	7,887.00	89.54	136.69	90.00	-7,180.03	2,111.83	6,503.66	6,279.94	223.72	29.071		
12,100.00	7,870.00	7,887.00	7,887.00	89.59	136.69	90.00	-7,180.03	2,111.83	6,408.94	6,184.89	224.05	28.605		
12,200.00	7,870.00	7,887.00	7,887.00	89.66	136.69	90.00	-7,180.03	2,111.83	6,314.38	6,089.98	224.39	28.140		
12,300.00	7,870.00	7,887.00	7,887.00	89.77	136.69	90.00	-7,180.03	2,111.83	6,219.98	5,995.24	224.75	27.675		
12,400.00	7,870.00	7,887.00	7,887.00	89.89	136.69	90.00	-7,180.03	2,111.83	6,125.77	5,900.65	225.12	27.211		
12,500.00	7,870.00	7,887.00	7,887.00	90.05	136.69	90.00	-7,180.03	2,111.83	6,031.75	5,806.24	225.50	26.748		
12,600.00	7,870.00	7,887.00	7,887.00	90.24	136.69	90.00	-7,180.03	2,111.83	5,937.91	5,712.02	225.90	26.286		
12,700.00	7,870.00	7,887.00	7,887.00	90.46	136.69	90.00	-7,180.03	2,111.83	5,844.29	5,617.98	226.31	25.825		
12,800.00	7,870.00	7,887.00	7,887.00	90.71	136.69	90.00	-7,180.03	2,111.83	5,750.87	5,524.14	226.73	25.364		
12,900.00	7,870.00	7,887.00	7,887.00	90.99	136.69	90.00	-7,180.03	2,111.83	5,657.69	5,430.51	227.18	24.905		
13,000.00	7,870.00	7,887.00	7,887.00	91.32	136.69	90.00	-7,180.03	2,111.83	5,564.74	5,337.10	227.63	24.446		
13,100.00	7,870.00	7,887.00	7,887.00	91.68	136.69	90.00	-7,180.03	2,111.83	5,472.04	5,243.92	228.11	23.989		
13,200.00	7,870.00	7,887.00	7,887.00	92.08	136.69	90.00	-7,180.03	2,111.83	5,379.59	5,150.99	228.61	23.532		
13,300.00	7,870.00	7,887.00	7,887.00	92.52	136.69	90.00	-7,180.03	2,111.83	5,287.43	5,058.31	229.12	23.077		
13,400.00	7,870.00	7,887.00	7,887.00	93.00	136.69	90.00	-7,180.03	2,111.83	5,195.55	4,965.90	229.65	22.623		
13,500.00	7,870.00	7,887.00	7,887.00	93.53	136.69	90.00	-7,180.03	2,111.83	5,103.98	4,873.78	230.21	22.171		
13,600.00	7,870.00	7,887.00	7,887.00	94.10	136.69	90.00	-7,180.03	2,111.83	5,012.74	4,781.95	230.79	21.720		
13,700.00	7,870.00	7,887.00	7,887.00	94.72	136.69	90.00	-7,180.03	2,111.83	4,921.83	4,690.44	231.39	21.271		
13,800.00	7,870.00	7,887.00	7,887.00	95.38	136.69	90.00	-7,180.03	2,111.83	4,831.28	4,599.27	232.01	20.824		
13,900.00	7,870.00	7,887.00	7,887.00	96.09	136.69	90.00	-7,180.03	2,111.83	4,741.11	4,508.45	232.66	20.378		
14,000.00	7,870.00	7,887.00	7,887.00	96.84	136.69	90.00	-7,180.03	2,111.83	4,651.34	4,418.01	233.34	19.934		
14,100.00	7,870.00	7,887.00	7,887.00	97.64	136.69	90.00	-7,180.03	2,111.83	4,562.00	4,327.96	234.04	19.492		
14,200.00	7,870.00	7,887.00	7,887.00	98.48	136.69	90.00	-7,180.03	2,111.83	4,473.11	4,238.34	234.78	19.053		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,300.00	7,870.00	7,887.00	7,887.00	99.37	136.69	90.00	-7,180.03	2,111.83	4,384.70	4,149.16	235.54	18.616		
14,400.00	7,870.00	7,887.00	7,887.00	100.30	136.69	90.00	-7,180.03	2,111.83	4,296.80	4,060.46	236.34	18.181		
14,500.00	7,870.00	7,887.00	7,887.00	101.26	136.69	90.00	-7,180.03	2,111.83	4,209.44	3,972.27	237.16	17.749		
14,600.00	7,870.00	7,887.00	7,887.00	102.27	136.69	90.00	-7,180.03	2,111.83	4,122.65	3,884.62	238.03	17.320		
14,700.00	7,870.00	7,887.00	7,887.00	103.31	136.69	90.00	-7,180.03	2,111.83	4,036.47	3,797.54	238.93	16.894		
14,800.00	7,870.00	7,887.00	7,887.00	104.38	136.69	90.00	-7,180.03	2,111.83	3,950.94	3,711.08	239.86	16.472		
14,900.00	7,870.00	7,887.00	7,887.00	105.49	136.69	90.00	-7,180.03	2,111.83	3,866.11	3,625.27	240.84	16.053		
15,000.00	7,870.00	7,887.00	7,887.00	106.63	136.69	90.00	-7,180.03	2,111.83	3,782.02	3,540.17	241.86	15.637		
15,100.00	7,870.00	7,887.00	7,887.00	107.80	136.69	90.00	-7,180.03	2,111.83	3,698.72	3,455.81	242.92	15.226		
15,200.00	7,870.00	7,887.00	7,887.00	109.00	136.69	90.00	-7,180.03	2,111.83	3,616.27	3,372.26	244.02	14.820		
15,300.00	7,870.00	7,887.00	7,887.00	110.22	136.69	90.00	-7,180.03	2,111.83	3,534.73	3,289.57	245.16	14.418		
15,400.00	7,870.00	7,887.00	7,887.00	111.47	136.69	90.00	-7,180.03	2,111.83	3,454.15	3,207.80	246.35	14.021		
15,500.00	7,870.00	7,887.00	7,887.00	112.74	136.69	90.00	-7,180.03	2,111.83	3,374.62	3,127.03	247.59	13.630		
15,600.00	7,870.00	7,887.00	7,887.00	114.03	136.69	90.00	-7,180.03	2,111.83	3,296.20	3,047.32	248.87	13.245		
15,700.00	7,870.00	7,887.00	7,887.00	115.34	136.69	90.00	-7,180.03	2,111.83	3,218.97	2,968.77	250.20	12.866		
15,800.00	7,870.00	7,887.00	7,887.00	116.68	136.69	90.00	-7,180.03	2,111.83	3,143.03	2,891.45	251.58	12.493		
15,900.00	7,870.00	7,887.00	7,887.00	118.02	136.69	90.00	-7,180.03	2,111.83	3,068.47	2,815.47	253.00	12.128		
16,000.00	7,870.00	7,887.00	7,887.00	119.39	136.69	90.00	-7,180.03	2,111.83	2,995.39	2,740.93	254.46	11.771		
16,100.00	7,870.00	7,887.00	7,887.00	120.77	136.69	90.00	-7,180.03	2,111.83	2,923.91	2,667.94	255.97	11.423		
16,200.00	7,870.00	7,887.00	7,887.00	122.17	136.69	90.00	-7,180.03	2,111.83	2,854.14	2,596.63	257.52	11.083		
16,300.00	7,870.00	7,887.00	7,887.00	123.58	136.69	90.00	-7,180.03	2,111.83	2,786.22	2,527.12	259.10	10.754		
16,400.00	7,870.00	7,887.00	7,887.00	125.00	136.69	90.00	-7,180.03	2,111.83	2,720.27	2,459.57	260.70	10.434		
16,500.00	7,870.00	7,887.00	7,887.00	126.43	136.69	90.00	-7,180.03	2,111.83	2,656.45	2,394.12	262.33	10.126		
16,600.00	7,870.00	7,887.00	7,887.00	127.88	136.69	90.00	-7,180.03	2,111.83	2,594.92	2,330.94	263.98	9.830		
16,700.00	7,870.00	7,887.00	7,887.00	129.34	136.69	90.00	-7,180.03	2,111.83	2,535.84	2,270.22	265.62	9.547		
16,800.00	7,870.00	7,887.00	7,887.00	130.81	136.69	90.00	-7,180.03	2,111.83	2,479.38	2,212.13	267.26	9.277		
16,900.00	7,870.00	7,887.00	7,887.00	132.28	136.69	90.00	-7,180.03	2,111.83	2,425.74	2,156.87	268.87	9.022		
17,000.00	7,870.00	7,887.00	7,887.00	133.77	136.69	90.00	-7,180.03	2,111.83	2,375.10	2,104.66	270.44	8.782		
17,100.00	7,870.00	7,887.00	7,887.00	135.27	136.69	90.00	-7,180.03	2,111.83	2,327.65	2,055.70	271.95	8.559		
17,200.00	7,870.00	7,887.00	7,887.00	136.77	136.69	90.00	-7,180.03	2,111.83	2,283.60	2,010.22	273.38	8.353		
17,300.00	7,870.00	7,887.00	7,887.00	138.28	136.69	90.00	-7,180.03	2,111.83	2,243.14	1,968.43	274.71	8.165		
17,400.00	7,870.00	7,887.00	7,887.00	139.80	136.69	90.00	-7,180.03	2,111.83	2,206.48	1,930.56	275.92	7.997		
17,500.00	7,870.00	7,887.00	7,887.00	141.33	136.69	90.00	-7,180.03	2,111.83	2,173.81	1,896.83	276.98	7.848		
17,600.00	7,870.00	7,887.00	7,887.00	142.86	136.69	90.00	-7,180.03	2,111.83	2,145.30	1,867.43	277.87	7.721		
17,700.00	7,870.00	7,887.00	7,887.00	144.40	136.69	90.00	-7,180.03	2,111.83	2,121.13	1,842.56	278.57	7.614		
17,800.00	7,870.00	7,887.00	7,887.00	145.95	136.69	90.00	-7,180.03	2,111.83	2,101.44	1,822.38	279.05	7.531		
17,900.00	7,870.00	7,887.00	7,887.00	147.50	136.69	90.00	-7,180.03	2,111.83	2,086.36	1,807.05	279.31	7.470		
18,000.00	7,870.00	7,887.00	7,887.00	149.06	136.69	90.00	-7,180.03	2,111.83	2,076.00	1,796.67	279.33	7.432		
18,100.00	7,870.00	7,887.00	7,887.00	150.63	136.69	90.00	-7,180.03	2,111.83	2,070.42	1,791.32	279.11	7.418 SF		
18,165.65	7,870.00	7,887.00	7,887.00	151.66	136.69	90.00	-7,180.03	2,111.83	2,069.38	1,790.56	278.82	7.422 CC, ES		
18,200.00	7,870.00	7,887.00	7,887.00	152.20	136.69	90.00	-7,180.03	2,111.83	2,069.67	1,791.03	278.63	7.428		
18,300.00	7,870.00	7,887.00	7,887.00	153.77	136.69	90.00	-7,180.03	2,111.83	2,073.74	1,795.82	277.91	7.462		
18,400.00	7,870.00	7,887.00	7,887.00	155.35	136.69	90.00	-7,180.03	2,111.83	2,082.61	1,805.65	276.96	7.520		
18,500.00	7,870.00	7,887.00	7,887.00	156.93	136.69	90.00	-7,180.03	2,111.83	2,096.22	1,820.43	275.78	7.601		
18,600.00	7,870.00	7,887.00	7,887.00	158.52	136.69	90.00	-7,180.03	2,111.83	2,114.47	1,840.07	274.41	7.706		
18,700.00	7,870.00	7,887.00	7,887.00	160.11	136.69	90.00	-7,180.03	2,111.83	2,137.26	1,864.41	272.85	7.833		
18,800.00	7,870.00	7,887.00	7,887.00	161.71	136.69	90.00	-7,180.03	2,111.83	2,164.43	1,893.29	271.14	7.983		
18,900.00	7,870.00	7,887.00	7,887.00	163.31	136.69	90.00	-7,180.03	2,111.83	2,195.82	1,926.52	269.30	8.154		
19,000.00	7,870.00	7,887.00	7,887.00	164.91	136.69	90.00	-7,180.03	2,111.83	2,231.25	1,963.90	267.35	8.346		
19,100.00	7,870.00	7,887.00	7,887.00	166.52	136.69	90.00	-7,180.03	2,111.83	2,270.54	2,005.21	265.33	8.557		
19,200.00	7,870.00	7,887.00	7,887.00	168.13	136.69	90.00	-7,180.03	2,111.83	2,313.49	2,050.23	263.26	8.788		
19,300.00	7,870.00	7,887.00	7,887.00	169.75	136.69	90.00	-7,180.03	2,111.83	2,359.89	2,098.74	261.15	9.036		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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					
19,383.51	7,870.00	7,887.00	7,887.00	171.10	136.69	90.00	-7,180.03	2,111.83	2,401.15	2,141.76	259.39	9.257					

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	140.37	-6,863.26	5,684.50	8,911.73					
100.00	100.00	68.00	68.00	0.13	0.53	140.37	-6,863.26	5,684.50	8,911.68	8,911.01	0.67	N/A		
200.00	200.00	168.00	168.00	0.49	1.97	140.37	-6,863.26	5,684.50	8,911.68	8,909.21	2.47	3,615.106		
300.00	300.00	268.00	268.00	0.85	3.72	140.37	-6,863.26	5,684.50	8,911.68	8,907.11	4.57	1,950.499		
400.00	400.00	368.00	368.00	1.21	5.46	140.37	-6,863.26	5,684.50	8,911.68	8,905.00	6.67	1,335.538		
500.00	500.00	468.00	468.00	1.57	7.21	140.37	-6,863.26	5,684.50	8,911.68	8,902.90	8.78	1,015.399		
600.00	600.00	568.00	568.00	1.93	8.95	140.37	-6,863.26	5,684.50	8,911.68	8,900.80	10.88	819.063		
700.00	699.98	667.98	667.98	2.28	10.70	76.57	-6,863.26	5,684.50	8,911.27	8,898.29	12.98	686.577		
800.00	799.84	767.84	767.84	2.64	12.44	76.62	-6,863.26	5,684.50	8,910.06	8,894.98	15.08	591.039		
900.00	899.45	867.45	867.45	3.00	14.18	76.72	-6,863.26	5,684.50	8,908.04	8,890.86	17.17	518.682		
1,000.00	998.70	966.70	966.70	3.37	15.91	76.85	-6,863.26	5,684.50	8,905.23	8,885.95	19.28	461.916		
1,100.00	1,097.47	1,065.47	1,065.47	3.76	17.64	77.01	-6,863.26	5,684.50	8,901.65	8,880.26	21.39	416.119		
1,200.00	1,195.62	1,163.62	1,163.62	4.18	19.35	77.21	-6,863.26	5,684.50	8,897.32	8,873.80	23.52	378.326		
1,300.00	1,293.06	1,261.06	1,261.06	4.63	21.05	77.45	-6,863.26	5,684.50	8,892.26	8,866.60	25.66	346.553		
1,400.00	1,389.64	1,357.64	1,357.64	5.11	22.74	77.72	-6,863.26	5,684.50	8,886.51	8,858.69	27.82	319.421		
1,500.00	1,485.27	1,453.27	1,453.27	5.63	24.40	78.02	-6,863.26	5,684.50	8,880.10	8,850.10	30.01	295.947		
1,600.00	1,579.82	1,547.82	1,547.82	6.20	26.05	78.36	-6,863.26	5,684.50	8,873.07	8,840.86	32.22	275.410		
1,700.00	1,673.17	1,641.17	1,641.17	6.83	27.68	78.72	-6,863.26	5,684.50	8,865.47	8,831.01	34.46	257.273		
1,800.00	1,765.21	1,733.21	1,733.21	7.51	29.29	79.11	-6,863.26	5,684.50	8,857.33	8,820.60	36.73	241.126		
1,900.00	1,855.84	1,823.84	1,823.84	8.24	30.87	79.52	-6,863.26	5,684.50	8,848.72	8,809.68	39.04	226.649		
2,000.00	1,944.94	1,912.94	1,912.94	9.05	32.43	79.96	-6,863.26	5,684.50	8,839.68	8,798.29	41.39	213.592		
2,100.00	2,032.39	2,000.39	2,000.39	9.91	33.95	80.42	-6,863.26	5,684.50	8,830.28	8,786.51	43.77	201.756		
2,200.00	2,118.11	2,086.11	2,086.11	10.85	35.45	80.89	-6,863.26	5,684.50	8,820.57	8,774.38	46.19	190.978		
2,300.00	2,201.97	2,169.97	2,169.97	11.85	36.91	81.39	-6,863.26	5,684.50	8,810.62	8,761.97	48.64	181.126		
2,400.00	2,283.88	2,251.88	2,251.88	12.93	38.34	81.89	-6,863.26	5,684.50	8,800.49	8,749.35	51.14	172.089		
2,429.47	2,307.63	2,275.63	2,275.63	13.26	38.76	82.04	-6,863.26	5,684.50	8,797.48	8,745.60	51.88	169.571		
2,500.00	2,364.26	2,332.26	2,332.26	14.06	39.75	82.26	-6,863.26	5,684.50	8,790.37	8,736.70	53.67	163.795		
2,600.00	2,444.56	2,412.56	2,412.56	15.22	41.15	82.57	-6,863.26	5,684.50	8,780.62	8,724.40	56.22	156.190		
2,700.00	2,524.85	2,507.15	2,492.85	16.39	42.80	82.88	-6,863.26	5,684.50	8,771.26	8,712.23	59.03	148.579		
2,800.00	2,605.14	2,573.14	2,573.14	17.57	43.95	83.20	-6,863.26	5,684.50	8,762.30	8,700.94	61.37	142.788		
2,900.00	2,685.43	2,653.43	2,653.43	18.76	45.35	83.51	-6,863.26	5,684.50	8,753.74	8,689.78	63.96	136.867		
3,000.00	2,765.73	2,733.73	2,733.73	19.96	46.75	83.82	-6,863.26	5,684.50	8,745.58	8,679.02	66.56	131.395		
3,100.00	2,846.02	2,814.02	2,814.02	21.16	48.15	84.13	-6,863.26	5,684.50	8,737.81	8,668.64	69.17	126.326		
3,200.00	2,926.31	2,905.69	2,894.31	22.37	49.75	84.45	-6,863.26	5,684.50	8,730.44	8,658.46	71.98	121.284		
3,300.00	3,006.60	2,974.60	2,974.60	23.59	50.96	84.76	-6,863.26	5,684.50	8,723.48	8,649.07	74.41	117.240		
3,400.00	3,086.90	3,054.90	3,054.90	24.81	52.36	85.07	-6,863.26	5,684.50	8,716.92	8,639.88	77.03	113.157		
3,500.00	3,167.19	3,135.19	3,135.19	26.03	53.76	85.39	-6,863.26	5,684.50	8,710.76	8,631.09	79.67	109.342		
3,600.00	3,247.48	3,215.48	3,215.48	27.25	55.16	85.70	-6,863.26	5,684.50	8,705.00	8,622.70	82.30	105.771		
3,700.00	3,327.77	3,304.23	3,295.77	28.48	56.71	86.02	-6,863.26	5,684.50	8,699.65	8,614.57	85.09	102.246		
3,800.00	3,408.07	3,376.07	3,376.07	29.71	57.96	86.33	-6,863.26	5,684.50	8,694.70	8,607.13	87.58	99.279		
3,900.00	3,488.36	3,456.36	3,456.36	30.94	59.36	86.65	-6,863.26	5,684.50	8,690.17	8,599.94	90.22	96.321		
4,000.00	3,568.65	3,536.65	3,536.65	32.17	60.77	86.96	-6,863.26	5,684.50	8,686.03	8,593.17	92.87	93.533		
4,100.00	3,648.95	3,616.95	3,616.95	33.41	62.17	87.28	-6,863.26	5,684.50	8,682.31	8,586.79	95.51	90.903		
4,200.00	3,729.24	3,702.76	3,697.24	34.64	63.67	87.59	-6,863.26	5,684.50	8,678.99	8,580.73	98.26	88.331		
4,300.00	3,809.53	3,777.53	3,777.53	35.88	64.97	87.91	-6,863.26	5,684.50	8,676.08	8,575.27	100.81	86.066		
4,400.00	3,889.82	3,857.82	3,857.82	37.12	66.37	88.23	-6,863.26	5,684.50	8,673.58	8,570.12	103.46	83.839		
4,500.00	3,970.12	3,938.12	3,938.12	38.36	67.77	88.54	-6,863.26	5,684.50	8,671.49	8,565.38	106.10	81.726		
4,600.00	4,050.41	4,018.41	4,018.41	39.60	69.17	88.86	-6,863.26	5,684.50	8,669.80	8,561.05	108.75	79.720		
4,700.00	4,130.70	4,101.30	4,098.70	40.84	70.62	89.18	-6,863.26	5,684.50	8,668.53	8,557.08	111.45	77.781		
4,800.00	4,210.99	4,178.99	4,178.99	42.08	71.98	89.49	-6,863.26	5,684.50	8,667.67	8,553.62	114.05	75.999		
4,900.00	4,291.29	4,259.29	4,259.29	43.32	73.38	89.81	-6,863.26	5,684.50	8,667.21	8,550.52	116.70	74.270		
4,960.61	4,339.96	4,307.96	4,307.96	44.08	74.23	90.00	-6,863.26	5,684.50	8,667.14	8,548.84	118.30	73.262		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,371.58	4,339.58	4,339.58	44.57	74.78	90.12	-6,863.26	5,684.50	8,667.17	8,547.82	119.34	72.623		
5,100.00	4,451.87	4,419.87	4,419.87	45.81	76.18	90.44	-6,863.26	5,684.50	8,667.54	8,545.55	121.99	71.051		
5,200.00	4,532.16	4,500.16	4,500.16	47.05	77.58	90.76	-6,863.26	5,684.50	8,668.31	8,543.68	124.64	69.549		
5,300.00	4,612.46	4,580.46	4,580.46	48.30	78.98	91.07	-6,863.26	5,684.50	8,669.50	8,542.22	127.28	68.115		
5,400.00	4,692.75	4,660.75	4,660.75	49.54	80.39	91.39	-6,863.26	5,684.50	8,671.09	8,541.17	129.92	66.742		
5,500.00	4,773.04	4,741.04	4,741.04	50.79	81.79	91.71	-6,863.26	5,684.50	8,673.10	8,540.54	132.56	65.428		
5,600.00	4,853.34	4,821.34	4,821.34	52.03	83.19	92.02	-6,863.26	5,684.50	8,675.51	8,540.32	135.20	64.170		
5,700.00	4,933.63	4,901.63	4,901.63	53.28	84.59	92.34	-6,863.26	5,684.50	8,678.34	8,540.50	137.83	62.963		
5,800.00	5,013.92	4,981.92	4,981.92	54.53	85.99	92.65	-6,863.26	5,684.50	8,681.57	8,541.10	140.47	61.806		
5,900.00	5,094.21	5,042.00	5,042.00	55.77	87.04	92.89	-6,863.26	5,684.50	8,685.23	8,542.49	142.74	60.846		
6,000.00	5,174.51	5,042.00	5,042.00	57.02	87.04	92.89	-6,863.26	5,684.50	8,689.84	8,545.88	143.95	60.366		
6,100.00	5,254.80	5,042.00	5,042.00	58.27	87.04	92.89	-6,863.26	5,684.50	8,695.59	8,550.44	145.15	59.908		
6,200.00	5,335.09	5,042.00	5,042.00	59.52	87.04	92.89	-6,863.26	5,684.50	8,702.48	8,556.16	146.33	59.472		
6,300.00	5,415.38	5,042.00	5,042.00	60.76	87.04	92.89	-6,863.26	5,684.50	8,710.52	8,563.03	147.49	59.058		
6,400.00	5,495.68	5,042.00	5,042.00	62.01	87.04	92.89	-6,863.26	5,684.50	8,719.70	8,571.07	148.64	58.664		
6,500.00	5,575.97	5,042.00	5,042.00	63.26	87.04	92.89	-6,863.26	5,684.50	8,730.02	8,580.25	149.77	58.290		
6,600.00	5,656.26	5,042.00	5,042.00	64.51	87.04	92.89	-6,863.26	5,684.50	8,741.47	8,590.59	150.88	57.937		
6,700.00	5,736.55	5,042.00	5,042.00	65.76	87.04	92.89	-6,863.26	5,684.50	8,754.04	8,602.07	151.97	57.602		
6,800.00	5,816.85	5,042.00	5,042.00	67.01	87.04	92.89	-6,863.26	5,684.50	8,767.74	8,614.69	153.05	57.287		
6,900.00	5,897.14	5,042.00	5,042.00	68.26	87.04	92.89	-6,863.26	5,684.50	8,782.55	8,628.45	154.11	56.990		
7,000.00	5,977.43	5,042.00	5,042.00	69.50	87.04	92.89	-6,863.26	5,684.50	8,798.48	8,643.33	155.15	56.711		
7,100.00	6,057.72	5,042.00	5,042.00	70.75	87.04	92.89	-6,863.26	5,684.50	8,815.51	8,659.34	156.17	56.449		
7,200.00	6,138.02	5,042.00	5,042.00	72.00	87.04	92.89	-6,863.26	5,684.50	8,833.64	8,676.47	157.17	56.205		
7,300.00	6,218.31	5,042.00	5,042.00	73.25	87.04	92.89	-6,863.26	5,684.50	8,852.87	8,694.71	158.15	55.977		
7,400.00	6,298.60	5,042.00	5,042.00	74.50	87.04	92.89	-6,863.26	5,684.50	8,873.18	8,714.06	159.12	55.766		
7,500.00	6,378.90	5,042.00	5,042.00	75.75	87.04	92.89	-6,863.26	5,684.50	8,894.56	8,734.50	160.06	55.570		
7,600.00	6,459.19	5,042.00	5,042.00	77.00	87.04	92.89	-6,863.26	5,684.50	8,917.02	8,756.03	160.98	55.390		
7,700.00	6,539.48	5,042.00	5,042.00	78.25	87.04	92.89	-6,863.26	5,684.50	8,940.54	8,778.65	161.89	55.226		
7,800.00	6,619.77	5,042.00	5,042.00	79.50	87.04	92.89	-6,863.26	5,684.50	8,965.11	8,802.34	162.78	55.076		
7,900.00	6,700.07	5,042.00	5,042.00	80.75	87.04	92.89	-6,863.26	5,684.50	8,990.73	8,827.09	163.64	54.941		
8,000.00	6,780.36	5,042.00	5,042.00	82.00	87.04	92.89	-6,863.26	5,684.50	9,017.39	8,852.89	164.49	54.820		
8,100.00	6,860.65	5,042.00	5,042.00	83.25	87.04	92.89	-6,863.26	5,684.50	9,045.07	8,879.75	165.32	54.712		
8,200.00	6,940.94	5,042.00	5,042.00	84.50	87.04	92.89	-6,863.26	5,684.50	9,073.77	8,907.64	166.13	54.619		
8,300.00	7,021.24	5,042.00	5,042.00	85.76	87.04	92.89	-6,863.26	5,684.50	9,103.47	8,936.55	166.92	54.538		
8,400.00	7,101.53	5,042.00	5,042.00	87.01	87.04	92.89	-6,863.26	5,684.50	9,134.18	8,966.49	167.69	54.471		
8,500.00	7,181.82	5,042.00	5,042.00	88.26	87.04	92.89	-6,863.26	5,684.50	9,165.87	8,997.43	168.44	54.415		
8,605.60	7,266.61	5,042.00	5,042.00	89.58	87.04	92.89	-6,863.26	5,684.50	9,200.40	9,031.19	169.22	54.371		
8,650.00	7,302.60	5,042.00	5,042.00	90.13	87.04	87.52	-6,863.26	5,684.50	9,213.70	9,044.17	169.53	54.348		
8,700.00	7,343.78	5,042.00	5,042.00	90.72	87.04	80.80	-6,863.26	5,684.50	9,225.14	9,055.26	169.87	54.306		
8,750.00	7,385.32	5,042.00	5,042.00	91.28	87.04	73.60	-6,863.26	5,684.50	9,232.76	9,062.57	170.19	54.249		
8,800.00	7,426.92	5,042.00	5,042.00	91.81	87.04	66.23	-6,863.26	5,684.50	9,236.53	9,066.05	170.49	54.177		
8,850.00	7,468.27	5,042.00	5,042.00	92.29	87.04	58.99	-6,863.26	5,684.50	9,236.42	9,065.67	170.75	54.093		
8,900.00	7,509.04	5,042.00	5,042.00	92.72	87.04	52.12	-6,863.26	5,684.50	9,232.43	9,061.45	170.98	53.997		
8,950.00	7,548.93	5,042.00	5,042.00	93.10	87.04	45.80	-6,863.26	5,684.50	9,224.58	9,053.40	171.17	53.891		
9,000.00	7,587.63	5,042.00	5,042.00	93.43	87.04	40.07	-6,863.26	5,684.50	9,212.92	9,041.59	171.32	53.775		
9,050.00	7,624.85	5,042.00	5,042.00	93.71	87.04	34.92	-6,863.26	5,684.50	9,197.53	9,026.09	171.44	53.649		
9,100.00	7,660.30	5,042.00	5,042.00	93.93	87.04	30.29	-6,863.26	5,684.50	9,178.50	9,006.99	171.51	53.515		
9,150.00	7,693.72	5,042.00	5,042.00	94.10	87.04	26.07	-6,863.26	5,684.50	9,155.97	8,984.42	171.55	53.373		
9,200.00	7,724.85	5,042.00	5,042.00	94.23	87.04	22.16	-6,863.26	5,684.50	9,130.07	8,958.52	171.55	53.222		
9,250.00	7,753.45	5,042.00	5,042.00	94.30	87.04	18.45	-6,863.26	5,684.50	9,100.98	8,929.47	171.51	53.064		
9,300.00	7,779.31	5,042.00	5,042.00	94.34	87.04	14.81	-6,863.26	5,684.50	9,068.88	8,897.44	171.44	52.897		
9,350.00	7,802.23	5,042.00	5,042.00	94.33	87.04	11.09	-6,863.26	5,684.50	9,033.99	8,862.64	171.35	52.723		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,400.00	7,822.03	5,042.00	5,042.00	94.28	87.04	7.13	-6,863.26	5,684.50	8,996.55	8,825.32	171.23	52.542		
9,450.00	7,838.57	5,042.00	5,042.00	94.20	87.04	2.72	-6,863.26	5,684.50	8,956.80	8,785.72	171.09	52.353		
9,500.00	7,851.72	5,042.00	5,042.00	94.10	87.04	-2.42	-6,863.26	5,684.50	8,915.03	8,744.11	170.93	52.157		
9,550.00	7,861.37	5,042.00	5,042.00	93.96	87.04	-8.64	-6,863.26	5,684.50	8,871.53	8,700.77	170.76	51.954		
9,600.00	7,867.46	5,042.00	5,042.00	93.81	87.04	-16.41	-6,863.26	5,684.50	8,826.60	8,656.02	170.58	51.745		
9,650.00	7,869.94	5,042.00	5,042.00	93.64	87.04	-26.21	-6,863.26	5,684.50	8,780.56	8,610.16	170.40	51.530		
9,659.14	7,870.00	5,042.00	5,042.00	93.60	87.04	-28.25	-6,863.26	5,684.50	8,772.06	8,601.69	170.37	51.490		
9,700.00	7,870.00	5,042.00	5,042.00	93.46	87.04	-28.25	-6,863.26	5,684.50	8,733.97	8,563.76	170.22	51.311		
9,800.00	7,870.00	5,042.00	5,042.00	93.11	87.04	-28.25	-6,863.26	5,684.50	8,640.89	8,471.05	169.84	50.876		
9,900.00	7,870.00	5,042.00	5,042.00	92.77	87.04	-28.25	-6,863.26	5,684.50	8,547.96	8,378.50	169.46	50.442		
10,000.00	7,870.00	5,042.00	5,042.00	92.46	87.04	-28.25	-6,863.26	5,684.50	8,455.19	8,286.12	169.07	50.009		
10,100.00	7,870.00	5,042.00	5,042.00	92.16	87.04	-28.25	-6,863.26	5,684.50	8,362.59	8,193.91	168.68	49.577		
10,200.00	7,870.00	5,042.00	5,042.00	91.87	87.04	-28.25	-6,863.26	5,684.50	8,270.16	8,101.88	168.27	49.147		
10,300.00	7,870.00	5,042.00	5,042.00	91.60	87.04	-28.25	-6,863.26	5,684.50	8,177.90	8,010.04	167.86	48.719		
10,400.00	7,870.00	5,042.00	5,042.00	91.34	87.04	-28.25	-6,863.26	5,684.50	8,085.84	7,918.40	167.44	48.291		
10,500.00	7,870.00	5,042.00	5,042.00	91.11	87.04	-28.25	-6,863.26	5,684.50	7,993.96	7,826.95	167.01	47.866		
10,600.00	7,870.00	5,042.00	5,042.00	90.88	87.04	-28.25	-6,863.26	5,684.50	7,902.28	7,735.71	166.57	47.441		
10,700.00	7,870.00	5,042.00	5,042.00	90.67	87.04	-28.25	-6,863.26	5,684.50	7,810.80	7,644.68	166.12	47.019		
10,800.00	7,870.00	5,042.00	5,042.00	90.48	87.04	-28.25	-6,863.26	5,684.50	7,719.54	7,553.88	165.66	46.598		
10,900.00	7,870.00	5,042.00	5,042.00	90.31	87.04	-28.25	-6,863.26	5,684.50	7,628.49	7,463.30	165.20	46.179		
11,000.00	7,870.00	5,042.00	5,042.00	90.15	87.04	-28.25	-6,863.26	5,684.50	7,537.67	7,372.96	164.72	45.761		
11,100.00	7,870.00	5,042.00	5,042.00	90.00	87.04	-28.25	-6,863.26	5,684.50	7,447.09	7,282.86	164.23	45.345		
11,200.00	7,870.00	5,042.00	5,042.00	89.88	87.04	-28.25	-6,863.26	5,684.50	7,356.75	7,193.02	163.73	44.932		
11,300.00	7,870.00	5,042.00	5,042.00	89.77	87.04	-28.25	-6,863.26	5,684.50	7,266.67	7,103.44	163.22	44.520		
11,400.00	7,870.00	5,042.00	5,042.00	89.68	87.04	-28.25	-6,863.26	5,684.50	7,176.84	7,014.14	162.71	44.109		
11,500.00	7,870.00	5,042.00	5,042.00	89.60	87.04	-28.25	-6,863.26	5,684.50	7,087.29	6,925.12	162.18	43.701		
11,600.00	7,870.00	5,042.00	5,042.00	89.55	87.04	-28.25	-6,863.26	5,684.50	6,998.02	6,836.39	161.63	43.295		
11,700.00	7,870.00	5,042.00	5,042.00	89.52	87.04	-28.25	-6,863.26	5,684.50	6,909.05	6,747.97	161.08	42.892		
11,800.00	7,870.00	5,042.00	5,042.00	89.50	87.04	-28.25	-6,863.26	5,684.50	6,820.38	6,659.86	160.52	42.490		
11,900.00	7,870.00	5,042.00	5,042.00	89.51	87.04	-28.25	-6,863.26	5,684.50	6,732.03	6,572.09	159.94	42.090		
12,000.00	7,870.00	5,042.00	5,042.00	89.54	87.04	-28.25	-6,863.26	5,684.50	6,644.01	6,484.65	159.36	41.693		
12,100.00	7,870.00	5,042.00	5,042.00	89.59	87.04	-28.25	-6,863.26	5,684.50	6,556.33	6,397.58	158.76	41.298		
12,200.00	7,870.00	5,042.00	5,042.00	89.66	87.04	-28.25	-6,863.26	5,684.50	6,469.01	6,310.87	158.15	40.905		
12,300.00	7,870.00	5,042.00	5,042.00	89.77	87.04	-28.25	-6,863.26	5,684.50	6,382.07	6,224.54	157.52	40.515		
12,400.00	7,870.00	5,042.00	5,042.00	89.89	87.04	-28.25	-6,863.26	5,684.50	6,295.51	6,138.62	156.89	40.127		
12,500.00	7,870.00	5,042.00	5,042.00	90.05	87.04	-28.25	-6,863.26	5,684.50	6,209.35	6,053.11	156.24	39.742		
12,600.00	7,870.00	5,042.00	5,042.00	90.24	87.04	-28.25	-6,863.26	5,684.50	6,123.62	5,968.03	155.59	39.359		
12,700.00	7,870.00	5,042.00	5,042.00	90.46	87.04	-28.25	-6,863.26	5,684.50	6,038.32	5,883.40	154.92	38.978		
12,800.00	7,870.00	5,042.00	5,042.00	90.71	87.04	-28.25	-6,863.26	5,684.50	5,953.48	5,799.25	154.24	38.600		
12,900.00	7,870.00	5,042.00	5,042.00	90.99	87.04	-28.25	-6,863.26	5,684.50	5,869.12	5,715.58	153.54	38.225		
13,000.00	7,870.00	5,042.00	5,042.00	91.32	87.04	-28.25	-6,863.26	5,684.50	5,785.26	5,632.42	152.84	37.851		
13,100.00	7,870.00	5,042.00	5,042.00	91.68	87.04	-28.25	-6,863.26	5,684.50	5,701.91	5,549.79	152.13	37.481		
13,200.00	7,870.00	5,042.00	5,042.00	92.08	87.04	-28.25	-6,863.26	5,684.50	5,619.12	5,467.71	151.41	37.113		
13,300.00	7,870.00	5,042.00	5,042.00	92.52	87.04	-28.25	-6,863.26	5,684.50	5,536.89	5,386.21	150.68	36.747		
13,400.00	7,870.00	5,042.00	5,042.00	93.00	87.04	-28.25	-6,863.26	5,684.50	5,455.25	5,305.31	149.94	36.384		
13,500.00	7,870.00	5,042.00	5,042.00	93.53	87.04	-28.25	-6,863.26	5,684.50	5,374.23	5,225.04	149.19	36.022		
13,600.00	7,870.00	5,042.00	5,042.00	94.10	87.04	-28.25	-6,863.26	5,684.50	5,293.86	5,145.42	148.44	35.663		
13,700.00	7,870.00	5,042.00	5,042.00	94.72	87.04	-28.25	-6,863.26	5,684.50	5,214.18	5,066.49	147.68	35.306		
13,800.00	7,870.00	5,042.00	5,042.00	95.38	87.04	-28.25	-6,863.26	5,684.50	5,135.20	4,988.27	146.92	34.951		
13,900.00	7,870.00	5,042.00	5,042.00	96.09	87.04	-28.25	-6,863.26	5,684.50	5,056.97	4,910.80	146.16	34.598		
14,000.00	7,870.00	5,042.00	5,042.00	96.84	87.04	-28.25	-6,863.26	5,684.50	4,979.51	4,834.11	145.40	34.246		
14,100.00	7,870.00	5,042.00	5,042.00	97.64	87.04	-28.25	-6,863.26	5,684.50	4,902.87	4,758.23	144.65	33.895		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,200.00	7,870.00	5,042.00	5,042.00	98.48	87.04	-28.25	-6,863.26	5,684.50	4,827.09	4,683.19	143.90	33.545		
14,300.00	7,870.00	5,042.00	5,042.00	99.37	87.04	-28.25	-6,863.26	5,684.50	4,752.20	4,609.05	143.15	33.196		
14,400.00	7,870.00	5,042.00	5,042.00	100.30	87.04	-28.25	-6,863.26	5,684.50	4,678.25	4,535.83	142.42	32.848		
14,500.00	7,870.00	5,042.00	5,042.00	101.26	87.04	-28.25	-6,863.26	5,684.50	4,605.29	4,463.58	141.71	32.499		
14,600.00	7,870.00	5,042.00	5,042.00	102.27	87.04	-28.25	-6,863.26	5,684.50	4,533.36	4,392.35	141.01	32.150		
14,700.00	7,870.00	5,042.00	5,042.00	103.31	87.04	-28.25	-6,863.26	5,684.50	4,462.51	4,322.18	140.33	31.800		
14,800.00	7,870.00	5,042.00	5,042.00	104.38	87.04	-28.25	-6,863.26	5,684.50	4,392.79	4,253.11	139.68	31.449		
14,900.00	7,870.00	5,042.00	5,042.00	105.49	87.04	-28.25	-6,863.26	5,684.50	4,324.26	4,185.20	139.06	31.097		
15,000.00	7,870.00	5,042.00	5,042.00	106.63	87.04	-28.25	-6,863.26	5,684.50	4,256.98	4,118.50	138.47	30.742		
15,100.00	7,870.00	5,042.00	5,042.00	107.80	87.04	-28.25	-6,863.26	5,684.50	4,191.00	4,053.07	137.93	30.385		
15,200.00	7,870.00	5,042.00	5,042.00	109.00	87.04	-28.25	-6,863.26	5,684.50	4,126.39	3,988.96	137.43	30.026		
15,300.00	7,870.00	5,042.00	5,042.00	110.22	87.04	-28.25	-6,863.26	5,684.50	4,063.22	3,926.24	136.98	29.663		
15,400.00	7,870.00	5,042.00	5,042.00	111.47	87.04	-28.25	-6,863.26	5,684.50	4,001.55	3,864.96	136.59	29.297		
15,500.00	7,870.00	5,042.00	5,042.00	112.74	87.04	-28.25	-6,863.26	5,684.50	3,941.45	3,805.19	136.26	28.927		
15,600.00	7,870.00	5,042.00	5,042.00	114.03	87.04	-28.25	-6,863.26	5,684.50	3,883.00	3,747.01	135.99	28.553		
15,700.00	7,870.00	5,042.00	5,042.00	115.34	87.04	-28.25	-6,863.26	5,684.50	3,826.26	3,690.47	135.80	28.176		
15,800.00	7,870.00	5,042.00	5,042.00	116.68	87.04	-28.25	-6,863.26	5,684.50	3,771.33	3,635.65	135.68	27.796		
15,900.00	7,870.00	5,042.00	5,042.00	118.02	87.04	-28.25	-6,863.26	5,684.50	3,718.27	3,582.63	135.65	27.412		
16,000.00	7,870.00	5,042.00	5,042.00	119.39	87.04	-28.25	-6,863.26	5,684.50	3,667.18	3,531.48	135.70	27.025		
16,100.00	7,870.00	5,042.00	5,042.00	120.77	87.04	-28.25	-6,863.26	5,684.50	3,618.12	3,482.28	135.84	26.635		
16,200.00	7,870.00	5,042.00	5,042.00	122.17	87.04	-28.25	-6,863.26	5,684.50	3,571.20	3,435.12	136.08	26.244		
16,300.00	7,870.00	5,042.00	5,042.00	123.58	87.04	-28.25	-6,863.26	5,684.50	3,526.48	3,390.07	136.41	25.851		
16,400.00	7,870.00	5,042.00	5,042.00	125.00	87.04	-28.25	-6,863.26	5,684.50	3,484.07	3,347.22	136.85	25.459		
16,500.00	7,870.00	5,042.00	5,042.00	126.43	87.04	-28.25	-6,863.26	5,684.50	3,444.03	3,306.64	137.39	25.067		
16,600.00	7,870.00	5,042.00	5,042.00	127.88	87.04	-28.25	-6,863.26	5,684.50	3,406.46	3,268.42	138.05	24.676		
16,700.00	7,870.00	5,042.00	5,042.00	129.34	87.04	-28.25	-6,863.26	5,684.50	3,371.44	3,232.63	138.81	24.288		
16,800.00	7,870.00	5,042.00	5,042.00	130.81	87.04	-28.25	-6,863.26	5,684.50	3,339.05	3,199.36	139.69	23.904		
16,900.00	7,870.00	5,042.00	5,042.00	132.28	87.04	-28.25	-6,863.26	5,684.50	3,309.36	3,168.69	140.68	23.524		
17,000.00	7,870.00	5,042.00	5,042.00	133.77	87.04	-28.25	-6,863.26	5,684.50	3,282.46	3,140.67	141.79	23.150		
17,100.00	7,870.00	5,042.00	5,042.00	135.27	87.04	-28.25	-6,863.26	5,684.50	3,258.40	3,115.38	143.02	22.783		
17,200.00	7,870.00	5,042.00	5,042.00	136.77	87.04	-28.25	-6,863.26	5,684.50	3,237.25	3,092.88	144.37	22.424		
17,300.00	7,870.00	5,042.00	5,042.00	138.28	87.04	-28.25	-6,863.26	5,684.50	3,219.07	3,073.23	145.84	22.073		
17,400.00	7,870.00	5,042.00	5,042.00	139.80	87.04	-28.25	-6,863.26	5,684.50	3,203.91	3,056.48	147.43	21.731		
17,500.00	7,870.00	5,042.00	5,042.00	141.33	87.04	-28.25	-6,863.26	5,684.50	3,191.82	3,042.67	149.14	21.401		
17,600.00	7,870.00	5,042.00	5,042.00	142.86	87.04	-28.25	-6,863.26	5,684.50	3,182.82	3,031.84	150.97	21.082		
17,700.00	7,870.00	5,042.00	5,042.00	144.40	87.04	-28.25	-6,863.26	5,684.50	3,176.94	3,024.03	152.91	20.776		
17,800.00	7,870.00	5,042.00	5,042.00	145.95	87.04	-28.25	-6,863.26	5,684.50	3,174.21	3,019.25	154.96	20.484		
17,836.84	7,870.00	5,042.00	5,042.00	146.52	87.04	-28.25	-6,863.26	5,684.50	3,173.99	3,018.26	155.74	20.381 CC		
17,900.00	7,870.00	5,042.00	5,042.00	147.50	87.04	-28.25	-6,863.26	5,684.50	3,174.62	3,017.52	157.10	20.208 ES		
18,000.00	7,870.00	5,042.00	5,042.00	149.06	87.04	-28.25	-6,863.26	5,684.50	3,178.18	3,018.86	159.32	19.948		
18,100.00	7,870.00	5,042.00	5,042.00	150.63	87.04	-28.25	-6,863.26	5,684.50	3,184.88	3,023.26	161.62	19.705		
18,200.00	7,870.00	5,042.00	5,042.00	152.20	87.04	-28.25	-6,863.26	5,684.50	3,194.70	3,030.72	163.98	19.482		
18,300.00	7,870.00	5,042.00	5,042.00	153.77	87.04	-28.25	-6,863.26	5,684.50	3,207.61	3,041.22	166.38	19.278		
18,400.00	7,870.00	5,042.00	5,042.00	155.35	87.04	-28.25	-6,863.26	5,684.50	3,223.57	3,054.75	168.81	19.095		
18,500.00	7,870.00	5,042.00	5,042.00	156.93	87.04	-28.25	-6,863.26	5,684.50	3,242.53	3,071.28	171.25	18.934		
18,600.00	7,870.00	5,042.00	5,042.00	158.52	87.04	-28.25	-6,863.26	5,684.50	3,264.45	3,090.76	173.69	18.794		
18,700.00	7,870.00	5,042.00	5,042.00	160.11	87.04	-28.25	-6,863.26	5,684.50	3,289.27	3,113.16	176.11	18.677		
18,800.00	7,870.00	5,042.00	5,042.00	161.71	87.04	-28.25	-6,863.26	5,684.50	3,316.91	3,138.42	178.50	18.583		
18,900.00	7,870.00	5,042.00	5,042.00	163.31	87.04	-28.25	-6,863.26	5,684.50	3,347.32	3,166.48	180.83	18.510		
19,000.00	7,870.00	5,042.00	5,042.00	164.91	87.04	-28.25	-6,863.26	5,684.50	3,380.41	3,197.29	183.12	18.460		
19,100.00	7,870.00	5,042.00	5,042.00	166.52	87.04	-28.25	-6,863.26	5,684.50	3,416.11	3,230.78	185.33	18.432		
19,200.00	7,870.00	5,042.00	5,042.00	168.13	87.04	-28.25	-6,863.26	5,684.50	3,454.34	3,266.86	187.48	18.425 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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,042.00	5,042.00	169.75	87.04	-28.25	-6,863.26	5,684.50	3,495.01	3,305.47	189.54	18.439	
19,383.51	7,870.00	5,042.00	5,042.00	171.10	87.04	-28.25	-6,863.26	5,684.50	3,530.78	3,339.58	191.20	18.466	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	145.22	-8,181.99	5,682.01	9,961.49					
100.00	100.00	66.00	66.00	0.13	0.54	145.22	-8,181.99	5,682.01	9,961.43	9,960.76	0.68	N/A		
200.00	200.00	166.00	166.00	0.49	1.97	145.22	-8,181.99	5,682.01	9,961.43	9,958.97	2.47	4,040.950		
300.00	300.00	266.00	266.00	0.85	3.72	145.22	-8,181.99	5,682.01	9,961.43	9,956.86	4.57	2,180.259		
400.00	400.00	366.00	366.00	1.21	5.46	145.22	-8,181.99	5,682.01	9,961.43	9,954.76	6.67	1,492.859		
500.00	500.00	466.00	466.00	1.57	7.21	145.22	-8,181.99	5,682.01	9,961.43	9,952.66	8.78	1,135.009		
600.00	600.00	566.00	566.00	1.93	8.95	145.22	-8,181.99	5,682.01	9,961.43	9,950.55	10.88	915.546		
700.00	699.98	665.98	665.98	2.28	10.70	81.42	-8,181.99	5,682.01	9,961.17	9,948.19	12.98	767.465		
800.00	799.84	765.84	765.84	2.64	12.44	81.46	-8,181.99	5,682.01	9,960.39	9,945.32	15.08	660.704		
900.00	899.45	865.45	865.45	3.00	14.18	81.54	-8,181.99	5,682.01	9,959.10	9,941.92	17.17	579.862		
1,000.00	998.70	964.70	964.70	3.37	15.91	81.64	-8,181.99	5,682.01	9,957.30	9,938.02	19.28	516.450		
1,100.00	1,097.47	1,063.47	1,063.47	3.76	17.64	81.77	-8,181.99	5,682.01	9,955.02	9,933.62	21.39	465.300		
1,200.00	1,195.62	1,161.62	1,161.62	4.18	19.35	81.94	-8,181.99	5,682.01	9,952.27	9,928.74	23.52	423.097		
1,300.00	1,293.06	1,259.06	1,259.06	4.63	21.05	82.12	-8,181.99	5,682.01	9,949.07	9,923.40	25.67	387.622		
1,400.00	1,389.64	1,355.64	1,355.64	5.11	22.74	82.34	-8,181.99	5,682.01	9,945.45	9,917.62	27.83	357.336		
1,500.00	1,485.27	1,451.27	1,451.27	5.63	24.40	82.58	-8,181.99	5,682.01	9,941.44	9,911.42	30.02	331.139		
1,600.00	1,579.82	1,545.82	1,545.82	6.20	26.05	82.84	-8,181.99	5,682.01	9,937.07	9,904.83	32.24	308.227		
1,700.00	1,673.17	1,639.17	1,639.17	6.83	27.68	83.13	-8,181.99	5,682.01	9,932.39	9,897.90	34.49	287.999		
1,800.00	1,765.21	1,731.21	1,731.21	7.51	29.29	83.43	-8,181.99	5,682.01	9,927.43	9,890.66	36.77	269.996		
1,900.00	1,855.84	1,821.84	1,821.84	8.24	30.87	83.75	-8,181.99	5,682.01	9,922.23	9,883.14	39.08	253.863		
2,000.00	1,944.94	1,910.94	1,910.94	9.05	32.43	84.09	-8,181.99	5,682.01	9,916.84	9,875.41	41.44	239.321		
2,100.00	2,032.39	2,001.61	1,998.39	9.91	34.01	84.45	-8,181.99	5,682.01	9,911.32	9,867.44	43.88	225.856		
2,200.00	2,118.11	2,084.11	2,084.11	10.85	35.45	84.81	-8,181.99	5,682.01	9,905.71	9,859.45	46.26	214.153		
2,300.00	2,201.97	2,167.97	2,167.97	11.85	36.91	85.19	-8,181.99	5,682.01	9,900.06	9,851.34	48.72	203.198		
2,400.00	2,283.88	2,249.88	2,249.88	12.93	38.34	85.57	-8,181.99	5,682.01	9,894.44	9,843.21	51.23	193.156		
2,429.47	2,307.63	2,273.63	2,273.63	13.26	38.76	85.69	-8,181.99	5,682.01	9,892.79	9,840.82	51.97	190.359		
2,500.00	2,364.26	2,330.26	2,330.26	14.06	39.75	85.88	-8,181.99	5,682.01	9,888.95	9,835.19	53.76	183.945		
2,600.00	2,444.56	2,410.56	2,410.56	15.22	41.15	86.16	-8,181.99	5,682.01	9,883.81	9,827.49	56.32	175.501		
2,700.00	2,524.85	2,509.15	2,490.85	16.39	42.87	86.44	-8,181.99	5,682.01	9,879.02	9,819.81	59.21	166.848		
2,800.00	2,605.14	2,571.14	2,571.14	17.57	43.95	86.72	-8,181.99	5,682.01	9,874.59	9,813.12	61.47	160.628		
2,900.00	2,685.43	2,651.43	2,651.43	18.76	45.35	86.99	-8,181.99	5,682.01	9,870.52	9,806.45	64.07	154.059		
3,000.00	2,765.73	2,731.73	2,731.73	19.96	46.75	87.27	-8,181.99	5,682.01	9,866.81	9,800.14	66.67	147.988		
3,100.00	2,846.02	2,812.02	2,812.02	21.16	48.15	87.55	-8,181.99	5,682.01	9,863.46	9,794.18	69.28	142.365		
3,200.00	2,926.31	2,907.69	2,892.31	22.37	49.82	87.83	-8,181.99	5,682.01	9,860.47	9,788.30	72.17	136.634		
3,300.00	3,006.60	2,972.60	2,972.60	23.59	50.96	88.11	-8,181.99	5,682.01	9,857.83	9,783.31	74.52	132.286		
3,400.00	3,086.90	3,052.90	3,052.90	24.81	52.36	88.38	-8,181.99	5,682.01	9,855.56	9,778.42	77.14	127.757		
3,500.00	3,167.19	3,133.19	3,133.19	26.03	53.76	88.66	-8,181.99	5,682.01	9,853.65	9,773.88	79.77	123.525		
3,600.00	3,247.48	3,213.48	3,213.48	27.25	55.16	88.94	-8,181.99	5,682.01	9,852.09	9,769.69	82.40	119.564		
3,700.00	3,327.77	3,306.23	3,293.77	28.48	56.78	89.22	-8,181.99	5,682.01	9,850.90	9,765.65	85.25	115.553		
3,800.00	3,408.07	3,374.07	3,374.07	29.71	57.96	89.50	-8,181.99	5,682.01	9,850.07	9,762.40	87.67	112.359		
3,900.00	3,488.36	3,454.36	3,454.36	30.94	59.36	89.78	-8,181.99	5,682.01	9,849.60	9,759.29	90.30	109.074		
3,980.79	3,553.23	3,519.23	3,519.23	31.94	60.50	90.00	-8,181.99	5,682.01	9,849.48	9,757.05	92.43	106.560		
4,000.00	3,568.65	3,534.65	3,534.65	32.17	60.77	90.05	-8,181.99	5,682.01	9,849.48	9,756.55	92.94	105.979		
4,100.00	3,648.95	3,614.95	3,614.95	33.41	62.17	90.33	-8,181.99	5,682.01	9,849.73	9,754.16	95.57	103.058		
4,200.00	3,729.24	3,704.76	3,695.24	34.64	63.74	90.61	-8,181.99	5,682.01	9,850.34	9,751.97	98.38	100.127		
4,300.00	3,809.53	3,775.53	3,775.53	35.88	64.97	90.89	-8,181.99	5,682.01	9,851.32	9,750.47	100.85	97.683		
4,400.00	3,889.82	3,855.82	3,855.82	37.12	66.37	91.17	-8,181.99	5,682.01	9,852.65	9,749.16	103.49	95.207		
4,500.00	3,970.12	3,936.12	3,936.12	38.36	67.77	91.45	-8,181.99	5,682.01	9,854.34	9,748.22	106.12	92.857		
4,600.00	4,050.41	4,016.41	4,016.41	39.60	69.17	91.72	-8,181.99	5,682.01	9,856.39	9,747.63	108.76	90.625		
4,700.00	4,130.70	4,103.30	4,096.70	40.84	70.69	92.00	-8,181.99	5,682.01	9,858.80	9,747.29	111.51	88.411		
4,800.00	4,210.99	4,176.99	4,176.99	42.08	71.98	92.28	-8,181.99	5,682.01	9,861.58	9,747.54	114.03	86.482		
4,900.00	4,291.29	4,257.29	4,257.29	43.32	73.38	92.56	-8,181.99	5,682.01	9,864.71	9,748.04	116.66	84.556		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,337.58	4,337.58	44.57	74.78	92.84	-8,181.99	5,682.01	9,868.20	9,748.90	119.30	82.719		
5,100.00	4,451.87	4,417.87	4,417.87	45.81	76.18	93.11	-8,181.99	5,682.01	9,872.05	9,750.12	121.93	80.966		
5,200.00	4,532.16	4,501.84	4,498.16	47.05	77.65	93.39	-8,181.99	5,682.01	9,876.25	9,751.63	124.62	79.250		
5,300.00	4,612.46	4,578.46	4,578.46	48.30	78.98	93.67	-8,181.99	5,682.01	9,880.82	9,753.63	127.19	77.688		
5,400.00	4,692.75	4,658.75	4,658.75	49.54	80.39	93.95	-8,181.99	5,682.01	9,885.74	9,755.93	129.81	76.155		
5,500.00	4,773.04	4,739.04	4,739.04	50.79	81.79	94.22	-8,181.99	5,682.01	9,891.02	9,758.59	132.43	74.686		
5,600.00	4,853.34	4,819.34	4,819.34	52.03	83.19	94.50	-8,181.99	5,682.01	9,896.66	9,761.60	135.06	73.278		
5,700.00	4,933.63	4,900.37	4,899.63	53.28	84.60	94.78	-8,181.99	5,682.01	9,902.65	9,764.96	137.69	71.921		
5,800.00	5,013.92	4,979.92	4,979.92	54.53	85.99	95.05	-8,181.99	5,682.01	9,908.99	9,768.70	140.29	70.631		
5,900.00	5,094.21	5,020.00	5,020.00	55.77	86.69	95.19	-8,181.99	5,682.01	9,915.77	9,773.57	142.20	69.731		
6,000.00	5,174.51	5,020.00	5,020.00	57.02	86.69	95.19	-8,181.99	5,682.01	9,923.48	9,780.08	143.39	69.205		
6,100.00	5,254.80	5,020.00	5,020.00	58.27	86.69	95.19	-8,181.99	5,682.01	9,932.18	9,787.61	144.57	68.700		
6,200.00	5,335.09	5,020.00	5,020.00	59.52	86.69	95.19	-8,181.99	5,682.01	9,941.89	9,796.14	145.74	68.216		
6,300.00	5,415.38	5,020.00	5,020.00	60.76	86.69	95.19	-8,181.99	5,682.01	9,952.58	9,805.69	146.90	67.752		
6,400.00	5,495.68	5,020.00	5,020.00	62.01	86.69	95.19	-8,181.99	5,682.01	9,964.27	9,816.24	148.04	67.309		
6,500.00	5,575.97	5,020.00	5,020.00	63.26	86.69	95.19	-8,181.99	5,682.01	9,976.95	9,827.79	149.17	66.885		
6,600.00	5,656.26	5,020.00	5,020.00	64.51	86.69	95.19	-8,181.99	5,682.01	9,990.62	9,840.34	150.28	66.481		
9,700.00	7,870.00	5,020.00	5,020.00	93.46	86.69	-28.11	-8,181.99	5,682.01	9,979.98	9,808.36	171.62	58.152		
9,800.00	7,870.00	5,020.00	5,020.00	93.11	86.69	-28.11	-8,181.99	5,682.01	9,885.29	9,713.96	171.32	57.699		
9,900.00	7,870.00	5,020.00	5,020.00	92.77	86.69	-28.11	-8,181.99	5,682.01	9,790.70	9,619.67	171.02	57.247		
10,000.00	7,870.00	5,020.00	5,020.00	92.46	86.69	-28.11	-8,181.99	5,682.01	9,696.22	9,525.50	170.72	56.796		
10,100.00	7,870.00	5,020.00	5,020.00	92.16	86.69	-28.11	-8,181.99	5,682.01	9,601.85	9,431.44	170.41	56.346		
10,200.00	7,870.00	5,020.00	5,020.00	91.87	86.69	-28.11	-8,181.99	5,682.01	9,507.60	9,337.50	170.09	55.896		
10,300.00	7,870.00	5,020.00	5,020.00	91.60	86.69	-28.11	-8,181.99	5,682.01	9,413.46	9,243.69	169.77	55.447		
10,400.00	7,870.00	5,020.00	5,020.00	91.34	86.69	-28.11	-8,181.99	5,682.01	9,319.45	9,150.01	169.45	54.999		
10,500.00	7,870.00	5,020.00	5,020.00	91.11	86.69	-28.11	-8,181.99	5,682.01	9,225.57	9,056.45	169.11	54.552		
10,600.00	7,870.00	5,020.00	5,020.00	90.88	86.69	-28.11	-8,181.99	5,682.01	9,131.81	8,963.03	168.78	54.106		
10,700.00	7,870.00	5,020.00	5,020.00	90.67	86.69	-28.11	-8,181.99	5,682.01	9,038.19	8,869.76	168.43	53.660		
10,800.00	7,870.00	5,020.00	5,020.00	90.48	86.69	-28.11	-8,181.99	5,682.01	8,944.71	8,776.62	168.08	53.216		
10,900.00	7,870.00	5,020.00	5,020.00	90.31	86.69	-28.11	-8,181.99	5,682.01	8,851.36	8,683.64	167.73	52.773		
11,000.00	7,870.00	5,020.00	5,020.00	90.15	86.69	-28.11	-8,181.99	5,682.01	8,758.17	8,590.81	167.36	52.330		
11,100.00	7,870.00	5,020.00	5,020.00	90.00	86.69	-28.11	-8,181.99	5,682.01	8,665.13	8,498.13	167.00	51.889		
11,200.00	7,870.00	5,020.00	5,020.00	89.88	86.69	-28.11	-8,181.99	5,682.01	8,572.24	8,405.62	166.62	51.448		
11,300.00	7,870.00	5,020.00	5,020.00	89.77	86.69	-28.11	-8,181.99	5,682.01	8,479.52	8,313.28	166.24	51.009		
11,400.00	7,870.00	5,020.00	5,020.00	89.68	86.69	-28.11	-8,181.99	5,682.01	8,386.96	8,221.11	165.85	50.570		
11,500.00	7,870.00	5,020.00	5,020.00	89.60	86.69	-28.11	-8,181.99	5,682.01	8,294.57	8,129.12	165.45	50.133		
11,600.00	7,870.00	5,020.00	5,020.00	89.55	86.69	-28.11	-8,181.99	5,682.01	8,202.37	8,037.32	165.05	49.697		
11,700.00	7,870.00	5,020.00	5,020.00	89.52	86.69	-28.11	-8,181.99	5,682.01	8,110.35	7,945.71	164.64	49.262		
11,800.00	7,870.00	5,020.00	5,020.00	89.50	86.69	-28.11	-8,181.99	5,682.01	8,018.52	7,854.30	164.22	48.828		
11,900.00	7,870.00	5,020.00	5,020.00	89.51	86.69	-28.11	-8,181.99	5,682.01	7,926.89	7,763.09	163.79	48.395		
12,000.00	7,870.00	5,020.00	5,020.00	89.54	86.69	-28.11	-8,181.99	5,682.01	7,835.46	7,672.10	163.36	47.964		
12,100.00	7,870.00	5,020.00	5,020.00	89.59	86.69	-28.11	-8,181.99	5,682.01	7,744.24	7,581.32	162.92	47.534		
12,200.00	7,870.00	5,020.00	5,020.00	89.66	86.69	-28.11	-8,181.99	5,682.01	7,653.25	7,490.77	162.47	47.105		
12,300.00	7,870.00	5,020.00	5,020.00	89.77	86.69	-28.11	-8,181.99	5,682.01	7,562.48	7,400.46	162.02	46.677		
12,400.00	7,870.00	5,020.00	5,020.00	89.89	86.69	-28.11	-8,181.99	5,682.01	7,471.94	7,310.39	161.55	46.251		
12,500.00	7,870.00	5,020.00	5,020.00	90.05	86.69	-28.11	-8,181.99	5,682.01	7,381.66	7,220.57	161.08	45.826		
12,600.00	7,870.00	5,020.00	5,020.00	90.24	86.69	-28.11	-8,181.99	5,682.01	7,291.62	7,131.02	160.60	45.402		
12,700.00	7,870.00	5,020.00	5,020.00	90.46	86.69	-28.11	-8,181.99	5,682.01	7,201.85	7,041.73	160.11	44.979		
12,800.00	7,870.00	5,020.00	5,020.00	90.71	86.69	-28.11	-8,181.99	5,682.01	7,112.35	6,952.73	159.62	44.558		
12,900.00	7,870.00	5,020.00	5,020.00	90.99	86.69	-28.11	-8,181.99	5,682.01	7,023.13	6,864.02	159.12	44.139		
13,000.00	7,870.00	5,020.00	5,020.00	91.32	86.69	-28.11	-8,181.99	5,682.01	6,934.21	6,775.61	158.60	43.720		
13,100.00	7,870.00	5,020.00	5,020.00	91.68	86.69	-28.11	-8,181.99	5,682.01	6,845.59	6,687.51	158.09	43.303		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,200.00	7,870.00	5,020.00	5,020.00	92.08	86.69	-28.11	-8,181.99	5,682.01	6,757.30	6,599.74	157.56	42.887		
13,300.00	7,870.00	5,020.00	5,020.00	92.52	86.69	-28.11	-8,181.99	5,682.01	6,669.33	6,512.30	157.02	42.473		
13,400.00	7,870.00	5,020.00	5,020.00	93.00	86.69	-28.11	-8,181.99	5,682.01	6,581.70	6,425.22	156.48	42.060		
13,500.00	7,870.00	5,020.00	5,020.00	93.53	86.69	-28.11	-8,181.99	5,682.01	6,494.44	6,338.50	155.94	41.648		
13,600.00	7,870.00	5,020.00	5,020.00	94.10	86.69	-28.11	-8,181.99	5,682.01	6,407.54	6,252.16	155.38	41.238		
13,700.00	7,870.00	5,020.00	5,020.00	94.72	86.69	-28.11	-8,181.99	5,682.01	6,321.04	6,166.22	154.82	40.829		
13,800.00	7,870.00	5,020.00	5,020.00	95.38	86.69	-28.11	-8,181.99	5,682.01	6,234.93	6,080.68	154.25	40.420		
13,900.00	7,870.00	5,020.00	5,020.00	96.09	86.69	-28.11	-8,181.99	5,682.01	6,149.25	5,995.57	153.68	40.014		
14,000.00	7,870.00	5,020.00	5,020.00	96.84	86.69	-28.11	-8,181.99	5,682.01	6,064.00	5,910.90	153.10	39.608		
14,100.00	7,870.00	5,020.00	5,020.00	97.64	86.69	-28.11	-8,181.99	5,682.01	5,979.22	5,826.70	152.52	39.203		
14,200.00	7,870.00	5,020.00	5,020.00	98.48	86.69	-28.11	-8,181.99	5,682.01	5,894.91	5,742.97	151.94	38.799		
14,300.00	7,870.00	5,020.00	5,020.00	99.37	86.69	-28.11	-8,181.99	5,682.01	5,811.09	5,659.75	151.35	38.395		
14,400.00	7,870.00	5,020.00	5,020.00	100.30	86.69	-28.11	-8,181.99	5,682.01	5,727.80	5,577.04	150.76	37.993		
14,500.00	7,870.00	5,020.00	5,020.00	101.26	86.69	-28.11	-8,181.99	5,682.01	5,645.05	5,494.88	150.17	37.590		
14,600.00	7,870.00	5,020.00	5,020.00	102.27	86.69	-28.11	-8,181.99	5,682.01	5,562.87	5,413.28	149.58	37.189		
14,700.00	7,870.00	5,020.00	5,020.00	103.31	86.69	-28.11	-8,181.99	5,682.01	5,481.27	5,332.27	149.00	36.787		
14,800.00	7,870.00	5,020.00	5,020.00	104.38	86.69	-28.11	-8,181.99	5,682.01	5,400.30	5,251.88	148.42	36.386		
14,900.00	7,870.00	5,020.00	5,020.00	105.49	86.69	-28.11	-8,181.99	5,682.01	5,319.98	5,172.13	147.84	35.984		
15,000.00	7,870.00	5,020.00	5,020.00	106.63	86.69	-28.11	-8,181.99	5,682.01	5,240.33	5,093.05	147.28	35.582		
15,100.00	7,870.00	5,020.00	5,020.00	107.80	86.69	-28.11	-8,181.99	5,682.01	5,161.39	5,014.67	146.72	35.179		
15,200.00	7,870.00	5,020.00	5,020.00	109.00	86.69	-28.11	-8,181.99	5,682.01	5,083.19	4,937.02	146.17	34.775		
15,300.00	7,870.00	5,020.00	5,020.00	110.22	86.69	-28.11	-8,181.99	5,682.01	5,005.77	4,860.12	145.64	34.370		
15,400.00	7,870.00	5,020.00	5,020.00	111.47	86.69	-28.11	-8,181.99	5,682.01	4,929.16	4,784.03	145.13	33.964		
15,500.00	7,870.00	5,020.00	5,020.00	112.74	86.69	-28.11	-8,181.99	5,682.01	4,853.40	4,708.76	144.63	33.556		
15,600.00	7,870.00	5,020.00	5,020.00	114.03	86.69	-28.11	-8,181.99	5,682.01	4,778.53	4,634.37	144.16	33.146		
15,700.00	7,870.00	5,020.00	5,020.00	115.34	86.69	-28.11	-8,181.99	5,682.01	4,704.60	4,560.88	143.72	32.734		
15,800.00	7,870.00	5,020.00	5,020.00	116.68	86.69	-28.11	-8,181.99	5,682.01	4,631.64	4,488.34	143.31	32.320		
15,900.00	7,870.00	5,020.00	5,020.00	118.02	86.69	-28.11	-8,181.99	5,682.01	4,559.72	4,416.79	142.93	31.903		
16,000.00	7,870.00	5,020.00	5,020.00	119.39	86.69	-28.11	-8,181.99	5,682.01	4,488.86	4,346.28	142.58	31.482		
16,100.00	7,870.00	5,020.00	5,020.00	120.77	86.69	-28.11	-8,181.99	5,682.01	4,419.14	4,276.86	142.28	31.059		
16,200.00	7,870.00	5,020.00	5,020.00	122.17	86.69	-28.11	-8,181.99	5,682.01	4,350.60	4,208.57	142.02	30.633		
16,300.00	7,870.00	5,020.00	5,020.00	123.58	86.69	-28.11	-8,181.99	5,682.01	4,283.29	4,141.47	141.82	30.203		
16,400.00	7,870.00	5,020.00	5,020.00	125.00	86.69	-28.11	-8,181.99	5,682.01	4,217.28	4,075.62	141.66	29.770		
16,500.00	7,870.00	5,020.00	5,020.00	126.43	86.69	-28.11	-8,181.99	5,682.01	4,152.63	4,011.07	141.57	29.334		
16,600.00	7,870.00	5,020.00	5,020.00	127.88	86.69	-28.11	-8,181.99	5,682.01	4,089.40	3,947.88	141.53	28.895		
16,700.00	7,870.00	5,020.00	5,020.00	129.34	86.69	-28.11	-8,181.99	5,682.01	4,027.67	3,886.11	141.56	28.453		
16,800.00	7,870.00	5,020.00	5,020.00	130.81	86.69	-28.11	-8,181.99	5,682.01	3,967.49	3,825.84	141.65	28.009		
16,900.00	7,870.00	5,020.00	5,020.00	132.28	86.69	-28.11	-8,181.99	5,682.01	3,908.95	3,767.13	141.82	27.563		
17,000.00	7,870.00	5,020.00	5,020.00	133.77	86.69	-28.11	-8,181.99	5,682.01	3,852.11	3,710.05	142.06	27.115		
17,100.00	7,870.00	5,020.00	5,020.00	135.27	86.69	-28.11	-8,181.99	5,682.01	3,797.06	3,654.68	142.38	26.668		
17,200.00	7,870.00	5,020.00	5,020.00	136.77	86.69	-28.11	-8,181.99	5,682.01	3,743.87	3,601.09	142.78	26.221		
17,300.00	7,870.00	5,020.00	5,020.00	138.28	86.69	-28.11	-8,181.99	5,682.01	3,692.62	3,549.35	143.27	25.774		
17,400.00	7,870.00	5,020.00	5,020.00	139.80	86.69	-28.11	-8,181.99	5,682.01	3,643.40	3,499.56	143.83	25.331		
17,500.00	7,870.00	5,020.00	5,020.00	141.33	86.69	-28.11	-8,181.99	5,682.01	3,596.28	3,451.79	144.49	24.890		
17,600.00	7,870.00	5,020.00	5,020.00	142.86	86.69	-28.11	-8,181.99	5,682.01	3,551.35	3,406.12	145.23	24.453		
17,700.00	7,870.00	5,020.00	5,020.00	144.40	86.69	-28.11	-8,181.99	5,682.01	3,508.70	3,362.64	146.06	24.022		
17,800.00	7,870.00	5,020.00	5,020.00	145.95	86.69	-28.11	-8,181.99	5,682.01	3,468.41	3,321.43	146.98	23.598		
17,900.00	7,870.00	5,020.00	5,020.00	147.50	86.69	-28.11	-8,181.99	5,682.01	3,430.56	3,282.57	147.99	23.181		
18,000.00	7,870.00	5,020.00	5,020.00	149.06	86.69	-28.11	-8,181.99	5,682.01	3,395.24	3,246.14	149.10	22.772		
18,100.00	7,870.00	5,020.00	5,020.00	150.63	86.69	-28.11	-8,181.99	5,682.01	3,362.52	3,212.22	150.30	22.373		
18,200.00	7,870.00	5,020.00	5,020.00	152.20	86.69	-28.11	-8,181.99	5,682.01	3,332.48	3,180.89	151.59	21.984		
18,300.00	7,870.00	5,020.00	5,020.00	153.77	86.69	-28.11	-8,181.99	5,682.01	3,305.20	3,152.22	152.97	21.606		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,400.00	7,870.00	5,020.00	5,020.00	155.35	86.69	-28.11	-8,181.99	5,682.01	3,280.73	3,126.27	154.46	21.240	
18,500.00	7,870.00	5,020.00	5,020.00	156.93	86.69	-28.11	-8,181.99	5,682.01	3,259.16	3,103.12	156.04	20.887	
18,600.00	7,870.00	5,020.00	5,020.00	158.52	86.69	-28.11	-8,181.99	5,682.01	3,240.52	3,082.81	157.71	20.547	
18,700.00	7,870.00	5,020.00	5,020.00	160.11	86.69	-28.11	-8,181.99	5,682.01	3,224.88	3,065.40	159.48	20.221	
18,800.00	7,870.00	5,020.00	5,020.00	161.71	86.69	-28.11	-8,181.99	5,682.01	3,212.28	3,050.93	161.35	19.909	
18,900.00	7,870.00	5,020.00	5,020.00	163.31	86.69	-28.11	-8,181.99	5,682.01	3,202.76	3,039.45	163.31	19.612	
19,000.00	7,870.00	5,020.00	5,020.00	164.91	86.69	-28.11	-8,181.99	5,682.01	3,196.33	3,030.98	165.35	19.331	
19,100.00	7,870.00	5,020.00	5,020.00	166.52	86.69	-28.11	-8,181.99	5,682.01	3,193.03	3,025.55	167.48	19.065	
19,155.56	7,870.00	5,020.00	5,020.00	167.42	86.69	-28.11	-8,181.99	5,682.01	3,192.54	3,023.85	168.69	18.925 CC	
19,200.00	7,870.00	5,020.00	5,020.00	168.13	86.69	-28.11	-8,181.99	5,682.01	3,192.85	3,023.18	169.68	18.817 ES	
19,300.00	7,870.00	5,020.00	5,020.00	169.75	86.69	-28.11	-8,181.99	5,682.01	3,195.81	3,023.87	171.94	18.587	
19,383.51	7,870.00	5,020.00	5,020.00	171.10	86.69	-28.11	-8,181.99	5,682.01	3,200.67	3,026.80	173.87	18.408 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	162.27	-5,565.53	1,778.98	5,843.01					
100.00	100.00	70.00	70.00	0.13	0.57	162.27	-5,565.53	1,778.98	5,842.94	5,842.23	0.70	8,316.965		
200.00	200.00	170.00	170.00	0.49	2.03	162.27	-5,565.53	1,778.98	5,842.94	5,840.41	2.53	2,312.928		
300.00	300.00	270.00	270.00	0.85	3.78	162.27	-5,565.53	1,778.98	5,842.94	5,838.31	4.63	1,261.971		
400.00	400.00	370.00	370.00	1.21	5.52	162.27	-5,565.53	1,778.98	5,842.94	5,836.20	6.73	867.701		
500.00	500.00	470.00	470.00	1.57	7.27	162.27	-5,565.53	1,778.98	5,842.94	5,834.10	8.84	661.144		
600.00	600.00	570.00	570.00	1.93	9.01	162.27	-5,565.53	1,778.98	5,842.94	5,832.00	10.94	534.020		
700.00	699.98	669.98	669.98	2.28	10.76	98.47	-5,565.53	1,778.98	5,843.19	5,830.15	13.04	448.077		
800.00	799.84	769.84	769.84	2.64	12.50	98.50	-5,565.53	1,778.98	5,843.97	5,828.83	15.14	386.065		
900.00	899.45	869.45	869.45	3.00	14.24	98.56	-5,565.53	1,778.98	5,845.26	5,828.03	17.24	339.098		
1,000.00	998.70	968.70	968.70	3.37	15.97	98.64	-5,565.53	1,778.98	5,847.10	5,827.76	19.34	302.265		
1,100.00	1,097.47	1,067.47	1,067.47	3.76	17.70	98.74	-5,565.53	1,778.98	5,849.49	5,828.03	21.46	272.572		
1,200.00	1,195.62	1,165.62	1,165.62	4.18	19.41	98.87	-5,565.53	1,778.98	5,852.47	5,828.88	23.59	248.096		
1,300.00	1,293.06	1,263.06	1,263.06	4.63	21.11	99.01	-5,565.53	1,778.98	5,856.05	5,830.32	25.74	227.546		
1,400.00	1,389.64	1,359.64	1,359.64	5.11	22.80	99.16	-5,565.53	1,778.98	5,860.28	5,832.38	27.90	210.029		
1,500.00	1,485.27	1,455.27	1,455.27	5.63	24.47	99.34	-5,565.53	1,778.98	5,865.19	5,835.10	30.09	194.905		
1,600.00	1,579.82	1,549.82	1,549.82	6.20	26.12	99.52	-5,565.53	1,778.98	5,870.82	5,838.51	32.31	181.707		
1,700.00	1,673.17	1,643.17	1,643.17	6.83	27.74	99.72	-5,565.53	1,778.98	5,877.23	5,842.67	34.56	170.083		
1,800.00	1,765.21	1,735.21	1,735.21	7.51	29.35	99.92	-5,565.53	1,778.98	5,884.45	5,847.62	36.83	159.767		
1,900.00	1,855.84	1,825.84	1,825.84	8.24	30.93	100.13	-5,565.53	1,778.98	5,892.54	5,853.40	39.14	150.551		
2,000.00	1,944.94	1,914.94	1,914.94	9.05	32.49	100.34	-5,565.53	1,778.98	5,901.56	5,860.08	41.48	142.273		
2,100.00	2,032.39	2,002.39	2,002.39	9.91	34.01	100.55	-5,565.53	1,778.98	5,911.56	5,867.71	43.85	134.802		
2,200.00	2,118.11	2,088.11	2,088.11	10.85	35.51	100.75	-5,565.53	1,778.98	5,922.61	5,876.35	46.26	128.031		
2,300.00	2,201.97	2,171.97	2,171.97	11.85	36.97	100.95	-5,565.53	1,778.98	5,934.75	5,886.05	48.70	121.874		
2,400.00	2,283.88	2,253.88	2,253.88	12.93	38.40	101.14	-5,565.53	1,778.98	5,948.04	5,896.88	51.16	116.260		
2,429.47	2,307.63	2,277.63	2,277.63	13.26	38.82	101.19	-5,565.53	1,778.98	5,952.19	5,900.30	51.89	114.701		
2,500.00	2,364.26	2,334.26	2,334.26	14.06	39.81	101.51	-5,565.53	1,778.98	5,962.39	5,908.74	53.65	111.134		
2,600.00	2,444.56	2,414.56	2,414.56	15.22	41.21	101.96	-5,565.53	1,778.98	5,977.32	5,921.16	56.15	106.445		
2,700.00	2,524.85	2,505.15	2,494.85	16.39	42.79	102.42	-5,565.53	1,778.98	5,992.80	5,933.96	58.85	101.840		
2,800.00	2,605.14	2,575.14	2,575.14	17.57	44.01	102.87	-5,565.53	1,778.98	6,008.84	5,947.66	61.18	98.212		
2,900.00	2,685.43	2,655.43	2,655.43	18.76	45.41	103.32	-5,565.53	1,778.98	6,025.43	5,961.73	63.70	94.587		
3,000.00	2,765.73	2,735.73	2,735.73	19.96	46.81	103.77	-5,565.53	1,778.98	6,042.56	5,976.33	66.22	91.245		
3,100.00	2,846.02	2,816.02	2,816.02	21.16	48.22	104.21	-5,565.53	1,778.98	6,060.22	5,991.48	68.74	88.156		
3,200.00	2,926.31	2,903.69	2,896.31	22.37	49.75	104.66	-5,565.53	1,778.98	6,078.42	6,007.03	71.39	85.142		
3,300.00	3,006.60	2,976.60	2,976.60	23.59	51.02	105.10	-5,565.53	1,778.98	6,097.15	6,023.37	73.78	82.641		
3,400.00	3,086.90	3,056.90	3,056.90	24.81	52.42	105.54	-5,565.53	1,778.98	6,116.40	6,040.11	76.29	80.171		
3,500.00	3,167.19	3,137.19	3,137.19	26.03	53.82	105.98	-5,565.53	1,778.98	6,136.17	6,057.37	78.80	77.870		
3,600.00	3,247.48	3,217.48	3,217.48	27.25	55.22	106.42	-5,565.53	1,778.98	6,156.45	6,075.15	81.30	75.721		
3,700.00	3,327.77	3,302.23	3,297.77	28.48	56.70	106.86	-5,565.53	1,778.98	6,177.25	6,093.37	83.88	73.644		
3,800.00	3,408.07	3,378.07	3,378.07	29.71	58.02	107.29	-5,565.53	1,778.98	6,198.54	6,112.25	86.30	71.830		
3,900.00	3,488.36	3,458.36	3,458.36	30.94	59.43	107.72	-5,565.53	1,778.98	6,220.34	6,131.55	88.78	70.063		
4,000.00	3,568.65	3,538.65	3,538.65	32.17	60.83	108.15	-5,565.53	1,778.98	6,242.62	6,151.36	91.26	68.403		
4,100.00	3,648.95	3,618.95	3,618.95	33.41	62.23	108.58	-5,565.53	1,778.98	6,265.40	6,171.66	93.74	66.841		
4,200.00	3,729.24	3,700.76	3,699.24	34.64	63.66	109.00	-5,565.53	1,778.98	6,288.65	6,192.43	96.23	65.351		
4,300.00	3,809.53	3,779.53	3,779.53	35.88	65.03	109.43	-5,565.53	1,778.98	6,312.39	6,213.73	98.66	63.980		
4,400.00	3,889.82	3,859.82	3,859.82	37.12	66.43	109.85	-5,565.53	1,778.98	6,336.60	6,235.48	101.11	62.668		
4,500.00	3,970.12	3,940.12	3,940.12	38.36	67.83	110.27	-5,565.53	1,778.98	6,361.27	6,257.71	103.56	61.427		
4,600.00	4,050.41	4,020.41	4,020.41	39.60	69.24	110.68	-5,565.53	1,778.98	6,386.40	6,280.41	105.99	60.252		
4,700.00	4,130.70	4,100.70	4,100.70	40.84	70.64	111.10	-5,565.53	1,778.98	6,411.99	6,303.57	108.42	59.139		
4,800.00	4,210.99	4,180.99	4,180.99	42.08	72.04	111.51	-5,565.53	1,778.98	6,438.03	6,327.19	110.84	58.082		
4,900.00	4,291.29	4,261.29	4,261.29	43.32	73.44	111.92	-5,565.53	1,778.98	6,464.52	6,351.26	113.26	57.079		
5,000.00	4,371.58	4,341.58	4,341.58	44.57	74.84	112.33	-5,565.53	1,778.98	6,491.44	6,375.78	115.66	56.125		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,421.87	4,421.87	45.81	76.24	112.73	-5,565.53	1,778.98	6,518.80	6,400.74	118.06	55.217		
5,200.00	4,532.16	4,502.16	4,502.16	47.05	77.64	113.13	-5,565.53	1,778.98	6,546.58	6,426.14	120.45	54.353		
5,300.00	4,612.46	4,582.46	4,582.46	48.30	79.05	113.53	-5,565.53	1,778.98	6,574.79	6,451.97	122.83	53.529		
5,400.00	4,692.75	4,662.75	4,662.75	49.54	80.45	113.93	-5,565.53	1,778.98	6,603.42	6,478.22	125.20	52.744		
5,500.00	4,773.04	4,743.04	4,743.04	50.79	81.85	114.33	-5,565.53	1,778.98	6,632.46	6,504.90	127.56	51.995		
5,600.00	4,853.34	4,823.34	4,823.34	52.03	83.25	114.72	-5,565.53	1,778.98	6,661.90	6,531.99	129.92	51.279		
5,700.00	4,933.63	4,903.63	4,903.63	53.28	84.65	115.11	-5,565.53	1,778.98	6,691.75	6,559.49	132.26	50.595		
5,800.00	5,013.92	4,983.92	4,983.92	54.53	86.05	115.50	-5,565.53	1,778.98	6,722.00	6,587.40	134.60	49.941		
5,900.00	5,094.21	5,064.21	5,064.21	55.77	87.45	115.88	-5,565.53	1,778.98	6,752.63	6,615.70	136.93	49.315		
6,000.00	5,174.51	5,125.00	5,125.00	57.02	88.51	116.17	-5,565.53	1,778.98	6,783.68	6,644.78	138.90	48.839		
6,100.00	5,254.80	5,125.00	5,125.00	58.27	88.51	116.17	-5,565.53	1,778.98	6,815.78	6,676.02	139.76	48.769		
6,200.00	5,335.09	5,125.00	5,125.00	59.52	88.51	116.17	-5,565.53	1,778.98	6,849.19	6,708.61	140.58	48.720		
6,300.00	5,415.38	5,125.00	5,125.00	60.76	88.51	116.17	-5,565.53	1,778.98	6,883.89	6,742.51	141.38	48.690		
6,400.00	5,495.68	5,125.00	5,125.00	62.01	88.51	116.17	-5,565.53	1,778.98	6,919.87	6,777.71	142.15	48.679		
6,500.00	5,575.97	5,125.00	5,125.00	63.26	88.51	116.17	-5,565.53	1,778.98	6,957.09	6,814.20	142.90	48.687		
6,600.00	5,656.26	5,125.00	5,125.00	64.51	88.51	116.17	-5,565.53	1,778.98	6,995.55	6,851.94	143.61	48.712		
6,700.00	5,736.55	5,125.00	5,125.00	65.76	88.51	116.17	-5,565.53	1,778.98	7,035.22	6,890.92	144.30	48.754		
6,800.00	5,816.85	5,125.00	5,125.00	67.01	88.51	116.17	-5,565.53	1,778.98	7,076.07	6,931.11	144.96	48.814		
6,900.00	5,897.14	5,125.00	5,125.00	68.26	88.51	116.17	-5,565.53	1,778.98	7,118.10	6,972.51	145.60	48.889		
7,000.00	5,977.43	5,125.00	5,125.00	69.50	88.51	116.17	-5,565.53	1,778.98	7,161.28	7,015.08	146.21	48.981		
7,100.00	6,057.72	5,125.00	5,125.00	70.75	88.51	116.17	-5,565.53	1,778.98	7,205.59	7,058.80	146.79	49.087		
7,200.00	6,138.02	5,125.00	5,125.00	72.00	88.51	116.17	-5,565.53	1,778.98	7,251.01	7,103.66	147.35	49.209		
7,300.00	6,218.31	5,125.00	5,125.00	73.25	88.51	116.17	-5,565.53	1,778.98	7,297.51	7,149.62	147.89	49.345		
7,400.00	6,298.60	5,125.00	5,125.00	74.50	88.51	116.17	-5,565.53	1,778.98	7,345.08	7,196.68	148.40	49.494		
7,500.00	6,378.90	5,125.00	5,125.00	75.75	88.51	116.17	-5,565.53	1,778.98	7,393.70	7,244.81	148.89	49.658		
7,600.00	6,459.19	5,125.00	5,125.00	77.00	88.51	116.17	-5,565.53	1,778.98	7,443.35	7,293.98	149.36	49.834		
7,700.00	6,539.48	5,125.00	5,125.00	78.25	88.51	116.17	-5,565.53	1,778.98	7,494.00	7,344.19	149.81	50.023		
7,800.00	6,619.77	5,125.00	5,125.00	79.50	88.51	116.17	-5,565.53	1,778.98	7,545.63	7,395.39	150.24	50.225		
7,900.00	6,700.07	5,125.00	5,125.00	80.75	88.51	116.17	-5,565.53	1,778.98	7,598.23	7,447.59	150.64	50.438		
8,000.00	6,780.36	5,125.00	5,125.00	82.00	88.51	116.17	-5,565.53	1,778.98	7,651.78	7,500.75	151.03	50.664		
8,100.00	6,860.65	5,125.00	5,125.00	83.25	88.51	116.17	-5,565.53	1,778.98	7,706.25	7,554.85	151.40	50.900		
8,200.00	6,940.94	5,125.00	5,125.00	84.50	88.51	116.17	-5,565.53	1,778.98	7,761.63	7,609.88	151.75	51.147		
8,300.00	7,021.24	5,125.00	5,125.00	85.76	88.51	116.17	-5,565.53	1,778.98	7,817.89	7,665.81	152.08	51.405		
8,400.00	7,101.53	5,125.00	5,125.00	87.01	88.51	116.17	-5,565.53	1,778.98	7,875.02	7,722.62	152.40	51.674		
8,500.00	7,181.82	5,125.00	5,125.00	88.26	88.51	116.17	-5,565.53	1,778.98	7,933.00	7,780.31	152.70	51.952		
8,605.60	7,266.61	5,125.00	5,125.00	89.58	88.51	116.17	-5,565.53	1,778.98	7,995.13	7,842.13	153.00	52.257		
8,650.00	7,302.60	5,125.00	5,125.00	90.13	88.51	110.12	-5,565.53	1,778.98	8,020.13	7,867.00	153.12	52.377		
8,700.00	7,343.78	5,125.00	5,125.00	90.72	88.51	102.83	-5,565.53	1,778.98	8,045.00	7,891.73	153.27	52.490		
8,750.00	7,385.32	5,125.00	5,125.00	91.28	88.51	95.24	-5,565.53	1,778.98	8,066.26	7,912.84	153.41	52.578		
8,800.00	7,426.92	5,125.00	5,125.00	91.81	88.51	87.63	-5,565.53	1,778.98	8,083.77	7,930.21	153.56	52.643		
8,850.00	7,468.27	5,125.00	5,125.00	92.29	88.51	80.29	-5,565.53	1,778.98	8,097.43	7,943.73	153.70	52.684		
8,900.00	7,509.04	5,125.00	5,125.00	92.72	88.51	73.49	-5,565.53	1,778.98	8,107.14	7,953.32	153.83	52.703		
8,950.00	7,548.93	5,125.00	5,125.00	93.10	88.51	67.37	-5,565.53	1,778.98	8,112.86	7,958.92	153.94	52.702		
9,000.00	7,587.63	5,125.00	5,125.00	93.43	88.51	62.01	-5,565.53	1,778.98	8,114.54	7,960.51	154.04	52.680		
9,050.00	7,624.85	5,125.00	5,125.00	93.71	88.51	57.39	-5,565.53	1,778.98	8,112.18	7,958.07	154.11	52.638		
9,100.00	7,660.30	5,125.00	5,125.00	93.93	88.51	53.48	-5,565.53	1,778.98	8,105.79	7,951.62	154.17	52.577		
9,150.00	7,693.72	5,125.00	5,125.00	94.10	88.51	50.19	-5,565.53	1,778.98	8,095.41	7,941.20	154.21	52.497		
9,200.00	7,724.85	5,125.00	5,125.00	94.23	88.51	47.47	-5,565.53	1,778.98	8,081.10	7,926.87	154.22	52.399		
9,250.00	7,753.45	5,125.00	5,125.00	94.30	88.51	45.24	-5,565.53	1,778.98	8,062.95	7,908.73	154.22	52.283		
9,300.00	7,779.31	5,125.00	5,125.00	94.34	88.51	43.45	-5,565.53	1,778.98	8,041.07	7,886.88	154.20	52.149		
9,350.00	7,802.23	5,125.00	5,125.00	94.33	88.51	42.06	-5,565.53	1,778.98	8,015.61	7,861.45	154.16	51.997		
9,400.00	7,822.03	5,125.00	5,125.00	94.28	88.51	41.03	-5,565.53	1,778.98	7,986.71	7,832.61	154.10	51.827		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	5,125.00	5,125.00	94.20	88.51	40.34	-5,565.53	1,778.98	7,954.57	7,800.53	154.04	51.641		
9,500.00	7,851.72	5,125.00	5,125.00	94.10	88.51	40.00	-5,565.53	1,778.98	7,919.39	7,765.43	153.96	51.437		
9,550.00	7,861.37	5,125.00	5,125.00	93.96	88.51	40.02	-5,565.53	1,778.98	7,881.41	7,727.52	153.88	51.217		
9,600.00	7,867.46	5,125.00	5,125.00	93.81	88.51	40.44	-5,565.53	1,778.98	7,840.86	7,687.06	153.80	50.980		
9,650.00	7,869.94	5,125.00	5,125.00	93.64	88.51	41.34	-5,565.53	1,778.98	7,798.02	7,644.30	153.72	50.728		
9,659.14	7,870.00	5,125.00	5,125.00	93.60	88.51	41.57	-5,565.53	1,778.98	7,789.97	7,636.26	153.71	50.680		
9,700.00	7,870.00	5,125.00	5,125.00	93.46	88.51	41.57	-5,565.53	1,778.98	7,753.84	7,600.19	153.65	50.466		
9,800.00	7,870.00	5,125.00	5,125.00	93.11	88.51	41.57	-5,565.53	1,778.98	7,665.61	7,512.12	153.49	49.943		
9,900.00	7,870.00	5,125.00	5,125.00	92.77	88.51	41.57	-5,565.53	1,778.98	7,577.67	7,424.35	153.32	49.423		
10,000.00	7,870.00	5,125.00	5,125.00	92.46	88.51	41.57	-5,565.53	1,778.98	7,490.03	7,336.88	153.16	48.904		
10,100.00	7,870.00	5,125.00	5,125.00	92.16	88.51	41.57	-5,565.53	1,778.98	7,402.71	7,249.72	152.99	48.387		
10,200.00	7,870.00	5,125.00	5,125.00	91.87	88.51	41.57	-5,565.53	1,778.98	7,315.72	7,162.90	152.82	47.872		
10,300.00	7,870.00	5,125.00	5,125.00	91.60	88.51	41.57	-5,565.53	1,778.98	7,229.05	7,076.41	152.64	47.360		
10,400.00	7,870.00	5,125.00	5,125.00	91.34	88.51	41.57	-5,565.53	1,778.98	7,142.74	6,990.28	152.46	46.849		
10,500.00	7,870.00	5,125.00	5,125.00	91.11	88.51	41.57	-5,565.53	1,778.98	7,056.79	6,904.51	152.28	46.340		
10,600.00	7,870.00	5,125.00	5,125.00	90.88	88.51	41.57	-5,565.53	1,778.98	6,971.22	6,819.12	152.10	45.834		
10,700.00	7,870.00	5,125.00	5,125.00	90.67	88.51	41.57	-5,565.53	1,778.98	6,886.03	6,734.12	151.91	45.330		
10,800.00	7,870.00	5,125.00	5,125.00	90.48	88.51	41.57	-5,565.53	1,778.98	6,801.25	6,649.53	151.72	44.828		
10,900.00	7,870.00	5,125.00	5,125.00	90.31	88.51	41.57	-5,565.53	1,778.98	6,716.88	6,565.36	151.52	44.329		
11,000.00	7,870.00	5,125.00	5,125.00	90.15	88.51	41.57	-5,565.53	1,778.98	6,632.95	6,481.62	151.33	43.832		
11,100.00	7,870.00	5,125.00	5,125.00	90.00	88.51	41.57	-5,565.53	1,778.98	6,549.47	6,398.35	151.12	43.338		
11,200.00	7,870.00	5,125.00	5,125.00	89.88	88.51	41.57	-5,565.53	1,778.98	6,466.46	6,315.54	150.92	42.847		
11,300.00	7,870.00	5,125.00	5,125.00	89.77	88.51	41.57	-5,565.53	1,778.98	6,383.94	6,233.23	150.71	42.359		
11,400.00	7,870.00	5,125.00	5,125.00	89.68	88.51	41.57	-5,565.53	1,778.98	6,301.92	6,151.42	150.50	41.874		
11,500.00	7,870.00	5,125.00	5,125.00	89.60	88.51	41.57	-5,565.53	1,778.98	6,220.43	6,070.15	150.28	41.392		
11,600.00	7,870.00	5,125.00	5,125.00	89.55	88.51	41.57	-5,565.53	1,778.98	6,139.49	5,989.42	150.06	40.913		
11,700.00	7,870.00	5,125.00	5,125.00	89.52	88.51	41.57	-5,565.53	1,778.98	6,059.11	5,909.27	149.84	40.438		
11,800.00	7,870.00	5,125.00	5,125.00	89.50	88.51	41.57	-5,565.53	1,778.98	5,979.33	5,829.72	149.61	39.966		
11,900.00	7,870.00	5,125.00	5,125.00	89.51	88.51	41.57	-5,565.53	1,778.98	5,900.16	5,750.78	149.38	39.498		
12,000.00	7,870.00	5,125.00	5,125.00	89.54	88.51	41.57	-5,565.53	1,778.98	5,821.64	5,672.49	149.15	39.033		
12,100.00	7,870.00	5,125.00	5,125.00	89.59	88.51	41.57	-5,565.53	1,778.98	5,743.78	5,594.87	148.91	38.572		
12,200.00	7,870.00	5,125.00	5,125.00	89.66	88.51	41.57	-5,565.53	1,778.98	5,666.62	5,517.95	148.67	38.116		
12,300.00	7,870.00	5,125.00	5,125.00	89.77	88.51	41.57	-5,565.53	1,778.98	5,590.18	5,441.75	148.42	37.664		
12,400.00	7,870.00	5,125.00	5,125.00	89.89	88.51	41.57	-5,565.53	1,778.98	5,514.49	5,366.32	148.18	37.216		
12,500.00	7,870.00	5,125.00	5,125.00	90.05	88.51	41.57	-5,565.53	1,778.98	5,439.59	5,291.67	147.93	36.772		
12,600.00	7,870.00	5,125.00	5,125.00	90.24	88.51	41.57	-5,565.53	1,778.98	5,365.51	5,217.84	147.67	36.333		
12,700.00	7,870.00	5,125.00	5,125.00	90.46	88.51	41.57	-5,565.53	1,778.98	5,292.28	5,144.86	147.42	35.900		
12,800.00	7,870.00	5,125.00	5,125.00	90.71	88.51	41.57	-5,565.53	1,778.98	5,219.94	5,072.78	147.16	35.471		
12,900.00	7,870.00	5,125.00	5,125.00	90.99	88.51	41.57	-5,565.53	1,778.98	5,148.53	5,001.63	146.90	35.047		
13,000.00	7,870.00	5,125.00	5,125.00	91.32	88.51	41.57	-5,565.53	1,778.98	5,078.08	4,931.44	146.64	34.629		
13,100.00	7,870.00	5,125.00	5,125.00	91.68	88.51	41.57	-5,565.53	1,778.98	5,008.64	4,862.26	146.38	34.217		
13,200.00	7,870.00	5,125.00	5,125.00	92.08	88.51	41.57	-5,565.53	1,778.98	4,940.24	4,794.12	146.12	33.810		
13,300.00	7,870.00	5,125.00	5,125.00	92.52	88.51	41.57	-5,565.53	1,778.98	4,872.94	4,727.08	145.85	33.410		
13,400.00	7,870.00	5,125.00	5,125.00	93.00	88.51	41.57	-5,565.53	1,778.98	4,806.77	4,661.18	145.59	33.015		
13,500.00	7,870.00	5,125.00	5,125.00	93.53	88.51	41.57	-5,565.53	1,778.98	4,741.79	4,596.46	145.33	32.628		
13,600.00	7,870.00	5,125.00	5,125.00	94.10	88.51	41.57	-5,565.53	1,778.98	4,678.05	4,532.98	145.07	32.247		
13,700.00	7,870.00	5,125.00	5,125.00	94.72	88.51	41.57	-5,565.53	1,778.98	4,615.59	4,470.78	144.81	31.873		
13,800.00	7,870.00	5,125.00	5,125.00	95.38	88.51	41.57	-5,565.53	1,778.98	4,554.47	4,409.91	144.56	31.506		
13,900.00	7,870.00	5,125.00	5,125.00	96.09	88.51	41.57	-5,565.53	1,778.98	4,494.75	4,350.44	144.31	31.147		
14,000.00	7,870.00	5,125.00	5,125.00	96.84	88.51	41.57	-5,565.53	1,778.98	4,436.48	4,292.41	144.07	30.795		
14,100.00	7,870.00	5,125.00	5,125.00	97.64	88.51	41.57	-5,565.53	1,778.98	4,379.71	4,235.88	143.83	30.451		
14,200.00	7,870.00	5,125.00	5,125.00	98.48	88.51	41.57	-5,565.53	1,778.98	4,324.51	4,180.91	143.60	30.115		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,870.00	5,125.00	5,125.00	99.37	88.51	41.57	-5,565.53	1,778.98	4,270.94	4,127.56	143.38	29.788		
14,400.00	7,870.00	5,125.00	5,125.00	100.30	88.51	41.57	-5,565.53	1,778.98	4,219.06	4,075.89	143.17	29.469		
14,500.00	7,870.00	5,125.00	5,125.00	101.26	88.51	41.57	-5,565.53	1,778.98	4,168.94	4,025.97	142.97	29.159		
14,600.00	7,870.00	5,125.00	5,125.00	102.27	88.51	41.57	-5,565.53	1,778.98	4,120.63	3,977.84	142.79	28.858		
14,700.00	7,870.00	5,125.00	5,125.00	103.31	88.51	41.57	-5,565.53	1,778.98	4,074.20	3,931.58	142.62	28.567		
14,800.00	7,870.00	5,125.00	5,125.00	104.38	88.51	41.57	-5,565.53	1,778.98	4,029.72	3,887.25	142.47	28.285		
14,900.00	7,870.00	5,125.00	5,125.00	105.49	88.51	41.57	-5,565.53	1,778.98	3,987.26	3,844.92	142.34	28.012		
15,000.00	7,870.00	5,125.00	5,125.00	106.63	88.51	41.57	-5,565.53	1,778.98	3,946.87	3,804.63	142.23	27.750		
15,100.00	7,870.00	5,125.00	5,125.00	107.80	88.51	41.57	-5,565.53	1,778.98	3,908.62	3,766.47	142.15	27.497		
15,200.00	7,870.00	5,125.00	5,125.00	109.00	88.51	41.57	-5,565.53	1,778.98	3,872.57	3,730.48	142.09	27.254		
15,300.00	7,870.00	5,125.00	5,125.00	110.22	88.51	41.57	-5,565.53	1,778.98	3,838.80	3,696.74	142.06	27.022		
15,400.00	7,870.00	5,125.00	5,125.00	111.47	88.51	41.57	-5,565.53	1,778.98	3,807.35	3,665.29	142.06	26.801		
15,500.00	7,870.00	5,125.00	5,125.00	112.74	88.51	41.57	-5,565.53	1,778.98	3,778.29	3,636.19	142.10	26.589		
15,600.00	7,870.00	5,125.00	5,125.00	114.03	88.51	41.57	-5,565.53	1,778.98	3,751.67	3,609.50	142.17	26.389		
15,700.00	7,870.00	5,125.00	5,125.00	115.34	88.51	41.57	-5,565.53	1,778.98	3,727.54	3,585.26	142.28	26.199		
15,800.00	7,870.00	5,125.00	5,125.00	116.68	88.51	41.57	-5,565.53	1,778.98	3,705.95	3,563.53	142.42	26.021		
15,900.00	7,870.00	5,125.00	5,125.00	118.02	88.51	41.57	-5,565.53	1,778.98	3,686.95	3,544.34	142.61	25.853		
16,000.00	7,870.00	5,125.00	5,125.00	119.39	88.51	41.57	-5,565.53	1,778.98	3,670.58	3,527.74	142.84	25.697		
16,100.00	7,870.00	5,125.00	5,125.00	120.77	88.51	41.57	-5,565.53	1,778.98	3,656.87	3,513.76	143.11	25.552		
16,200.00	7,870.00	5,125.00	5,125.00	122.17	88.51	41.57	-5,565.53	1,778.98	3,645.86	3,502.42	143.43	25.419		
16,300.00	7,870.00	5,125.00	5,125.00	123.58	88.51	41.57	-5,565.53	1,778.98	3,637.55	3,493.76	143.79	25.297		
16,400.00	7,870.00	5,125.00	5,125.00	125.00	88.51	41.57	-5,565.53	1,778.98	3,631.99	3,487.79	144.20	25.188		
16,500.00	7,870.00	5,125.00	5,125.00	126.43	88.51	41.57	-5,565.53	1,778.98	3,629.17	3,484.53	144.64	25.090		
16,552.29	7,870.00	5,125.00	5,125.00	127.19	88.51	41.57	-5,565.53	1,778.98	3,628.80	3,483.90	144.89	25.044	CC, ES	
16,600.00	7,870.00	5,125.00	5,125.00	127.88	88.51	41.57	-5,565.53	1,778.98	3,629.11	3,483.98	145.13	25.006		
16,700.00	7,870.00	5,125.00	5,125.00	129.34	88.51	41.57	-5,565.53	1,778.98	3,631.80	3,486.14	145.66	24.934		
16,800.00	7,870.00	5,125.00	5,125.00	130.81	88.51	41.57	-5,565.53	1,778.98	3,637.24	3,491.02	146.22	24.875		
16,900.00	7,870.00	5,125.00	5,125.00	132.28	88.51	41.57	-5,565.53	1,778.98	3,645.42	3,498.60	146.82	24.829		
17,000.00	7,870.00	5,125.00	5,125.00	133.77	88.51	41.57	-5,565.53	1,778.98	3,656.31	3,508.86	147.45	24.797		
17,100.00	7,870.00	5,125.00	5,125.00	135.27	88.51	41.57	-5,565.53	1,778.98	3,669.90	3,521.79	148.11	24.779		
17,200.00	7,870.00	5,125.00	5,125.00	136.77	88.51	41.57	-5,565.53	1,778.98	3,686.15	3,537.36	148.79	24.775	SF	
17,300.00	7,870.00	5,125.00	5,125.00	138.28	88.51	41.57	-5,565.53	1,778.98	3,705.03	3,555.54	149.49	24.785		
17,400.00	7,870.00	5,125.00	5,125.00	139.80	88.51	41.57	-5,565.53	1,778.98	3,726.50	3,576.29	150.20	24.810		
17,500.00	7,870.00	5,125.00	5,125.00	141.33	88.51	41.57	-5,565.53	1,778.98	3,750.51	3,599.58	150.93	24.850		
17,600.00	7,870.00	5,125.00	5,125.00	142.86	88.51	41.57	-5,565.53	1,778.98	3,777.02	3,625.35	151.66	24.904		
17,700.00	7,870.00	5,125.00	5,125.00	144.40	88.51	41.57	-5,565.53	1,778.98	3,805.97	3,653.57	152.40	24.973		
17,800.00	7,870.00	5,125.00	5,125.00	145.95	88.51	41.57	-5,565.53	1,778.98	3,837.31	3,684.17	153.14	25.057		
17,900.00	7,870.00	5,125.00	5,125.00	147.50	88.51	41.57	-5,565.53	1,778.98	3,870.98	3,717.10	153.88	25.157		
18,000.00	7,870.00	5,125.00	5,125.00	149.06	88.51	41.57	-5,565.53	1,778.98	3,906.92	3,752.32	154.60	25.270		
18,100.00	7,870.00	5,125.00	5,125.00	150.63	88.51	41.57	-5,565.53	1,778.98	3,945.07	3,789.74	155.33	25.399		
18,200.00	7,870.00	5,125.00	5,125.00	152.20	88.51	41.57	-5,565.53	1,778.98	3,985.36	3,829.33	156.03	25.542		
18,300.00	7,870.00	5,125.00	5,125.00	153.77	88.51	41.57	-5,565.53	1,778.98	4,027.74	3,871.01	156.73	25.699		
18,400.00	7,870.00	5,125.00	5,125.00	155.35	88.51	41.57	-5,565.53	1,778.98	4,072.13	3,914.72	157.41	25.870		
18,500.00	7,870.00	5,125.00	5,125.00	156.93	88.51	41.57	-5,565.53	1,778.98	4,118.46	3,960.40	158.07	26.055		
18,600.00	7,870.00	5,125.00	5,125.00	158.52	88.51	41.57	-5,565.53	1,778.98	4,166.69	4,007.98	158.71	26.253		
18,700.00	7,870.00	5,125.00	5,125.00	160.11	88.51	41.57	-5,565.53	1,778.98	4,216.73	4,057.40	159.33	26.465		
18,800.00	7,870.00	5,125.00	5,125.00	161.71	88.51	41.57	-5,565.53	1,778.98	4,268.53	4,108.60	159.94	26.689		
18,900.00	7,870.00	5,125.00	5,125.00	163.31	88.51	41.57	-5,565.53	1,778.98	4,322.03	4,161.51	160.52	26.925		
19,000.00	7,870.00	5,125.00	5,125.00	164.91	88.51	41.57	-5,565.53	1,778.98	4,377.15	4,216.07	161.08	27.174		
19,100.00	7,870.00	5,125.00	5,125.00	166.52	88.51	41.57	-5,565.53	1,778.98	4,433.85	4,272.23	161.62	27.434		
19,200.00	7,870.00	5,125.00	5,125.00	168.13	88.51	41.57	-5,565.53	1,778.98	4,492.05	4,329.92	162.14	27.705		
19,300.00	7,870.00	5,125.00	5,125.00	169.75	88.51	41.57	-5,565.53	1,778.98	4,551.71	4,389.08	162.63	27.988		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
19,383.51	7,870.00	5,125.00	5,125.00	171.10	88.51	41.57	-5,565.53	1,778.98	4,602.61	4,439.57	163.03	28.231	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	150.73	-5,536.99	3,103.12	6,347.32					
100.00	100.00	70.00	70.00	0.13	0.57	150.73	-5,536.99	3,103.12	6,347.25	6,346.55	0.70	9,034.817		
200.00	200.00	170.00	170.00	0.49	2.03	150.73	-5,536.99	3,103.12	6,347.25	6,344.73	2.53	2,512.561		
300.00	300.00	270.00	270.00	0.85	3.78	150.73	-5,536.99	3,103.12	6,347.25	6,342.62	4.63	1,370.894		
400.00	400.00	370.00	370.00	1.21	5.52	150.73	-5,536.99	3,103.12	6,347.25	6,340.52	6.73	942.594		
500.00	500.00	470.00	470.00	1.57	7.27	150.73	-5,536.99	3,103.12	6,347.25	6,338.41	8.84	718.209		
600.00	600.00	570.00	570.00	1.93	9.01	150.73	-5,536.99	3,103.12	6,347.25	6,336.31	10.94	580.113		
700.00	699.98	669.98	669.98	2.28	10.76	86.93	-5,536.99	3,103.12	6,347.16	6,334.12	13.04	486.728		
800.00	799.84	769.84	769.84	2.64	12.50	86.98	-5,536.99	3,103.12	6,346.88	6,331.74	15.14	419.303		
900.00	899.45	869.45	869.45	3.00	14.24	87.07	-5,536.99	3,103.12	6,346.43	6,329.19	17.24	368.194		
1,000.00	998.70	968.70	968.70	3.37	15.97	87.19	-5,536.99	3,103.12	6,345.81	6,326.47	19.34	328.073		
1,100.00	1,097.47	1,067.47	1,067.47	3.76	17.70	87.35	-5,536.99	3,103.12	6,345.06	6,323.60	21.46	295.692		
1,200.00	1,195.62	1,165.62	1,165.62	4.18	19.41	87.53	-5,536.99	3,103.12	6,344.19	6,320.60	23.59	268.964		
1,300.00	1,293.06	1,263.06	1,263.06	4.63	21.11	87.75	-5,536.99	3,103.12	6,343.24	6,317.50	25.73	246.491		
1,400.00	1,389.64	1,359.64	1,359.64	5.11	22.80	87.99	-5,536.99	3,103.12	6,342.24	6,314.34	27.90	227.302		
1,500.00	1,485.27	1,455.27	1,455.27	5.63	24.47	88.27	-5,536.99	3,103.12	6,341.24	6,311.15	30.10	210.705		
1,600.00	1,579.82	1,549.82	1,549.82	6.20	26.12	88.56	-5,536.99	3,103.12	6,340.29	6,307.98	32.32	196.192		
1,700.00	1,673.17	1,643.17	1,643.17	6.83	27.74	88.88	-5,536.99	3,103.12	6,339.44	6,304.87	34.57	183.384		
1,800.00	1,765.21	1,735.21	1,735.21	7.51	29.35	89.22	-5,536.99	3,103.12	6,338.74	6,301.88	36.86	171.991		
1,900.00	1,855.84	1,825.84	1,825.84	8.24	30.93	89.58	-5,536.99	3,103.12	6,338.25	6,299.07	39.18	161.789		
2,000.00	1,944.94	1,914.94	1,914.94	9.05	32.49	89.95	-5,536.99	3,103.12	6,338.04	6,296.51	41.53	152.601		
2,013.94	1,957.23	1,927.23	1,927.23	9.17	32.70	90.00	-5,536.99	3,103.12	6,338.04	6,296.17	41.87	151.379		
2,100.00	2,032.39	2,002.39	2,002.39	9.91	34.01	90.33	-5,536.99	3,103.12	6,338.17	6,294.25	43.93	144.287		
2,200.00	2,118.11	2,088.11	2,088.11	10.85	35.51	90.72	-5,536.99	3,103.12	6,338.72	6,292.37	46.36	136.731		
2,300.00	2,201.97	2,171.97	2,171.97	11.85	36.97	91.11	-5,536.99	3,103.12	6,339.76	6,290.93	48.83	129.840		
2,400.00	2,283.88	2,253.88	2,253.88	12.93	38.40	91.50	-5,536.99	3,103.12	6,341.36	6,290.03	51.33	123.536		
2,429.47	2,307.63	2,277.63	2,277.63	13.26	38.82	91.62	-5,536.99	3,103.12	6,341.95	6,289.87	52.08	121.783		
2,500.00	2,364.26	2,334.26	2,334.26	14.06	39.81	91.92	-5,536.99	3,103.12	6,343.56	6,289.70	53.87	117.766		
2,600.00	2,444.56	2,414.56	2,414.56	15.22	41.21	92.35	-5,536.99	3,103.12	6,346.33	6,289.91	56.42	112.485		
2,700.00	2,524.85	2,505.15	2,494.85	16.39	42.79	92.78	-5,536.99	3,103.12	6,349.65	6,290.49	59.17	107.320		
2,800.00	2,605.14	2,575.14	2,575.14	17.57	44.01	93.22	-5,536.99	3,103.12	6,353.54	6,291.97	61.56	103.207		
2,900.00	2,685.43	2,655.43	2,655.43	18.76	45.41	93.65	-5,536.99	3,103.12	6,357.98	6,293.83	64.14	99.120		
3,000.00	2,765.73	2,735.73	2,735.73	19.96	46.81	94.08	-5,536.99	3,103.12	6,362.97	6,296.24	66.73	95.352		
3,100.00	2,846.02	2,816.02	2,816.02	21.16	48.22	94.51	-5,536.99	3,103.12	6,368.52	6,299.20	69.32	91.867		
3,200.00	2,926.31	2,903.69	2,896.31	22.37	49.75	94.94	-5,536.99	3,103.12	6,374.62	6,302.57	72.05	88.481		
3,300.00	3,006.60	2,976.60	2,976.60	23.59	51.02	95.37	-5,536.99	3,103.12	6,381.27	6,306.76	74.51	85.642		
3,400.00	3,086.90	3,056.90	3,056.90	24.81	52.42	95.80	-5,536.99	3,103.12	6,388.47	6,311.37	77.11	82.853		
3,500.00	3,167.19	3,137.19	3,137.19	26.03	53.82	96.22	-5,536.99	3,103.12	6,396.22	6,316.52	79.70	80.254		
3,600.00	3,247.48	3,217.48	3,217.48	27.25	55.22	96.65	-5,536.99	3,103.12	6,404.52	6,322.22	82.29	77.826		
3,700.00	3,327.77	3,302.23	3,297.77	28.48	56.70	97.08	-5,536.99	3,103.12	6,413.35	6,328.39	84.96	75.485		
3,800.00	3,408.07	3,378.07	3,378.07	29.71	58.02	97.50	-5,536.99	3,103.12	6,422.73	6,335.26	87.47	73.426		
3,900.00	3,488.36	3,458.36	3,458.36	30.94	59.43	97.93	-5,536.99	3,103.12	6,432.65	6,342.59	90.06	71.428		
4,000.00	3,568.65	3,538.65	3,538.65	32.17	60.83	98.35	-5,536.99	3,103.12	6,443.10	6,350.46	92.64	69.550		
4,100.00	3,648.95	3,618.95	3,618.95	33.41	62.23	98.77	-5,536.99	3,103.12	6,454.09	6,358.87	95.22	67.782		
4,200.00	3,729.24	3,700.76	3,699.24	34.64	63.66	99.20	-5,536.99	3,103.12	6,465.61	6,367.79	97.82	66.098		
4,300.00	3,809.53	3,779.53	3,779.53	35.88	65.03	99.62	-5,536.99	3,103.12	6,477.65	6,377.29	100.36	64.543		
4,400.00	3,889.82	3,859.82	3,859.82	37.12	66.43	100.04	-5,536.99	3,103.12	6,490.23	6,387.30	102.93	63.057		
4,500.00	3,970.12	3,940.12	3,940.12	38.36	67.83	100.46	-5,536.99	3,103.12	6,503.32	6,397.83	105.49	61.651		
4,600.00	4,050.41	4,020.41	4,020.41	39.60	69.24	100.87	-5,536.99	3,103.12	6,516.93	6,408.89	108.04	60.319		
4,700.00	4,130.70	4,100.70	4,100.70	40.84	70.64	101.29	-5,536.99	3,103.12	6,531.06	6,420.47	110.59	59.057		
4,800.00	4,210.99	4,180.99	4,180.99	42.08	72.04	101.71	-5,536.99	3,103.12	6,545.70	6,432.57	113.13	57.859		
4,900.00	4,291.29	4,261.29	4,261.29	43.32	73.44	102.12	-5,536.99	3,103.12	6,560.85	6,445.18	115.67	56.722		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,341.58	4,341.58	44.57	74.84	102.53	-5,536.99	3,103.12	6,576.50	6,458.30	118.20	55.640		
5,100.00	4,451.87	4,421.87	4,421.87	45.81	76.24	102.95	-5,536.99	3,103.12	6,592.66	6,471.94	120.72	54.611		
5,200.00	4,532.16	4,502.16	4,502.16	47.05	77.64	103.36	-5,536.99	3,103.12	6,609.31	6,486.08	123.24	53.631		
5,300.00	4,612.46	4,582.46	4,582.46	48.30	79.05	103.76	-5,536.99	3,103.12	6,626.46	6,500.71	125.75	52.697		
5,400.00	4,692.75	4,662.75	4,662.75	49.54	80.45	104.17	-5,536.99	3,103.12	6,644.10	6,515.85	128.25	51.806		
5,500.00	4,773.04	4,743.04	4,743.04	50.79	81.85	104.58	-5,536.99	3,103.12	6,662.23	6,531.48	130.75	50.956		
5,600.00	4,853.34	4,823.34	4,823.34	52.03	83.25	104.98	-5,536.99	3,103.12	6,680.84	6,547.60	133.23	50.144		
5,700.00	4,933.63	4,903.63	4,903.63	53.28	84.65	105.39	-5,536.99	3,103.12	6,699.92	6,564.21	135.71	49.368		
5,800.00	5,013.92	4,983.92	4,983.92	54.53	86.05	105.79	-5,536.99	3,103.12	6,719.48	6,581.30	138.19	48.626		
5,900.00	5,094.21	5,064.21	5,064.21	55.77	87.45	106.19	-5,536.99	3,103.12	6,739.52	6,598.87	140.65	47.916		
6,000.00	5,174.51	5,144.51	5,144.51	57.02	88.85	106.59	-5,536.99	3,103.12	6,760.02	6,616.91	143.11	47.237		
6,100.00	5,254.80	5,148.00	5,148.00	58.27	88.92	106.60	-5,536.99	3,103.12	6,781.41	6,637.23	144.18	47.033		
6,200.00	5,335.09	5,148.00	5,148.00	59.52	88.92	106.60	-5,536.99	3,103.12	6,804.21	6,659.04	145.17	46.872		
6,300.00	5,415.38	5,148.00	5,148.00	60.76	88.92	106.60	-5,536.99	3,103.12	6,828.39	6,682.27	146.12	46.732		
6,400.00	5,495.68	5,148.00	5,148.00	62.01	88.92	106.60	-5,536.99	3,103.12	6,853.95	6,706.91	147.04	46.612		
6,500.00	5,575.97	5,148.00	5,148.00	63.26	88.92	106.60	-5,536.99	3,103.12	6,880.87	6,732.93	147.94	46.511		
6,600.00	5,656.26	5,148.00	5,148.00	64.51	88.92	106.60	-5,536.99	3,103.12	6,909.13	6,760.33	148.81	46.431		
6,700.00	5,736.55	5,148.00	5,148.00	65.76	88.92	106.60	-5,536.99	3,103.12	6,938.72	6,789.08	149.64	46.369		
6,800.00	5,816.85	5,148.00	5,148.00	67.01	88.92	106.60	-5,536.99	3,103.12	6,969.61	6,819.16	150.45	46.325		
6,900.00	5,897.14	5,148.00	5,148.00	68.26	88.92	106.60	-5,536.99	3,103.12	7,001.80	6,850.57	151.23	46.299		
7,000.00	5,977.43	5,148.00	5,148.00	69.50	88.92	106.60	-5,536.99	3,103.12	7,035.26	6,883.28	151.98	46.290		
7,100.00	6,057.72	5,148.00	5,148.00	70.75	88.92	106.60	-5,536.99	3,103.12	7,069.98	6,917.28	152.71	46.298		
7,200.00	6,138.02	5,148.00	5,148.00	72.00	88.92	106.60	-5,536.99	3,103.12	7,105.94	6,952.54	153.40	46.322		
7,300.00	6,218.31	5,148.00	5,148.00	73.25	88.92	106.60	-5,536.99	3,103.12	7,143.11	6,989.04	154.07	46.362		
7,400.00	6,298.60	5,148.00	5,148.00	74.50	88.92	106.60	-5,536.99	3,103.12	7,181.49	7,026.77	154.71	46.418		
7,500.00	6,378.90	5,148.00	5,148.00	75.75	88.92	106.60	-5,536.99	3,103.12	7,221.05	7,065.71	155.33	46.488		
7,600.00	6,459.19	5,148.00	5,148.00	77.00	88.92	106.60	-5,536.99	3,103.12	7,261.76	7,105.84	155.92	46.573		
7,700.00	6,539.48	5,148.00	5,148.00	78.25	88.92	106.60	-5,536.99	3,103.12	7,303.62	7,147.14	156.49	46.672		
7,800.00	6,619.77	5,148.00	5,148.00	79.50	88.92	106.60	-5,536.99	3,103.12	7,346.61	7,189.58	157.03	46.785		
7,900.00	6,700.07	5,148.00	5,148.00	80.75	88.92	106.60	-5,536.99	3,103.12	7,390.69	7,233.15	157.55	46.911		
8,000.00	6,780.36	5,148.00	5,148.00	82.00	88.92	106.60	-5,536.99	3,103.12	7,435.86	7,277.82	158.04	47.050		
8,100.00	6,860.65	5,148.00	5,148.00	83.25	88.92	106.60	-5,536.99	3,103.12	7,482.10	7,323.58	158.51	47.202		
8,200.00	6,940.94	5,148.00	5,148.00	84.50	88.92	106.60	-5,536.99	3,103.12	7,529.38	7,370.41	158.96	47.365		
8,300.00	7,021.24	5,148.00	5,148.00	85.76	88.92	106.60	-5,536.99	3,103.12	7,577.68	7,418.29	159.39	47.541		
8,400.00	7,101.53	5,148.00	5,148.00	87.01	88.92	106.60	-5,536.99	3,103.12	7,626.99	7,467.19	159.80	47.729		
8,500.00	7,181.82	5,148.00	5,148.00	88.26	88.92	106.60	-5,536.99	3,103.12	7,677.28	7,517.09	160.19	47.928		
8,605.60	7,266.61	5,148.00	5,148.00	89.58	88.92	106.60	-5,536.99	3,103.12	7,731.44	7,570.86	160.57	48.149		
8,650.00	7,302.60	5,148.00	5,148.00	90.13	88.92	101.00	-5,536.99	3,103.12	7,753.04	7,592.31	160.73	48.237		
8,700.00	7,343.78	5,148.00	5,148.00	90.72	88.92	94.11	-5,536.99	3,103.12	7,773.96	7,613.05	160.90	48.314		
8,750.00	7,385.32	5,148.00	5,148.00	91.28	88.92	86.82	-5,536.99	3,103.12	7,791.12	7,630.05	161.07	48.370		
8,800.00	7,426.92	5,148.00	5,148.00	91.81	88.92	79.44	-5,536.99	3,103.12	7,804.44	7,643.21	161.23	48.405		
8,850.00	7,468.27	5,148.00	5,148.00	92.29	88.92	72.28	-5,536.99	3,103.12	7,813.83	7,652.46	161.37	48.420		
8,900.00	7,509.04	5,148.00	5,148.00	92.72	88.92	65.57	-5,536.99	3,103.12	7,819.23	7,657.73	161.50	48.417		
8,950.00	7,548.93	5,148.00	5,148.00	93.10	88.92	59.50	-5,536.99	3,103.12	7,820.61	7,659.01	161.60	48.395		
9,000.00	7,587.63	5,148.00	5,148.00	93.43	88.92	54.13	-5,536.99	3,103.12	7,817.97	7,656.29	161.68	48.355		
9,050.00	7,624.85	5,148.00	5,148.00	93.71	88.92	49.45	-5,536.99	3,103.12	7,811.30	7,649.57	161.73	48.298		
9,100.00	7,660.30	5,148.00	5,148.00	93.93	88.92	45.41	-5,536.99	3,103.12	7,800.67	7,638.91	161.76	48.225		
9,150.00	7,693.72	5,148.00	5,148.00	94.10	88.92	41.94	-5,536.99	3,103.12	7,786.13	7,624.37	161.76	48.135		
9,200.00	7,724.85	5,148.00	5,148.00	94.23	88.92	38.96	-5,536.99	3,103.12	7,767.77	7,606.04	161.73	48.029		
9,250.00	7,753.45	5,148.00	5,148.00	94.30	88.92	36.39	-5,536.99	3,103.12	7,745.70	7,584.02	161.68	47.906		
9,300.00	7,779.31	5,148.00	5,148.00	94.34	88.92	34.17	-5,536.99	3,103.12	7,720.07	7,558.46	161.61	47.768		
9,350.00	7,802.23	5,148.00	5,148.00	94.33	88.92	32.22	-5,536.99	3,103.12	7,691.03	7,529.50	161.53	47.615		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	5,148.00	5,148.00	94.28	88.92	30.49	-5,536.99	3,103.12	7,658.77	7,497.34	161.42	47.445		
9,450.00	7,838.57	5,148.00	5,148.00	94.20	88.92	28.92	-5,536.99	3,103.12	7,623.48	7,462.17	161.31	47.261		
9,500.00	7,851.72	5,148.00	5,148.00	94.10	88.92	27.43	-5,536.99	3,103.12	7,585.41	7,424.23	161.18	47.061		
9,550.00	7,861.37	5,148.00	5,148.00	93.96	88.92	25.94	-5,536.99	3,103.12	7,544.80	7,383.74	161.05	46.847		
9,600.00	7,867.46	5,148.00	5,148.00	93.81	88.92	24.32	-5,536.99	3,103.12	7,501.91	7,340.99	160.92	46.618		
9,650.00	7,869.94	5,148.00	5,148.00	93.64	88.92	22.35	-5,536.99	3,103.12	7,457.05	7,296.26	160.80	46.375		
9,659.14	7,870.00	5,148.00	5,148.00	93.60	88.92	21.93	-5,536.99	3,103.12	7,448.67	7,287.89	160.78	46.329		
9,700.00	7,870.00	5,148.00	5,148.00	93.46	88.92	21.93	-5,536.99	3,103.12	7,411.05	7,250.37	160.67	46.125		
9,800.00	7,870.00	5,148.00	5,148.00	93.11	88.92	21.93	-5,536.99	3,103.12	7,319.14	7,158.72	160.42	45.625		
9,900.00	7,870.00	5,148.00	5,148.00	92.77	88.92	21.93	-5,536.99	3,103.12	7,227.44	7,067.29	160.16	45.127		
10,000.00	7,870.00	5,148.00	5,148.00	92.46	88.92	21.93	-5,536.99	3,103.12	7,135.97	6,976.08	159.89	44.631		
10,100.00	7,870.00	5,148.00	5,148.00	92.16	88.92	21.93	-5,536.99	3,103.12	7,044.73	6,885.12	159.61	44.137		
10,200.00	7,870.00	5,148.00	5,148.00	91.87	88.92	21.93	-5,536.99	3,103.12	6,953.73	6,794.41	159.32	43.646		
10,300.00	7,870.00	5,148.00	5,148.00	91.60	88.92	21.93	-5,536.99	3,103.12	6,862.98	6,703.96	159.03	43.157		
10,400.00	7,870.00	5,148.00	5,148.00	91.34	88.92	21.93	-5,536.99	3,103.12	6,772.49	6,613.77	158.72	42.670		
10,500.00	7,870.00	5,148.00	5,148.00	91.11	88.92	21.93	-5,536.99	3,103.12	6,682.28	6,523.87	158.40	42.185		
10,600.00	7,870.00	5,148.00	5,148.00	90.88	88.92	21.93	-5,536.99	3,103.12	6,592.34	6,434.26	158.08	41.704		
10,700.00	7,870.00	5,148.00	5,148.00	90.67	88.92	21.93	-5,536.99	3,103.12	6,502.70	6,344.96	157.74	41.225		
10,800.00	7,870.00	5,148.00	5,148.00	90.48	88.92	21.93	-5,536.99	3,103.12	6,413.36	6,255.98	157.39	40.749		
10,900.00	7,870.00	5,148.00	5,148.00	90.31	88.92	21.93	-5,536.99	3,103.12	6,324.35	6,167.32	157.03	40.275		
11,000.00	7,870.00	5,148.00	5,148.00	90.15	88.92	21.93	-5,536.99	3,103.12	6,235.67	6,079.01	156.65	39.805		
11,100.00	7,870.00	5,148.00	5,148.00	90.00	88.92	21.93	-5,536.99	3,103.12	6,147.33	5,991.06	156.27	39.339		
11,200.00	7,870.00	5,148.00	5,148.00	89.88	88.92	21.93	-5,536.99	3,103.12	6,059.36	5,903.49	155.87	38.875		
11,300.00	7,870.00	5,148.00	5,148.00	89.77	88.92	21.93	-5,536.99	3,103.12	5,971.76	5,816.31	155.45	38.416		
11,400.00	7,870.00	5,148.00	5,148.00	89.68	88.92	21.93	-5,536.99	3,103.12	5,884.57	5,729.54	155.02	37.960		
11,500.00	7,870.00	5,148.00	5,148.00	89.60	88.92	21.93	-5,536.99	3,103.12	5,797.78	5,643.20	154.58	37.508		
11,600.00	7,870.00	5,148.00	5,148.00	89.55	88.92	21.93	-5,536.99	3,103.12	5,711.43	5,557.31	154.11	37.060		
11,700.00	7,870.00	5,148.00	5,148.00	89.52	88.92	21.93	-5,536.99	3,103.12	5,625.53	5,471.89	153.63	36.616		
11,800.00	7,870.00	5,148.00	5,148.00	89.50	88.92	21.93	-5,536.99	3,103.12	5,540.10	5,386.96	153.14	36.177		
11,900.00	7,870.00	5,148.00	5,148.00	89.51	88.92	21.93	-5,536.99	3,103.12	5,455.17	5,302.54	152.62	35.743		
12,000.00	7,870.00	5,148.00	5,148.00	89.54	88.92	21.93	-5,536.99	3,103.12	5,370.75	5,218.67	152.09	35.314		
12,100.00	7,870.00	5,148.00	5,148.00	89.59	88.92	21.93	-5,536.99	3,103.12	5,286.88	5,135.35	151.53	34.890		
12,200.00	7,870.00	5,148.00	5,148.00	89.66	88.92	21.93	-5,536.99	3,103.12	5,203.58	5,052.63	150.95	34.472		
12,300.00	7,870.00	5,148.00	5,148.00	89.77	88.92	21.93	-5,536.99	3,103.12	5,120.88	4,970.53	150.35	34.059		
12,400.00	7,870.00	5,148.00	5,148.00	89.89	88.92	21.93	-5,536.99	3,103.12	5,038.81	4,889.07	149.73	33.652		
12,500.00	7,870.00	5,148.00	5,148.00	90.05	88.92	21.93	-5,536.99	3,103.12	4,957.39	4,808.31	149.08	33.252		
12,600.00	7,870.00	5,148.00	5,148.00	90.24	88.92	21.93	-5,536.99	3,103.12	4,876.66	4,728.25	148.41	32.859		
12,700.00	7,870.00	5,148.00	5,148.00	90.46	88.92	21.93	-5,536.99	3,103.12	4,796.67	4,648.95	147.71	32.473		
12,800.00	7,870.00	5,148.00	5,148.00	90.71	88.92	21.93	-5,536.99	3,103.12	4,717.43	4,570.44	146.99	32.094		
12,900.00	7,870.00	5,148.00	5,148.00	90.99	88.92	21.93	-5,536.99	3,103.12	4,639.00	4,492.76	146.24	31.723		
13,000.00	7,870.00	5,148.00	5,148.00	91.32	88.92	21.93	-5,536.99	3,103.12	4,561.41	4,415.95	145.45	31.360		
13,100.00	7,870.00	5,148.00	5,148.00	91.68	88.92	21.93	-5,536.99	3,103.12	4,484.70	4,340.06	144.64	31.006		
13,200.00	7,870.00	5,148.00	5,148.00	92.08	88.92	21.93	-5,536.99	3,103.12	4,408.94	4,265.14	143.80	30.661		
13,300.00	7,870.00	5,148.00	5,148.00	92.52	88.92	21.93	-5,536.99	3,103.12	4,334.15	4,191.23	142.92	30.325		
13,400.00	7,870.00	5,148.00	5,148.00	93.00	88.92	21.93	-5,536.99	3,103.12	4,260.40	4,118.39	142.01	30.000		
13,500.00	7,870.00	5,148.00	5,148.00	93.53	88.92	21.93	-5,536.99	3,103.12	4,187.74	4,046.67	141.07	29.685		
13,600.00	7,870.00	5,148.00	5,148.00	94.10	88.92	21.93	-5,536.99	3,103.12	4,116.22	3,976.13	140.10	29.382		
13,700.00	7,870.00	5,148.00	5,148.00	94.72	88.92	21.93	-5,536.99	3,103.12	4,045.92	3,906.83	139.08	29.090		
13,800.00	7,870.00	5,148.00	5,148.00	95.38	88.92	21.93	-5,536.99	3,103.12	3,976.88	3,838.84	138.04	28.810		
13,900.00	7,870.00	5,148.00	5,148.00	96.09	88.92	21.93	-5,536.99	3,103.12	3,909.19	3,772.23	136.96	28.543		
14,000.00	7,870.00	5,148.00	5,148.00	96.84	88.92	21.93	-5,536.99	3,103.12	3,842.90	3,707.06	135.85	28.289		
14,100.00	7,870.00	5,148.00	5,148.00	97.64	88.92	21.93	-5,536.99	3,103.12	3,778.10	3,643.40	134.70	28.049		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,148.00	5,148.00	98.48	88.92	21.93	-5,536.99	3,103.12	3,714.86	3,581.34	133.52	27.823		
14,300.00	7,870.00	5,148.00	5,148.00	99.37	88.92	21.93	-5,536.99	3,103.12	3,653.26	3,520.96	132.30	27.613		
14,400.00	7,870.00	5,148.00	5,148.00	100.30	88.92	21.93	-5,536.99	3,103.12	3,593.39	3,462.33	131.06	27.418		
14,500.00	7,870.00	5,148.00	5,148.00	101.26	88.92	21.93	-5,536.99	3,103.12	3,535.34	3,405.55	129.79	27.239		
14,600.00	7,870.00	5,148.00	5,148.00	102.27	88.92	21.93	-5,536.99	3,103.12	3,479.19	3,350.69	128.50	27.076		
14,700.00	7,870.00	5,148.00	5,148.00	103.31	88.92	21.93	-5,536.99	3,103.12	3,425.04	3,297.86	127.18	26.930		
14,800.00	7,870.00	5,148.00	5,148.00	104.38	88.92	21.93	-5,536.99	3,103.12	3,372.99	3,247.13	125.86	26.800		
14,900.00	7,870.00	5,148.00	5,148.00	105.49	88.92	21.93	-5,536.99	3,103.12	3,323.13	3,198.61	124.52	26.688		
15,000.00	7,870.00	5,148.00	5,148.00	106.63	88.92	21.93	-5,536.99	3,103.12	3,275.57	3,152.38	123.18	26.591		
15,100.00	7,870.00	5,148.00	5,148.00	107.80	88.92	21.93	-5,536.99	3,103.12	3,230.40	3,108.55	121.85	26.511		
15,200.00	7,870.00	5,148.00	5,148.00	109.00	88.92	21.93	-5,536.99	3,103.12	3,187.73	3,067.19	120.54	26.445		
15,300.00	7,870.00	5,148.00	5,148.00	110.22	88.92	21.93	-5,536.99	3,103.12	3,147.66	3,028.40	119.26	26.394		
15,400.00	7,870.00	5,148.00	5,148.00	111.47	88.92	21.93	-5,536.99	3,103.12	3,110.29	2,992.28	118.02	26.355		
15,500.00	7,870.00	5,148.00	5,148.00	112.74	88.92	21.93	-5,536.99	3,103.12	3,075.72	2,958.89	116.83	26.326		
15,600.00	7,870.00	5,148.00	5,148.00	114.03	88.92	21.93	-5,536.99	3,103.12	3,044.04	2,928.32	115.72	26.305		
15,700.00	7,870.00	5,148.00	5,148.00	115.34	88.92	21.93	-5,536.99	3,103.12	3,015.35	2,900.65	114.71	26.288		
15,800.00	7,870.00	5,148.00	5,148.00	116.68	88.92	21.93	-5,536.99	3,103.12	2,989.73	2,875.93	113.80	26.271		
15,900.00	7,870.00	5,148.00	5,148.00	118.02	88.92	21.93	-5,536.99	3,103.12	2,967.26	2,854.23	113.03	26.252		
16,000.00	7,870.00	5,148.00	5,148.00	119.39	88.92	21.93	-5,536.99	3,103.12	2,948.01	2,835.60	112.42	26.224		
16,100.00	7,870.00	5,148.00	5,148.00	120.77	88.92	21.93	-5,536.99	3,103.12	2,932.05	2,820.07	111.98	26.184		
16,200.00	7,870.00	5,148.00	5,148.00	122.17	88.92	21.93	-5,536.99	3,103.12	2,919.43	2,807.69	111.74	26.128		
16,300.00	7,870.00	5,148.00	5,148.00	123.58	88.92	21.93	-5,536.99	3,103.12	2,910.19	2,798.48	111.71	26.051		
16,400.00	7,870.00	5,148.00	5,148.00	125.00	88.92	21.93	-5,536.99	3,103.12	2,904.37	2,792.46	111.91	25.953		
16,500.00	7,870.00	5,148.00	5,148.00	126.43	88.92	21.93	-5,536.99	3,103.12	2,901.98	2,789.65	112.34	25.832		
16,519.27	7,870.00	5,148.00	5,148.00	126.71	88.92	21.93	-5,536.99	3,103.12	2,901.92	2,789.47	112.45	25.807 CC, ES		
16,600.00	7,870.00	5,148.00	5,148.00	127.88	88.92	21.93	-5,536.99	3,103.12	2,903.04	2,790.04	113.00	25.690		
16,700.00	7,870.00	5,148.00	5,148.00	129.34	88.92	21.93	-5,536.99	3,103.12	2,907.54	2,793.65	113.89	25.528		
16,800.00	7,870.00	5,148.00	5,148.00	130.81	88.92	21.93	-5,536.99	3,103.12	2,915.47	2,800.47	115.00	25.352		
16,900.00	7,870.00	5,148.00	5,148.00	132.28	88.92	21.93	-5,536.99	3,103.12	2,926.79	2,810.49	116.30	25.166		
17,000.00	7,870.00	5,148.00	5,148.00	133.77	88.92	21.93	-5,536.99	3,103.12	2,941.47	2,823.70	117.77	24.977		
17,100.00	7,870.00	5,148.00	5,148.00	135.27	88.92	21.93	-5,536.99	3,103.12	2,959.46	2,840.07	119.38	24.790		
17,200.00	7,870.00	5,148.00	5,148.00	136.77	88.92	21.93	-5,536.99	3,103.12	2,980.69	2,859.58	121.12	24.610		
17,300.00	7,870.00	5,148.00	5,148.00	138.28	88.92	21.93	-5,536.99	3,103.12	3,005.11	2,882.17	122.94	24.443		
17,400.00	7,870.00	5,148.00	5,148.00	139.80	88.92	21.93	-5,536.99	3,103.12	3,032.63	2,907.79	124.83	24.293		
17,500.00	7,870.00	5,148.00	5,148.00	141.33	88.92	21.93	-5,536.99	3,103.12	3,063.16	2,936.40	126.77	24.164		
17,600.00	7,870.00	5,148.00	5,148.00	142.86	88.92	21.93	-5,536.99	3,103.12	3,096.63	2,967.91	128.72	24.057		
17,700.00	7,870.00	5,148.00	5,148.00	144.40	88.92	21.93	-5,536.99	3,103.12	3,132.93	3,002.25	130.68	23.974		
17,800.00	7,870.00	5,148.00	5,148.00	145.95	88.92	21.93	-5,536.99	3,103.12	3,171.97	3,039.35	132.62	23.917		
17,900.00	7,870.00	5,148.00	5,148.00	147.50	88.92	21.93	-5,536.99	3,103.12	3,213.65	3,079.11	134.54	23.886		
18,000.00	7,870.00	5,148.00	5,148.00	149.06	88.92	21.93	-5,536.99	3,103.12	3,257.87	3,121.44	136.42	23.881 SF		
18,100.00	7,870.00	5,148.00	5,148.00	150.63	88.92	21.93	-5,536.99	3,103.12	3,304.52	3,166.26	138.26	23.901		
18,200.00	7,870.00	5,148.00	5,148.00	152.20	88.92	21.93	-5,536.99	3,103.12	3,353.50	3,213.46	140.04	23.947		
18,300.00	7,870.00	5,148.00	5,148.00	153.77	88.92	21.93	-5,536.99	3,103.12	3,404.72	3,262.96	141.76	24.017		
18,400.00	7,870.00	5,148.00	5,148.00	155.35	88.92	21.93	-5,536.99	3,103.12	3,458.07	3,314.65	143.43	24.111		
18,500.00	7,870.00	5,148.00	5,148.00	156.93	88.92	21.93	-5,536.99	3,103.12	3,513.46	3,368.44	145.02	24.227		
18,600.00	7,870.00	5,148.00	5,148.00	158.52	88.92	21.93	-5,536.99	3,103.12	3,570.79	3,424.24	146.56	24.365		
18,700.00	7,870.00	5,148.00	5,148.00	160.11	88.92	21.93	-5,536.99	3,103.12	3,629.97	3,481.95	148.02	24.523		
18,800.00	7,870.00	5,148.00	5,148.00	161.71	88.92	21.93	-5,536.99	3,103.12	3,690.91	3,541.49	149.42	24.701		
18,900.00	7,870.00	5,148.00	5,148.00	163.31	88.92	21.93	-5,536.99	3,103.12	3,753.53	3,602.77	150.76	24.897		
19,000.00	7,870.00	5,148.00	5,148.00	164.91	88.92	21.93	-5,536.99	3,103.12	3,817.74	3,665.71	152.03	25.111		
19,100.00	7,870.00	5,148.00	5,148.00	166.52	88.92	21.93	-5,536.99	3,103.12	3,883.46	3,730.22	153.25	25.341		
19,200.00	7,870.00	5,148.00	5,148.00	168.13	88.92	21.93	-5,536.99	3,103.12	3,950.62	3,796.23	154.40	25.587		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,148.00	5,148.00	169.75	88.92	21.93	-5,536.99	3,103.12	4,019.15	3,863.66	155.49	25.848	
19,383.51	7,870.00	5,148.00	5,148.00	171.10	88.92	21.93	-5,536.99	3,103.12	4,077.37	3,921.01	156.37	26.076	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	147.41	-6,842.04	4,374.57	8,121.01					
100.00	100.00	77.00	77.00	0.13	0.64	147.41	-6,842.04	4,374.57	8,120.98	8,120.21	0.77	N/A		
200.00	200.00	177.00	177.00	0.49	2.17	147.41	-6,842.04	4,374.57	8,120.98	8,118.32	2.67	3,046.319		
300.00	300.00	277.00	277.00	0.85	3.92	147.41	-6,842.04	4,374.57	8,120.98	8,116.21	4.77	1,702.642		
400.00	400.00	377.00	377.00	1.21	5.66	147.41	-6,842.04	4,374.57	8,120.98	8,114.11	6.87	1,181.502		
500.00	500.00	477.00	477.00	1.57	7.41	147.41	-6,842.04	4,374.57	8,120.98	8,112.00	8.98	904.619		
600.00	600.00	577.00	577.00	1.93	9.15	147.41	-6,842.04	4,374.57	8,120.98	8,109.90	11.08	732.872		
700.00	699.98	676.98	676.98	2.28	10.90	83.60	-6,842.04	4,374.57	8,120.79	8,107.61	13.18	616.142		
800.00	799.84	776.84	776.84	2.64	12.64	83.65	-6,842.04	4,374.57	8,120.21	8,104.93	15.28	531.558		
900.00	899.45	876.45	876.45	3.00	14.38	83.73	-6,842.04	4,374.57	8,119.24	8,101.87	17.38	467.270		
1,000.00	998.70	975.70	975.70	3.37	16.11	83.84	-6,842.04	4,374.57	8,117.92	8,098.43	19.48	416.697		
1,100.00	1,097.47	1,074.47	1,074.47	3.76	17.84	83.98	-6,842.04	4,374.57	8,116.24	8,094.64	21.60	375.810		
1,200.00	1,195.62	1,172.62	1,172.62	4.18	19.55	84.16	-6,842.04	4,374.57	8,114.23	8,090.50	23.72	342.012		
1,300.00	1,293.06	1,270.06	1,270.06	4.63	21.25	84.36	-6,842.04	4,374.57	8,111.92	8,086.05	25.87	313.559		
1,400.00	1,389.64	1,366.64	1,366.64	5.11	22.94	84.58	-6,842.04	4,374.57	8,109.34	8,081.30	28.04	289.235		
1,500.00	1,485.27	1,462.27	1,462.27	5.63	24.61	84.84	-6,842.04	4,374.57	8,106.52	8,076.29	30.23	268.173		
1,600.00	1,579.82	1,556.82	1,556.82	6.20	26.26	85.11	-6,842.04	4,374.57	8,103.50	8,071.05	32.45	249.736		
1,700.00	1,673.17	1,650.17	1,650.17	6.83	27.88	85.41	-6,842.04	4,374.57	8,100.33	8,065.63	34.70	233.447		
1,800.00	1,765.21	1,742.21	1,742.21	7.51	29.49	85.73	-6,842.04	4,374.57	8,097.06	8,060.08	36.98	218.942		
1,900.00	1,855.84	1,832.84	1,832.84	8.24	31.07	86.07	-6,842.04	4,374.57	8,093.73	8,054.42	39.30	205.938		
2,000.00	1,944.94	1,921.94	1,921.94	9.05	32.63	86.42	-6,842.04	4,374.57	8,090.39	8,048.73	41.66	194.212		
2,100.00	2,032.39	2,009.39	2,009.39	9.91	34.15	86.79	-6,842.04	4,374.57	8,087.11	8,043.06	44.05	183.586		
2,200.00	2,118.11	2,104.89	2,095.11	10.85	35.82	87.16	-6,842.04	4,374.57	8,083.94	8,037.29	46.65	173.279		
2,300.00	2,201.97	2,178.97	2,178.97	11.85	37.11	87.54	-6,842.04	4,374.57	8,080.94	8,031.99	48.95	165.082		
2,400.00	2,283.88	2,260.88	2,260.88	12.93	38.54	87.93	-6,842.04	4,374.57	8,078.18	8,026.73	51.46	156.986		
2,429.47	2,307.63	2,284.63	2,284.63	13.26	38.96	88.05	-6,842.04	4,374.57	8,077.43	8,025.22	52.20	154.732		
2,500.00	2,364.26	2,341.26	2,341.26	14.06	39.95	88.29	-6,842.04	4,374.57	8,075.75	8,021.76	54.00	149.563		
2,600.00	2,444.56	2,421.56	2,421.56	15.22	41.35	88.63	-6,842.04	4,374.57	8,073.75	8,017.20	56.55	142.760		
2,700.00	2,524.85	2,501.85	2,501.85	16.39	42.75	88.97	-6,842.04	4,374.57	8,072.19	8,013.07	59.13	136.520		
2,800.00	2,605.14	2,582.14	2,582.14	17.57	44.15	89.31	-6,842.04	4,374.57	8,071.08	8,009.36	61.71	130.783		
2,900.00	2,685.43	2,662.43	2,662.43	18.76	45.55	89.65	-6,842.04	4,374.57	8,070.40	8,006.09	64.31	125.497		
3,000.00	2,765.73	2,742.73	2,742.73	19.96	46.95	89.99	-6,842.04	4,374.57	8,070.16	8,003.25	66.91	120.614		
3,004.17	2,769.08	2,746.08	2,746.08	20.01	47.01	90.00	-6,842.04	4,374.57	8,070.16	8,003.14	67.02	120.418		
3,100.00	2,846.02	2,823.02	2,823.02	21.16	48.35	90.33	-6,842.04	4,374.57	8,070.36	8,000.84	69.52	116.093		
3,200.00	2,926.31	2,903.31	2,903.31	22.37	49.76	90.67	-6,842.04	4,374.57	8,071.00	7,998.87	72.13	111.898		
3,300.00	3,006.60	2,983.60	2,983.60	23.59	51.16	91.01	-6,842.04	4,374.57	8,072.08	7,997.34	74.74	107.997		
3,400.00	3,086.90	3,063.90	3,063.90	24.81	52.56	91.34	-6,842.04	4,374.57	8,073.61	7,996.25	77.36	104.362		
3,500.00	3,167.19	3,144.19	3,144.19	26.03	53.96	91.68	-6,842.04	4,374.57	8,075.57	7,995.59	79.98	100.968		
3,600.00	3,247.48	3,224.48	3,224.48	27.25	55.36	92.02	-6,842.04	4,374.57	8,077.97	7,995.37	82.60	97.793		
3,700.00	3,327.77	3,304.77	3,304.77	28.48	56.76	92.36	-6,842.04	4,374.57	8,080.81	7,995.59	85.22	94.818		
3,800.00	3,408.07	3,385.07	3,385.07	29.71	58.16	92.70	-6,842.04	4,374.57	8,084.09	7,996.24	87.85	92.025		
3,900.00	3,488.36	3,465.36	3,465.36	30.94	59.57	93.04	-6,842.04	4,374.57	8,087.80	7,997.34	90.47	89.399		
4,000.00	3,568.65	3,545.65	3,545.65	32.17	60.97	93.38	-6,842.04	4,374.57	8,091.96	7,998.87	93.09	86.926		
4,100.00	3,648.95	3,625.95	3,625.95	33.41	62.37	93.72	-6,842.04	4,374.57	8,096.55	8,000.84	95.71	84.593		
4,200.00	3,729.24	3,706.24	3,706.24	34.64	63.77	94.06	-6,842.04	4,374.57	8,101.58	8,003.25	98.33	82.391		
4,300.00	3,809.53	3,786.53	3,786.53	35.88	65.17	94.39	-6,842.04	4,374.57	8,107.04	8,006.09	100.95	80.308		
4,400.00	3,889.82	3,866.82	3,866.82	37.12	66.57	94.73	-6,842.04	4,374.57	8,112.93	8,009.37	103.57	78.336		
4,500.00	3,970.12	3,947.12	3,947.12	38.36	67.97	95.07	-6,842.04	4,374.57	8,119.26	8,013.08	106.18	76.467		
4,600.00	4,050.41	4,027.41	4,027.41	39.60	69.38	95.41	-6,842.04	4,374.57	8,126.03	8,017.23	108.79	74.694		
4,700.00	4,130.70	4,107.70	4,107.70	40.84	70.78	95.74	-6,842.04	4,374.57	8,133.22	8,021.82	111.40	73.009		
4,800.00	4,210.99	4,187.99	4,187.99	42.08	72.18	96.08	-6,842.04	4,374.57	8,140.84	8,026.84	114.01	71.406		
4,900.00	4,291.29	4,268.29	4,268.29	43.32	73.58	96.42	-6,842.04	4,374.57	8,148.89	8,032.28	116.61	69.881		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,371.58	4,348.58	4,348.58	44.57	74.98	96.75	-6,842.04	4,374.57	8,157.37	8,038.16	119.21	68.428		
5,100.00	4,451.87	4,428.87	4,428.87	45.81	76.38	97.09	-6,842.04	4,374.57	8,166.28	8,044.47	121.81	67.042		
5,200.00	4,532.16	4,509.16	4,509.16	47.05	77.78	97.42	-6,842.04	4,374.57	8,175.61	8,051.21	124.40	65.720		
5,300.00	4,612.46	4,589.46	4,589.46	48.30	79.18	97.75	-6,842.04	4,374.57	8,185.37	8,058.38	126.99	64.456		
5,400.00	4,692.75	4,669.75	4,669.75	49.54	80.59	98.09	-6,842.04	4,374.57	8,195.54	8,065.97	129.58	63.249		
5,500.00	4,773.04	4,750.04	4,750.04	50.79	81.99	98.42	-6,842.04	4,374.57	8,206.14	8,073.98	132.16	62.093		
5,600.00	4,853.34	4,830.34	4,830.34	52.03	83.39	98.75	-6,842.04	4,374.57	8,217.15	8,082.42	134.74	60.987		
5,700.00	4,933.63	4,910.63	4,910.63	53.28	84.79	99.08	-6,842.04	4,374.57	8,228.59	8,091.28	137.31	59.928		
5,800.00	5,013.92	4,990.92	4,990.92	54.53	86.19	99.41	-6,842.04	4,374.57	8,240.44	8,100.56	139.88	58.912		
5,900.00	5,094.21	5,050.00	5,050.00	55.77	87.22	99.66	-6,842.04	4,374.57	8,252.72	8,110.66	142.07	58.091		
6,000.00	5,174.51	5,050.00	5,050.00	57.02	87.22	99.66	-6,842.04	4,374.57	8,265.99	8,122.79	143.20	57.724		
6,100.00	5,254.80	5,050.00	5,050.00	58.27	87.22	99.66	-6,842.04	4,374.57	8,280.45	8,136.13	144.31	57.378		
6,200.00	5,335.09	5,050.00	5,050.00	59.52	87.22	99.66	-6,842.04	4,374.57	8,296.08	8,150.68	145.41	57.054		
6,300.00	5,415.38	5,050.00	5,050.00	60.76	87.22	99.66	-6,842.04	4,374.57	8,312.89	8,166.41	146.48	56.750		
6,400.00	5,495.68	5,050.00	5,050.00	62.01	87.22	99.66	-6,842.04	4,374.57	8,330.87	8,183.33	147.54	56.465		
6,500.00	5,575.97	5,050.00	5,050.00	63.26	87.22	99.66	-6,842.04	4,374.57	8,350.01	8,201.43	148.57	56.201		
6,600.00	5,656.26	5,050.00	5,050.00	64.51	87.22	99.66	-6,842.04	4,374.57	8,370.29	8,220.70	149.59	55.955		
6,700.00	5,736.55	5,050.00	5,050.00	65.76	87.22	99.66	-6,842.04	4,374.57	8,391.72	8,241.14	150.58	55.728		
6,800.00	5,816.85	5,050.00	5,050.00	67.01	87.22	99.66	-6,842.04	4,374.57	8,414.28	8,262.73	151.56	55.519		
6,900.00	5,897.14	5,050.00	5,050.00	68.26	87.22	99.66	-6,842.04	4,374.57	8,437.97	8,285.46	152.51	55.328		
7,000.00	5,977.43	5,050.00	5,050.00	69.50	87.22	99.66	-6,842.04	4,374.57	8,462.77	8,309.33	153.44	55.153		
7,100.00	6,057.72	5,050.00	5,050.00	70.75	87.22	99.66	-6,842.04	4,374.57	8,488.68	8,334.33	154.35	54.995		
7,200.00	6,138.02	5,050.00	5,050.00	72.00	87.22	99.66	-6,842.04	4,374.57	8,515.69	8,360.44	155.24	54.854		
7,300.00	6,218.31	5,050.00	5,050.00	73.25	87.22	99.66	-6,842.04	4,374.57	8,543.78	8,387.66	156.11	54.728		
7,400.00	6,298.60	5,050.00	5,050.00	74.50	87.22	99.66	-6,842.04	4,374.57	8,572.94	8,415.98	156.96	54.618		
7,500.00	6,378.90	5,050.00	5,050.00	75.75	87.22	99.66	-6,842.04	4,374.57	8,603.17	8,445.38	157.79	54.522		
7,600.00	6,459.19	5,050.00	5,050.00	77.00	87.22	99.66	-6,842.04	4,374.57	8,634.45	8,475.85	158.60	54.442		
7,700.00	6,539.48	5,050.00	5,050.00	78.25	87.22	99.66	-6,842.04	4,374.57	8,666.77	8,507.38	159.39	54.375		
7,800.00	6,619.77	5,050.00	5,050.00	79.50	87.22	99.66	-6,842.04	4,374.57	8,700.12	8,539.96	160.16	54.323		
7,900.00	6,700.07	5,050.00	5,050.00	80.75	87.22	99.66	-6,842.04	4,374.57	8,734.49	8,573.58	160.90	54.284		
8,000.00	6,780.36	5,050.00	5,050.00	82.00	87.22	99.66	-6,842.04	4,374.57	8,769.86	8,608.23	161.63	54.259		
8,100.00	6,860.65	5,050.00	5,050.00	83.25	87.22	99.66	-6,842.04	4,374.57	8,806.23	8,643.89	162.34	54.246		
8,200.00	6,940.94	5,050.00	5,050.00	84.50	87.22	99.66	-6,842.04	4,374.57	8,843.57	8,680.55	163.03	54.246		
8,300.00	7,021.24	5,050.00	5,050.00	85.76	87.22	99.66	-6,842.04	4,374.57	8,881.89	8,718.19	163.70	54.258		
8,400.00	7,101.53	5,050.00	5,050.00	87.01	87.22	99.66	-6,842.04	4,374.57	8,921.16	8,756.82	164.35	54.282		
8,500.00	7,181.82	5,050.00	5,050.00	88.26	87.22	99.66	-6,842.04	4,374.57	8,961.38	8,796.40	164.98	54.318		
8,605.60	7,266.61	5,050.00	5,050.00	89.58	87.22	99.66	-6,842.04	4,374.57	9,004.86	8,839.23	165.63	54.368		
8,650.00	7,302.60	5,050.00	5,050.00	90.13	87.22	94.22	-6,842.04	4,374.57	9,021.91	8,856.01	165.89	54.384		
8,700.00	7,343.78	5,050.00	5,050.00	90.72	87.22	87.46	-6,842.04	4,374.57	9,037.55	8,871.36	166.19	54.382		
8,750.00	7,385.32	5,050.00	5,050.00	91.28	87.22	80.27	-6,842.04	4,374.57	9,049.34	8,882.87	166.47	54.361		
8,800.00	7,426.92	5,050.00	5,050.00	91.81	87.22	72.93	-6,842.04	4,374.57	9,057.19	8,890.46	166.73	54.321		
8,850.00	7,468.27	5,050.00	5,050.00	92.29	87.22	65.76	-6,842.04	4,374.57	9,061.07	8,894.09	166.98	54.265		
8,900.00	7,509.04	5,050.00	5,050.00	92.72	87.22	59.02	-6,842.04	4,374.57	9,060.94	8,893.75	167.20	54.194		
8,950.00	7,548.93	5,050.00	5,050.00	93.10	87.22	52.86	-6,842.04	4,374.57	9,056.81	8,889.42	167.39	54.107		
9,000.00	7,587.63	5,050.00	5,050.00	93.43	87.22	47.35	-6,842.04	4,374.57	9,048.70	8,881.16	167.54	54.008		
9,050.00	7,624.85	5,050.00	5,050.00	93.71	87.22	42.48	-6,842.04	4,374.57	9,036.67	8,868.99	167.67	53.895		
9,100.00	7,660.30	5,050.00	5,050.00	93.93	87.22	38.19	-6,842.04	4,374.57	9,020.78	8,853.01	167.77	53.770		
9,150.00	7,693.72	5,050.00	5,050.00	94.10	87.22	34.39	-6,842.04	4,374.57	9,001.15	8,833.32	167.83	53.633		
9,200.00	7,724.85	5,050.00	5,050.00	94.23	87.22	31.01	-6,842.04	4,374.57	8,977.89	8,810.03	167.86	53.484		
9,250.00	7,753.45	5,050.00	5,050.00	94.30	87.22	27.93	-6,842.04	4,374.57	8,951.15	8,783.29	167.86	53.324		
9,300.00	7,779.31	5,050.00	5,050.00	94.34	87.22	25.08	-6,842.04	4,374.57	8,921.12	8,753.28	167.84	53.152		
9,350.00	7,802.23	5,050.00	5,050.00	94.33	87.22	22.33	-6,842.04	4,374.57	8,887.98	8,720.19	167.79	52.970		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	5,050.00	5,050.00	94.28	87.22	19.58	-6,842.04	4,374.57	8,851.96	8,684.23	167.72	52.778		
9,450.00	7,838.57	5,050.00	5,050.00	94.20	87.22	16.68	-6,842.04	4,374.57	8,813.29	8,645.65	167.63	52.575		
9,500.00	7,851.72	5,050.00	5,050.00	94.10	87.22	13.43	-6,842.04	4,374.57	8,772.23	8,604.70	167.53	52.362		
9,550.00	7,861.37	5,050.00	5,050.00	93.96	87.22	9.54	-6,842.04	4,374.57	8,729.07	8,561.66	167.42	52.140		
9,600.00	7,867.46	5,050.00	5,050.00	93.81	87.22	4.54	-6,842.04	4,374.57	8,684.11	8,516.81	167.30	51.908		
9,650.00	7,869.94	5,050.00	5,050.00	93.64	87.22	-2.37	-6,842.04	4,374.57	8,637.66	8,470.49	167.17	51.668		
9,659.14	7,870.00	5,050.00	5,050.00	93.60	87.22	-3.93	-6,842.04	4,374.57	8,629.04	8,461.89	167.15	51.624		
9,700.00	7,870.00	5,050.00	5,050.00	93.46	87.22	-3.93	-6,842.04	4,374.57	8,590.40	8,423.35	167.05	51.424		
9,800.00	7,870.00	5,050.00	5,050.00	93.11	87.22	-3.93	-6,842.04	4,374.57	8,495.94	8,329.14	166.80	50.936		
9,900.00	7,870.00	5,050.00	5,050.00	92.77	87.22	-3.93	-6,842.04	4,374.57	8,401.61	8,235.07	166.54	50.448		
10,000.00	7,870.00	5,050.00	5,050.00	92.46	87.22	-3.93	-6,842.04	4,374.57	8,307.41	8,141.14	166.27	49.963		
10,100.00	7,870.00	5,050.00	5,050.00	92.16	87.22	-3.93	-6,842.04	4,374.57	8,213.34	8,047.34	166.00	49.478		
10,200.00	7,870.00	5,050.00	5,050.00	91.87	87.22	-3.93	-6,842.04	4,374.57	8,119.42	7,953.70	165.72	48.994		
10,300.00	7,870.00	5,050.00	5,050.00	91.60	87.22	-3.93	-6,842.04	4,374.57	8,025.65	7,860.21	165.44	48.512		
10,400.00	7,870.00	5,050.00	5,050.00	91.34	87.22	-3.93	-6,842.04	4,374.57	7,932.02	7,766.88	165.14	48.032		
10,500.00	7,870.00	5,050.00	5,050.00	91.11	87.22	-3.93	-6,842.04	4,374.57	7,838.56	7,673.72	164.84	47.552		
10,600.00	7,870.00	5,050.00	5,050.00	90.88	87.22	-3.93	-6,842.04	4,374.57	7,745.26	7,580.72	164.53	47.075		
10,700.00	7,870.00	5,050.00	5,050.00	90.67	87.22	-3.93	-6,842.04	4,374.57	7,652.12	7,487.91	164.21	46.598		
10,800.00	7,870.00	5,050.00	5,050.00	90.48	87.22	-3.93	-6,842.04	4,374.57	7,559.17	7,395.28	163.89	46.124		
10,900.00	7,870.00	5,050.00	5,050.00	90.31	87.22	-3.93	-6,842.04	4,374.57	7,466.39	7,302.83	163.55	45.651		
11,000.00	7,870.00	5,050.00	5,050.00	90.15	87.22	-3.93	-6,842.04	4,374.57	7,373.80	7,210.59	163.21	45.179		
11,100.00	7,870.00	5,050.00	5,050.00	90.00	87.22	-3.93	-6,842.04	4,374.57	7,281.41	7,118.55	162.86	44.710		
11,200.00	7,870.00	5,050.00	5,050.00	89.88	87.22	-3.93	-6,842.04	4,374.57	7,189.22	7,026.73	162.50	44.243		
11,300.00	7,870.00	5,050.00	5,050.00	89.77	87.22	-3.93	-6,842.04	4,374.57	7,097.25	6,935.13	162.12	43.777		
11,400.00	7,870.00	5,050.00	5,050.00	89.68	87.22	-3.93	-6,842.04	4,374.57	7,005.49	6,843.75	161.74	43.314		
11,500.00	7,870.00	5,050.00	5,050.00	89.60	87.22	-3.93	-6,842.04	4,374.57	6,913.97	6,752.62	161.34	42.852		
11,600.00	7,870.00	5,050.00	5,050.00	89.55	87.22	-3.93	-6,842.04	4,374.57	6,822.68	6,661.74	160.94	42.393		
11,700.00	7,870.00	5,050.00	5,050.00	89.52	87.22	-3.93	-6,842.04	4,374.57	6,731.64	6,571.12	160.52	41.937		
11,800.00	7,870.00	5,050.00	5,050.00	89.50	87.22	-3.93	-6,842.04	4,374.57	6,640.85	6,480.76	160.09	41.482		
11,900.00	7,870.00	5,050.00	5,050.00	89.51	87.22	-3.93	-6,842.04	4,374.57	6,550.34	6,390.69	159.65	41.030		
12,000.00	7,870.00	5,050.00	5,050.00	89.54	87.22	-3.93	-6,842.04	4,374.57	6,460.10	6,300.91	159.19	40.581		
12,100.00	7,870.00	5,050.00	5,050.00	89.59	87.22	-3.93	-6,842.04	4,374.57	6,370.16	6,211.44	158.72	40.135		
12,200.00	7,870.00	5,050.00	5,050.00	89.66	87.22	-3.93	-6,842.04	4,374.57	6,280.52	6,122.28	158.23	39.691		
12,300.00	7,870.00	5,050.00	5,050.00	89.77	87.22	-3.93	-6,842.04	4,374.57	6,191.19	6,033.46	157.73	39.251		
12,400.00	7,870.00	5,050.00	5,050.00	89.89	87.22	-3.93	-6,842.04	4,374.57	6,102.20	5,944.98	157.22	38.814		
12,500.00	7,870.00	5,050.00	5,050.00	90.05	87.22	-3.93	-6,842.04	4,374.57	6,013.56	5,856.87	156.69	38.380		
12,600.00	7,870.00	5,050.00	5,050.00	90.24	87.22	-3.93	-6,842.04	4,374.57	5,925.27	5,769.14	156.14	37.949		
12,700.00	7,870.00	5,050.00	5,050.00	90.46	87.22	-3.93	-6,842.04	4,374.57	5,837.37	5,681.80	155.57	37.522		
12,800.00	7,870.00	5,050.00	5,050.00	90.71	87.22	-3.93	-6,842.04	4,374.57	5,749.86	5,594.87	154.99	37.099		
12,900.00	7,870.00	5,050.00	5,050.00	90.99	87.22	-3.93	-6,842.04	4,374.57	5,662.76	5,508.37	154.39	36.679		
13,000.00	7,870.00	5,050.00	5,050.00	91.32	87.22	-3.93	-6,842.04	4,374.57	5,576.10	5,422.33	153.76	36.264		
13,100.00	7,870.00	5,050.00	5,050.00	91.68	87.22	-3.93	-6,842.04	4,374.57	5,489.88	5,336.76	153.12	35.853		
13,200.00	7,870.00	5,050.00	5,050.00	92.08	87.22	-3.93	-6,842.04	4,374.57	5,404.15	5,251.69	152.46	35.447		
13,300.00	7,870.00	5,050.00	5,050.00	92.52	87.22	-3.93	-6,842.04	4,374.57	5,318.91	5,167.14	151.77	35.045		
13,400.00	7,870.00	5,050.00	5,050.00	93.00	87.22	-3.93	-6,842.04	4,374.57	5,234.20	5,083.13	151.07	34.648		
13,500.00	7,870.00	5,050.00	5,050.00	93.53	87.22	-3.93	-6,842.04	4,374.57	5,150.03	4,999.69	150.34	34.257		
13,600.00	7,870.00	5,050.00	5,050.00	94.10	87.22	-3.93	-6,842.04	4,374.57	5,066.44	4,916.86	149.58	33.870		
13,700.00	7,870.00	5,050.00	5,050.00	94.72	87.22	-3.93	-6,842.04	4,374.57	4,983.45	4,834.65	148.81	33.490		
13,800.00	7,870.00	5,050.00	5,050.00	95.38	87.22	-3.93	-6,842.04	4,374.57	4,901.10	4,753.10	148.00	33.115		
13,900.00	7,870.00	5,050.00	5,050.00	96.09	87.22	-3.93	-6,842.04	4,374.57	4,819.42	4,672.24	147.17	32.746		
14,000.00	7,870.00	5,050.00	5,050.00	96.84	87.22	-3.93	-6,842.04	4,374.57	4,738.44	4,592.12	146.32	32.384		
14,100.00	7,870.00	5,050.00	5,050.00	97.64	87.22	-3.93	-6,842.04	4,374.57	4,658.19	4,512.76	145.44	32.029		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	5,050.00	5,050.00	98.48	87.22	-3.93	-6,842.04	4,374.57	4,578.73	4,434.20	144.53	31.681		
14,300.00	7,870.00	5,050.00	5,050.00	99.37	87.22	-3.93	-6,842.04	4,374.57	4,500.08	4,356.50	143.59	31.340		
14,400.00	7,870.00	5,050.00	5,050.00	100.30	87.22	-3.93	-6,842.04	4,374.57	4,422.30	4,279.68	142.62	31.007		
14,500.00	7,870.00	5,050.00	5,050.00	101.26	87.22	-3.93	-6,842.04	4,374.57	4,345.43	4,203.80	141.63	30.682		
14,600.00	7,870.00	5,050.00	5,050.00	102.27	87.22	-3.93	-6,842.04	4,374.57	4,269.51	4,128.91	140.60	30.365		
14,700.00	7,870.00	5,050.00	5,050.00	103.31	87.22	-3.93	-6,842.04	4,374.57	4,194.61	4,055.06	139.55	30.058		
14,800.00	7,870.00	5,050.00	5,050.00	104.38	87.22	-3.93	-6,842.04	4,374.57	4,120.77	3,982.30	138.47	29.760		
14,900.00	7,870.00	5,050.00	5,050.00	105.49	87.22	-3.93	-6,842.04	4,374.57	4,048.05	3,910.69	137.36	29.471		
15,000.00	7,870.00	5,050.00	5,050.00	106.63	87.22	-3.93	-6,842.04	4,374.57	3,976.52	3,840.30	136.22	29.192		
15,100.00	7,870.00	5,050.00	5,050.00	107.80	87.22	-3.93	-6,842.04	4,374.57	3,906.24	3,771.19	135.05	28.924		
15,200.00	7,870.00	5,050.00	5,050.00	109.00	87.22	-3.93	-6,842.04	4,374.57	3,837.28	3,703.42	133.86	28.667		
15,300.00	7,870.00	5,050.00	5,050.00	110.22	87.22	-3.93	-6,842.04	4,374.57	3,769.71	3,637.07	132.64	28.421		
15,400.00	7,870.00	5,050.00	5,050.00	111.47	87.22	-3.93	-6,842.04	4,374.57	3,703.61	3,572.21	131.39	28.187		
15,500.00	7,870.00	5,050.00	5,050.00	112.74	87.22	-3.93	-6,842.04	4,374.57	3,639.05	3,508.92	130.13	27.965		
15,600.00	7,870.00	5,050.00	5,050.00	114.03	87.22	-3.93	-6,842.04	4,374.57	3,576.13	3,447.29	128.84	27.756		
15,700.00	7,870.00	5,050.00	5,050.00	115.34	87.22	-3.93	-6,842.04	4,374.57	3,514.92	3,387.39	127.53	27.561		
15,800.00	7,870.00	5,050.00	5,050.00	116.68	87.22	-3.93	-6,842.04	4,374.57	3,455.53	3,329.32	126.21	27.379		
15,900.00	7,870.00	5,050.00	5,050.00	118.02	87.22	-3.93	-6,842.04	4,374.57	3,398.04	3,273.16	124.88	27.211		
16,000.00	7,870.00	5,050.00	5,050.00	119.39	87.22	-3.93	-6,842.04	4,374.57	3,342.55	3,219.02	123.53	27.058		
16,100.00	7,870.00	5,050.00	5,050.00	120.77	87.22	-3.93	-6,842.04	4,374.57	3,289.17	3,166.99	122.18	26.920		
16,200.00	7,870.00	5,050.00	5,050.00	122.17	87.22	-3.93	-6,842.04	4,374.57	3,238.00	3,117.17	120.83	26.798		
16,300.00	7,870.00	5,050.00	5,050.00	123.58	87.22	-3.93	-6,842.04	4,374.57	3,189.14	3,069.66	119.48	26.692		
16,400.00	7,870.00	5,050.00	5,050.00	125.00	87.22	-3.93	-6,842.04	4,374.57	3,142.71	3,024.57	118.14	26.602		
16,500.00	7,870.00	5,050.00	5,050.00	126.43	87.22	-3.93	-6,842.04	4,374.57	3,098.81	2,982.00	116.81	26.529		
16,600.00	7,870.00	5,050.00	5,050.00	127.88	87.22	-3.93	-6,842.04	4,374.57	3,057.55	2,942.05	115.50	26.472		
16,700.00	7,870.00	5,050.00	5,050.00	129.34	87.22	-3.93	-6,842.04	4,374.57	3,019.04	2,904.82	114.22	26.432		
16,800.00	7,870.00	5,050.00	5,050.00	130.81	87.22	-3.93	-6,842.04	4,374.57	2,983.39	2,870.41	112.98	26.406		
16,900.00	7,870.00	5,050.00	5,050.00	132.28	87.22	-3.93	-6,842.04	4,374.57	2,950.70	2,838.91	111.79	26.395		
17,000.00	7,870.00	5,050.00	5,050.00	133.77	87.22	-3.93	-6,842.04	4,374.57	2,921.06	2,810.40	110.67	26.396		
17,100.00	7,870.00	5,050.00	5,050.00	135.27	87.22	-3.93	-6,842.04	4,374.57	2,894.58	2,784.95	109.63	26.403		
17,200.00	7,870.00	5,050.00	5,050.00	136.77	87.22	-3.93	-6,842.04	4,374.57	2,871.34	2,762.63	108.71	26.412		
17,300.00	7,870.00	5,050.00	5,050.00	138.28	87.22	-3.93	-6,842.04	4,374.57	2,851.42	2,743.47	107.95	26.414		
17,400.00	7,870.00	5,050.00	5,050.00	139.80	87.22	-3.93	-6,842.04	4,374.57	2,834.89	2,727.49	107.40	26.396		
17,500.00	7,870.00	5,050.00	5,050.00	141.33	87.22	-3.93	-6,842.04	4,374.57	2,821.80	2,714.68	107.12	26.343		
17,600.00	7,870.00	5,050.00	5,050.00	142.86	87.22	-3.93	-6,842.04	4,374.57	2,812.22	2,705.02	107.20	26.234		
17,700.00	7,870.00	5,050.00	5,050.00	144.40	87.22	-3.93	-6,842.04	4,374.57	2,806.16	2,698.45	107.71	26.052		
17,800.00	7,870.00	5,050.00	5,050.00	145.95	87.22	-3.93	-6,842.04	4,374.57	2,803.67	2,694.92	108.75	25.782		
17,820.03	7,870.00	5,050.00	5,050.00	146.26	87.22	-3.93	-6,842.04	4,374.57	2,803.60	2,694.58	109.02	25.717 CC		
17,900.00	7,870.00	5,050.00	5,050.00	147.50	87.22	-3.93	-6,842.04	4,374.57	2,804.74	2,694.42	110.32	25.423 ES		
18,000.00	7,870.00	5,050.00	5,050.00	149.06	87.22	-3.93	-6,842.04	4,374.57	2,809.37	2,696.96	112.41	24.992		
18,100.00	7,870.00	5,050.00	5,050.00	150.63	87.22	-3.93	-6,842.04	4,374.57	2,817.54	2,702.61	114.93	24.514		
18,200.00	7,870.00	5,050.00	5,050.00	152.20	87.22	-3.93	-6,842.04	4,374.57	2,829.23	2,711.43	117.79	24.019		
18,300.00	7,870.00	5,050.00	5,050.00	153.77	87.22	-3.93	-6,842.04	4,374.57	2,844.38	2,723.50	120.88	23.530		
18,400.00	7,870.00	5,050.00	5,050.00	155.35	87.22	-3.93	-6,842.04	4,374.57	2,862.96	2,738.84	124.12	23.066		
18,500.00	7,870.00	5,050.00	5,050.00	156.93	87.22	-3.93	-6,842.04	4,374.57	2,884.88	2,757.45	127.42	22.640		
18,600.00	7,870.00	5,050.00	5,050.00	158.52	87.22	-3.93	-6,842.04	4,374.57	2,910.07	2,779.33	130.74	22.259		
18,700.00	7,870.00	5,050.00	5,050.00	160.11	87.22	-3.93	-6,842.04	4,374.57	2,938.45	2,804.43	134.02	21.925		
18,800.00	7,870.00	5,050.00	5,050.00	161.71	87.22	-3.93	-6,842.04	4,374.57	2,969.93	2,832.68	137.25	21.639		
18,900.00	7,870.00	5,050.00	5,050.00	163.31	87.22	-3.93	-6,842.04	4,374.57	3,004.41	2,864.02	140.39	21.401		
19,000.00	7,870.00	5,050.00	5,050.00	164.91	87.22	-3.93	-6,842.04	4,374.57	3,041.79	2,898.36	143.42	21.208		
19,100.00	7,870.00	5,050.00	5,050.00	166.52	87.22	-3.93	-6,842.04	4,374.57	3,081.96	2,935.61	146.35	21.060		
19,200.00	7,870.00	5,050.00	5,050.00	168.13	87.22	-3.93	-6,842.04	4,374.57	3,124.81	2,975.67	149.14	20.952		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,050.00	5,050.00	169.75	87.22	-3.93	-6,842.04	4,374.57	3,170.25	3,018.43	151.81	20.883	
19,383.51	7,870.00	5,050.00	5,050.00	171.10	87.22	-3.93	-6,842.04	4,374.57	3,210.08	3,056.14	153.94	20.853 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	151.94	-8,182.26	4,362.48	9,272.63					
100.00	100.00	68.00	68.00	0.13	0.56	151.94	-8,182.26	4,362.48	9,272.57	9,271.87	0.70	N/A		
200.00	200.00	168.00	168.00	0.49	2.02	151.94	-8,182.26	4,362.48	9,272.57	9,270.06	2.51	3,696.085		
300.00	300.00	268.00	268.00	0.85	3.76	151.94	-8,182.26	4,362.48	9,272.57	9,267.96	4.61	2,010.289		
400.00	400.00	368.00	368.00	1.21	5.51	151.94	-8,182.26	4,362.48	9,272.57	9,265.85	6.72	1,380.595		
500.00	500.00	468.00	468.00	1.57	7.25	151.94	-8,182.26	4,362.48	9,272.57	9,263.75	8.82	1,051.293		
600.00	600.00	568.00	568.00	1.93	9.00	151.94	-8,182.26	4,362.48	9,272.57	9,261.65	10.92	848.829		
700.00	699.98	667.98	667.98	2.28	10.74	88.13	-8,182.26	4,362.48	9,272.51	9,259.49	13.02	712.009		
800.00	799.84	767.84	767.84	2.64	12.48	88.16	-8,182.26	4,362.48	9,272.34	9,257.22	15.12	613.277		
900.00	899.45	867.45	867.45	3.00	14.22	88.22	-8,182.26	4,362.48	9,272.07	9,254.85	17.22	538.469		
1,000.00	998.70	966.70	966.70	3.37	15.96	88.30	-8,182.26	4,362.48	9,271.69	9,252.37	19.33	479.766		
1,100.00	1,097.47	1,065.47	1,065.47	3.76	17.68	88.41	-8,182.26	4,362.48	9,271.24	9,249.80	21.44	432.402		
1,200.00	1,195.62	1,163.62	1,163.62	4.18	19.39	88.53	-8,182.26	4,362.48	9,270.72	9,247.15	23.57	393.317		
1,300.00	1,293.06	1,261.06	1,261.06	4.63	21.09	88.68	-8,182.26	4,362.48	9,270.16	9,244.44	25.72	360.462		
1,400.00	1,389.64	1,357.64	1,357.64	5.11	22.78	88.85	-8,182.26	4,362.48	9,269.58	9,241.70	27.89	332.414		
1,500.00	1,485.27	1,453.27	1,453.27	5.63	24.45	89.03	-8,182.26	4,362.48	9,269.02	9,238.94	30.08	308.157		
1,600.00	1,579.82	1,547.82	1,547.82	6.20	26.10	89.23	-8,182.26	4,362.48	9,268.50	9,236.20	32.30	286.947		
1,700.00	1,673.17	1,641.17	1,641.17	6.83	27.73	89.45	-8,182.26	4,362.48	9,268.05	9,233.50	34.55	268.229		
1,800.00	1,765.21	1,733.21	1,733.21	7.51	29.33	89.68	-8,182.26	4,362.48	9,267.73	9,230.89	36.84	251.577		
1,900.00	1,855.84	1,823.84	1,823.84	8.24	30.92	89.92	-8,182.26	4,362.48	9,267.56	9,228.41	39.16	236.664		
1,933.95	1,886.27	1,854.27	1,854.27	8.52	31.45	90.00	-8,182.26	4,362.48	9,267.55	9,227.59	39.96	231.909		
2,000.00	1,944.94	1,912.94	1,912.94	9.05	32.47	90.17	-8,182.26	4,362.48	9,267.60	9,226.09	41.52	223.228		
2,100.00	2,032.39	2,000.39	2,000.39	9.91	34.00	90.42	-8,182.26	4,362.48	9,267.89	9,223.98	43.91	211.064		
2,200.00	2,118.11	2,086.11	2,086.11	10.85	35.49	90.68	-8,182.26	4,362.48	9,268.47	9,222.13	46.34	200.003		
2,300.00	2,201.97	2,169.97	2,169.97	11.85	36.96	90.95	-8,182.26	4,362.48	9,269.39	9,220.58	48.81	189.908		
2,400.00	2,283.88	2,251.88	2,251.88	12.93	38.39	91.21	-8,182.26	4,362.48	9,270.72	9,219.40	51.32	180.663		
2,429.47	2,307.63	2,275.63	2,275.63	13.26	38.80	91.29	-8,182.26	4,362.48	9,271.19	9,219.13	52.06	178.089		
2,500.00	2,364.26	2,332.26	2,332.26	14.06	39.79	91.50	-8,182.26	4,362.48	9,272.46	9,218.61	53.85	172.191		
2,600.00	2,444.56	2,412.56	2,412.56	15.22	41.19	91.79	-8,182.26	4,362.48	9,274.59	9,218.18	56.41	164.428		
2,700.00	2,524.85	2,507.15	2,492.85	16.39	42.84	92.09	-8,182.26	4,362.48	9,277.10	9,217.88	59.22	156.645		
2,800.00	2,605.14	2,573.14	2,573.14	17.57	43.99	92.38	-8,182.26	4,362.48	9,280.00	9,218.44	61.55	150.763		
2,900.00	2,685.43	2,653.43	2,653.43	18.76	45.39	92.68	-8,182.26	4,362.48	9,283.27	9,219.13	64.14	144.732		
3,000.00	2,765.73	2,733.73	2,733.73	19.96	46.80	92.97	-8,182.26	4,362.48	9,286.93	9,220.20	66.74	139.161		
3,100.00	2,846.02	2,814.02	2,814.02	21.16	48.20	93.27	-8,182.26	4,362.48	9,290.97	9,221.64	69.33	134.003		
3,200.00	2,926.31	2,905.69	2,894.31	22.37	49.80	93.56	-8,182.26	4,362.48	9,295.39	9,223.26	72.14	128.860		
3,300.00	3,006.60	2,974.60	2,974.60	23.59	51.00	93.86	-8,182.26	4,362.48	9,300.19	9,225.65	74.54	124.763		
3,400.00	3,086.90	3,054.90	3,054.90	24.81	52.40	94.15	-8,182.26	4,362.48	9,305.37	9,228.22	77.15	120.613		
3,500.00	3,167.19	3,135.19	3,135.19	26.03	53.80	94.45	-8,182.26	4,362.48	9,310.93	9,231.17	79.76	116.737		
3,600.00	3,247.48	3,215.48	3,215.48	27.25	55.20	94.74	-8,182.26	4,362.48	9,316.86	9,234.49	82.37	113.110		
3,700.00	3,327.77	3,304.23	3,295.77	28.48	56.75	95.03	-8,182.26	4,362.48	9,323.18	9,238.05	85.13	109.519		
3,800.00	3,408.07	3,376.07	3,376.07	29.71	58.01	95.33	-8,182.26	4,362.48	9,329.87	9,242.28	87.59	106.516		
3,900.00	3,488.36	3,456.36	3,456.36	30.94	59.41	95.62	-8,182.26	4,362.48	9,336.93	9,246.73	90.20	103.512		
4,000.00	3,568.65	3,536.65	3,536.65	32.17	60.81	95.91	-8,182.26	4,362.48	9,344.37	9,251.56	92.81	100.683		
4,100.00	3,648.95	3,616.95	3,616.95	33.41	62.21	96.21	-8,182.26	4,362.48	9,352.19	9,256.77	95.42	98.013		
4,200.00	3,729.24	3,702.76	3,697.24	34.64	63.71	96.50	-8,182.26	4,362.48	9,360.37	9,262.25	98.12	95.396		
4,300.00	3,809.53	3,777.53	3,777.53	35.88	65.01	96.79	-8,182.26	4,362.48	9,368.93	9,268.30	100.63	93.103		
4,400.00	3,889.82	3,857.82	3,857.82	37.12	66.42	97.08	-8,182.26	4,362.48	9,377.87	9,274.63	103.23	90.842		
4,500.00	3,970.12	3,938.12	3,938.12	38.36	67.82	97.37	-8,182.26	4,362.48	9,387.17	9,281.33	105.83	88.697		
4,600.00	4,050.41	4,018.41	4,018.41	39.60	69.22	97.66	-8,182.26	4,362.48	9,396.84	9,288.40	108.43	86.661		
4,700.00	4,130.70	4,101.30	4,098.70	40.84	70.66	97.96	-8,182.26	4,362.48	9,406.87	9,295.80	111.07	84.690		
4,800.00	4,210.99	4,178.99	4,178.99	42.08	72.02	98.25	-8,182.26	4,362.48	9,417.28	9,303.65	113.62	82.882		
4,900.00	4,291.29	4,259.29	4,259.29	43.32	73.42	98.53	-8,182.26	4,362.48	9,428.05	9,311.83	116.21	81.128		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,371.58	4,339.58	4,339.58	44.57	74.82	98.82	-8,182.26	4,362.48	9,439.18	9,320.38	118.80	79.454		
5,100.00	4,451.87	4,419.87	4,419.87	45.81	76.23	99.11	-8,182.26	4,362.48	9,450.68	9,329.29	121.38	77.857		
5,200.00	4,532.16	4,500.16	4,500.16	47.05	77.63	99.40	-8,182.26	4,362.48	9,462.53	9,338.57	123.97	76.332		
5,300.00	4,612.46	4,580.46	4,580.46	48.30	79.03	99.69	-8,182.26	4,362.48	9,474.75	9,348.21	126.54	74.873		
5,400.00	4,692.75	4,660.75	4,660.75	49.54	80.43	99.98	-8,182.26	4,362.48	9,487.33	9,358.21	129.12	73.478		
5,500.00	4,773.04	4,741.04	4,741.04	50.79	81.83	100.26	-8,182.26	4,362.48	9,500.26	9,368.57	131.69	72.142		
5,600.00	4,853.34	4,821.34	4,821.34	52.03	83.23	100.55	-8,182.26	4,362.48	9,513.55	9,379.30	134.26	70.862		
5,700.00	4,933.63	4,901.63	4,901.63	53.28	84.63	100.83	-8,182.26	4,362.48	9,527.20	9,390.38	136.82	69.634		
5,800.00	5,013.92	4,981.92	4,981.92	54.53	86.03	101.12	-8,182.26	4,362.48	9,541.20	9,401.82	139.38	68.456		
5,900.00	5,094.21	5,048.00	5,048.00	55.77	87.19	101.35	-8,182.26	4,362.48	9,555.55	9,413.87	141.68	67.444		
6,000.00	5,174.51	5,048.00	5,048.00	57.02	87.19	101.35	-8,182.26	4,362.48	9,570.71	9,427.90	142.81	67.017		
6,100.00	5,254.80	5,048.00	5,048.00	58.27	87.19	101.35	-8,182.26	4,362.48	9,586.88	9,442.96	143.92	66.611		
6,200.00	5,335.09	5,048.00	5,048.00	59.52	87.19	101.35	-8,182.26	4,362.48	9,604.07	9,459.05	145.02	66.225		
6,300.00	5,415.38	5,048.00	5,048.00	60.76	87.19	101.35	-8,182.26	4,362.48	9,622.27	9,476.16	146.11	65.858		
6,400.00	5,495.68	5,048.00	5,048.00	62.01	87.19	101.35	-8,182.26	4,362.48	9,641.47	9,494.29	147.17	65.511		
6,500.00	5,575.97	5,048.00	5,048.00	63.26	87.19	101.35	-8,182.26	4,362.48	9,661.66	9,513.44	148.23	65.182		
6,600.00	5,656.26	5,048.00	5,048.00	64.51	87.19	101.35	-8,182.26	4,362.48	9,682.85	9,533.59	149.26	64.872		
6,700.00	5,736.55	5,048.00	5,048.00	65.76	87.19	101.35	-8,182.26	4,362.48	9,705.02	9,554.74	150.28	64.579		
6,800.00	5,816.85	5,048.00	5,048.00	67.01	87.19	101.35	-8,182.26	4,362.48	9,728.17	9,576.88	151.28	64.304		
6,900.00	5,897.14	5,048.00	5,048.00	68.26	87.19	101.35	-8,182.26	4,362.48	9,752.29	9,600.02	152.27	64.045		
7,000.00	5,977.43	5,048.00	5,048.00	69.50	87.19	101.35	-8,182.26	4,362.48	9,777.37	9,624.13	153.24	63.803		
7,100.00	6,057.72	5,048.00	5,048.00	70.75	87.19	101.35	-8,182.26	4,362.48	9,803.41	9,649.21	154.20	63.577		
7,200.00	6,138.02	5,048.00	5,048.00	72.00	87.19	101.35	-8,182.26	4,362.48	9,830.40	9,675.26	155.14	63.366		
7,300.00	6,218.31	5,048.00	5,048.00	73.25	87.19	101.35	-8,182.26	4,362.48	9,858.32	9,702.26	156.06	63.171		
7,400.00	6,298.60	5,048.00	5,048.00	74.50	87.19	101.35	-8,182.26	4,362.48	9,887.18	9,730.22	156.96	62.990		
7,500.00	6,378.90	5,048.00	5,048.00	75.75	87.19	101.35	-8,182.26	4,362.48	9,916.97	9,759.11	157.85	62.824		
7,600.00	6,459.19	5,048.00	5,048.00	77.00	87.19	101.35	-8,182.26	4,362.48	9,947.67	9,788.94	158.72	62.672		
7,700.00	6,539.48	5,048.00	5,048.00	78.25	87.19	101.35	-8,182.26	4,362.48	9,979.27	9,819.69	159.58	62.534		
9,600.00	7,867.46	5,048.00	5,048.00	93.81	87.19	5.74	-8,182.26	4,362.48	9,960.00	9,790.51	169.49	58.764		
9,650.00	7,869.94	5,048.00	5,048.00	93.64	87.19	-1.98	-8,182.26	4,362.48	9,912.78	9,743.38	169.41	58.514		
9,659.14	7,870.00	5,048.00	5,048.00	93.60	87.19	-3.79	-8,182.26	4,362.48	9,904.04	9,734.64	169.39	58.468		
9,700.00	7,870.00	5,048.00	5,048.00	93.46	87.19	-3.79	-8,182.26	4,362.48	9,864.84	9,695.52	169.32	58.261		
9,800.00	7,870.00	5,048.00	5,048.00	93.11	87.19	-3.79	-8,182.26	4,362.48	9,768.98	9,599.84	169.14	57.756		
9,900.00	7,870.00	5,048.00	5,048.00	92.77	87.19	-3.79	-8,182.26	4,362.48	9,673.21	9,504.25	168.96	57.252		
10,000.00	7,870.00	5,048.00	5,048.00	92.46	87.19	-3.79	-8,182.26	4,362.48	9,577.52	9,408.75	168.77	56.748		
10,100.00	7,870.00	5,048.00	5,048.00	92.16	87.19	-3.79	-8,182.26	4,362.48	9,481.92	9,313.34	168.58	56.245		
10,200.00	7,870.00	5,048.00	5,048.00	91.87	87.19	-3.79	-8,182.26	4,362.48	9,386.42	9,218.03	168.39	55.743		
10,300.00	7,870.00	5,048.00	5,048.00	91.60	87.19	-3.79	-8,182.26	4,362.48	9,291.00	9,122.81	168.19	55.241		
10,400.00	7,870.00	5,048.00	5,048.00	91.34	87.19	-3.79	-8,182.26	4,362.48	9,195.69	9,027.70	167.99	54.740		
10,500.00	7,870.00	5,048.00	5,048.00	91.11	87.19	-3.79	-8,182.26	4,362.48	9,100.48	8,932.69	167.78	54.240		
10,600.00	7,870.00	5,048.00	5,048.00	90.88	87.19	-3.79	-8,182.26	4,362.48	9,005.36	8,837.79	167.57	53.740		
10,700.00	7,870.00	5,048.00	5,048.00	90.67	87.19	-3.79	-8,182.26	4,362.48	8,910.36	8,743.01	167.36	53.242		
10,800.00	7,870.00	5,048.00	5,048.00	90.48	87.19	-3.79	-8,182.26	4,362.48	8,815.47	8,648.33	167.14	52.744		
10,900.00	7,870.00	5,048.00	5,048.00	90.31	87.19	-3.79	-8,182.26	4,362.48	8,720.69	8,553.78	166.91	52.247		
11,000.00	7,870.00	5,048.00	5,048.00	90.15	87.19	-3.79	-8,182.26	4,362.48	8,626.03	8,459.35	166.68	51.751		
11,100.00	7,870.00	5,048.00	5,048.00	90.00	87.19	-3.79	-8,182.26	4,362.48	8,531.49	8,365.04	166.45	51.256		
11,200.00	7,870.00	5,048.00	5,048.00	89.88	87.19	-3.79	-8,182.26	4,362.48	8,437.08	8,270.87	166.21	50.762		
11,300.00	7,870.00	5,048.00	5,048.00	89.77	87.19	-3.79	-8,182.26	4,362.48	8,342.79	8,176.83	165.96	50.269		
11,400.00	7,870.00	5,048.00	5,048.00	89.68	87.19	-3.79	-8,182.26	4,362.48	8,248.64	8,082.93	165.71	49.777		
11,500.00	7,870.00	5,048.00	5,048.00	89.60	87.19	-3.79	-8,182.26	4,362.48	8,154.64	7,989.18	165.45	49.287		
11,600.00	7,870.00	5,048.00	5,048.00	89.55	87.19	-3.79	-8,182.26	4,362.48	8,060.77	7,895.58	165.19	48.797		
11,700.00	7,870.00	5,048.00	5,048.00	89.52	87.19	-3.79	-8,182.26	4,362.48	7,967.06	7,802.13	164.92	48.308		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
11,800.00	7,870.00	5,048.00	5,048.00	89.50	87.19	-3.79	-8,182.26	4,362.48	7,873.49	7,708.85	164.65	47.821		
11,900.00	7,870.00	5,048.00	5,048.00	89.51	87.19	-3.79	-8,182.26	4,362.48	7,780.09	7,615.73	164.36	47.335		
12,000.00	7,870.00	5,048.00	5,048.00	89.54	87.19	-3.79	-8,182.26	4,362.48	7,686.86	7,522.79	164.07	46.850		
12,100.00	7,870.00	5,048.00	5,048.00	89.59	87.19	-3.79	-8,182.26	4,362.48	7,593.80	7,430.02	163.78	46.367		
12,200.00	7,870.00	5,048.00	5,048.00	89.66	87.19	-3.79	-8,182.26	4,362.48	7,500.91	7,337.44	163.47	45.885		
12,300.00	7,870.00	5,048.00	5,048.00	89.77	87.19	-3.79	-8,182.26	4,362.48	7,408.21	7,245.06	163.16	45.405		
12,400.00	7,870.00	5,048.00	5,048.00	89.89	87.19	-3.79	-8,182.26	4,362.48	7,315.71	7,152.87	162.84	44.926		
12,500.00	7,870.00	5,048.00	5,048.00	90.05	87.19	-3.79	-8,182.26	4,362.48	7,223.40	7,060.89	162.51	44.449		
12,600.00	7,870.00	5,048.00	5,048.00	90.24	87.19	-3.79	-8,182.26	4,362.48	7,131.30	6,969.13	162.17	43.973		
12,700.00	7,870.00	5,048.00	5,048.00	90.46	87.19	-3.79	-8,182.26	4,362.48	7,039.42	6,877.59	161.83	43.499		
12,800.00	7,870.00	5,048.00	5,048.00	90.71	87.19	-3.79	-8,182.26	4,362.48	6,947.76	6,786.29	161.47	43.027		
12,900.00	7,870.00	5,048.00	5,048.00	90.99	87.19	-3.79	-8,182.26	4,362.48	6,856.33	6,695.22	161.11	42.557		
13,000.00	7,870.00	5,048.00	5,048.00	91.32	87.19	-3.79	-8,182.26	4,362.48	6,765.15	6,604.42	160.73	42.089		
13,100.00	7,870.00	5,048.00	5,048.00	91.68	87.19	-3.79	-8,182.26	4,362.48	6,674.22	6,513.87	160.35	41.623		
13,200.00	7,870.00	5,048.00	5,048.00	92.08	87.19	-3.79	-8,182.26	4,362.48	6,583.55	6,423.60	159.95	41.159		
13,300.00	7,870.00	5,048.00	5,048.00	92.52	87.19	-3.79	-8,182.26	4,362.48	6,493.16	6,333.61	159.55	40.697		
13,400.00	7,870.00	5,048.00	5,048.00	93.00	87.19	-3.79	-8,182.26	4,362.48	6,403.05	6,243.92	159.13	40.238		
13,500.00	7,870.00	5,048.00	5,048.00	93.53	87.19	-3.79	-8,182.26	4,362.48	6,313.24	6,154.53	158.70	39.780		
13,600.00	7,870.00	5,048.00	5,048.00	94.10	87.19	-3.79	-8,182.26	4,362.48	6,223.74	6,065.48	158.26	39.326		
13,700.00	7,870.00	5,048.00	5,048.00	94.72	87.19	-3.79	-8,182.26	4,362.48	6,134.56	5,976.75	157.81	38.874		
13,800.00	7,870.00	5,048.00	5,048.00	95.38	87.19	-3.79	-8,182.26	4,362.48	6,045.73	5,888.38	157.34	38.424		
13,900.00	7,870.00	5,048.00	5,048.00	96.09	87.19	-3.79	-8,182.26	4,362.48	5,957.24	5,800.38	156.86	37.977		
14,000.00	7,870.00	5,048.00	5,048.00	96.84	87.19	-3.79	-8,182.26	4,362.48	5,869.13	5,712.76	156.37	37.534		
14,100.00	7,870.00	5,048.00	5,048.00	97.64	87.19	-3.79	-8,182.26	4,362.48	5,781.40	5,625.54	155.86	37.093		
14,200.00	7,870.00	5,048.00	5,048.00	98.48	87.19	-3.79	-8,182.26	4,362.48	5,694.08	5,538.74	155.34	36.655		
14,300.00	7,870.00	5,048.00	5,048.00	99.37	87.19	-3.79	-8,182.26	4,362.48	5,607.18	5,452.38	154.80	36.221		
14,400.00	7,870.00	5,048.00	5,048.00	100.30	87.19	-3.79	-8,182.26	4,362.48	5,520.73	5,366.48	154.25	35.790		
14,500.00	7,870.00	5,048.00	5,048.00	101.26	87.19	-3.79	-8,182.26	4,362.48	5,434.74	5,281.06	153.68	35.363		
14,600.00	7,870.00	5,048.00	5,048.00	102.27	87.19	-3.79	-8,182.26	4,362.48	5,349.24	5,196.14	153.10	34.940		
14,700.00	7,870.00	5,048.00	5,048.00	103.31	87.19	-3.79	-8,182.26	4,362.48	5,264.25	5,111.75	152.50	34.520		
14,800.00	7,870.00	5,048.00	5,048.00	104.38	87.19	-3.79	-8,182.26	4,362.48	5,179.79	5,027.91	151.88	34.104		
14,900.00	7,870.00	5,048.00	5,048.00	105.49	87.19	-3.79	-8,182.26	4,362.48	5,095.90	4,944.65	151.24	33.693		
15,000.00	7,870.00	5,048.00	5,048.00	106.63	87.19	-3.79	-8,182.26	4,362.48	5,012.60	4,862.01	150.59	33.286		
15,100.00	7,870.00	5,048.00	5,048.00	107.80	87.19	-3.79	-8,182.26	4,362.48	4,929.92	4,780.00	149.92	32.884		
15,200.00	7,870.00	5,048.00	5,048.00	109.00	87.19	-3.79	-8,182.26	4,362.48	4,847.89	4,698.66	149.23	32.486		
15,300.00	7,870.00	5,048.00	5,048.00	110.22	87.19	-3.79	-8,182.26	4,362.48	4,766.55	4,618.03	148.52	32.094		
15,400.00	7,870.00	5,048.00	5,048.00	111.47	87.19	-3.79	-8,182.26	4,362.48	4,685.93	4,538.14	147.79	31.707		
15,500.00	7,870.00	5,048.00	5,048.00	112.74	87.19	-3.79	-8,182.26	4,362.48	4,606.07	4,459.02	147.04	31.325		
15,600.00	7,870.00	5,048.00	5,048.00	114.03	87.19	-3.79	-8,182.26	4,362.48	4,527.01	4,380.73	146.28	30.949		
15,700.00	7,870.00	5,048.00	5,048.00	115.34	87.19	-3.79	-8,182.26	4,362.48	4,448.79	4,303.30	145.49	30.578		
15,800.00	7,870.00	5,048.00	5,048.00	116.68	87.19	-3.79	-8,182.26	4,362.48	4,371.46	4,226.78	144.68	30.214		
15,900.00	7,870.00	5,048.00	5,048.00	118.02	87.19	-3.79	-8,182.26	4,362.48	4,295.07	4,151.21	143.86	29.857		
16,000.00	7,870.00	5,048.00	5,048.00	119.39	87.19	-3.79	-8,182.26	4,362.48	4,219.66	4,076.65	143.01	29.506		
16,100.00	7,870.00	5,048.00	5,048.00	120.77	87.19	-3.79	-8,182.26	4,362.48	4,145.30	4,003.15	142.15	29.162		
16,200.00	7,870.00	5,048.00	5,048.00	122.17	87.19	-3.79	-8,182.26	4,362.48	4,072.03	3,930.77	141.26	28.826		
16,300.00	7,870.00	5,048.00	5,048.00	123.58	87.19	-3.79	-8,182.26	4,362.48	3,999.92	3,859.56	140.36	28.497		
16,400.00	7,870.00	5,048.00	5,048.00	125.00	87.19	-3.79	-8,182.26	4,362.48	3,929.04	3,789.59	139.44	28.177		
16,500.00	7,870.00	5,048.00	5,048.00	126.43	87.19	-3.79	-8,182.26	4,362.48	3,859.44	3,720.93	138.51	27.865		
16,600.00	7,870.00	5,048.00	5,048.00	127.88	87.19	-3.79	-8,182.26	4,362.48	3,791.20	3,653.65	137.55	27.562		
16,700.00	7,870.00	5,048.00	5,048.00	129.34	87.19	-3.79	-8,182.26	4,362.48	3,724.40	3,587.82	136.59	27.268		
16,800.00	7,870.00	5,048.00	5,048.00	130.81	87.19	-3.79	-8,182.26	4,362.48	3,659.11	3,523.51	135.60	26.984		
16,900.00	7,870.00	5,048.00	5,048.00	132.28	87.19	-3.79	-8,182.26	4,362.48	3,595.42	3,460.81	134.61	26.710		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
17,000.00	7,870.00	5,048.00	5,048.00	133.77	87.19	-3.79	-8,182.26	4,362.48	3,533.41	3,399.81	133.60	26.447					
17,100.00	7,870.00	5,048.00	5,048.00	135.27	87.19	-3.79	-8,182.26	4,362.48	3,473.18	3,340.59	132.58	26.196					
17,200.00	7,870.00	5,048.00	5,048.00	136.77	87.19	-3.79	-8,182.26	4,362.48	3,414.80	3,283.25	131.56	25.957					
17,300.00	7,870.00	5,048.00	5,048.00	138.28	87.19	-3.79	-8,182.26	4,362.48	3,358.40	3,227.88	130.52	25.730					
17,400.00	7,870.00	5,048.00	5,048.00	139.80	87.19	-3.79	-8,182.26	4,362.48	3,304.05	3,174.57	129.48	25.517					
17,500.00	7,870.00	5,048.00	5,048.00	141.33	87.19	-3.79	-8,182.26	4,362.48	3,251.88	3,123.44	128.44	25.319					
17,600.00	7,870.00	5,048.00	5,048.00	142.86	87.19	-3.79	-8,182.26	4,362.48	3,201.98	3,074.59	127.39	25.135					
17,700.00	7,870.00	5,048.00	5,048.00	144.40	87.19	-3.79	-8,182.26	4,362.48	3,154.46	3,028.11	126.35	24.966					
17,800.00	7,870.00	5,048.00	5,048.00	145.95	87.19	-3.79	-8,182.26	4,362.48	3,109.43	2,984.12	125.31	24.814					
17,900.00	7,870.00	5,048.00	5,048.00	147.50	87.19	-3.79	-8,182.26	4,362.48	3,067.00	2,942.72	124.28	24.679					
18,000.00	7,870.00	5,048.00	5,048.00	149.06	87.19	-3.79	-8,182.26	4,362.48	3,027.28	2,904.03	123.26	24.561					
18,100.00	7,870.00	5,048.00	5,048.00	150.63	87.19	-3.79	-8,182.26	4,362.48	2,990.38	2,868.12	122.26	24.460					
18,200.00	7,870.00	5,048.00	5,048.00	152.20	87.19	-3.79	-8,182.26	4,362.48	2,956.40	2,835.12	121.29	24.375					
18,300.00	7,870.00	5,048.00	5,048.00	153.77	87.19	-3.79	-8,182.26	4,362.48	2,925.45	2,805.09	120.36	24.306					
18,400.00	7,870.00	5,048.00	5,048.00	155.35	87.19	-3.79	-8,182.26	4,362.48	2,897.62	2,778.13	119.49	24.250					
18,500.00	7,870.00	5,048.00	5,048.00	156.93	87.19	-3.79	-8,182.26	4,362.48	2,873.01	2,754.31	118.70	24.204					
18,600.00	7,870.00	5,048.00	5,048.00	158.52	87.19	-3.79	-8,182.26	4,362.48	2,851.68	2,733.66	118.03	24.161					
18,700.00	7,870.00	5,048.00	5,048.00	160.11	87.19	-3.79	-8,182.26	4,362.48	2,833.73	2,716.22	117.51	24.114					
18,800.00	7,870.00	5,048.00	5,048.00	161.71	87.19	-3.79	-8,182.26	4,362.48	2,819.22	2,702.00	117.22	24.050					
18,900.00	7,870.00	5,048.00	5,048.00	163.31	87.19	-3.79	-8,182.26	4,362.48	2,808.19	2,690.96	117.23	23.955					
19,000.00	7,870.00	5,048.00	5,048.00	164.91	87.19	-3.79	-8,182.26	4,362.48	2,800.69	2,683.07	117.62	23.812					
19,100.00	7,870.00	5,048.00	5,048.00	166.52	87.19	-3.79	-8,182.26	4,362.48	2,796.75	2,678.28	118.48	23.606					
19,160.28	7,870.00	5,048.00	5,048.00	167.49	87.19	-3.79	-8,182.26	4,362.48	2,796.10	2,676.86	119.24	23.449 CC					
19,200.00	7,870.00	5,048.00	5,048.00	168.13	87.19	-3.79	-8,182.26	4,362.48	2,796.38	2,676.54	119.85	23.333 ES					
19,300.00	7,870.00	5,048.00	5,048.00	169.75	87.19	-3.79	-8,182.26	4,362.48	2,799.59	2,677.86	121.74	22.997					
19,383.51	7,870.00	5,048.00	5,048.00	171.10	87.19	-3.79	-8,182.26	4,362.48	2,805.00	2,681.34	123.66	22.683 SF					

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	142.40	-4,068.90	3,133.74	5,135.80					
100.00	100.00	110.30	110.30	0.13	0.19	142.40	-4,068.87	3,133.42	5,135.60	5,135.27	0.33	N/A		
200.00	200.00	234.23	234.22	0.49	0.41	142.41	-4,068.74	3,132.27	5,134.96	5,134.05	0.91	5,673.118		
300.00	300.00	358.14	358.11	0.85	0.63	142.43	-4,068.52	3,130.29	5,133.84	5,132.36	1.48	3,465.475		
400.00	400.00	482.01	481.96	1.21	0.85	142.45	-4,068.20	3,127.49	5,132.26	5,130.21	2.06	2,494.291		
500.00	500.00	605.84	605.73	1.57	1.07	142.48	-4,067.80	3,123.87	5,130.22	5,127.59	2.63	1,947.912		
600.00	600.00	661.47	661.35	1.93	1.37	142.48	-4,067.54	3,122.88	5,128.59	5,125.30	3.30	1,555.944		
700.00	699.98	732.00	731.88	2.28	1.62	78.71	-4,066.96	3,122.54	5,127.26	5,123.37	3.89	1,316.674		
800.00	799.84	792.66	792.53	2.64	1.82	78.76	-4,066.15	3,123.33	5,125.89	5,121.44	4.45	1,151.591		
900.00	899.45	871.21	871.03	3.00	2.09	78.83	-4,064.58	3,125.58	5,124.34	5,119.27	5.08	1,009.283		
1,000.00	998.70	1,067.71	1,067.10	3.37	2.77	79.01	-4,056.11	3,134.97	5,121.53	5,115.40	6.14	834.585		
1,100.00	1,097.47	1,134.92	1,134.09	3.76	3.01	79.15	-4,052.09	3,138.80	5,117.23	5,110.46	6.77	756.018		
1,200.00	1,195.62	1,195.93	1,194.84	4.18	3.23	79.30	-4,048.46	3,143.01	5,113.02	5,105.62	7.40	690.579		
1,300.00	1,293.06	1,366.36	1,364.11	4.63	3.87	79.61	-4,035.47	3,157.91	5,108.04	5,099.55	8.49	601.855		
1,400.00	1,389.64	1,481.17	1,477.57	5.11	4.33	79.87	-4,023.27	3,170.56	5,101.35	5,091.93	9.42	541.577		
1,500.00	1,485.27	1,551.00	1,546.30	5.63	4.62	80.10	-4,014.94	3,179.60	5,094.21	5,083.99	10.23	498.198		
1,600.00	1,579.82	1,598.04	1,592.51	6.20	4.82	80.31	-4,009.31	3,186.35	5,087.33	5,076.34	10.99	462.884		
1,700.00	1,673.17	1,642.20	1,635.81	6.83	5.01	80.52	-4,004.17	3,193.36	5,081.00	5,069.20	11.80	430.762		
1,800.00	1,765.21	1,800.00	1,779.58	7.51	5.72	80.95	-3,985.63	3,218.73	5,074.21	5,061.04	13.18	385.116		
1,900.00	1,855.84	1,900.00	2,063.81	8.24	6.19	81.87	-3,943.68	3,262.80	5,063.74	5,049.38	14.36	352.699		
2,000.00	1,944.94	2,131.89	2,114.68	9.05	7.25	82.26	-3,936.26	3,269.23	5,052.15	5,035.93	16.21	311.593		
2,100.00	2,032.39	2,163.00	2,145.27	9.91	7.39	82.59	-3,932.18	3,273.21	5,041.37	5,024.15	17.22	292.778		
2,200.00	2,118.11	2,228.39	2,209.59	10.85	7.69	83.05	-3,924.16	3,281.80	5,031.15	5,012.71	18.44	272.797		
2,300.00	2,201.97	2,295.74	2,275.84	11.85	7.99	83.54	-3,916.28	3,291.05	5,021.44	5,001.69	19.75	254.272		
2,400.00	2,283.88	2,370.88	2,349.67	12.93	8.34	84.08	-3,907.43	3,301.88	5,011.95	4,990.79	21.16	236.822		
2,429.47	2,307.63	2,392.39	2,370.80	13.26	8.44	84.24	-3,904.93	3,305.01	5,009.20	4,987.61	21.59	232.003		
2,500.00	2,364.26	2,446.01	2,423.48	14.06	8.68	84.51	-3,898.78	3,312.85	5,002.83	4,980.19	22.64	220.984		
2,600.00	2,444.56	2,548.43	2,524.16	15.22	9.15	85.02	-3,887.21	3,327.75	4,994.24	4,969.97	24.26	205.837		
2,700.00	2,524.85	2,643.28	2,617.17	16.39	9.60	85.49	-3,875.48	3,342.12	4,985.46	4,959.58	25.88	192.666		
2,800.00	2,605.14	2,723.91	2,696.15	17.57	9.98	85.88	-3,865.55	3,354.96	4,977.46	4,950.01	27.44	181.373		
2,900.00	2,685.43	2,814.25	2,784.58	18.76	10.41	86.32	-3,854.12	3,369.46	4,969.62	4,940.55	29.07	170.978		
3,000.00	2,765.73	2,883.06	2,852.16	19.96	10.74	86.66	-3,846.22	3,379.73	4,962.51	4,931.92	30.59	162.212		
3,100.00	2,846.02	2,971.47	2,939.07	21.16	11.15	87.11	-3,836.47	3,392.65	4,956.00	4,923.78	32.21	153.861		
3,200.00	2,926.31	3,133.42	3,097.99	22.37	11.91	87.92	-3,817.07	3,417.08	4,949.46	4,915.29	34.17	144.835		
3,300.00	3,006.60	3,184.95	3,148.54	23.59	12.15	88.18	-3,810.71	3,424.79	4,942.79	4,907.15	35.64	138.679		
3,400.00	3,086.90	3,235.95	3,198.61	24.81	12.40	88.44	-3,804.75	3,432.44	4,937.10	4,899.99	37.11	133.037		
3,500.00	3,167.19	3,297.00	3,258.51	26.03	12.68	88.74	-3,798.04	3,442.16	4,932.63	4,894.00	38.63	127.697		
3,600.00	3,247.48	3,324.86	3,285.83	27.25	12.82	88.88	-3,795.17	3,446.79	4,929.26	4,889.27	39.99	123.260		
3,700.00	3,327.77	3,385.00	3,344.82	28.48	13.10	89.18	-3,789.52	3,457.03	4,927.25	4,885.75	41.51	118.714		
3,800.00	3,408.07	3,420.27	3,379.42	29.71	13.27	89.36	-3,786.49	3,463.15	4,926.30	4,883.41	42.90	114.839		
3,840.87	3,440.89	3,444.41	3,403.11	30.21	13.38	89.48	-3,784.50	3,467.34	4,926.22	4,882.71	43.51	113.214		
3,900.00	3,488.36	3,483.66	3,441.64	30.94	13.56	89.67	-3,781.40	3,474.17	4,926.39	4,881.96	44.42	110.898		
4,000.00	3,568.65	3,837.76	3,790.20	32.17	15.18	91.52	-3,747.05	3,525.54	4,923.60	4,876.34	47.25	104.198		
4,100.00	3,648.95	3,891.47	3,843.21	33.41	15.42	91.81	-3,741.29	3,531.97	4,920.21	4,871.49	48.73	100.977		
4,200.00	3,729.24	3,972.89	3,923.60	34.64	15.78	92.25	-3,732.99	3,541.80	4,917.73	4,867.42	50.31	97.741		
4,300.00	3,809.53	4,068.29	4,017.72	35.88	16.21	92.77	-3,722.98	3,553.71	4,915.61	4,863.65	51.96	94.606		
4,400.00	3,889.82	4,118.57	4,067.29	37.12	16.44	93.04	-3,717.68	3,560.29	4,914.14	4,860.72	53.42	91.998		
4,466.55	3,943.26	4,146.69	4,094.99	37.94	16.56	93.18	-3,714.86	3,564.23	4,913.86	4,859.50	54.36	90.396		
4,500.00	3,970.12	4,170.00	4,117.94	38.36	16.67	93.31	-3,712.60	3,567.64	4,913.95	4,859.07	54.87	89.551		
4,600.00	4,050.41	4,286.12	4,231.95	39.60	17.22	93.90	-3,700.25	3,585.86	4,914.06	4,857.43	56.63	86.772		
4,700.00	4,130.70	4,345.00	4,289.90	40.84	17.49	94.20	-3,694.37	3,594.44	4,914.74	4,856.61	58.12	84.558		
4,800.00	4,210.99	4,400.31	4,344.52	42.08	17.73	94.50	-3,689.53	3,601.75	4,916.41	4,856.83	59.58	82.523		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,291.29	4,464.05	4,407.60	43.32	18.00	94.85	-3,684.66	3,609.43	4,919.04	4,857.99	61.05	80.574		
5,000.00	4,371.58	4,539.55	4,482.60	44.57	18.31	95.29	-3,679.90	3,616.64	4,922.49	4,859.94	62.55	78.696		
5,100.00	4,451.87	4,633.31	4,576.02	45.81	18.66	95.87	-3,674.94	3,622.90	4,926.41	4,862.32	64.09	76.869		
5,200.00	4,532.16	4,713.01	4,655.56	47.05	18.94	96.38	-3,671.38	3,626.39	4,930.92	4,865.37	65.55	75.226		
5,300.00	4,612.46	4,791.66	4,734.12	48.30	19.20	96.89	-3,668.36	3,628.50	4,936.08	4,869.10	66.98	73.693		
5,400.00	4,692.75	4,849.09	4,791.52	49.54	19.38	97.27	-3,666.67	3,629.12	4,942.16	4,873.83	68.32	72.334		
5,500.00	4,773.04	4,922.03	4,864.45	50.79	19.60	97.77	-3,665.23	3,628.62	4,949.23	4,879.54	69.69	71.017		
5,600.00	4,853.34	5,021.56	4,963.93	52.03	19.88	98.48	-3,663.76	3,625.95	4,956.94	4,885.83	71.11	69.707		
5,700.00	4,933.63	5,107.65	5,049.95	53.28	20.11	99.09	-3,662.38	3,622.84	4,965.07	4,892.59	72.48	68.507		
5,800.00	5,013.92	5,197.07	5,139.29	54.53	20.36	99.73	-3,660.98	3,619.12	4,973.87	4,900.04	73.84	67.362		
5,900.00	5,094.21	5,290.43	5,232.54	55.77	20.62	100.39	-3,659.33	3,614.95	4,983.21	4,908.01	75.20	66.266		
6,000.00	5,174.51	5,345.16	5,287.20	57.02	20.77	100.78	-3,658.34	3,612.55	4,993.33	4,916.88	76.45	65.316		
6,100.00	5,254.80	5,393.26	5,335.27	58.27	20.91	101.12	-3,657.67	3,610.93	5,004.66	4,926.99	77.67	64.437		
6,200.00	5,335.09	5,441.91	5,383.90	59.52	21.05	101.46	-3,657.18	3,609.77	5,017.20	4,938.33	78.87	63.611		
6,300.00	5,415.38	5,496.46	5,438.45	60.76	21.21	101.83	-3,656.86	3,609.01	5,030.91	4,950.83	80.08	62.820		
6,400.00	5,495.68	5,569.73	5,511.72	62.01	21.42	102.33	-3,656.56	3,608.25	5,045.53	4,964.18	81.35	62.021		
6,500.00	5,575.97	5,643.07	5,585.05	63.26	21.64	102.82	-3,656.34	3,607.58	5,060.92	4,978.31	82.61	61.265		
6,600.00	5,656.26	5,722.46	5,664.43	64.51	21.87	103.36	-3,656.16	3,606.86	5,077.04	4,993.17	83.87	60.533		
6,700.00	5,736.55	5,802.84	5,744.81	65.76	22.11	103.90	-3,656.00	3,606.00	5,093.81	5,008.68	85.13	59.836		
6,800.00	5,816.85	5,887.78	5,829.75	67.01	22.37	104.47	-3,655.81	3,604.94	5,111.21	5,024.82	86.39	59.164		
6,900.00	5,897.14	5,974.80	5,916.76	68.26	22.63	105.05	-3,655.53	3,603.64	5,129.15	5,041.51	87.65	58.521		
7,000.00	5,977.43	6,061.33	6,003.27	69.50	22.89	105.63	-3,655.16	3,602.14	5,147.63	5,058.74	88.89	57.911		
7,100.00	6,057.72	6,147.49	6,089.41	70.75	23.14	106.20	-3,654.70	3,600.43	5,166.66	5,076.54	90.12	57.333		
7,200.00	6,138.02	6,225.77	6,167.68	72.00	23.38	106.72	-3,654.23	3,598.73	5,186.26	5,094.96	91.30	56.802		
7,300.00	6,218.31	6,299.69	6,241.57	73.25	23.60	107.21	-3,653.86	3,597.03	5,206.57	5,114.11	92.46	56.310		
7,400.00	6,298.60	6,378.89	6,320.75	74.50	23.84	107.73	-3,653.54	3,595.14	5,227.59	5,133.96	93.63	55.833		
7,500.00	6,378.90	6,472.56	6,414.40	75.75	24.13	108.35	-3,652.99	3,593.09	5,249.10	5,154.26	94.84	55.348		
7,600.00	6,459.19	6,561.22	6,503.04	77.00	24.40	108.92	-3,652.22	3,591.39	5,271.02	5,175.00	96.02	54.894		
7,700.00	6,539.48	6,642.33	6,584.13	78.25	24.66	109.44	-3,651.44	3,590.10	5,293.48	5,196.31	97.17	54.478		
7,800.00	6,619.77	6,724.14	6,665.93	79.50	24.92	109.96	-3,650.62	3,589.07	5,316.51	5,218.21	98.31	54.080		
7,900.00	6,700.07	6,807.53	6,749.31	80.75	25.19	110.48	-3,649.72	3,588.52	5,340.08	5,240.63	99.45	53.695		
8,000.00	6,780.36	6,891.76	6,833.53	82.00	25.46	111.00	-3,648.75	3,588.56	5,364.15	5,263.56	100.59	53.327		
8,100.00	6,860.65	6,960.36	6,902.14	83.25	25.68	111.41	-3,648.02	3,588.78	5,388.84	5,287.18	101.66	53.009		
8,200.00	6,940.94	7,031.32	6,973.09	84.50	25.92	111.84	-3,647.39	3,589.06	5,414.21	5,311.48	102.72	52.706		
8,300.00	7,021.24	7,102.72	7,044.49	85.76	26.15	112.27	-3,646.88	3,589.38	5,440.24	5,336.46	103.78	52.421		
8,400.00	7,101.53	7,174.20	7,115.97	87.01	26.38	112.70	-3,646.50	3,589.68	5,466.92	5,362.10	104.82	52.154		
8,500.00	7,181.82	7,254.58	7,196.34	88.26	26.65	113.17	-3,646.18	3,589.99	5,494.23	5,388.33	105.89	51.886		
8,605.60	7,266.61	7,364.16	7,305.92	89.58	27.00	113.82	-3,645.42	3,589.92	5,523.36	5,416.25	107.11	51.567		
8,650.00	7,302.60	7,410.93	7,352.68	90.13	27.16	108.24	-3,644.94	3,589.69	5,534.01	5,426.38	107.62	51.420		
8,700.00	7,343.78	7,466.10	7,407.85	90.72	27.34	101.44	-3,644.24	3,589.24	5,542.00	5,433.78	108.22	51.212		
8,750.00	7,385.32	7,521.45	7,463.19	91.28	27.52	94.31	-3,643.39	3,588.58	5,545.69	5,436.88	108.81	50.967		
8,800.00	7,426.92	7,576.48	7,518.21	91.81	27.70	87.15	-3,642.39	3,587.71	5,545.07	5,435.68	109.39	50.689		
8,850.00	7,468.27	7,604.26	7,545.98	92.29	27.79	80.10	-3,641.88	3,587.30	5,540.25	5,430.39	109.86	50.430		
8,900.00	7,509.04	7,632.51	7,574.22	92.72	27.88	73.59	-3,641.44	3,587.00	5,531.35	5,421.04	110.31	50.143		
8,950.00	7,548.93	7,660.32	7,602.03	93.10	27.97	67.77	-3,641.08	3,586.85	5,518.43	5,407.69	110.74	49.830		
9,000.00	7,587.63	7,687.50	7,629.20	93.43	28.06	62.71	-3,640.79	3,586.82	5,501.58	5,390.43	111.15	49.495		
9,050.00	7,624.85	7,713.82	7,655.53	93.71	28.15	58.43	-3,640.57	3,586.91	5,480.90	5,369.37	111.54	49.140		
9,100.00	7,660.30	7,750.00	7,691.71	93.93	28.27	54.97	-3,640.37	3,587.22	5,456.55	5,344.61	111.94	48.745		
9,150.00	7,693.72	7,770.35	7,712.05	94.10	28.33	52.08	-3,640.29	3,587.49	5,428.64	5,316.38	112.25	48.361		
9,200.00	7,724.85	7,805.37	7,747.07	94.23	28.45	49.96	-3,640.14	3,588.14	5,397.33	5,284.72	112.61	47.931		
9,250.00	7,753.45	7,837.77	7,779.45	94.30	28.56	48.44	-3,640.01	3,588.94	5,362.83	5,249.91	112.93	47.490		
9,300.00	7,779.31	7,867.23	7,808.90	94.34	28.66	47.52	-3,639.89	3,589.83	5,325.40	5,212.19	113.21	47.041		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	7,893.47	7,835.12	94.33	28.75	47.24	-3,639.78	3,590.76	5,285.30	5,171.85	113.45	46.585		
9,400.00	7,822.03	7,916.22	7,857.86	94.28	28.82	47.68	-3,639.68	3,591.67	5,242.83	5,129.17	113.66	46.126		
9,450.00	7,838.57	7,935.26	7,876.88	94.20	28.89	49.07	-3,639.60	3,592.50	5,198.30	5,084.46	113.84	45.664		
9,500.00	7,851.72	7,950.40	7,892.00	94.10	28.94	51.84	-3,639.54	3,593.21	5,152.04	5,038.06	113.98	45.203		
9,550.00	7,861.37	7,924.00	7,865.63	93.96	28.85	55.75	-3,639.65	3,592.00	5,104.51	4,990.62	113.89	44.818		
9,600.00	7,867.46	7,924.00	7,865.63	93.81	28.85	64.75	-3,639.65	3,592.00	5,055.87	4,941.94	113.93	44.377		
9,650.00	7,869.94	7,924.00	7,865.63	93.64	28.85	84.75	-3,639.65	3,592.00	5,006.52	4,892.56	113.96	43.932		
9,659.14	7,870.00	7,924.00	7,865.63	93.60	28.85	90.63	-3,639.65	3,592.00	4,997.46	4,883.49	113.96	43.851		
9,700.00	7,870.00	7,924.00	7,865.63	93.46	28.85	90.63	-3,639.65	3,592.00	4,956.89	4,842.91	113.99	43.487		
9,800.00	7,870.00	7,924.00	7,865.63	93.11	28.85	90.63	-3,639.65	3,592.00	4,857.65	4,743.61	114.04	42.597		
9,900.00	7,870.00	7,924.00	7,865.63	92.77	28.85	90.63	-3,639.65	3,592.00	4,758.43	4,644.34	114.09	41.707		
10,000.00	7,870.00	7,948.12	7,889.73	92.46	28.93	92.93	-3,639.59	3,593.05	4,659.15	4,544.87	114.28	40.771		
10,100.00	7,870.00	7,948.06	7,889.67	92.16	28.93	92.93	-3,639.59	3,593.05	4,560.00	4,445.66	114.34	39.882		
10,200.00	7,870.00	7,948.00	7,889.61	91.87	28.93	92.92	-3,639.59	3,593.05	4,460.89	4,346.49	114.40	38.994		
10,300.00	7,870.00	7,947.95	7,889.55	91.60	28.93	92.91	-3,639.59	3,593.05	4,361.82	4,247.36	114.47	38.105		
10,400.00	7,870.00	7,947.89	7,889.49	91.34	28.93	92.91	-3,639.59	3,593.04	4,262.80	4,148.26	114.54	37.217		
10,500.00	7,870.00	7,947.83	7,889.43	91.11	28.93	92.90	-3,639.59	3,593.04	4,163.82	4,049.21	114.61	36.330		
10,600.00	7,870.00	7,947.76	7,889.37	90.88	28.93	92.90	-3,639.59	3,593.04	4,064.89	3,950.20	114.69	35.442		
10,700.00	7,870.00	7,947.70	7,889.31	90.67	28.93	92.89	-3,639.59	3,593.03	3,966.02	3,851.25	114.77	34.556		
10,800.00	7,870.00	7,947.64	7,889.24	90.48	28.93	92.89	-3,639.59	3,593.03	3,867.20	3,752.35	114.86	33.669		
10,900.00	7,870.00	7,947.57	7,889.18	90.31	28.93	92.88	-3,639.59	3,593.03	3,768.45	3,653.50	114.95	32.784		
11,000.00	7,870.00	7,947.50	7,889.11	90.15	28.93	92.87	-3,639.59	3,593.03	3,669.76	3,554.72	115.04	31.899		
11,100.00	7,870.00	7,947.44	7,889.05	90.00	28.93	92.87	-3,639.59	3,593.02	3,571.15	3,456.01	115.15	31.014		
11,200.00	7,870.00	7,947.37	7,888.98	89.88	28.93	92.86	-3,639.59	3,593.02	3,472.62	3,357.37	115.25	30.131		
11,300.00	7,870.00	7,947.30	7,888.91	89.77	28.93	92.85	-3,639.59	3,593.02	3,374.17	3,258.81	115.36	29.248		
11,400.00	7,870.00	7,947.22	7,888.83	89.68	28.93	92.85	-3,639.59	3,593.01	3,275.82	3,160.33	115.48	28.366		
11,500.00	7,870.00	7,947.15	7,888.76	89.60	28.93	92.84	-3,639.59	3,593.01	3,177.57	3,061.96	115.61	27.485		
11,600.00	7,870.00	7,947.08	7,888.69	89.55	28.93	92.83	-3,639.59	3,593.01	3,079.43	2,963.69	115.74	26.606		
11,700.00	7,870.00	7,947.00	7,888.61	89.52	28.93	92.82	-3,639.59	3,593.00	2,981.42	2,865.53	115.88	25.727		
11,800.00	7,870.00	7,946.92	7,888.53	89.50	28.93	92.82	-3,639.59	3,593.00	2,883.54	2,767.50	116.04	24.850		
11,900.00	7,870.00	7,946.84	7,888.45	89.51	28.93	92.81	-3,639.59	3,593.00	2,785.81	2,669.62	116.20	23.975		
12,000.00	7,870.00	7,946.76	7,888.37	89.54	28.93	92.80	-3,639.59	3,592.99	2,688.25	2,571.89	116.37	23.102		
12,100.00	7,870.00	7,946.68	7,888.29	89.59	28.93	92.79	-3,639.59	3,592.99	2,590.88	2,474.33	116.55	22.230		
12,200.00	7,870.00	7,946.59	7,888.20	89.66	28.93	92.79	-3,639.59	3,592.99	2,493.71	2,376.97	116.74	21.361		
12,300.00	7,870.00	7,946.51	7,888.12	89.77	28.93	92.78	-3,639.59	3,592.98	2,396.78	2,279.83	116.95	20.494		
12,400.00	7,870.00	7,946.42	7,888.03	89.89	28.93	92.77	-3,639.59	3,592.98	2,300.11	2,182.94	117.17	19.630		
12,500.00	7,870.00	7,946.33	7,887.94	90.05	28.93	92.76	-3,639.59	3,592.97	2,203.74	2,086.33	117.41	18.769		
12,600.00	7,870.00	7,946.23	7,887.84	90.24	28.93	92.75	-3,639.59	3,592.97	2,107.70	1,990.03	117.67	17.912		
12,700.00	7,870.00	7,946.14	7,887.75	90.46	28.93	92.74	-3,639.59	3,592.97	2,012.06	1,894.11	117.95	17.059		
12,800.00	7,870.00	7,946.04	7,887.65	90.71	28.92	92.73	-3,639.59	3,592.96	1,916.85	1,798.61	118.24	16.211		
12,900.00	7,870.00	7,954.53	7,896.13	90.99	28.95	93.54	-3,639.52	3,593.41	1,822.10	1,703.44	118.66	15.356		
13,000.00	7,870.00	7,954.02	7,895.62	91.32	28.95	93.49	-3,639.52	3,593.38	1,728.01	1,609.00	119.00	14.521		
13,100.00	7,870.00	7,953.52	7,895.12	91.68	28.95	93.45	-3,639.52	3,593.36	1,634.62	1,515.24	119.38	13.693		
13,200.00	7,870.00	7,953.01	7,894.61	92.08	28.95	93.40	-3,639.53	3,593.33	1,542.06	1,422.28	119.78	12.874		
13,300.00	7,870.00	7,952.51	7,894.11	92.52	28.95	93.35	-3,639.53	3,593.31	1,450.49	1,330.28	120.21	12.066		
13,400.00	7,870.00	7,952.01	7,893.61	93.00	28.95	93.30	-3,639.53	3,593.29	1,360.10	1,239.43	120.67	11.271		
13,500.00	7,870.00	7,951.50	7,893.10	93.53	28.94	93.25	-3,639.53	3,593.26	1,271.16	1,150.00	121.16	10.492		
13,600.00	7,870.00	7,951.00	7,892.60	94.10	28.94	93.21	-3,639.53	3,593.24	1,183.98	1,062.32	121.66	9.732		
13,700.00	7,870.00	7,950.49	7,892.10	94.72	28.94	93.16	-3,639.54	3,593.21	1,098.99	976.81	122.18	8.995		
13,800.00	7,870.00	7,949.99	7,891.59	95.38	28.94	93.11	-3,639.54	3,593.19	1,016.73	894.06	122.67	8.288		
13,900.00	7,870.00	7,949.49	7,891.09	96.09	28.94	93.06	-3,639.54	3,593.16	937.92	814.81	123.11	7.619		
14,000.00	7,870.00	7,948.98	7,890.59	96.84	28.93	93.01	-3,639.54	3,593.14	863.52	740.09	123.42	6.996		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
14,100.00	7,870.00	7,948.48	7,890.09	97.64	28.93	92.97	-3,639.55	3,593.12	794.75	671.24	123.50	6.435	
14,200.00	7,870.00	7,947.98	7,889.58	98.48	28.93	92.92	-3,639.55	3,593.09	733.20	610.00	123.20	5.951	
14,300.00	7,870.00	7,947.48	7,889.08	99.37	28.93	92.87	-3,639.55	3,593.07	680.84	558.53	122.31	5.567	
14,400.00	7,870.00	7,946.97	7,888.58	100.30	28.93	92.82	-3,639.55	3,593.04	639.93	519.30	120.62	5.305	
14,500.00	7,870.00	7,946.47	7,888.08	101.26	28.93	92.77	-3,639.55	3,593.02	612.75	494.74	118.02	5.192 SF	
14,600.00	7,870.00	7,945.97	7,887.58	102.27	28.92	92.73	-3,639.56	3,593.00	601.19	486.59	114.59	5.246 ES	
14,620.20	7,870.00	7,945.87	7,887.48	102.47	28.92	92.72	-3,639.56	3,592.99	600.85	487.01	113.83	5.278 CC	
14,700.00	7,870.00	7,945.47	7,887.08	103.31	28.92	92.68	-3,639.56	3,592.97	606.12	495.37	110.75	5.473	
14,800.00	7,870.00	7,944.97	7,886.58	104.38	28.92	92.63	-3,639.56	3,592.95	627.17	520.11	107.07	5.858	
14,900.00	7,870.00	7,944.47	7,886.08	105.49	28.92	92.58	-3,639.56	3,592.93	662.80	558.76	104.04	6.370	
15,000.00	7,870.00	7,943.97	7,885.58	106.63	28.92	92.54	-3,639.57	3,592.90	710.82	608.90	101.92	6.974	
15,100.00	7,870.00	7,943.47	7,885.08	107.80	28.92	92.49	-3,639.57	3,592.88	768.91	668.25	100.65	7.639	
15,200.00	7,870.00	7,942.97	7,884.58	109.00	28.91	92.44	-3,639.57	3,592.85	834.97	734.90	100.07	8.344	
15,300.00	7,870.00	7,942.59	7,884.20	110.22	28.91	92.40	-3,639.60	3,592.81	907.27	807.31	99.96	9.077	
15,400.00	7,870.00	7,942.39	7,884.00	111.47	28.91	92.38	-3,639.60	3,592.80	984.42	884.28	100.14	9.830	
15,500.00	7,870.00	7,942.18	7,883.80	112.74	28.91	92.37	-3,639.60	3,592.79	1,065.38	964.88	100.50	10.600	
15,600.00	7,870.00	7,941.97	7,883.59	114.03	28.91	92.35	-3,639.60	3,592.78	1,149.34	1,048.39	100.95	11.385	
15,700.00	7,870.00	7,941.75	7,883.37	115.34	28.91	92.32	-3,639.60	3,592.77	1,235.69	1,134.25	101.44	12.182	
15,800.00	7,870.00	7,941.53	7,883.14	116.68	28.91	92.30	-3,639.60	3,592.76	1,323.97	1,222.03	101.93	12.989	
15,900.00	7,870.00	7,941.29	7,882.91	118.02	28.91	92.28	-3,639.60	3,592.75	1,413.80	1,311.39	102.42	13.805	
16,000.00	7,870.00	7,941.05	7,882.66	119.39	28.91	92.26	-3,639.60	3,592.74	1,504.92	1,402.04	102.88	14.628	
16,100.00	7,870.00	7,940.80	7,882.41	120.77	28.91	92.23	-3,639.60	3,592.73	1,597.10	1,493.79	103.32	15.458	
16,200.00	7,870.00	7,940.53	7,882.15	122.17	28.91	92.21	-3,639.60	3,592.72	1,690.18	1,586.45	103.73	16.295	
16,300.00	7,870.00	7,940.26	7,881.88	123.58	28.91	92.18	-3,639.60	3,592.71	1,784.00	1,679.89	104.11	17.136	
16,400.00	7,870.00	7,939.98	7,881.59	125.00	28.90	92.15	-3,639.60	3,592.70	1,878.46	1,773.99	104.47	17.981	
16,500.00	7,870.00	7,939.68	7,881.30	126.43	28.90	92.13	-3,639.60	3,592.68	1,973.46	1,868.66	104.80	18.830	
16,600.00	7,870.00	7,939.38	7,880.99	127.88	28.90	92.10	-3,639.60	3,592.67	2,068.94	1,963.82	105.12	19.682	
16,700.00	7,870.00	7,939.06	7,880.67	129.34	28.90	92.07	-3,639.60	3,592.65	2,164.82	2,059.41	105.41	20.538	
16,800.00	7,870.00	7,938.72	7,880.34	130.81	28.90	92.04	-3,639.60	3,592.64	2,261.06	2,155.38	105.68	21.395	
16,900.00	7,870.00	7,938.38	7,879.99	132.28	28.90	92.00	-3,639.60	3,592.63	2,357.62	2,251.68	105.94	22.255	
17,000.00	7,870.00	7,938.01	7,879.63	133.77	28.90	91.97	-3,639.61	3,592.61	2,454.44	2,348.27	106.18	23.117	
17,100.00	7,870.00	7,937.63	7,879.25	135.27	28.90	91.93	-3,639.61	3,592.59	2,551.52	2,445.12	106.40	23.980	
17,200.00	7,870.00	7,937.23	7,878.85	136.77	28.90	91.89	-3,639.61	3,592.57	2,648.81	2,542.20	106.61	24.845	
17,300.00	7,870.00	7,936.81	7,878.43	138.28	28.89	91.85	-3,639.61	3,592.56	2,746.30	2,639.48	106.81	25.711	
17,400.00	7,870.00	7,936.37	7,877.99	139.80	28.89	91.81	-3,639.61	3,592.54	2,843.96	2,736.95	107.00	26.578	
17,500.00	7,870.00	7,935.91	7,877.53	141.33	28.89	91.77	-3,639.61	3,592.52	2,941.78	2,834.59	107.18	27.446	
17,600.00	7,870.00	7,935.43	7,877.05	142.86	28.89	91.72	-3,639.61	3,592.50	3,039.74	2,932.38	107.35	28.315	
17,700.00	7,870.00	7,934.92	7,876.54	144.40	28.89	91.67	-3,639.61	3,592.47	3,137.82	3,030.31	107.52	29.185	
17,800.00	7,870.00	7,934.38	7,876.00	145.95	28.89	91.62	-3,639.61	3,592.45	3,236.03	3,128.36	107.67	30.055	
17,900.00	7,870.00	7,933.81	7,875.43	147.50	28.88	91.57	-3,639.62	3,592.43	3,334.34	3,226.53	107.82	30.926	
18,000.00	7,870.00	7,933.20	7,874.83	149.06	28.88	91.51	-3,639.62	3,592.40	3,432.75	3,324.79	107.96	31.797	
18,100.00	7,870.00	7,932.56	7,874.19	150.63	28.88	91.45	-3,639.62	3,592.37	3,531.25	3,423.16	108.09	32.669	
18,200.00	7,870.00	7,931.89	7,873.51	152.20	28.88	91.38	-3,639.62	3,592.34	3,629.83	3,521.61	108.22	33.541	
18,300.00	7,870.00	7,931.16	7,872.79	153.77	28.87	91.31	-3,639.62	3,592.31	3,728.49	3,620.14	108.35	34.413	
18,400.00	7,870.00	7,930.39	7,872.02	155.35	28.87	91.24	-3,639.63	3,592.28	3,827.21	3,718.75	108.46	35.285	
18,500.00	7,870.00	7,929.57	7,871.20	156.93	28.87	91.16	-3,639.63	3,592.24	3,926.01	3,817.43	108.58	36.158	
18,600.00	7,870.00	7,928.69	7,870.32	158.52	28.87	91.08	-3,639.63	3,592.20	4,024.86	3,916.17	108.69	37.031	
18,700.00	7,870.00	7,927.75	7,869.37	160.11	28.86	90.99	-3,639.64	3,592.16	4,123.76	4,014.96	108.80	37.903	
18,800.00	7,870.00	7,926.73	7,868.36	161.71	28.86	90.89	-3,639.64	3,592.12	4,222.72	4,113.82	108.90	38.776	
18,900.00	7,870.00	7,925.63	7,867.26	163.31	28.86	90.79	-3,639.64	3,592.07	4,321.72	4,212.72	109.00	39.649	
19,000.00	7,870.00	7,924.44	7,866.07	164.91	28.85	90.67	-3,639.65	3,592.02	4,420.77	4,311.68	109.10	40.521	
19,100.00	7,870.00	7,923.68	7,865.32	166.52	28.85	90.60	-3,639.65	3,591.98	4,519.86	4,410.67	109.19	41.394	

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,870.00	7,923.19	7,864.83	168.13	28.85	90.56	-3,639.65	3,591.96	4,618.99	4,509.71	109.28	42.266	
19,300.00	7,870.00	7,922.71	7,864.34	169.75	28.85	90.51	-3,639.66	3,591.94	4,718.16	4,608.79	109.37	43.138	
19,383.51	7,870.00	7,922.30	7,863.93	171.10	28.85	90.47	-3,639.66	3,591.92	4,801.00	4,691.55	109.45	43.866	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	31.65	31.65	0.00	0.05	163.54	-7,121.70	2,104.35	7,426.10					
100.00	100.00	152.37	152.36	0.13	0.38	163.53	-7,121.13	2,105.06	7,425.81	7,425.29	0.52	N/A		
200.00	200.00	232.11	232.11	0.49	0.66	163.54	-7,121.07	2,104.43	7,425.52	7,424.37	1.15	6,430.955		
233.99	233.99	257.00	256.99	0.61	0.75	163.54	-7,121.14	2,104.16	7,425.50	7,424.14	1.36	5,445.850		
300.00	300.00	292.44	292.43	0.85	0.87	163.54	-7,121.35	2,103.68	7,425.64	7,423.91	1.73	4,303.494		
400.00	400.00	349.00	348.97	1.21	1.07	163.55	-7,122.08	2,102.71	7,426.37	7,424.08	2.28	3,251.663		
500.00	500.00	411.37	411.32	1.57	1.30	163.56	-7,123.34	2,101.29	7,427.64	7,424.78	2.86	2,592.792		
600.00	600.00	481.00	480.88	1.93	1.55	163.59	-7,125.24	2,099.08	7,429.36	7,425.89	3.47	2,138.759		
700.00	699.98	567.02	566.70	2.28	1.86	99.77	-7,128.52	2,094.29	7,431.74	7,427.59	4.14	1,793.978		
800.00	799.84	943.73	939.33	2.64	3.39	100.30	-7,142.19	2,043.30	7,430.88	7,424.86	6.02	1,234.566		
821.72	821.50	952.04	947.45	2.71	3.43	100.32	-7,142.54	2,041.61	7,430.84	7,424.71	6.14	1,211.133		
900.00	899.45	986.00	980.65	3.00	3.58	100.39	-7,144.17	2,034.66	7,431.30	7,424.73	6.57	1,130.566		
1,000.00	998.70	1,061.75	1,054.40	3.37	3.94	100.56	-7,148.27	2,017.87	7,432.79	7,425.47	7.31	1,016.431		
1,100.00	1,097.47	1,096.00	1,087.60	3.76	4.11	100.61	-7,150.49	2,009.72	7,435.66	7,427.79	7.87	944.256		
1,200.00	1,195.62	1,096.00	1,087.60	4.18	4.11	100.52	-7,150.49	2,009.72	7,440.35	7,432.06	8.29	897.562		
1,300.00	1,293.06	1,149.50	1,139.35	4.63	4.39	100.58	-7,154.68	1,996.84	7,446.31	7,437.30	9.01	826.531		
1,400.00	1,389.64	1,183.00	1,171.73	5.11	4.56	100.55	-7,157.81	1,988.86	7,454.19	7,444.53	9.66	771.738		
1,500.00	1,485.27	1,207.72	1,195.59	5.63	4.70	100.47	-7,160.34	1,982.88	7,463.68	7,453.38	10.31	724.030		
1,600.00	1,579.82	1,247.49	1,233.82	6.20	4.92	100.42	-7,164.70	1,972.81	7,474.72	7,463.63	11.08	674.387		
1,700.00	1,673.17	1,271.00	1,256.32	6.83	5.04	100.28	-7,167.45	1,966.60	7,487.31	7,475.49	11.82	633.614		
1,800.00	1,765.21	1,316.09	1,299.40	7.51	5.30	100.22	-7,173.02	1,954.51	7,501.43	7,488.70	12.73	589.204		
1,900.00	1,855.84	1,358.00	1,339.41	8.24	5.55	100.12	-7,178.54	1,943.31	7,517.19	7,503.51	13.68	549.437		
2,000.00	1,944.94	1,446.13	1,423.53	9.05	6.07	100.25	-7,190.22	1,919.78	7,534.30	7,519.34	14.96	503.476		
2,100.00	2,032.39	1,492.58	1,467.85	9.91	6.35	100.14	-7,196.34	1,907.29	7,552.54	7,536.47	16.06	470.146		
2,200.00	2,118.11	1,532.00	1,505.42	10.85	6.58	99.97	-7,201.65	1,896.62	7,572.24	7,555.06	17.18	440.745		
2,300.00	2,201.97	1,567.35	1,539.07	11.85	6.80	99.75	-7,206.56	1,886.93	7,593.49	7,575.15	18.34	414.104		
2,400.00	2,283.88	1,596.82	1,567.06	12.93	6.98	99.47	-7,210.80	1,878.76	7,616.32	7,596.80	19.52	390.244		
2,429.47	2,307.63	1,620.00	1,589.04	13.26	7.13	99.47	-7,214.23	1,872.26	7,623.38	7,603.41	19.96	381.841		
2,500.00	2,364.26	1,620.00	1,589.04	14.06	7.13	99.47	-7,214.23	1,872.26	7,640.59	7,619.89	20.70	369.059		
2,600.00	2,444.56	1,658.61	1,625.64	15.22	7.37	99.71	-7,220.08	1,861.43	7,665.88	7,643.88	22.00	348.436		
2,700.00	2,524.85	1,691.50	1,656.81	16.39	7.58	99.92	-7,225.17	1,852.25	7,692.14	7,668.88	23.27	330.597		
2,800.00	2,605.14	1,740.54	1,703.30	17.57	7.89	100.22	-7,232.87	1,838.69	7,719.34	7,694.70	24.64	313.322		
2,900.00	2,685.43	2,255.35	2,195.42	18.76	11.07	103.34	-7,297.10	1,702.36	7,744.81	7,715.95	28.86	268.367		
3,000.00	2,765.73	2,280.77	2,219.86	19.96	11.22	103.49	-7,299.60	1,695.83	7,770.16	7,740.08	30.08	258.338		
3,100.00	2,846.02	2,318.00	2,255.58	21.16	11.44	103.71	-7,303.48	1,686.08	7,796.53	7,765.17	31.36	248.595		
3,200.00	2,926.31	2,344.39	2,280.88	22.37	11.60	103.87	-7,306.34	1,679.13	7,823.83	7,791.25	32.58	240.147		
3,300.00	3,006.60	2,551.17	2,479.69	23.59	12.84	105.09	-7,326.95	1,626.17	7,851.59	7,816.73	34.86	225.222		
3,400.00	3,086.90	3,400.00	2,576.20	24.81	17.81	105.67	-7,335.47	1,601.33	7,878.98	7,838.20	40.78	193.199		
3,500.00	3,167.19	2,695.74	2,619.11	26.03	13.69	105.93	-7,339.20	1,589.98	7,907.02	7,869.22	37.80	209.202		
3,600.00	3,247.48	2,718.58	2,641.10	27.25	13.83	106.06	-7,341.23	1,584.12	7,936.03	7,897.06	38.97	203.668		
3,700.00	3,327.77	2,755.00	2,676.15	28.48	14.05	106.27	-7,344.69	1,574.85	7,966.04	7,925.83	40.21	198.128		
3,800.00	3,408.07	2,820.67	2,739.43	29.71	14.43	106.65	-7,351.02	1,558.48	7,996.87	7,955.27	41.61	192.204		
3,900.00	3,488.36	2,936.81	2,851.81	30.94	15.10	107.30	-7,361.47	1,531.09	8,027.96	7,984.68	43.28	185.509		
4,000.00	3,568.65	4,000.00	2,989.50	32.17	21.06	108.10	-7,372.96	1,498.30	8,059.03	8,008.92	50.10	160.848		
4,100.00	3,648.95	3,140.03	3,048.77	33.41	16.24	108.44	-7,377.61	1,483.75	8,090.48	8,044.08	46.41	174.329		
4,200.00	3,729.24	3,172.20	3,079.84	34.64	16.43	108.62	-7,380.15	1,475.82	8,122.77	8,075.19	47.58	170.727		
4,300.00	3,809.53	3,191.00	3,097.98	35.88	16.53	108.73	-7,381.69	1,471.11	8,155.92	8,107.26	48.66	167.615		
4,400.00	3,889.82	3,236.12	3,141.45	37.12	16.80	108.98	-7,385.55	1,459.64	8,189.88	8,140.00	49.89	164.169		
4,500.00	3,970.12	3,278.00	3,181.73	38.36	17.05	109.22	-7,389.32	1,448.84	8,224.72	8,173.63	51.08	161.001		
4,600.00	4,050.41	3,278.00	3,181.73	39.60	17.05	109.22	-7,389.32	1,448.84	8,260.41	8,208.38	52.02	158.780		
4,700.00	4,130.70	3,310.91	3,213.37	40.84	17.25	109.40	-7,392.51	1,440.35	8,296.95	8,243.80	53.15	156.113		
4,800.00	4,210.99	3,330.54	3,232.24	42.08	17.37	109.51	-7,394.54	1,435.34	8,334.42	8,280.24	54.18	153.830		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,291.29	3,366.00	3,266.33	43.32	17.58	109.71	-7,398.46	1,426.39	8,372.82	8,317.53	55.30	151.421		
5,000.00	4,371.58	3,475.61	3,371.59	44.57	18.25	110.32	-7,410.32	1,398.24	8,411.86	8,355.01	56.85	147.975		
5,100.00	4,451.87	5,100.00	3,437.73	45.81	28.23	110.71	-7,417.27	1,380.03	8,450.94	8,383.82	67.12	125.899		
5,200.00	4,532.16	4,889.49	4,762.49	47.05	24.06	116.84	-7,475.22	1,225.31	8,489.84	8,425.24	64.59	131.432		
5,300.00	4,612.46	5,021.45	4,894.39	48.30	24.37	117.34	-7,471.50	1,224.76	8,518.75	8,452.87	65.88	129.305		
5,400.00	4,692.75	5,143.76	5,016.64	49.54	24.66	117.80	-7,467.41	1,224.20	8,547.57	8,480.43	67.14	127.312		
5,500.00	4,773.04	5,190.51	5,063.36	50.79	24.77	117.97	-7,465.93	1,224.09	8,576.75	8,508.55	68.20	125.763		
5,600.00	4,853.34	5,252.94	5,125.77	52.03	24.92	118.20	-7,464.04	1,224.03	8,606.38	8,537.09	69.29	124.209		
5,700.00	4,933.63	5,286.00	5,158.81	53.28	25.00	118.32	-7,463.09	1,224.04	8,636.55	8,566.26	70.30	122.858		
5,800.00	5,013.92	5,286.00	5,158.81	54.53	25.00	118.32	-7,463.09	1,224.04	8,667.69	8,596.49	71.20	121.731		
5,900.00	5,094.21	5,354.01	5,226.80	55.77	25.19	118.57	-7,461.67	1,223.75	8,699.09	8,626.78	72.30	120.316		
6,000.00	5,174.51	5,381.09	5,253.88	57.02	25.26	118.68	-7,461.37	1,223.42	8,731.54	8,658.27	73.27	119.170		
6,100.00	5,254.80	5,407.92	5,280.70	58.27	25.33	118.78	-7,461.21	1,222.99	8,764.77	8,690.54	74.23	118.081		
6,200.00	5,335.09	5,461.00	5,333.77	59.52	25.48	118.97	-7,461.34	1,221.79	8,798.89	8,723.64	75.25	116.922		
6,300.00	5,415.38	5,461.00	5,333.77	60.76	25.48	118.97	-7,461.34	1,221.79	8,833.54	8,757.43	76.11	116.066		
6,400.00	5,495.68	5,521.25	5,394.00	62.01	25.65	119.20	-7,461.91	1,220.35	8,868.91	8,791.76	77.15	114.960		
6,500.00	5,575.97	5,582.32	5,455.05	63.26	25.83	119.42	-7,462.66	1,219.26	8,904.72	8,826.54	78.18	113.894		
6,600.00	5,656.26	5,707.56	5,580.28	64.51	26.18	119.88	-7,464.43	1,218.02	8,940.94	8,861.51	79.43	112.570		
6,700.00	5,736.55	5,912.61	5,785.32	65.76	26.75	120.60	-7,464.83	1,217.12	8,976.11	8,895.19	80.92	110.926		
6,800.00	5,816.85	6,096.09	5,968.79	67.01	27.25	121.25	-7,463.08	1,215.44	9,010.98	8,928.65	82.33	109.451		
6,900.00	5,897.14	6,211.05	6,083.73	68.26	27.56	121.65	-7,461.04	1,215.54	9,045.17	8,961.66	83.52	108.303		
7,000.00	5,977.43	6,278.45	6,151.11	69.50	27.74	121.88	-7,459.80	1,215.30	9,079.69	8,995.14	84.55	107.388		
7,100.00	6,057.72	6,350.05	6,222.70	70.75	27.94	122.13	-7,458.52	1,214.64	9,114.58	9,028.99	85.59	106.490		
7,200.00	6,138.02	6,444.76	6,317.39	72.00	28.20	122.46	-7,456.76	1,213.75	9,149.69	9,062.98	86.70	105.528		
7,300.00	6,218.31	6,539.84	6,412.45	73.25	28.47	122.78	-7,454.88	1,213.09	9,184.92	9,097.10	87.81	104.595		
7,400.00	6,298.60	6,589.71	6,462.31	74.50	28.60	122.95	-7,454.06	1,212.96	9,220.53	9,131.76	88.77	103.873		
7,500.00	6,378.90	6,650.90	6,523.50	75.75	28.77	123.15	-7,453.18	1,213.00	9,256.53	9,166.78	89.75	103.134		
7,600.00	6,459.19	6,725.38	6,597.97	77.00	28.97	123.40	-7,452.30	1,213.32	9,292.92	9,202.14	90.77	102.373		
7,700.00	6,539.48	6,814.32	6,686.90	78.25	29.20	123.69	-7,451.23	1,213.76	9,329.49	9,237.65	91.84	101.588		
7,800.00	6,619.77	6,909.01	6,781.59	79.50	29.46	124.00	-7,449.98	1,214.25	9,366.21	9,273.30	92.91	100.806		
7,900.00	6,700.07	7,009.12	6,881.68	80.75	29.73	124.32	-7,448.44	1,214.60	9,403.00	9,308.99	94.01	100.026		
8,000.00	6,780.36	7,080.63	6,953.18	82.00	29.93	124.55	-7,447.24	1,214.75	9,439.94	9,344.94	95.00	99.367		
8,100.00	6,860.65	7,143.59	7,016.13	83.25	30.11	124.76	-7,446.30	1,214.86	9,477.25	9,381.28	95.96	98.760		
8,200.00	6,940.94	7,207.00	7,079.54	84.50	30.28	124.96	-7,445.47	1,214.94	9,514.93	9,418.01	96.92	98.173		
8,300.00	7,021.24	7,330.77	7,203.29	85.76	30.63	125.35	-7,443.77	1,215.46	9,552.71	9,454.64	98.08	97.401		
8,400.00	7,101.53	7,417.55	7,290.06	87.01	30.87	125.62	-7,442.37	1,216.20	9,590.43	9,491.33	99.10	96.771		
8,500.00	7,181.82	7,477.39	7,349.89	88.26	31.03	125.81	-7,441.49	1,216.65	9,628.49	9,528.46	100.04	96.251		
8,605.60	7,266.61	7,540.36	7,412.85	89.58	31.21	126.00	-7,440.68	1,217.01	9,669.10	9,568.09	101.01	95.723		
8,650.00	7,302.60	7,570.98	7,443.47	90.13	31.29	119.87	-7,440.33	1,217.15	9,684.75	9,583.31	101.44	95.470		
8,700.00	7,343.78	7,612.41	7,484.90	90.72	31.41	112.57	-7,439.86	1,217.33	9,698.64	9,596.67	101.97	95.112		
8,750.00	7,385.32	7,654.16	7,526.65	91.28	31.53	105.03	-7,439.38	1,217.50	9,708.48	9,605.96	102.51	94.705		
8,800.00	7,426.92	7,695.91	7,568.40	91.81	31.65	97.54	-7,438.90	1,217.67	9,714.20	9,611.14	103.06	94.255		
8,850.00	7,468.27	7,737.35	7,609.83	92.29	31.76	90.40	-7,438.42	1,217.84	9,715.78	9,612.16	103.61	93.770		
8,900.00	7,509.04	7,775.87	7,648.35	92.72	31.87	83.85	-7,438.00	1,218.05	9,713.21	9,609.06	104.15	93.263		
8,950.00	7,548.93	7,813.95	7,686.43	93.10	31.98	78.07	-7,437.61	1,218.34	9,706.52	9,601.84	104.67	92.731		
9,000.00	7,587.63	7,850.98	7,723.45	93.43	32.08	73.12	-7,437.26	1,218.69	9,695.76	9,590.58	105.18	92.180		
9,050.00	7,624.85	7,886.68	7,759.15	93.71	32.18	69.03	-7,436.96	1,219.11	9,681.03	9,575.36	105.67	91.615		
9,100.00	7,660.30	7,917.71	7,790.17	93.93	32.27	65.74	-7,436.72	1,219.53	9,662.42	9,556.30	106.12	91.050		
9,150.00	7,693.72	7,943.65	7,816.11	94.10	32.34	63.20	-7,436.54	1,219.89	9,640.11	9,533.58	106.53	90.488		
9,200.00	7,724.85	7,967.85	7,840.31	94.23	32.41	61.39	-7,436.40	1,220.25	9,614.25	9,507.34	106.92	89.922		
9,250.00	7,753.45	7,990.12	7,862.57	94.30	32.47	60.28	-7,436.29	1,220.59	9,585.04	9,477.77	107.27	89.355		
9,300.00	7,779.31	8,010.29	7,882.74	94.34	32.52	59.87	-7,436.21	1,220.91	9,552.68	9,445.08	107.59	88.787		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,802.23	8,028.20	7,900.65	94.33	32.57	60.19	-7,436.15	1,221.20	9,517.40	9,409.52	107.88	88.223		
9,400.00	7,822.03	8,043.70	7,916.15	94.28	32.62	61.34	-7,436.11	1,221.45	9,479.47	9,371.33	108.14	87.663		
9,450.00	7,838.57	8,056.67	7,929.12	94.20	32.65	63.46	-7,436.08	1,221.67	9,439.15	9,330.79	108.36	87.109		
9,500.00	7,851.72	8,067.00	7,939.44	94.10	32.68	66.80	-7,436.06	1,221.85	9,396.74	9,288.18	108.55	86.562		
9,550.00	7,861.37	8,074.58	7,947.03	93.96	32.70	71.74	-7,436.05	1,221.98	9,352.54	9,243.82	108.72	86.025		
9,600.00	7,867.46	8,080.00	7,952.44	93.81	32.71	78.88	-7,436.04	1,222.07	9,306.88	9,198.02	108.86	85.495		
9,650.00	7,869.94	8,082.03	7,954.47	93.64	32.72	88.97	-7,436.04	1,222.11	9,260.10	9,151.13	108.97	84.978		
9,659.14	7,870.00	8,082.09	7,954.54	93.60	32.72	91.19	-7,436.04	1,222.11	9,251.45	9,142.46	108.99	84.885		
9,700.00	7,870.00	8,082.04	7,954.48	93.46	32.72	91.19	-7,436.04	1,222.11	9,212.74	9,103.68	109.07	84.470		
9,800.00	7,870.00	8,081.90	7,954.34	93.11	32.72	91.19	-7,436.04	1,222.10	9,118.10	9,008.84	109.26	83.455		
9,900.00	7,870.00	8,081.75	7,954.20	92.77	32.72	91.19	-7,436.04	1,222.10	9,023.57	8,914.11	109.46	82.441		
10,000.00	7,870.00	8,081.62	7,954.06	92.46	32.72	91.18	-7,436.04	1,222.10	8,929.16	8,819.50	109.66	81.426		
10,100.00	7,870.00	8,081.48	7,953.92	92.16	32.72	91.18	-7,436.04	1,222.10	8,834.87	8,725.00	109.87	80.411		
10,200.00	7,870.00	8,081.34	7,953.78	91.87	32.72	91.18	-7,436.04	1,222.09	8,740.71	8,630.62	110.09	79.397		
10,300.00	7,870.00	8,081.20	7,953.64	91.60	32.72	91.17	-7,436.04	1,222.09	8,646.68	8,536.37	110.31	78.383		
10,400.00	7,870.00	8,081.07	7,953.51	91.34	32.72	91.17	-7,436.04	1,222.09	8,552.78	8,442.24	110.55	77.369		
10,500.00	7,870.00	8,080.93	7,953.37	91.11	32.72	91.17	-7,436.04	1,222.09	8,459.03	8,348.25	110.78	76.355		
10,600.00	7,870.00	8,080.80	7,953.24	90.88	32.72	91.17	-7,436.04	1,222.08	8,365.42	8,254.39	111.03	75.342		
10,700.00	7,870.00	8,080.66	7,953.10	90.67	32.72	91.16	-7,436.04	1,222.08	8,271.96	8,160.67	111.29	74.330		
10,800.00	7,870.00	8,080.53	7,952.97	90.48	32.72	91.16	-7,436.04	1,222.08	8,178.65	8,067.10	111.55	73.318		
10,900.00	7,870.00	8,080.40	7,952.84	90.31	32.72	91.16	-7,436.04	1,222.08	8,085.51	7,973.69	111.82	72.306		
11,000.00	7,870.00	8,080.27	7,952.71	90.15	32.72	91.16	-7,436.04	1,222.08	7,992.53	7,880.43	112.10	71.296		
11,100.00	7,870.00	8,080.14	7,952.58	90.00	32.72	91.15	-7,436.04	1,222.07	7,899.72	7,787.33	112.39	70.286		
11,200.00	7,870.00	8,080.01	7,952.45	89.88	32.71	91.15	-7,436.04	1,222.07	7,807.09	7,694.40	112.69	69.277		
11,300.00	7,870.00	8,080.00	7,952.44	89.77	32.71	91.15	-7,436.04	1,222.07	7,714.64	7,601.64	113.00	68.269		
11,400.00	7,870.00	8,080.00	7,952.44	89.68	32.71	91.15	-7,436.04	1,222.07	7,622.39	7,509.06	113.32	67.262		
11,500.00	7,870.00	8,079.73	7,952.17	89.60	32.71	91.15	-7,436.04	1,222.07	7,530.33	7,416.68	113.65	66.257		
11,600.00	7,870.00	8,079.64	7,952.08	89.55	32.71	91.14	-7,436.04	1,222.06	7,438.48	7,324.48	113.99	65.253		
11,700.00	7,870.00	8,079.55	7,951.99	89.52	32.71	91.14	-7,436.04	1,222.06	7,346.84	7,232.49	114.35	64.251		
11,800.00	7,870.00	8,079.45	7,951.90	89.50	32.71	91.14	-7,436.04	1,222.06	7,255.42	7,140.71	114.71	63.250		
11,900.00	7,870.00	8,079.36	7,951.80	89.51	32.71	91.14	-7,436.04	1,222.06	7,164.23	7,049.14	115.09	62.250		
12,000.00	7,870.00	8,079.27	7,951.71	89.54	32.71	91.14	-7,436.04	1,222.06	7,073.27	6,957.80	115.48	61.253		
12,100.00	7,870.00	8,079.17	7,951.61	89.59	32.71	91.14	-7,436.04	1,222.06	6,982.57	6,866.69	115.88	60.258		
12,200.00	7,870.00	8,079.07	7,951.52	89.66	32.71	91.13	-7,436.04	1,222.05	6,892.12	6,775.83	116.29	59.264		
12,300.00	7,870.00	8,078.98	7,951.42	89.77	32.71	91.13	-7,436.04	1,222.05	6,801.94	6,685.22	116.72	58.274		
12,400.00	7,870.00	8,078.88	7,951.32	89.89	32.71	91.13	-7,436.04	1,222.05	6,712.04	6,594.87	117.17	57.285		
12,500.00	7,870.00	8,078.78	7,951.22	90.05	32.71	91.13	-7,436.04	1,222.05	6,622.43	6,504.80	117.63	56.300		
12,600.00	7,870.00	8,078.68	7,951.13	90.24	32.71	91.13	-7,436.04	1,222.05	6,533.12	6,415.01	118.10	55.317		
12,700.00	7,870.00	8,078.59	7,951.03	90.46	32.71	91.12	-7,436.04	1,222.05	6,444.12	6,325.53	118.59	54.338		
12,800.00	7,870.00	8,078.49	7,950.93	90.71	32.71	91.12	-7,436.04	1,222.04	6,355.45	6,236.35	119.10	53.361		
12,900.00	7,870.00	8,078.38	7,950.83	90.99	32.71	91.12	-7,436.04	1,222.04	6,267.12	6,147.49	119.63	52.388		
13,000.00	7,870.00	8,078.28	7,950.73	91.32	32.71	91.12	-7,436.04	1,222.04	6,179.15	6,058.98	120.17	51.419		
13,100.00	7,870.00	8,078.18	7,950.62	91.68	32.71	91.12	-7,436.04	1,222.04	6,091.55	5,970.81	120.73	50.454		
13,200.00	7,870.00	8,078.08	7,950.52	92.08	32.71	91.11	-7,436.04	1,222.04	6,004.33	5,883.02	121.32	49.494		
13,300.00	7,870.00	8,077.98	7,950.42	92.52	32.71	91.11	-7,436.04	1,222.04	5,917.52	5,795.61	121.92	48.537		
13,400.00	7,870.00	8,077.87	7,950.31	93.00	32.71	91.11	-7,436.04	1,222.03	5,831.14	5,708.60	122.54	47.586		
13,500.00	7,870.00	8,077.77	7,950.21	93.53	32.71	91.11	-7,436.04	1,222.03	5,745.19	5,622.01	123.18	46.640		
13,600.00	7,870.00	8,077.66	7,950.10	94.10	32.71	91.11	-7,436.04	1,222.03	5,659.71	5,535.86	123.85	45.699		
13,700.00	7,870.00	8,077.56	7,950.00	94.72	32.71	91.10	-7,436.04	1,222.03	5,574.71	5,450.17	124.54	44.763		
13,800.00	7,870.00	8,077.45	7,949.89	95.38	32.71	91.10	-7,436.04	1,222.03	5,490.21	5,364.96	125.25	43.834		
13,900.00	7,870.00	8,077.34	7,949.78	96.09	32.71	91.10	-7,436.05	1,222.02	5,406.24	5,280.26	125.99	42.912		
14,000.00	7,870.00	8,077.23	7,949.68	96.84	32.71	91.10	-7,436.05	1,222.02	5,322.83	5,196.09	126.75	41.996		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	8,077.12	7,949.57	97.64	32.71	91.10	-7,436.05	1,222.02	5,240.00	5,112.47	127.53	41.087		
14,200.00	7,870.00	8,077.01	7,949.46	98.48	32.71	91.09	-7,436.05	1,222.02	5,157.78	5,029.43	128.35	40.186		
14,300.00	7,870.00	8,076.90	7,949.35	99.37	32.71	91.09	-7,436.05	1,222.02	5,076.19	4,947.00	129.19	39.293		
14,400.00	7,870.00	8,076.79	7,949.23	100.30	32.71	91.09	-7,436.05	1,222.01	4,995.28	4,865.22	130.06	38.408		
14,500.00	7,870.00	8,076.68	7,949.12	101.26	32.71	91.09	-7,436.05	1,222.01	4,915.07	4,784.11	130.96	37.532		
14,600.00	7,870.00	8,076.57	7,949.01	102.27	32.71	91.08	-7,436.05	1,222.01	4,835.59	4,703.71	131.88	36.666		
14,700.00	7,870.00	8,076.45	7,948.90	103.31	32.71	91.08	-7,436.05	1,222.01	4,756.89	4,624.05	132.84	35.809		
14,800.00	7,870.00	8,076.34	7,948.78	104.38	32.70	91.08	-7,436.05	1,222.01	4,679.00	4,545.18	133.83	34.963		
14,900.00	7,870.00	8,076.22	7,948.67	105.49	32.70	91.08	-7,436.05	1,222.00	4,601.97	4,467.13	134.85	34.128		
15,000.00	7,870.00	8,076.11	7,948.55	106.63	32.70	91.08	-7,436.05	1,222.00	4,525.84	4,389.94	135.90	33.304		
15,100.00	7,870.00	8,075.99	7,948.43	107.80	32.70	91.07	-7,436.05	1,222.00	4,450.65	4,313.67	136.98	32.492		
15,200.00	7,870.00	8,075.87	7,948.32	109.00	32.70	91.07	-7,436.05	1,222.00	4,376.45	4,238.37	138.09	31.693		
15,300.00	7,870.00	8,075.75	7,948.20	110.22	32.70	91.07	-7,436.05	1,222.00	4,303.30	4,164.07	139.23	30.907		
15,400.00	7,870.00	8,075.63	7,948.08	111.47	32.70	91.07	-7,436.05	1,221.99	4,231.25	4,090.84	140.41	30.135		
15,500.00	7,870.00	8,075.51	7,947.96	112.74	32.70	91.06	-7,436.05	1,221.99	4,160.35	4,018.74	141.61	29.378		
15,600.00	7,870.00	8,075.39	7,947.83	114.03	32.70	91.06	-7,436.05	1,221.99	4,090.67	3,947.82	142.85	28.636		
15,700.00	7,870.00	8,075.27	7,947.71	115.34	32.70	91.06	-7,436.05	1,221.99	4,022.27	3,878.15	144.12	27.909		
15,800.00	7,870.00	8,075.15	7,947.59	116.68	32.70	91.06	-7,436.05	1,221.99	3,955.22	3,809.80	145.41	27.200		
15,900.00	7,870.00	8,075.02	7,947.47	118.02	32.70	91.05	-7,436.05	1,221.98	3,889.58	3,742.84	146.74	26.507		
16,000.00	7,870.00	8,074.90	7,947.34	119.39	32.70	91.05	-7,436.05	1,221.98	3,825.43	3,677.34	148.09	25.833		
16,100.00	7,870.00	8,074.77	7,947.21	120.77	32.70	91.05	-7,436.05	1,221.98	3,762.84	3,613.38	149.46	25.177		
16,200.00	7,870.00	8,074.65	7,947.09	122.17	32.70	91.05	-7,436.05	1,221.98	3,701.89	3,551.04	150.85	24.540		
16,300.00	7,870.00	8,074.52	7,946.96	123.58	32.70	91.04	-7,436.05	1,221.98	3,642.67	3,490.41	152.26	23.924		
16,400.00	7,870.00	8,074.39	7,946.83	125.00	32.70	91.04	-7,436.05	1,221.97	3,585.27	3,431.58	153.68	23.329		
16,500.00	7,870.00	8,074.26	7,946.70	126.43	32.70	91.04	-7,436.05	1,221.97	3,529.76	3,374.64	155.12	22.755		
16,600.00	7,870.00	8,074.13	7,946.57	127.88	32.70	91.04	-7,436.05	1,221.97	3,476.24	3,319.69	156.56	22.204		
16,700.00	7,870.00	8,074.00	7,946.44	129.34	32.70	91.03	-7,436.05	1,221.97	3,424.81	3,266.81	158.00	21.676		
16,800.00	7,870.00	8,073.86	7,946.31	130.81	32.70	91.03	-7,436.05	1,221.96	3,375.56	3,216.12	159.44	21.172		
16,900.00	7,870.00	8,073.73	7,946.17	132.28	32.70	91.03	-7,436.05	1,221.96	3,328.58	3,167.72	160.86	20.692		
17,000.00	7,870.00	8,073.60	7,946.04	133.77	32.70	91.03	-7,436.05	1,221.96	3,283.98	3,121.71	162.27	20.238		
17,100.00	7,870.00	8,073.46	7,945.90	135.27	32.70	91.02	-7,436.05	1,221.96	3,241.85	3,078.20	163.65	19.810		
17,200.00	7,870.00	8,073.32	7,945.76	136.77	32.70	91.02	-7,436.05	1,221.95	3,202.29	3,037.29	165.00	19.408		
17,300.00	7,870.00	8,073.18	7,945.63	138.28	32.70	91.02	-7,436.05	1,221.95	3,165.40	2,999.09	166.31	19.033		
17,400.00	7,870.00	8,073.05	7,945.49	139.80	32.70	91.02	-7,436.05	1,221.95	3,131.26	2,963.70	167.57	18.687		
17,500.00	7,870.00	8,072.91	7,945.35	141.33	32.70	91.01	-7,436.05	1,221.95	3,099.98	2,931.21	168.77	18.368		
17,600.00	7,870.00	8,072.76	7,945.21	142.86	32.70	91.01	-7,436.05	1,221.94	3,071.63	2,901.73	169.90	18.079		
17,700.00	7,870.00	8,072.62	7,945.06	144.40	32.69	91.01	-7,436.05	1,221.94	3,046.31	2,875.35	170.96	17.819		
17,800.00	7,870.00	8,072.48	7,944.92	145.95	32.69	91.01	-7,436.05	1,221.94	3,024.08	2,852.15	171.94	17.588		
17,900.00	7,870.00	8,072.33	7,944.78	147.50	32.69	91.00	-7,436.05	1,221.94	3,005.02	2,832.20	172.82	17.388		
18,000.00	7,870.00	8,072.19	7,944.63	149.06	32.69	91.00	-7,436.05	1,221.93	2,989.18	2,815.58	173.60	17.219		
18,100.00	7,870.00	8,072.04	7,944.48	150.63	32.69	91.00	-7,436.05	1,221.93	2,976.62	2,802.34	174.28	17.079		
18,200.00	7,870.00	8,071.89	7,944.33	152.20	32.69	90.99	-7,436.05	1,221.93	2,967.38	2,792.53	174.85	16.971		
18,300.00	7,870.00	8,071.74	7,944.18	153.77	32.69	90.99	-7,436.05	1,221.93	2,961.48	2,786.19	175.30	16.894		
18,400.00	7,870.00	8,071.59	7,944.03	155.35	32.69	90.99	-7,436.05	1,221.92	2,958.96	2,783.33	175.63	16.848		
18,424.67	7,870.00	8,071.55	7,944.00	155.74	32.69	90.99	-7,436.05	1,221.92	2,958.86	2,783.17	175.69	16.841 CC, ES		
18,500.00	7,870.00	8,071.44	7,943.88	156.93	32.69	90.99	-7,436.05	1,221.92	2,959.82	2,783.98	175.84	16.833 SF		
18,600.00	7,870.00	8,071.29	7,943.73	158.52	32.69	90.98	-7,436.05	1,221.92	2,964.05	2,788.13	175.92	16.849		
18,700.00	7,870.00	8,071.13	7,943.57	160.11	32.69	90.98	-7,436.05	1,221.92	2,971.64	2,795.76	175.88	16.895		
18,800.00	7,870.00	8,070.98	7,943.42	161.71	32.69	90.98	-7,436.05	1,221.91	2,982.57	2,806.84	175.73	16.973		
18,900.00	7,870.00	8,070.82	7,943.26	163.31	32.69	90.97	-7,436.05	1,221.91	2,996.80	2,821.35	175.45	17.081		
19,000.00	7,870.00	8,070.66	7,943.10	164.91	32.69	90.97	-7,436.05	1,221.91	3,014.27	2,839.21	175.06	17.218		
19,100.00	7,870.00	8,070.50	7,942.94	166.52	32.69	90.97	-7,436.05	1,221.91	3,034.95	2,860.39	174.56	17.386		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,870.00	8,070.34	7,942.78	168.13	32.69	90.96	-7,436.05	1,221.90	3,058.75	2,884.79	173.96	17.583	
19,300.00	7,870.00	8,070.18	7,942.62	169.75	32.69	90.96	-7,436.05	1,221.90	3,085.62	2,912.35	173.26	17.809	
19,383.51	7,870.00	8,070.04	7,942.48	171.10	32.69	90.96	-7,436.05	1,221.90	3,110.34	2,937.72	172.62	18.019	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	68.97	68.97	0.00	0.11	163.57	-7,136.26	2,103.71	7,440.02					
100.00	100.00	124.83	124.82	0.13	0.29	163.58	-7,136.31	2,102.78	7,439.67	7,439.24	0.43	N/A		
103.77	103.77	126.78	126.77	0.15	0.30	163.58	-7,136.32	2,102.75	7,439.67	7,439.22	0.45	N/A		
200.00	200.00	187.32	187.30	0.49	0.52	163.59	-7,136.82	2,101.78	7,439.95	7,438.94	1.01	7,366.110		
300.00	300.00	292.87	292.78	0.85	0.90	163.62	-7,138.38	2,098.13	7,440.40	7,438.65	1.75	4,246.025		
400.00	400.00	372.36	372.09	1.21	1.20	163.66	-7,140.18	2,093.19	7,440.85	7,438.44	2.41	3,092.089		
500.00	500.00	440.00	439.46	1.57	1.45	163.71	-7,142.58	2,087.77	7,441.92	7,438.90	3.02	2,462.883		
600.00	600.00	440.00	439.46	1.93	1.45	163.71	-7,142.58	2,087.77	7,443.72	7,440.34	3.38	2,202.005		
700.00	699.98	482.53	481.75	2.28	1.62	99.86	-7,144.79	2,083.87	7,446.69	7,442.79	3.90	1,908.441		
800.00	799.84	533.00	531.84	2.64	1.82	99.84	-7,148.45	2,078.81	7,451.48	7,447.03	4.45	1,672.933		
900.00	899.45	533.00	531.84	3.00	1.82	99.72	-7,148.45	2,078.81	7,457.55	7,452.74	4.81	1,548.834		
1,000.00	998.70	574.01	572.44	3.37	1.99	99.65	-7,152.09	2,074.40	7,465.27	7,459.91	5.36	1,394.031		
1,100.00	1,097.47	625.00	622.85	3.76	2.21	99.58	-7,157.18	2,068.60	7,474.43	7,468.47	5.95	1,255.457		
1,200.00	1,195.62	625.00	622.85	4.18	2.21	99.37	-7,157.18	2,068.60	7,485.06	7,478.69	6.36	1,176.177		
1,300.00	1,293.06	683.94	680.94	4.63	2.47	99.29	-7,163.93	2,061.26	7,496.96	7,489.90	7.06	1,062.485		
1,400.00	1,389.64	717.00	713.42	5.11	2.61	99.13	-7,168.15	2,056.78	7,510.41	7,502.74	7.67	979.207		
1,500.00	1,485.27	717.00	713.42	5.63	2.61	98.83	-7,168.15	2,056.78	7,525.52	7,517.34	8.18	920.239		
1,600.00	1,579.82	768.48	763.80	6.20	2.86	98.69	-7,175.51	2,049.19	7,541.85	7,532.88	8.97	841.132		
1,700.00	1,673.17	809.00	803.25	6.83	3.05	98.49	-7,182.07	2,042.65	7,559.93	7,550.18	9.75	775.290		
1,800.00	1,765.21	809.00	803.25	7.51	3.05	98.10	-7,182.07	2,042.65	7,579.42	7,569.02	10.40	729.038		
1,900.00	1,855.84	809.00	803.25	8.24	3.05	97.67	-7,182.07	2,042.65	7,600.65	7,589.56	11.09	685.126		
2,000.00	1,944.94	850.13	843.11	9.05	3.27	97.41	-7,189.44	2,035.70	7,623.11	7,611.06	12.05	632.647		
2,100.00	2,032.39	898.00	889.29	9.91	3.51	97.16	-7,198.98	2,027.49	7,647.51	7,634.42	13.10	583.933		
2,200.00	2,118.11	898.00	889.29	10.85	3.51	96.64	-7,198.98	2,027.49	7,672.91	7,658.95	13.96	549.559		
2,300.00	2,201.97	898.00	889.29	11.85	3.51	96.08	-7,198.98	2,027.49	7,699.92	7,685.03	14.89	517.289		
2,400.00	2,283.88	898.00	889.29	12.93	3.51	95.49	-7,198.98	2,027.49	7,728.48	7,712.61	15.87	487.101		
2,429.47	2,307.63	898.00	889.29	13.26	3.51	95.31	-7,198.98	2,027.49	7,737.18	7,721.02	16.17	478.617		
2,500.00	2,364.26	939.16	928.84	14.06	3.74	95.55	-7,207.86	2,020.35	7,758.12	7,741.01	17.11	453.444		
2,600.00	2,444.56	958.79	947.67	15.22	3.85	95.67	-7,212.26	2,016.95	7,788.88	7,770.63	18.25	426.785		
2,700.00	2,524.85	1,011.00	997.61	16.39	4.14	95.97	-7,224.48	2,007.87	7,820.87	7,801.30	19.57	399.735		
2,800.00	2,605.14	1,011.00	997.61	17.57	4.14	95.97	-7,224.48	2,007.87	7,853.44	7,832.84	20.61	381.107		
2,900.00	2,685.43	1,011.00	997.61	18.76	4.14	95.97	-7,224.48	2,007.87	7,887.16	7,865.51	21.65	364.362		
3,000.00	2,765.73	1,011.00	997.61	19.96	4.14	95.97	-7,224.48	2,007.87	7,921.99	7,899.31	22.68	349.267		
3,100.00	2,846.02	1,053.06	1,037.72	21.16	4.39	96.22	-7,234.87	2,000.63	7,957.55	7,933.61	23.94	332.397		
3,200.00	2,926.31	1,071.22	1,055.00	22.37	4.50	96.33	-7,239.51	1,997.54	7,994.19	7,969.13	25.06	318.973		
3,300.00	3,006.60	1,100.00	1,082.35	23.59	4.67	96.50	-7,247.05	1,992.71	8,031.79	8,005.55	26.24	306.083		
3,400.00	3,086.90	1,100.00	1,082.35	24.81	4.67	96.50	-7,247.05	1,992.71	8,070.29	8,043.04	27.25	296.172		
3,500.00	3,167.19	1,129.13	1,109.99	26.03	4.84	96.67	-7,254.89	1,987.91	8,109.68	8,081.27	28.41	285.461		
3,600.00	3,247.48	1,149.85	1,129.64	27.25	4.97	96.79	-7,260.58	1,984.57	8,149.97	8,120.45	29.51	276.131		
3,700.00	3,327.77	1,187.00	1,164.81	28.48	5.19	97.00	-7,271.02	1,978.75	8,191.18	8,160.47	30.71	266.768		
3,800.00	3,408.07	1,187.00	1,164.81	29.71	5.19	97.00	-7,271.02	1,978.75	8,233.15	8,201.47	31.67	259.926		
3,900.00	3,488.36	1,187.00	1,164.81	30.94	5.19	97.00	-7,271.02	1,978.75	8,276.12	8,243.48	32.63	253.609		
4,000.00	3,568.65	1,227.81	1,203.34	32.17	5.45	97.23	-7,282.87	1,972.34	8,319.74	8,285.92	33.82	246.023		
4,100.00	3,648.95	1,245.90	1,220.36	33.41	5.56	97.34	-7,288.26	1,969.43	8,364.30	8,329.44	34.86	239.947		
4,200.00	3,729.24	1,275.00	1,247.66	34.64	5.75	97.51	-7,297.11	1,964.64	8,409.71	8,373.75	35.95	233.895		
4,300.00	3,809.53	1,275.00	1,247.66	35.88	5.75	97.51	-7,297.11	1,964.64	8,455.89	8,419.02	36.87	229.350		
4,400.00	3,889.82	1,314.42	1,284.55	37.12	6.01	97.73	-7,309.34	1,958.09	8,502.82	8,464.81	38.01	223.714		
4,500.00	3,970.12	1,343.20	1,311.46	38.36	6.20	97.90	-7,318.39	1,953.31	8,550.47	8,511.40	39.07	218.836		
4,600.00	4,050.41	1,375.87	1,341.96	39.60	6.41	98.09	-7,328.75	1,947.90	8,598.83	8,558.68	40.15	214.159		
4,700.00	4,130.70	1,415.78	1,379.17	40.84	6.68	98.32	-7,341.50	1,941.14	8,647.82	8,606.56	41.27	209.563		
4,800.00	4,210.99	1,449.00	1,410.10	42.08	6.91	98.51	-7,352.17	1,935.37	8,697.43	8,655.10	42.33	205.472		
4,900.00	4,291.29	1,449.00	1,410.10	43.32	6.91	98.51	-7,352.17	1,935.37	8,747.81	8,704.64	43.17	202.615		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	1,486.93	1,445.33	44.57	7.18	98.72	-7,364.55	1,928.67	8,798.77	8,754.53	44.25	198.848		
5,100.00	4,451.87	1,504.22	1,461.33	45.81	7.30	98.82	-7,370.30	1,925.58	8,850.54	8,805.36	45.18	195.890		
5,200.00	4,532.16	1,537.00	1,491.60	47.05	7.53	99.01	-7,381.40	1,919.68	8,903.06	8,856.86	46.20	192.701		
5,300.00	4,612.46	1,537.00	1,491.60	48.30	7.53	99.01	-7,381.40	1,919.68	8,956.20	8,909.20	47.00	190.555		
5,400.00	4,692.75	1,537.00	1,491.60	49.54	7.53	99.01	-7,381.40	1,919.68	9,010.14	8,962.35	47.79	188.546		
5,500.00	4,773.04	1,537.00	1,491.60	50.79	7.53	99.01	-7,381.40	1,919.68	9,064.85	9,016.29	48.56	186.665		
5,600.00	4,853.34	1,577.45	1,528.78	52.03	7.83	99.24	-7,395.52	1,912.30	9,119.96	9,070.37	49.59	183.897		
5,700.00	4,933.63	1,590.32	1,540.57	53.28	7.92	99.32	-7,400.12	1,909.93	9,175.92	9,125.49	50.43	181.952		
5,800.00	5,013.92	1,624.00	1,571.29	54.53	8.17	99.51	-7,412.42	1,903.69	9,232.66	9,181.26	51.40	179.637		
5,900.00	5,094.21	1,624.00	1,571.29	55.77	8.17	99.51	-7,412.42	1,903.69	9,289.86	9,237.73	52.13	178.220		
6,000.00	5,174.51	1,624.00	1,571.29	57.02	8.17	99.51	-7,412.42	1,903.69	9,347.78	9,294.94	52.84	176.894		
6,100.00	5,254.80	1,624.00	1,571.29	58.27	8.17	99.51	-7,412.42	1,903.69	9,406.41	9,352.86	53.55	175.656		
6,200.00	5,335.09	1,666.02	1,609.46	59.52	8.49	99.75	-7,428.15	1,895.88	9,465.46	9,410.92	54.53	173.568		
6,300.00	5,415.38	1,683.83	1,625.60	60.76	8.63	99.85	-7,434.93	1,892.59	9,525.18	9,469.84	55.34	172.111		
6,400.00	5,495.68	1,711.00	1,650.17	62.01	8.84	100.00	-7,445.39	1,887.58	9,585.49	9,529.28	56.21	170.540		
6,500.00	5,575.97	1,727.90	1,665.43	63.26	8.97	100.10	-7,451.94	1,884.45	9,646.32	9,589.33	56.99	169.262		
6,600.00	5,656.26	1,764.12	1,698.11	64.51	9.25	100.30	-7,466.01	1,877.64	9,707.64	9,649.74	57.90	167.660		
6,700.00	5,736.55	1,803.42	1,733.52	65.76	9.56	100.52	-7,481.30	1,870.08	9,769.40	9,710.57	58.82	166.078		
6,800.00	5,816.85	2,223.05	2,114.85	67.01	12.85	102.83	-7,636.57	1,789.33	9,829.60	9,767.18	62.42	157.482		
6,900.00	5,897.14	2,235.00	2,125.78	68.26	12.94	102.89	-7,640.81	1,786.99	9,890.21	9,827.07	63.14	156.633		
7,000.00	5,977.43	2,235.00	2,125.78	69.50	12.94	102.89	-7,640.81	1,786.99	9,951.44	9,887.67	63.77	156.041		
10,200.00	7,870.00	8,493.03	8,122.15	91.87	43.67	94.30	-8,716.35	1,130.99	9,983.73	9,871.74	111.99	89.148		
10,300.00	7,870.00	8,491.76	8,120.89	91.60	43.67	94.28	-8,716.37	1,130.97	9,888.57	9,776.36	112.21	88.126		
10,400.00	7,870.00	8,490.48	8,119.61	91.34	43.67	94.26	-8,716.40	1,130.94	9,793.51	9,681.07	112.43	87.104		
10,500.00	7,870.00	8,489.20	8,118.33	91.11	43.67	94.23	-8,716.42	1,130.92	9,698.54	9,585.88	112.67	86.082		
10,600.00	7,870.00	8,487.91	8,117.04	90.88	43.67	94.21	-8,716.44	1,130.90	9,603.68	9,490.77	112.91	85.059		
10,700.00	7,870.00	8,486.61	8,115.73	90.67	43.66	94.18	-8,716.47	1,130.87	9,508.92	9,395.77	113.15	84.036		
10,800.00	7,870.00	8,485.30	8,114.43	90.48	43.66	94.16	-8,716.49	1,130.85	9,414.27	9,300.87	113.41	83.014		
10,900.00	7,870.00	8,483.98	8,113.11	90.31	43.66	94.13	-8,716.52	1,130.82	9,319.73	9,206.07	113.67	81.991		
11,000.00	7,870.00	8,482.65	8,111.78	90.15	43.66	94.11	-8,716.54	1,130.80	9,225.31	9,111.37	113.94	80.969		
11,100.00	7,870.00	8,481.31	8,110.45	90.00	43.65	94.08	-8,716.57	1,130.77	9,131.00	9,016.79	114.21	79.946		
11,200.00	7,870.00	8,479.97	8,109.10	89.88	43.65	94.06	-8,716.59	1,130.75	9,036.82	8,922.32	114.50	78.924		
11,300.00	7,870.00	8,478.62	8,107.75	89.77	43.65	94.03	-8,716.62	1,130.72	8,942.76	8,827.97	114.79	77.903		
11,400.00	7,870.00	8,477.25	8,106.39	89.68	43.64	94.01	-8,716.64	1,130.70	8,848.84	8,733.74	115.10	76.881		
11,500.00	7,870.00	8,475.88	8,105.02	89.60	43.64	93.98	-8,716.67	1,130.67	8,755.04	8,639.63	115.41	75.860		
11,600.00	7,870.00	8,474.50	8,103.63	89.55	43.64	93.96	-8,716.69	1,130.65	8,661.39	8,545.66	115.73	74.839		
11,700.00	7,870.00	8,473.11	8,102.24	89.52	43.64	93.93	-8,716.72	1,130.62	8,567.88	8,451.81	116.07	73.819		
11,800.00	7,870.00	8,471.71	8,100.84	89.50	43.63	93.90	-8,716.75	1,130.59	8,474.52	8,358.11	116.41	72.800		
11,900.00	7,870.00	8,470.30	8,099.44	89.51	43.63	93.88	-8,716.77	1,130.57	8,381.31	8,264.54	116.76	71.781		
12,000.00	7,870.00	8,468.88	8,098.02	89.54	43.63	93.85	-8,716.80	1,130.54	8,288.25	8,171.13	117.13	70.764		
12,100.00	7,870.00	8,467.45	8,096.59	89.59	43.63	93.82	-8,716.83	1,130.52	8,195.36	8,077.86	117.50	69.747		
12,200.00	7,870.00	8,466.01	8,095.15	89.66	43.62	93.80	-8,716.86	1,130.49	8,102.64	7,984.76	117.89	68.731		
12,300.00	7,870.00	8,464.56	8,093.70	89.77	43.62	93.77	-8,716.88	1,130.46	8,010.10	7,891.81	118.29	67.716		
12,400.00	7,870.00	8,463.11	8,092.24	89.89	43.62	93.74	-8,716.91	1,130.43	7,917.73	7,799.03	118.70	66.703		
12,500.00	7,870.00	8,461.64	8,090.77	90.05	43.61	93.72	-8,716.94	1,130.41	7,825.56	7,706.43	119.13	65.691		
12,600.00	7,870.00	8,460.16	8,089.30	90.24	43.61	93.69	-8,716.97	1,130.38	7,733.57	7,614.01	119.57	64.680		
12,700.00	7,870.00	8,458.67	8,087.81	90.46	43.61	93.66	-8,717.00	1,130.35	7,641.79	7,521.77	120.02	63.671		
12,800.00	7,870.00	8,457.17	8,086.31	90.71	43.61	93.63	-8,717.03	1,130.32	7,550.22	7,429.73	120.49	62.664		
12,900.00	7,870.00	8,455.65	8,084.80	90.99	43.60	93.60	-8,717.06	1,130.30	7,458.86	7,337.89	120.97	61.659		
13,000.00	7,870.00	8,454.13	8,083.27	91.32	43.60	93.57	-8,717.09	1,130.27	7,367.73	7,246.26	121.47	60.655		
13,100.00	7,870.00	8,452.60	8,081.74	91.68	43.60	93.55	-8,717.12	1,130.24	7,276.83	7,154.84	121.98	59.654		
13,200.00	7,870.00	8,451.06	8,080.20	92.08	43.59	93.52	-8,717.15	1,130.21	7,186.17	7,063.65	122.51	58.655		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,300.00	7,870.00	8,449.50	8,078.65	92.52	43.59	93.49	-8,717.18	1,130.18	7,095.76	6,972.69	123.06	57.659		
13,400.00	7,870.00	8,447.94	8,077.08	93.00	43.59	93.46	-8,717.21	1,130.15	7,005.61	6,881.98	123.63	56.665		
13,500.00	7,870.00	8,446.36	8,075.50	93.53	43.59	93.43	-8,717.24	1,130.12	6,915.73	6,791.51	124.22	55.675		
13,600.00	7,870.00	8,444.77	8,073.92	94.10	43.58	93.40	-8,717.28	1,130.09	6,826.13	6,701.31	124.82	54.687		
13,700.00	7,870.00	8,443.17	8,072.32	94.72	43.58	93.37	-8,717.31	1,130.06	6,736.83	6,611.38	125.45	53.702		
13,800.00	7,870.00	8,441.56	8,070.70	95.38	43.58	93.34	-8,717.34	1,130.03	6,647.83	6,521.73	126.09	52.721		
13,900.00	7,870.00	8,439.93	8,069.08	96.09	43.57	93.31	-8,717.38	1,130.00	6,559.14	6,432.38	126.76	51.744		
14,000.00	7,870.00	8,438.30	8,067.45	96.84	43.57	93.28	-8,717.41	1,129.97	6,470.79	6,343.33	127.45	50.770		
14,100.00	7,870.00	8,433.00	8,062.15	97.64	43.56	93.18	-8,717.52	1,129.88	6,382.78	6,254.62	128.15	49.807		
14,200.00	7,870.00	8,433.00	8,062.15	98.48	43.56	93.18	-8,717.52	1,129.88	6,295.12	6,166.22	128.89	48.839		
14,300.00	7,870.00	8,433.00	8,062.15	99.37	43.56	93.18	-8,717.52	1,129.88	6,207.84	6,078.17	129.66	47.876		
14,400.00	7,870.00	8,433.00	8,062.15	100.30	43.56	93.18	-8,717.52	1,129.88	6,120.94	5,990.48	130.46	46.918		
14,500.00	7,870.00	8,433.00	8,062.15	101.26	43.56	93.18	-8,717.52	1,129.88	6,034.46	5,903.17	131.28	45.965		
14,600.00	7,870.00	8,433.00	8,062.15	102.27	43.56	93.18	-8,717.52	1,129.88	5,948.39	5,816.26	132.13	45.018		
14,700.00	7,870.00	8,433.00	8,062.15	103.31	43.56	93.18	-8,717.52	1,129.88	5,862.77	5,729.76	133.01	44.077		
14,800.00	7,870.00	8,433.00	8,062.15	104.38	43.56	93.18	-8,717.52	1,129.88	5,777.61	5,643.69	133.92	43.142		
14,900.00	7,870.00	8,433.00	8,062.15	105.49	43.56	93.18	-8,717.52	1,129.88	5,692.94	5,558.07	134.86	42.213		
15,000.00	7,870.00	8,433.00	8,062.15	106.63	43.56	93.18	-8,717.52	1,129.88	5,608.76	5,472.93	135.83	41.291		
15,100.00	7,870.00	8,433.00	8,062.15	107.80	43.56	93.18	-8,717.52	1,129.88	5,525.12	5,388.28	136.84	40.377		
15,200.00	7,870.00	8,433.00	8,062.15	109.00	43.56	93.18	-8,717.52	1,129.88	5,442.03	5,304.15	137.88	39.470		
15,300.00	7,870.00	8,418.33	8,047.49	110.22	43.53	92.90	-8,717.84	1,129.61	5,359.48	5,220.59	138.89	38.588		
15,400.00	7,870.00	8,416.67	8,045.82	111.47	43.53	92.87	-8,717.88	1,129.58	5,277.57	5,137.57	139.99	37.699		
15,500.00	7,870.00	8,414.96	8,044.12	112.74	43.53	92.84	-8,717.92	1,129.56	5,196.28	5,055.15	141.13	36.819		
15,600.00	7,870.00	8,413.22	8,042.37	114.03	43.52	92.81	-8,717.96	1,129.53	5,115.66	4,973.35	142.31	35.947		
15,700.00	7,870.00	8,411.43	8,040.59	115.34	43.52	92.77	-8,718.00	1,129.50	5,035.73	4,892.20	143.53	35.085		
15,800.00	7,870.00	8,409.61	8,038.77	116.68	43.52	92.74	-8,718.05	1,129.47	4,956.53	4,811.74	144.79	34.234		
15,900.00	7,870.00	8,407.75	8,036.91	118.02	43.51	92.70	-8,718.09	1,129.43	4,878.09	4,732.01	146.08	33.392		
16,000.00	7,870.00	8,405.84	8,035.00	119.39	43.51	92.67	-8,718.14	1,129.40	4,800.46	4,653.03	147.42	32.562		
16,100.00	7,870.00	8,403.89	8,033.05	120.77	43.51	92.63	-8,718.19	1,129.37	4,723.66	4,574.85	148.81	31.743		
16,200.00	7,870.00	8,401.89	8,031.05	122.17	43.50	92.59	-8,718.24	1,129.34	4,647.74	4,497.51	150.23	30.937		
16,300.00	7,870.00	8,399.85	8,029.01	123.58	43.50	92.56	-8,718.29	1,129.31	4,572.76	4,421.05	151.71	30.142		
16,400.00	7,870.00	8,397.75	8,026.92	125.00	43.50	92.52	-8,718.35	1,129.27	4,498.74	4,345.52	153.22	29.361		
16,500.00	7,870.00	8,395.61	8,024.77	126.43	43.49	92.48	-8,718.41	1,129.24	4,425.74	4,270.96	154.78	28.593		
16,600.00	7,870.00	8,393.41	8,022.57	127.88	43.49	92.44	-8,718.46	1,129.21	4,353.82	4,197.43	156.39	27.840		
16,700.00	7,870.00	8,391.15	8,020.32	129.34	43.48	92.39	-8,718.52	1,129.17	4,283.02	4,124.98	158.04	27.101		
16,800.00	7,870.00	8,388.84	8,018.01	130.81	43.48	92.35	-8,718.59	1,129.14	4,213.40	4,053.67	159.73	26.378		
16,900.00	7,870.00	8,386.47	8,015.64	132.28	43.47	92.30	-8,718.65	1,129.10	4,145.02	3,983.55	161.47	25.670		
17,000.00	7,870.00	8,384.03	8,013.21	133.77	43.47	92.26	-8,718.72	1,129.07	4,077.95	3,914.70	163.25	24.979		
17,100.00	7,870.00	8,381.54	8,010.71	135.27	43.47	92.21	-8,718.79	1,129.03	4,012.25	3,847.18	165.08	24.305		
17,200.00	7,870.00	8,378.97	8,008.15	136.77	43.46	92.16	-8,718.87	1,129.00	3,947.99	3,781.05	166.94	23.649		
17,300.00	7,870.00	8,376.34	8,005.51	138.28	43.46	92.11	-8,718.94	1,128.96	3,885.23	3,716.40	168.84	23.012		
17,400.00	7,870.00	8,373.63	8,002.81	139.80	43.45	92.06	-8,719.02	1,128.92	3,824.06	3,653.29	170.77	22.393		
17,500.00	7,870.00	8,370.85	8,000.03	141.33	43.45	92.01	-8,719.11	1,128.89	3,764.55	3,591.82	172.74	21.793		
17,600.00	7,870.00	8,367.99	7,997.17	142.86	43.44	91.96	-8,719.19	1,128.85	3,706.78	3,532.05	174.73	21.214		
17,700.00	7,870.00	8,365.05	7,994.23	144.40	43.44	91.90	-8,719.28	1,128.81	3,650.84	3,474.09	176.74	20.656		
17,800.00	7,870.00	8,362.02	7,991.20	145.95	43.43	91.85	-8,719.38	1,128.77	3,596.80	3,418.02	178.78	20.119		
17,900.00	7,870.00	8,358.90	7,988.08	147.50	43.42	91.79	-8,719.48	1,128.73	3,544.76	3,363.94	180.82	19.604		
18,000.00	7,870.00	8,355.69	7,984.87	149.06	43.42	91.73	-8,719.58	1,128.69	3,494.80	3,311.94	182.86	19.112		
18,100.00	7,870.00	8,352.38	7,981.57	150.63	43.41	91.66	-8,719.69	1,128.66	3,447.01	3,262.11	184.90	18.643		
18,200.00	7,870.00	8,348.97	7,978.16	152.20	43.41	91.60	-8,719.80	1,128.62	3,401.49	3,214.56	186.93	18.197		
18,300.00	7,870.00	8,345.45	7,974.64	153.77	43.40	91.53	-8,719.92	1,128.58	3,358.33	3,169.40	188.93	17.775		
18,400.00	7,870.00	8,341.82	7,971.01	155.35	43.39	91.47	-8,720.05	1,128.54	3,317.62	3,126.72	190.90	17.378		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,500.00	7,870.00	8,338.07	7,967.26	156.93	43.39	91.40	-8,720.18	1,128.50	3,279.45	3,086.62	192.83	17.007	
18,600.00	7,870.00	8,334.19	7,963.39	158.52	43.38	91.32	-8,720.31	1,128.46	3,243.91	3,049.20	194.71	16.660	
18,700.00	7,870.00	8,330.19	7,959.39	160.11	43.37	91.25	-8,720.46	1,128.42	3,211.09	3,014.57	196.52	16.340	
18,800.00	7,870.00	8,326.05	7,955.26	161.71	43.37	91.17	-8,720.61	1,128.38	3,181.07	2,982.82	198.25	16.046	
18,900.00	7,870.00	8,321.77	7,950.98	163.31	43.36	91.09	-8,720.77	1,128.34	3,153.93	2,954.04	199.89	15.778	
19,000.00	7,870.00	8,317.34	7,946.55	164.91	43.35	91.01	-8,720.94	1,128.30	3,129.75	2,928.31	201.43	15.537	
19,100.00	7,870.00	8,312.75	7,941.96	166.52	43.34	90.92	-8,721.11	1,128.26	3,108.59	2,905.73	202.86	15.324	
19,200.00	7,870.00	8,307.99	7,937.21	168.13	43.33	90.83	-8,721.30	1,128.22	3,090.52	2,886.35	204.17	15.137	
19,300.00	7,870.00	8,303.05	7,932.27	169.75	43.32	90.74	-8,721.50	1,128.18	3,075.59	2,870.25	205.34	14.978	
19,383.51	7,870.00	8,298.78	7,928.01	171.10	43.32	90.66	-8,721.67	1,128.15	3,065.56	2,859.35	206.21	14.866	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	43.25	43.25	0.00	0.06	163.61	-7,154.09	2,103.75	7,457.03					
100.00	100.00	114.66	114.66	0.13	0.25	163.61	-7,153.87	2,103.87	7,456.82	7,456.43	0.39	N/A		
200.00	200.00	166.00	166.00	0.49	0.43	163.62	-7,154.22	2,103.54	7,457.27	7,456.35	0.92	8,087.336		
300.00	300.00	211.54	211.53	0.85	0.59	163.62	-7,154.93	2,103.00	7,458.42	7,456.98	1.44	5,174.965		
400.00	400.00	257.00	256.97	1.21	0.75	163.63	-7,155.99	2,102.34	7,460.26	7,458.30	1.96	3,807.420		
500.00	500.00	299.15	299.09	1.57	0.90	163.64	-7,157.37	2,101.46	7,462.86	7,460.39	2.47	3,021.886		
600.00	600.00	349.00	348.86	1.93	1.08	163.65	-7,159.65	2,099.89	7,466.28	7,463.27	3.01	2,483.219		
700.00	699.98	378.85	378.64	2.28	1.19	99.76	-7,161.34	2,098.69	7,470.77	7,467.30	3.47	2,152.782		
800.00	799.84	440.00	439.57	2.64	1.42	99.70	-7,165.54	2,095.71	7,476.75	7,472.70	4.05	1,846.688		
900.00	899.45	440.00	439.57	3.00	1.42	99.56	-7,165.54	2,095.71	7,484.02	7,479.61	4.41	1,697.322		
1,000.00	998.70	485.46	484.80	3.37	1.60	99.45	-7,169.32	2,093.24	7,492.76	7,487.81	4.95	1,513.077		
1,100.00	1,097.47	533.00	532.05	3.76	1.78	99.34	-7,173.93	2,090.69	7,503.10	7,497.58	5.52	1,359.300		
1,200.00	1,195.62	533.00	532.05	4.18	1.78	99.10	-7,173.93	2,090.69	7,514.84	7,508.91	5.93	1,267.297		
1,300.00	1,293.06	585.64	584.28	4.63	2.00	98.96	-7,179.78	2,087.56	7,527.96	7,521.39	6.57	1,145.506		
1,400.00	1,389.64	625.00	623.23	5.11	2.16	98.78	-7,184.67	2,084.81	7,542.53	7,535.33	7.20	1,048.248		
1,500.00	1,485.27	660.79	658.59	5.63	2.31	98.57	-7,189.47	2,081.99	7,558.46	7,550.61	7.85	963.010		
1,600.00	1,579.82	717.00	713.96	6.20	2.55	98.41	-7,197.61	2,076.87	7,575.76	7,567.13	8.63	877.973		
1,700.00	1,673.17	717.00	713.96	6.83	2.55	98.04	-7,197.61	2,076.87	7,594.37	7,585.14	9.22	823.280		
1,800.00	1,765.21	762.13	758.28	7.51	2.76	97.81	-7,204.75	2,072.22	7,614.33	7,604.27	10.06	756.550		
1,900.00	1,855.84	809.00	804.14	8.24	2.98	97.58	-7,212.84	2,066.94	7,635.84	7,624.87	10.97	696.348		
2,000.00	1,944.94	809.00	804.14	9.05	2.98	97.11	-7,212.84	2,066.94	7,658.61	7,646.89	11.72	653.572		
2,100.00	2,032.39	842.21	836.54	9.91	3.14	96.78	-7,218.97	2,062.94	7,682.83	7,670.15	12.68	605.957		
2,200.00	2,118.11	866.92	860.58	10.85	3.26	96.37	-7,223.74	2,059.83	7,708.43	7,694.77	13.66	564.361		
2,300.00	2,201.97	898.00	890.75	11.85	3.42	95.98	-7,229.99	2,055.77	7,735.40	7,720.67	14.73	525.262		
2,400.00	2,283.88	898.00	890.75	12.93	3.42	95.39	-7,229.99	2,055.77	7,763.72	7,748.01	15.71	494.188		
2,429.47	2,307.63	898.00	890.75	13.26	3.42	95.21	-7,229.99	2,055.77	7,772.36	7,756.35	16.01	485.465		
2,500.00	2,364.26	898.00	890.75	14.06	3.42	95.21	-7,229.99	2,055.77	7,793.47	7,776.73	16.74	465.627		
2,600.00	2,444.56	940.93	932.30	15.22	3.65	95.46	-7,239.18	2,050.07	7,823.91	7,805.93	17.99	435.022		
2,700.00	2,524.85	986.00	975.76	16.39	3.88	95.71	-7,249.58	2,044.19	7,855.80	7,836.55	19.25	408.150		
2,800.00	2,605.14	986.00	975.76	17.57	3.88	95.71	-7,249.58	2,044.19	7,888.29	7,868.00	20.29	388.742		
2,900.00	2,685.43	986.00	975.76	18.76	3.88	95.71	-7,249.58	2,044.19	7,921.91	7,900.58	21.33	371.325		
3,000.00	2,765.73	1,010.05	998.89	19.96	4.02	95.85	-7,255.41	2,041.14	7,956.54	7,934.05	22.49	353.751		
3,100.00	2,846.02	1,036.00	1,023.83	21.16	4.16	95.99	-7,261.84	2,037.98	7,992.11	7,968.45	23.66	337.834		
3,200.00	2,926.31	1,036.00	1,023.83	22.37	4.16	95.99	-7,261.84	2,037.98	8,028.63	8,003.95	24.68	325.255		
3,300.00	3,006.60	1,074.35	1,060.67	23.59	4.37	96.20	-7,271.59	2,033.68	8,065.96	8,040.07	25.89	311.491		
3,400.00	3,086.90	1,096.03	1,081.48	24.81	4.49	96.32	-7,277.24	2,031.48	8,104.23	8,077.21	27.02	299.969		
3,500.00	3,167.19	1,143.00	1,126.55	26.03	4.76	96.58	-7,289.81	2,027.30	8,143.49	8,115.23	28.26	288.125		
3,600.00	3,247.48	1,143.00	1,126.55	27.25	4.76	96.58	-7,289.81	2,027.30	8,183.38	8,154.12	29.26	279.685		
3,700.00	3,327.77	1,186.16	1,167.93	28.48	5.00	96.81	-7,301.60	2,023.86	8,224.15	8,193.68	30.47	269.947		
3,800.00	3,408.07	1,242.56	1,221.98	29.71	5.32	97.10	-7,317.08	2,019.49	8,265.52	8,233.79	31.73	260.458		
3,900.00	3,488.36	1,371.10	1,345.28	30.94	6.06	97.78	-7,352.01	2,009.53	8,307.23	8,273.86	33.37	248.924		
4,000.00	3,568.65	1,505.17	1,474.17	32.17	6.83	98.48	-7,387.23	1,998.41	8,348.67	8,313.63	35.04	238.274		
4,100.00	3,648.95	1,543.50	1,511.00	33.41	7.05	98.68	-7,397.26	1,995.05	8,390.56	8,354.36	36.20	231.793		
4,200.00	3,729.24	1,580.00	1,546.04	34.64	7.26	98.87	-7,406.93	1,991.71	8,433.13	8,395.79	37.34	225.843		
4,300.00	3,809.53	1,629.24	1,593.25	35.88	7.55	99.13	-7,420.10	1,986.99	8,476.33	8,437.79	38.55	219.907		
4,400.00	3,889.82	1,682.30	1,644.06	37.12	7.87	99.40	-7,434.42	1,981.64	8,520.13	8,480.37	39.76	214.277		
4,500.00	3,970.12	1,759.98	1,718.43	38.36	8.33	99.81	-7,455.34	1,973.50	8,564.36	8,523.26	41.11	208.340		
4,600.00	4,050.41	1,816.74	1,772.75	39.60	8.67	100.11	-7,470.62	1,967.42	8,609.04	8,566.70	42.33	203.370		
4,700.00	4,130.70	1,888.91	1,841.82	40.84	9.11	100.48	-7,490.05	1,959.65	8,654.17	8,610.54	43.63	198.338		
4,800.00	4,210.99	1,953.73	1,903.90	42.08	9.50	100.81	-7,507.43	1,952.85	8,699.67	8,654.78	44.89	193.816		
4,900.00	4,291.29	2,163.65	2,105.51	43.32	10.74	101.87	-7,562.46	1,933.21	8,745.43	8,698.50	46.93	186.367		
5,000.00	4,371.58	2,211.46	2,151.53	44.57	11.02	102.10	-7,574.53	1,928.43	8,790.74	8,742.66	48.07	182.868		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	2,239.94	2,178.87	45.81	11.19	102.25	-7,581.82	1,925.22	8,836.71	8,787.61	49.10	179.963		
5,200.00	4,532.16	2,390.38	2,323.09	47.05	12.09	103.01	-7,620.04	1,905.98	8,883.13	8,832.32	50.81	174.835		
5,300.00	4,612.46	2,418.18	2,349.78	48.30	12.26	103.15	-7,627.00	1,902.53	8,929.60	8,877.78	51.82	172.316		
5,400.00	4,692.75	2,453.00	2,383.19	49.54	12.46	103.33	-7,635.87	1,898.28	8,976.75	8,923.89	52.86	169.811		
5,500.00	4,773.04	2,500.00	2,452.77	50.79	30.17	104.19	-7,679.78	1,879.05	9,023.82	8,956.78	67.05	134.592		
5,600.00	4,853.34	2,665.54	2,587.74	52.03	13.71	104.37	-7,688.54	1,874.72	9,071.01	9,015.29	55.72	162.789		
5,700.00	4,933.63	2,684.12	2,605.59	53.28	13.82	104.46	-7,693.17	1,872.46	9,118.99	9,062.34	56.65	160.972		
5,800.00	5,013.92	2,714.00	2,634.25	54.53	14.00	104.61	-7,700.78	1,868.77	9,167.70	9,110.07	57.63	159.079		
5,900.00	5,094.21	2,766.94	2,685.00	55.77	14.32	104.86	-7,714.41	1,862.32	9,217.01	9,158.28	58.73	156.928		
6,000.00	5,174.51	2,971.99	2,882.23	57.02	15.53	105.84	-7,765.37	1,838.92	9,265.98	9,205.29	60.70	152.663		
6,100.00	5,254.80	3,000.89	2,910.07	58.27	15.69	105.98	-7,772.41	1,835.69	9,315.09	9,253.44	61.65	151.100		
6,200.00	5,335.09	3,026.78	2,935.00	59.52	15.85	106.10	-7,778.84	1,832.96	9,364.83	9,302.25	62.58	149.656		
6,300.00	5,415.38	3,064.00	2,970.81	60.76	16.06	106.27	-7,788.29	1,829.31	9,415.20	9,351.64	63.56	148.133		
6,400.00	5,495.68	3,100.38	3,005.80	62.01	16.28	106.44	-7,797.66	1,825.91	9,466.11	9,401.58	64.53	146.697		
6,500.00	5,575.97	3,161.06	3,064.16	63.26	16.64	106.71	-7,813.30	1,820.26	9,517.40	9,451.77	65.63	145.013		
6,600.00	5,656.26	3,209.14	3,110.37	64.51	16.92	106.93	-7,825.72	1,815.51	9,569.09	9,502.44	66.65	143.563		
6,700.00	5,736.55	3,258.58	3,157.82	65.76	17.22	107.16	-7,838.53	1,810.26	9,621.23	9,553.55	67.68	142.163		
6,800.00	5,816.85	3,311.08	3,208.20	67.01	17.53	107.40	-7,852.19	1,804.62	9,673.77	9,605.06	68.71	140.786		
6,900.00	5,897.14	3,364.74	3,259.67	68.26	17.85	107.64	-7,866.23	1,798.92	9,726.70	9,656.96	69.75	139.457		
7,000.00	5,977.43	3,421.46	3,314.09	69.50	18.19	107.90	-7,881.16	1,793.13	9,780.02	9,709.22	70.79	138.149		
7,100.00	6,057.72	3,466.52	3,350.66	70.75	19.52	108.89	-7,938.30	1,771.28	9,832.58	9,759.76	72.83	135.012		
7,200.00	6,138.02	3,675.00	3,558.11	72.00	19.68	109.01	-7,945.45	1,768.67	9,885.58	9,811.88	73.70	134.139		
7,300.00	6,218.31	3,723.99	3,605.29	73.25	19.97	109.22	-7,957.89	1,764.27	9,939.04	9,864.36	74.68	133.091		
7,400.00	6,298.60	3,861.66	3,737.96	74.50	20.77	109.80	-7,992.86	1,752.95	9,992.81	9,916.63	76.18	131.172		
9,659.14	7,870.00	8,188.43	8,020.46	93.60	35.95	92.86	-8,337.70	1,629.05	9,996.89	9,886.61	110.27	90.655		
9,700.00	7,870.00	8,188.03	8,020.07	93.46	35.95	92.85	-8,337.71	1,629.04	9,957.38	9,847.04	110.35	90.238		
9,800.00	7,870.00	8,187.07	8,019.11	93.11	35.94	92.83	-8,337.72	1,629.03	9,860.75	9,750.23	110.52	89.219		
9,900.00	7,870.00	8,186.11	8,018.14	92.77	35.94	92.81	-8,337.73	1,629.02	9,764.19	9,653.49	110.71	88.199		
10,000.00	7,870.00	8,185.14	8,017.18	92.46	35.94	92.79	-8,337.74	1,629.01	9,667.70	9,556.81	110.90	87.178		
10,100.00	7,870.00	8,184.18	8,016.22	92.16	35.94	92.77	-8,337.75	1,629.00	9,571.28	9,460.19	111.09	86.158		
10,200.00	7,870.00	8,183.21	8,015.25	91.87	35.93	92.75	-8,337.76	1,628.99	9,474.94	9,363.65	111.29	85.137		
10,300.00	7,870.00	8,182.25	8,014.28	91.60	35.93	92.72	-8,337.77	1,628.99	9,378.67	9,267.18	111.50	84.117		
10,400.00	7,870.00	8,181.28	8,013.32	91.34	35.93	92.70	-8,337.78	1,628.98	9,282.48	9,170.78	111.71	83.097		
10,500.00	7,870.00	8,180.31	8,012.35	91.11	35.93	92.68	-8,337.79	1,628.97	9,186.37	9,074.45	111.93	82.076		
10,600.00	7,870.00	8,179.35	8,011.38	90.88	35.92	92.66	-8,337.80	1,628.96	9,090.35	8,978.20	112.15	81.056		
10,700.00	7,870.00	8,178.38	8,010.41	90.67	35.92	92.64	-8,337.81	1,628.95	8,994.41	8,882.03	112.38	80.035		
10,800.00	7,870.00	8,177.41	8,009.45	90.48	35.92	92.62	-8,337.82	1,628.94	8,898.56	8,785.95	112.62	79.015		
10,900.00	7,870.00	8,176.44	8,008.48	90.31	35.92	92.59	-8,337.83	1,628.93	8,802.81	8,689.95	112.86	77.995		
11,000.00	7,870.00	8,175.47	8,007.51	90.15	35.91	92.57	-8,337.84	1,628.92	8,707.15	8,594.03	113.12	76.976		
11,100.00	7,870.00	8,174.50	8,006.53	90.00	35.91	92.55	-8,337.85	1,628.91	8,611.59	8,498.21	113.38	75.957		
11,200.00	7,870.00	8,173.53	8,005.56	89.88	35.91	92.53	-8,337.86	1,628.90	8,516.12	8,402.48	113.64	74.938		
11,300.00	7,870.00	8,172.55	8,004.59	89.77	35.91	92.51	-8,337.87	1,628.89	8,420.77	8,306.85	113.92	73.919		
11,400.00	7,870.00	8,171.58	8,003.62	89.68	35.90	92.49	-8,337.88	1,628.88	8,325.52	8,211.32	114.20	72.901		
11,500.00	7,870.00	8,170.61	8,002.64	89.60	35.90	92.46	-8,337.89	1,628.87	8,230.39	8,115.89	114.50	71.884		
11,600.00	7,870.00	8,169.63	8,001.67	89.55	35.90	92.44	-8,337.90	1,628.86	8,135.37	8,020.57	114.80	70.867		
11,700.00	7,870.00	8,168.66	8,000.69	89.52	35.90	92.42	-8,337.91	1,628.85	8,040.48	7,925.37	115.11	69.851		
11,800.00	7,870.00	8,167.68	7,999.72	89.50	35.89	92.40	-8,337.92	1,628.84	7,945.70	7,830.27	115.43	68.836		
11,900.00	7,870.00	8,166.70	7,998.74	89.51	35.89	92.38	-8,337.93	1,628.83	7,851.06	7,735.30	115.76	67.822		
12,000.00	7,870.00	8,165.73	7,997.76	89.54	35.89	92.35	-8,337.95	1,628.82	7,756.55	7,640.45	116.10	66.808		
12,100.00	7,870.00	8,164.75	7,996.79	89.59	35.89	92.33	-8,337.96	1,628.81	7,662.19	7,545.73	116.45	65.796		
12,200.00	7,870.00	8,163.77	7,995.81	89.66	35.88	92.31	-8,337.97	1,628.80	7,567.96	7,451.15	116.82	64.785		
12,300.00	7,870.00	8,162.79	7,994.83	89.77	35.88	92.29	-8,337.98	1,628.79	7,473.89	7,356.70	117.19	63.775		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
12,400.00	7,870.00	8,161.81	7,993.85	89.89	35.88	92.27	-8,337.99	1,628.78	7,379.97	7,262.39	117.58	62.766		
12,500.00	7,870.00	8,160.83	7,992.87	90.05	35.88	92.24	-8,338.00	1,628.77	7,286.22	7,168.24	117.98	61.759		
12,600.00	7,870.00	8,159.85	7,991.89	90.24	35.87	92.22	-8,338.01	1,628.76	7,192.63	7,074.24	118.39	60.753		
12,700.00	7,870.00	8,158.87	7,990.91	90.46	35.87	92.20	-8,338.02	1,628.75	7,099.21	6,980.40	118.82	59.749		
12,800.00	7,870.00	8,157.88	7,989.92	90.71	35.87	92.18	-8,338.03	1,628.74	7,005.98	6,886.72	119.26	58.746		
12,900.00	7,870.00	8,156.90	7,988.94	90.99	35.87	92.16	-8,338.04	1,628.72	6,912.94	6,793.23	119.71	57.746		
13,000.00	7,870.00	8,155.92	7,987.96	91.32	35.87	92.13	-8,338.05	1,628.71	6,820.09	6,699.91	120.18	56.747		
13,100.00	7,870.00	8,154.93	7,986.97	91.68	35.86	92.11	-8,338.06	1,628.70	6,727.45	6,606.78	120.67	55.751		
13,200.00	7,870.00	8,153.95	7,985.99	92.08	35.86	92.09	-8,338.07	1,628.69	6,635.02	6,513.85	121.17	54.757		
13,300.00	7,870.00	8,152.96	7,985.00	92.52	35.86	92.07	-8,338.08	1,628.68	6,542.82	6,421.13	121.69	53.766		
13,400.00	7,870.00	8,163.09	7,995.13	93.00	35.88	92.29	-8,337.94	1,628.80	6,450.82	6,328.54	122.28	52.755		
13,500.00	7,870.00	8,161.44	7,993.48	93.53	35.88	92.26	-8,337.96	1,628.78	6,359.09	6,236.26	122.83	51.771		
13,600.00	7,870.00	8,159.80	7,991.84	94.10	35.88	92.22	-8,337.98	1,628.76	6,267.62	6,144.21	123.40	50.789		
13,700.00	7,870.00	8,158.19	7,990.23	94.72	35.87	92.18	-8,338.00	1,628.74	6,176.41	6,052.41	124.00	49.811		
13,800.00	7,870.00	8,156.59	7,988.63	95.38	35.87	92.15	-8,338.02	1,628.73	6,085.47	5,960.86	124.61	48.836		
13,900.00	7,870.00	8,155.02	7,987.06	96.09	35.86	92.11	-8,338.04	1,628.71	5,994.82	5,869.57	125.25	47.864		
14,000.00	7,870.00	8,153.46	7,985.50	96.84	35.86	92.08	-8,338.06	1,628.69	5,904.47	5,778.57	125.90	46.897		
14,100.00	7,870.00	8,151.92	7,983.96	97.64	35.86	92.04	-8,338.08	1,628.68	5,814.44	5,687.86	126.59	45.933		
14,200.00	7,870.00	8,150.40	7,982.44	98.48	35.85	92.01	-8,338.10	1,628.66	5,724.74	5,597.45	127.29	44.973		
14,300.00	7,870.00	8,148.90	7,980.94	99.37	35.85	91.98	-8,338.11	1,628.64	5,635.39	5,507.37	128.02	44.018		
14,400.00	7,870.00	8,147.42	7,979.46	100.30	35.84	91.94	-8,338.13	1,628.63	5,546.40	5,417.62	128.78	43.068		
14,500.00	7,870.00	8,145.95	7,977.99	101.26	35.84	91.91	-8,338.15	1,628.61	5,457.79	5,328.22	129.57	42.123		
14,600.00	7,870.00	8,144.50	7,976.54	102.27	35.84	91.88	-8,338.16	1,628.59	5,369.58	5,239.20	130.38	41.183		
14,700.00	7,870.00	8,143.07	7,975.11	103.31	35.83	91.85	-8,338.18	1,628.58	5,281.79	5,150.56	131.23	40.249		
14,800.00	7,870.00	8,141.66	7,973.70	104.38	35.83	91.81	-8,338.20	1,628.56	5,194.44	5,062.34	132.10	39.321		
14,900.00	7,870.00	8,140.26	7,972.30	105.49	35.83	91.78	-8,338.21	1,628.55	5,107.56	4,974.55	133.01	38.400		
15,000.00	7,870.00	8,138.87	7,970.91	106.63	35.82	91.75	-8,338.23	1,628.53	5,021.16	4,887.21	133.95	37.485		
15,100.00	7,870.00	8,137.51	7,969.55	107.80	35.82	91.72	-8,338.24	1,628.51	4,935.27	4,800.35	134.93	36.577		
15,200.00	7,870.00	8,136.15	7,968.19	109.00	35.82	91.69	-8,338.26	1,628.50	4,849.93	4,713.99	135.94	35.677		
15,300.00	7,870.00	8,134.82	7,966.86	110.22	35.81	91.66	-8,338.28	1,628.48	4,765.16	4,628.17	136.99	34.785		
15,400.00	7,870.00	8,133.49	7,965.54	111.47	35.81	91.63	-8,338.29	1,628.47	4,680.99	4,542.91	138.08	33.901		
15,500.00	7,870.00	8,132.19	7,964.23	112.74	35.81	91.60	-8,338.30	1,628.45	4,597.45	4,458.24	139.21	33.026		
15,600.00	7,870.00	8,130.89	7,962.93	114.03	35.80	91.57	-8,338.32	1,628.44	4,514.58	4,374.20	140.37	32.161		
15,700.00	7,870.00	8,129.61	7,961.66	115.34	35.80	91.54	-8,338.33	1,628.43	4,432.41	4,290.83	141.59	31.305		
15,800.00	7,870.00	8,128.35	7,960.39	116.68	35.80	91.51	-8,338.35	1,628.41	4,351.00	4,208.16	142.84	30.460		
15,900.00	7,870.00	8,127.10	7,959.14	118.02	35.79	91.49	-8,338.36	1,628.40	4,270.37	4,126.23	144.14	29.626		
16,000.00	7,870.00	8,125.86	7,957.90	119.39	35.79	91.46	-8,338.37	1,628.38	4,190.58	4,045.09	145.49	28.803		
16,100.00	7,870.00	8,124.64	7,956.68	120.77	35.79	91.43	-8,338.39	1,628.37	4,111.67	3,964.78	146.88	27.993		
16,200.00	7,870.00	8,123.42	7,955.47	122.17	35.78	91.40	-8,338.40	1,628.36	4,033.69	3,885.37	148.32	27.195		
16,300.00	7,870.00	8,122.23	7,954.27	123.58	35.78	91.38	-8,338.41	1,628.34	3,956.71	3,806.90	149.81	26.411		
16,400.00	7,870.00	8,121.04	7,953.08	125.00	35.78	91.35	-8,338.42	1,628.33	3,880.78	3,729.42	151.35	25.641		
16,500.00	7,870.00	8,119.87	7,951.91	126.43	35.78	91.32	-8,338.44	1,628.31	3,805.95	3,653.01	152.94	24.885		
16,600.00	7,870.00	8,118.70	7,950.75	127.88	35.77	91.30	-8,338.45	1,628.30	3,732.31	3,577.74	154.58	24.145		
16,700.00	7,870.00	8,117.56	7,949.60	129.34	35.77	91.27	-8,338.46	1,628.29	3,659.92	3,503.66	156.26	23.422		
16,800.00	7,870.00	8,116.42	7,948.46	130.81	35.77	91.25	-8,338.47	1,628.27	3,588.85	3,430.86	157.99	22.715		
16,900.00	7,870.00	8,115.29	7,947.34	132.28	35.76	91.22	-8,338.48	1,628.26	3,519.19	3,359.42	159.77	22.027		
17,000.00	7,870.00	8,114.18	7,946.22	133.77	35.76	91.20	-8,338.50	1,628.25	3,451.03	3,289.43	161.59	21.356		
17,100.00	7,870.00	8,113.08	7,945.12	135.27	35.76	91.17	-8,338.51	1,628.24	3,384.44	3,220.98	163.45	20.706		
17,200.00	7,870.00	8,111.99	7,944.03	136.77	35.76	91.15	-8,338.52	1,628.22	3,319.53	3,154.17	165.35	20.075		
17,300.00	7,870.00	8,110.90	7,942.95	138.28	35.75	91.12	-8,338.53	1,628.21	3,256.40	3,089.11	167.29	19.466		
17,400.00	7,870.00	8,109.84	7,941.88	139.80	35.75	91.10	-8,338.54	1,628.20	3,195.15	3,025.90	169.25	18.878		
17,500.00	7,870.00	8,108.78	7,940.82	141.33	35.75	91.07	-8,338.55	1,628.19	3,135.89	2,964.66	171.23	18.314		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
17,600.00	7,870.00	8,107.73	7,939.77	142.86	35.74	91.05	-8,338.56	1,628.17	3,078.74	2,905.51	173.23	17.773	
17,700.00	7,870.00	8,106.69	7,938.73	144.40	35.74	91.03	-8,338.57	1,628.16	3,023.82	2,848.59	175.23	17.257	
17,800.00	7,870.00	8,105.66	7,937.71	145.95	35.74	91.00	-8,338.58	1,628.15	2,971.25	2,794.03	177.22	16.766	
17,900.00	7,870.00	8,104.64	7,936.69	147.50	35.74	90.98	-8,338.59	1,628.14	2,921.16	2,741.95	179.20	16.301	
18,000.00	7,870.00	8,103.64	7,935.68	149.06	35.73	90.96	-8,338.60	1,628.13	2,873.67	2,692.52	181.15	15.863	
18,100.00	7,870.00	8,102.64	7,934.68	150.63	35.73	90.94	-8,338.61	1,628.11	2,828.92	2,645.86	183.06	15.454	
18,200.00	7,870.00	8,101.65	7,933.70	152.20	35.73	90.91	-8,338.62	1,628.10	2,787.05	2,602.14	184.91	15.072	
18,300.00	7,870.00	8,100.67	7,932.72	153.77	35.73	90.89	-8,338.63	1,628.09	2,748.18	2,561.49	186.69	14.721	
18,400.00	7,870.00	8,099.70	7,931.75	155.35	35.72	90.87	-8,338.64	1,628.08	2,712.43	2,524.06	188.37	14.399	
18,500.00	7,870.00	8,098.74	7,930.79	156.93	35.72	90.85	-8,338.65	1,628.07	2,679.95	2,490.00	189.95	14.109	
18,600.00	7,870.00	8,097.79	7,929.84	158.52	35.72	90.83	-8,338.66	1,628.06	2,650.84	2,459.44	191.40	13.850	
18,700.00	7,870.00	8,096.85	7,928.89	160.11	35.72	90.81	-8,338.67	1,628.05	2,625.22	2,432.50	192.71	13.623	
18,800.00	7,870.00	8,095.91	7,927.96	161.71	35.72	90.79	-8,338.67	1,628.04	2,603.18	2,409.32	193.86	13.428	
18,900.00	7,870.00	8,094.99	7,927.04	163.31	35.71	90.76	-8,338.68	1,628.02	2,584.84	2,390.00	194.84	13.266	
19,000.00	7,870.00	8,094.07	7,926.12	164.91	35.71	90.74	-8,338.69	1,628.01	2,570.25	2,374.62	195.63	13.138	
19,100.00	7,870.00	8,093.17	7,925.21	166.52	35.71	90.72	-8,338.70	1,628.00	2,559.49	2,363.27	196.22	13.044	
19,200.00	7,870.00	8,092.27	7,924.31	168.13	35.71	90.70	-8,338.71	1,627.99	2,552.61	2,356.00	196.61	12.983	
19,300.00	7,870.00	8,091.37	7,923.42	169.75	35.70	90.68	-8,338.72	1,627.98	2,549.63	2,352.85	196.78	12.957	
19,325.96	7,870.00	8,091.14	7,923.19	170.17	35.70	90.68	-8,338.72	1,627.98	2,549.50	2,352.71	196.79	12.955	CC, ES, SF
19,383.51	7,870.00	8,090.64	7,922.68	171.10	35.70	90.67	-8,338.72	1,627.97	2,550.15	2,353.39	196.76	12.961	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	21.18	21.18	0.00	0.03	163.46	-7,110.82	2,111.84	7,417.79					
100.00	100.00	113.27	113.27	0.13	0.18	163.46	-7,110.79	2,112.16	7,417.86	7,417.55	0.32	N/A		
200.00	200.00	185.49	185.47	0.49	0.41	163.45	-7,110.63	2,113.42	7,418.15	7,417.26	0.90	8,278.520		
300.00	300.00	226.00	225.93	0.85	0.56	163.43	-7,110.32	2,115.38	7,418.95	7,417.55	1.40	5,293.572		
400.00	400.00	264.91	264.74	1.21	0.70	163.41	-7,110.09	2,118.12	7,420.57	7,418.67	1.91	3,892.044		
500.00	500.00	318.00	317.60	1.57	0.91	163.37	-7,110.29	2,123.11	7,423.34	7,420.88	2.46	3,012.208		
600.00	600.00	318.00	317.60	1.93	0.91	163.37	-7,110.29	2,123.11	7,426.78	7,423.96	2.82	2,630.246		
700.00	699.98	392.15	391.28	2.28	1.19	99.41	-7,111.06	2,131.39	7,431.31	7,427.84	3.47	2,143.660		
800.00	799.84	951.28	938.10	2.64	3.85	98.73	-7,083.64	2,240.02	7,431.32	7,424.85	6.47	1,147.926		
831.90	831.65	959.17	945.70	2.75	3.90	98.71	-7,082.91	2,242.04	7,431.26	7,424.62	6.64	1,119.775		
900.00	899.45	990.71	976.02	3.00	4.08	98.66	-7,080.03	2,250.20	7,431.55	7,424.49	7.06	1,052.208		
1,000.00	998.70	1,044.05	1,027.24	3.37	4.38	98.57	-7,075.39	2,264.34	7,433.03	7,425.28	7.74	959.955		
1,100.00	1,097.47	1,123.05	1,103.24	3.76	4.84	98.45	-7,068.93	2,284.96	7,435.46	7,426.86	8.59	865.460		
1,200.00	1,195.62	1,207.00	1,184.21	4.18	5.31	98.33	-7,062.42	2,306.12	7,438.55	7,429.07	9.48	784.274		
1,300.00	1,293.06	1,277.05	1,251.55	4.63	5.73	98.23	-7,056.94	2,324.62	7,442.48	7,432.14	10.34	719.454		
1,400.00	1,389.64	1,399.17	1,368.35	5.11	6.47	98.10	-7,047.03	2,358.84	7,447.10	7,435.53	11.57	643.861		
1,500.00	1,485.27	1,469.00	1,435.35	5.63	6.89	98.00	-7,041.50	2,377.74	7,452.12	7,439.62	12.51	595.807		
1,600.00	1,579.82	1,525.45	1,489.52	6.20	7.23	97.90	-7,037.31	2,393.05	7,458.14	7,444.73	13.41	555.974		
1,700.00	1,673.17	1,611.80	1,572.34	6.83	7.75	97.82	-7,031.42	2,416.76	7,465.25	7,450.69	14.56	512.898		
1,800.00	1,765.21	1,740.12	1,695.19	7.51	8.54	97.77	-7,022.03	2,452.63	7,472.53	7,456.51	16.02	466.544		
1,900.00	1,855.84	1,866.25	1,815.96	8.24	9.31	97.76	-7,012.47	2,487.71	7,480.04	7,462.51	17.53	426.819		
2,000.00	1,944.94	1,974.46	1,919.85	9.05	9.97	97.76	-7,004.14	2,516.81	7,487.64	7,468.67	18.97	394.621		
2,100.00	2,032.39	2,093.64	2,034.33	9.91	10.69	97.80	-6,994.87	2,548.64	7,495.65	7,475.10	20.55	364.735		
2,200.00	2,118.11	2,168.00	2,105.79	10.85	11.13	97.77	-6,989.08	2,568.35	7,504.15	7,482.23	21.92	342.333		
2,300.00	2,201.97	2,221.10	2,156.81	11.85	11.45	97.70	-6,985.14	2,582.56	7,513.64	7,490.41	23.23	323.442		
2,400.00	2,283.88	2,359.93	2,289.58	12.93	12.31	97.82	-6,974.75	2,621.73	7,524.15	7,499.00	25.15	299.115		
2,429.47	2,307.63	2,424.86	2,351.77	13.26	12.72	97.93	-6,969.46	2,639.62	7,527.11	7,501.22	25.88	290.791		
2,500.00	2,364.26	2,430.00	2,356.71	14.06	12.75	97.94	-6,969.04	2,640.99	7,534.33	7,507.62	26.70	282.158		
2,600.00	2,444.56	2,483.74	2,408.26	15.22	13.08	98.08	-6,964.93	2,655.59	7,545.12	7,516.96	28.16	267.904		
2,700.00	2,524.85	2,517.00	2,440.09	16.39	13.29	98.16	-6,962.68	2,664.99	7,556.92	7,527.41	29.51	256.112		
2,800.00	2,605.14	2,560.13	2,481.34	17.57	13.55	98.27	-6,960.00	2,677.31	7,569.55	7,538.63	30.92	244.801		
2,900.00	2,685.43	2,605.73	2,525.01	18.76	13.84	98.39	-6,957.60	2,690.19	7,582.92	7,550.57	32.36	234.351		
3,000.00	2,765.73	2,709.06	2,623.67	19.96	14.49	98.64	-6,952.05	2,720.40	7,596.68	7,562.50	34.18	222.257		
3,100.00	2,846.02	2,844.28	2,753.13	21.16	15.34	98.98	-6,944.72	2,758.73	7,610.34	7,574.14	36.21	210.192		
3,200.00	2,926.31	2,912.91	2,818.81	22.37	15.76	99.15	-6,940.76	2,778.27	7,623.87	7,586.06	37.80	201.666		
3,300.00	3,006.60	3,300.00	2,982.41	23.59	18.20	99.58	-6,931.04	2,827.32	7,637.89	7,596.45	41.44	184.314		
3,400.00	3,086.90	3,189.71	3,083.41	24.81	17.51	99.83	-6,923.77	2,857.69	7,650.68	7,608.75	41.93	182.451		
3,500.00	3,167.19	3,296.53	3,185.51	26.03	18.18	100.09	-6,916.66	2,888.28	7,663.84	7,620.04	43.79	175.006		
3,600.00	3,247.48	3,380.06	3,265.99	27.25	18.67	100.31	-6,911.46	2,910.05	7,676.93	7,631.46	45.47	168.853		
3,700.00	3,327.77	3,571.74	3,452.68	28.48	19.69	100.87	-6,899.95	2,951.80	7,689.28	7,641.60	47.68	161.262		
3,800.00	3,408.07	3,655.34	3,534.80	29.71	20.08	101.14	-6,895.34	2,966.77	7,701.69	7,652.43	49.25	156.371		
3,900.00	3,488.36	3,727.82	3,606.29	30.94	20.40	101.38	-6,891.81	2,978.15	7,714.46	7,663.72	50.74	152.036		
4,000.00	3,568.65	3,822.47	3,699.99	32.17	20.78	101.71	-6,887.74	2,990.95	7,727.56	7,675.26	52.30	147.751		
4,100.00	3,648.95	3,933.10	3,809.84	33.41	21.20	102.11	-6,883.27	3,003.17	7,740.71	7,686.82	53.89	143.651		
4,200.00	3,729.24	4,005.08	3,881.47	34.64	21.45	102.38	-6,880.63	3,009.77	7,754.16	7,698.86	55.30	140.220		
4,300.00	3,809.53	4,096.51	3,972.56	35.88	21.76	102.73	-6,877.57	3,016.95	7,767.98	7,711.22	56.77	136.844		
4,400.00	3,889.82	4,161.67	4,037.55	37.12	21.97	102.98	-6,875.59	3,021.38	7,782.22	7,724.09	58.12	133.891		
4,500.00	3,970.12	4,258.89	4,134.55	38.36	22.27	103.36	-6,872.85	3,027.19	7,796.86	7,737.28	59.58	130.870		
4,600.00	4,050.41	4,345.34	4,220.85	39.60	22.53	103.70	-6,870.41	3,031.72	7,811.72	7,750.74	60.98	128.096		
4,700.00	4,130.70	4,456.10	4,331.42	40.84	22.87	104.14	-6,867.14	3,037.09	7,826.79	7,764.33	62.46	125.313		
4,800.00	4,210.99	4,557.70	4,432.87	42.08	23.17	104.54	-6,863.89	3,041.69	7,841.97	7,778.07	63.90	122.729		
4,900.00	4,291.29	4,649.76	4,524.81	43.32	23.45	104.91	-6,860.84	3,045.43	7,857.34	7,792.05	65.30	120.330		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,730.94	4,605.89	44.57	23.69	105.23	-6,858.18	3,048.41	7,873.07	7,806.41	66.66	118.113		
5,100.00	4,451.87	4,842.21	4,717.03	45.81	24.01	105.68	-6,854.53	3,052.05	7,889.13	7,821.03	68.10	115.847		
5,200.00	4,532.16	4,989.20	4,863.84	47.05	24.44	106.27	-6,848.62	3,056.45	7,904.84	7,835.21	69.64	113.515		
5,300.00	4,612.46	5,071.43	4,945.97	48.30	24.68	106.60	-6,845.11	3,058.48	7,920.71	7,849.73	70.98	111.598		
5,400.00	4,692.75	5,136.00	5,010.47	49.54	24.86	106.86	-6,842.39	3,059.76	7,936.96	7,864.71	72.26	109.845		
5,500.00	4,773.04	5,181.07	5,055.50	50.79	24.99	107.04	-6,840.67	3,060.54	7,953.90	7,880.43	73.47	108.260		
5,600.00	4,853.34	5,218.16	5,092.57	52.03	25.09	107.19	-6,839.48	3,061.16	7,971.68	7,897.03	74.65	106.783		
5,700.00	4,933.63	5,255.09	5,129.49	53.28	25.19	107.34	-6,838.51	3,061.75	7,990.29	7,914.47	75.83	105.377		
5,800.00	5,013.92	5,310.00	5,184.37	54.53	25.35	107.56	-6,837.47	3,062.59	8,009.78	7,932.74	77.04	103.965		
5,900.00	5,094.21	5,310.00	5,184.37	55.77	25.35	107.56	-6,837.47	3,062.59	8,030.05	7,951.97	78.08	102.839		
6,000.00	5,174.51	5,367.76	5,242.12	57.02	25.50	107.80	-6,836.84	3,063.46	8,051.07	7,971.78	79.29	101.541		
6,100.00	5,254.80	5,405.98	5,280.34	58.27	25.61	107.95	-6,836.68	3,064.06	8,072.94	7,992.51	80.43	100.378		
6,200.00	5,335.09	5,444.10	5,318.45	59.52	25.71	108.10	-6,836.73	3,064.67	8,095.60	8,014.05	81.55	99.269		
6,300.00	5,415.38	5,485.00	5,359.35	60.76	25.82	108.27	-6,837.00	3,065.34	8,119.05	8,036.38	82.68	98.201		
6,400.00	5,495.68	5,556.72	5,431.06	62.01	26.01	108.56	-6,837.70	3,066.42	8,143.12	8,059.23	83.89	97.069		
6,500.00	5,575.97	5,600.00	5,627.21	63.26	28.53	109.35	-6,838.43	3,068.23	8,167.09	8,079.59	87.50	93.338		
6,600.00	5,656.26	5,937.00	5,811.29	64.51	27.04	110.08	-6,836.33	3,069.35	8,189.99	8,102.94	87.04	94.090		
6,700.00	5,736.55	6,006.49	5,880.78	65.76	27.23	110.36	-6,835.24	3,069.71	8,213.03	8,124.79	88.24	93.076		
6,800.00	5,816.85	6,089.03	5,963.30	67.01	27.46	110.69	-6,834.00	3,070.09	8,236.49	8,147.01	89.47	92.057		
6,900.00	5,897.14	6,171.98	6,046.24	68.26	27.69	111.02	-6,832.74	3,070.40	8,260.27	8,169.57	90.70	91.076		
7,000.00	5,977.43	6,268.81	6,143.06	69.50	27.96	111.40	-6,831.17	3,070.65	8,284.32	8,192.36	91.96	90.088		
7,100.00	6,057.72	6,367.70	6,241.93	70.75	28.24	111.79	-6,829.36	3,070.76	8,308.55	8,215.33	93.22	89.130		
7,200.00	6,138.02	6,464.24	6,338.45	72.00	28.51	112.17	-6,827.40	3,070.82	8,332.96	8,238.49	94.47	88.210		
7,300.00	6,218.31	6,563.46	6,437.65	73.25	28.79	112.55	-6,825.18	3,070.94	8,357.55	8,261.83	95.72	87.314		
7,400.00	6,298.60	6,668.72	6,542.87	74.50	29.10	112.96	-6,822.56	3,071.28	8,382.27	8,285.28	96.99	86.427		
7,500.00	6,378.90	6,751.40	6,625.53	75.75	29.34	113.28	-6,820.34	3,071.71	8,407.16	8,308.98	98.18	85.631		
7,600.00	6,459.19	6,820.99	6,695.09	77.00	29.54	113.54	-6,818.54	3,072.07	8,432.47	8,333.14	99.32	84.899		
7,700.00	6,539.48	6,882.00	6,756.08	78.25	29.72	113.78	-6,817.04	3,072.38	8,458.22	8,357.78	100.43	84.218		
7,800.00	6,619.77	6,950.41	6,824.47	79.50	29.92	114.04	-6,815.50	3,072.69	8,484.44	8,382.89	101.56	83.542		
7,900.00	6,700.07	7,011.21	6,885.26	80.75	30.10	114.27	-6,814.27	3,072.93	8,511.19	8,408.54	102.65	82.913		
8,000.00	6,780.36	7,074.63	6,948.67	82.00	30.29	114.51	-6,813.15	3,073.13	8,538.45	8,434.70	103.75	82.301		
8,100.00	6,860.65	7,145.83	7,019.86	83.25	30.50	114.77	-6,811.99	3,073.43	8,566.14	8,461.27	104.86	81.689		
8,200.00	6,940.94	7,217.12	7,091.14	84.50	30.71	115.04	-6,810.92	3,073.83	8,594.23	8,488.26	105.97	81.099		
8,300.00	7,021.24	7,287.38	7,161.39	85.76	30.92	115.30	-6,809.95	3,074.29	8,622.73	8,515.65	107.07	80.532		
8,400.00	7,101.53	7,357.27	7,231.28	87.01	31.13	115.56	-6,809.07	3,074.70	8,651.63	8,543.46	108.17	79.985		
8,500.00	7,181.82	7,433.98	7,307.99	88.26	31.36	115.84	-6,808.19	3,075.10	8,680.93	8,571.65	109.28	79.440		
8,605.60	7,266.61	7,532.05	7,406.04	89.58	31.66	116.20	-6,807.00	3,075.74	8,712.12	8,601.62	110.51	78.838		
8,650.00	7,302.60	7,573.75	7,447.74	90.13	31.79	110.44	-6,806.45	3,076.06	8,723.65	8,612.62	111.03	78.571		
8,700.00	7,343.78	7,612.68	7,486.66	90.72	31.91	103.42	-6,805.94	3,076.37	8,732.70	8,621.10	111.60	78.251		
8,750.00	7,385.32	7,650.58	7,524.56	91.28	32.02	96.09	-6,805.45	3,076.68	8,737.53	8,625.36	112.17	77.895		
8,800.00	7,426.92	7,688.48	7,562.46	91.81	32.14	88.73	-6,804.98	3,076.99	8,738.14	8,625.40	112.74	77.506		
8,850.00	7,468.27	7,726.10	7,600.07	92.29	32.25	81.66	-6,804.53	3,077.29	8,734.50	8,621.20	113.30	77.089		
8,900.00	7,509.04	7,763.74	7,637.71	92.72	32.37	75.12	-6,804.10	3,077.60	8,726.65	8,612.80	113.85	76.648		
8,950.00	7,548.93	7,802.54	7,676.51	93.10	32.49	69.31	-6,803.66	3,077.94	8,714.65	8,600.26	114.39	76.181		
9,000.00	7,587.63	7,840.19	7,714.15	93.43	32.61	64.27	-6,803.25	3,078.29	8,698.57	8,583.66	114.91	75.701		
9,050.00	7,624.85	7,876.39	7,750.34	93.71	32.72	60.02	-6,802.86	3,078.67	8,678.53	8,563.14	115.39	75.208		
9,100.00	7,660.30	7,910.86	7,784.82	93.93	32.82	56.52	-6,802.49	3,079.05	8,654.69	8,538.84	115.85	74.708		
9,150.00	7,693.72	7,947.02	7,820.97	94.10	32.94	53.74	-6,802.11	3,079.47	8,627.20	8,510.92	116.28	74.193		
9,200.00	7,724.85	7,984.94	7,858.88	94.23	33.06	51.64	-6,801.69	3,079.93	8,596.26	8,479.56	116.69	73.665		
9,250.00	7,753.45	8,019.64	7,893.58	94.30	33.17	50.16	-6,801.28	3,080.36	8,562.08	8,445.01	117.07	73.138		
9,300.00	7,779.31	8,050.88	7,924.81	94.34	33.26	49.31	-6,800.89	3,080.75	8,524.92	8,407.52	117.40	72.615		
9,350.00	7,802.23	8,078.40	7,952.33	94.33	33.35	49.13	-6,800.53	3,081.11	8,485.06	8,367.38	117.69	72.098		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,102.01	7,975.93	94.28	33.42	49.71	-6,800.20	3,081.42	8,442.81	8,324.87	117.94	71.587		
9,450.00	7,838.57	8,121.53	7,995.45	94.20	33.49	51.31	-6,799.93	3,081.67	8,398.46	8,280.32	118.15	71.085		
9,500.00	7,851.72	8,136.83	8,010.74	94.10	33.53	54.37	-6,799.71	3,081.88	8,352.36	8,234.05	118.32	70.593		
9,550.00	7,861.37	8,145.41	8,019.33	93.96	33.56	59.88	-6,799.58	3,081.98	8,304.86	8,186.42	118.44	70.118		
9,600.00	7,867.46	8,151.63	8,025.54	93.81	33.58	70.29	-6,799.49	3,082.07	8,256.29	8,137.75	118.54	69.652		
9,650.00	7,869.94	8,153.65	8,027.56	93.64	33.59	91.31	-6,799.46	3,082.09	8,207.03	8,088.43	118.60	69.199		
9,659.14	7,870.00	8,153.56	8,027.48	93.60	33.59	96.97	-6,799.46	3,082.09	8,197.98	8,079.37	118.61	69.118		
9,700.00	7,870.00	8,152.87	8,026.78	93.46	33.58	96.93	-6,799.47	3,082.08	8,157.49	8,038.85	118.64	68.756		
9,800.00	7,870.00	8,151.18	8,025.09	93.11	33.58	96.84	-6,799.50	3,082.06	8,058.43	7,939.70	118.73	67.871		
9,900.00	7,870.00	8,149.50	8,023.41	92.77	33.57	96.76	-6,799.52	3,082.04	7,959.39	7,840.57	118.82	66.985		
10,000.00	7,870.00	8,147.82	8,021.73	92.46	33.57	96.67	-6,799.55	3,082.02	7,860.38	7,741.46	118.92	66.100		
10,100.00	7,870.00	8,146.15	8,020.06	92.16	33.56	96.59	-6,799.57	3,081.99	7,761.39	7,642.38	119.01	65.215		
10,200.00	7,870.00	8,144.48	8,018.40	91.87	33.56	96.50	-6,799.60	3,081.97	7,662.43	7,543.32	119.11	64.329		
10,300.00	7,870.00	8,142.82	8,016.74	91.60	33.55	96.41	-6,799.62	3,081.95	7,563.49	7,444.28	119.22	63.443		
10,400.00	7,870.00	8,141.17	8,015.08	91.34	33.55	96.33	-6,799.65	3,081.93	7,464.59	7,345.26	119.32	62.558		
10,500.00	7,870.00	8,139.52	8,013.44	91.11	33.54	96.24	-6,799.67	3,081.91	7,365.71	7,246.27	119.43	61.672		
10,600.00	7,870.00	8,139.60	8,013.51	90.88	33.54	96.25	-6,799.67	3,081.92	7,266.85	7,147.30	119.55	60.783		
10,700.00	7,870.00	8,137.86	8,011.78	90.67	33.54	96.16	-6,799.69	3,081.89	7,168.04	7,048.37	119.67	59.897		
10,800.00	7,870.00	8,136.13	8,010.05	90.48	33.53	96.07	-6,799.72	3,081.87	7,069.25	6,949.46	119.79	59.012		
10,900.00	7,870.00	8,134.41	8,008.33	90.31	33.53	95.98	-6,799.74	3,081.85	6,970.50	6,850.59	119.92	58.127		
11,000.00	7,870.00	8,132.70	8,006.61	90.15	33.52	95.89	-6,799.77	3,081.82	6,871.79	6,751.74	120.05	57.241		
11,100.00	7,870.00	8,130.99	8,004.91	90.00	33.51	95.81	-6,799.79	3,081.80	6,773.12	6,652.93	120.18	56.356		
11,200.00	7,870.00	8,129.30	8,003.21	89.88	33.51	95.72	-6,799.82	3,081.78	6,674.48	6,554.15	120.32	55.471		
11,300.00	7,870.00	8,127.61	8,001.52	89.77	33.50	95.63	-6,799.84	3,081.76	6,575.88	6,455.41	120.47	54.586		
11,400.00	7,870.00	8,125.93	7,999.84	89.68	33.50	95.54	-6,799.86	3,081.73	6,477.33	6,356.71	120.62	53.701		
11,500.00	7,870.00	8,124.25	7,998.17	89.60	33.49	95.46	-6,799.89	3,081.71	6,378.82	6,258.05	120.77	52.817		
11,600.00	7,870.00	8,122.59	7,996.51	89.55	33.49	95.37	-6,799.91	3,081.69	6,280.36	6,159.42	120.93	51.933		
11,700.00	7,870.00	8,120.93	7,994.85	89.52	33.48	95.29	-6,799.94	3,081.67	6,181.94	6,060.84	121.10	51.049		
11,800.00	7,870.00	8,119.28	7,993.20	89.50	33.48	95.20	-6,799.96	3,081.64	6,083.58	5,962.31	121.27	50.165		
11,900.00	7,870.00	8,117.64	7,991.56	89.51	33.47	95.12	-6,799.98	3,081.62	5,985.27	5,863.82	121.45	49.281		
12,000.00	7,870.00	8,116.00	7,989.92	89.54	33.47	95.03	-6,800.01	3,081.60	5,887.02	5,765.39	121.64	48.398		
12,100.00	7,870.00	8,114.38	7,988.30	89.59	33.46	94.95	-6,800.03	3,081.58	5,788.83	5,667.00	121.83	47.516		
12,200.00	7,870.00	8,112.76	7,986.68	89.66	33.46	94.86	-6,800.05	3,081.56	5,690.70	5,568.67	122.03	46.634		
12,300.00	7,870.00	8,111.15	7,985.07	89.77	33.45	94.78	-6,800.08	3,081.54	5,592.64	5,470.40	122.24	45.752		
12,400.00	7,870.00	8,109.54	7,983.46	89.89	33.45	94.70	-6,800.10	3,081.52	5,494.64	5,372.19	122.45	44.871		
12,500.00	7,870.00	8,107.95	7,981.87	90.05	33.44	94.61	-6,800.12	3,081.49	5,396.72	5,274.04	122.68	43.990		
12,600.00	7,870.00	8,106.36	7,980.28	90.24	33.44	94.53	-6,800.14	3,081.47	5,298.88	5,175.97	122.91	43.110		
12,700.00	7,870.00	8,104.78	7,978.70	90.46	33.43	94.45	-6,800.16	3,081.45	5,201.12	5,077.96	123.16	42.231		
12,800.00	7,870.00	8,103.20	7,977.12	90.71	33.43	94.37	-6,800.19	3,081.43	5,103.44	4,980.03	123.41	41.353		
12,900.00	7,870.00	8,101.63	7,975.56	90.99	33.42	94.29	-6,800.21	3,081.41	5,005.86	4,882.18	123.68	40.475		
13,000.00	7,870.00	8,100.07	7,974.00	91.32	33.42	94.21	-6,800.23	3,081.39	4,908.37	4,784.42	123.95	39.598		
13,100.00	7,870.00	8,098.52	7,972.44	91.68	33.41	94.13	-6,800.25	3,081.37	4,810.99	4,686.74	124.24	38.722		
13,200.00	7,870.00	8,096.97	7,970.90	92.08	33.41	94.05	-6,800.27	3,081.35	4,713.71	4,589.16	124.54	37.848		
13,300.00	7,870.00	8,095.43	7,969.36	92.52	33.40	93.97	-6,800.29	3,081.33	4,616.55	4,491.69	124.86	36.974		
13,400.00	7,870.00	8,093.90	7,967.83	93.00	33.40	93.89	-6,800.32	3,081.31	4,519.51	4,394.32	125.19	36.102		
13,500.00	7,870.00	8,092.38	7,966.30	93.53	33.39	93.81	-6,800.34	3,081.29	4,422.61	4,297.07	125.53	35.231		
13,600.00	7,870.00	8,090.86	7,964.78	94.10	33.39	93.73	-6,800.36	3,081.27	4,325.84	4,199.95	125.89	34.361		
13,700.00	7,870.00	8,089.35	7,963.27	94.72	33.38	93.65	-6,800.38	3,081.25	4,229.23	4,102.96	126.27	33.493		
13,800.00	7,870.00	8,087.84	7,961.77	95.38	33.38	93.57	-6,800.40	3,081.23	4,132.77	4,006.10	126.67	32.626		
13,900.00	7,870.00	8,086.34	7,960.27	96.09	33.37	93.50	-6,800.42	3,081.21	4,036.49	3,909.41	127.09	31.762		
14,000.00	7,870.00	8,084.85	7,958.78	96.84	33.37	93.42	-6,800.44	3,081.19	3,940.40	3,812.87	127.53	30.899		
14,100.00	7,870.00	8,083.37	7,957.29	97.64	33.37	93.34	-6,800.46	3,081.17	3,844.50	3,716.51	127.99	30.038		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,081.89	7,955.81	98.48	33.36	93.26	-6,800.48	3,081.15	3,748.81	3,620.34	128.47	29.180		
14,300.00	7,870.00	8,080.42	7,954.34	99.37	33.36	93.19	-6,800.50	3,081.13	3,653.36	3,524.38	128.98	28.325		
14,400.00	7,870.00	8,078.95	7,952.88	100.30	33.35	93.11	-6,800.52	3,081.11	3,558.15	3,428.63	129.52	27.472		
14,500.00	7,870.00	8,077.49	7,951.42	101.26	33.35	93.04	-6,800.54	3,081.10	3,463.22	3,333.13	130.09	26.622		
14,600.00	7,870.00	8,076.04	7,949.97	102.27	33.34	92.96	-6,800.56	3,081.08	3,368.57	3,237.88	130.69	25.775		
14,700.00	7,870.00	8,074.59	7,948.52	103.31	33.34	92.89	-6,800.58	3,081.06	3,274.25	3,142.92	131.33	24.932		
14,800.00	7,870.00	8,073.16	7,947.08	104.38	33.33	92.81	-6,800.60	3,081.04	3,180.27	3,048.27	132.00	24.093		
14,900.00	7,870.00	8,071.72	7,945.65	105.49	33.33	92.74	-6,800.62	3,081.02	3,086.67	2,953.96	132.71	23.258		
15,000.00	7,870.00	8,070.29	7,944.22	106.63	33.32	92.66	-6,800.63	3,081.00	2,993.48	2,860.01	133.47	22.428		
15,100.00	7,870.00	8,068.87	7,942.80	107.80	33.32	92.59	-6,800.65	3,080.98	2,900.75	2,766.47	134.27	21.603		
15,200.00	7,870.00	8,067.46	7,941.39	109.00	33.32	92.52	-6,800.67	3,080.97	2,808.51	2,673.38	135.13	20.784		
15,300.00	7,870.00	8,066.05	7,939.98	110.22	33.31	92.44	-6,800.69	3,080.95	2,716.82	2,580.79	136.03	19.972		
15,400.00	7,870.00	8,064.65	7,938.58	111.47	33.31	92.37	-6,800.71	3,080.93	2,625.74	2,488.74	137.00	19.166		
15,500.00	7,870.00	8,063.25	7,937.18	112.74	33.30	92.30	-6,800.73	3,080.91	2,535.33	2,397.30	138.03	18.368		
15,600.00	7,870.00	8,061.86	7,935.79	114.03	33.30	92.22	-6,800.75	3,080.89	2,445.67	2,306.54	139.13	17.579		
15,700.00	7,870.00	8,060.48	7,934.41	115.34	33.29	92.15	-6,800.76	3,080.88	2,356.83	2,216.54	140.30	16.799		
15,800.00	7,870.00	8,059.10	7,933.03	116.68	33.29	92.08	-6,800.78	3,080.86	2,268.93	2,127.38	141.54	16.030		
15,900.00	7,870.00	8,057.73	7,931.66	118.02	33.28	92.01	-6,800.80	3,080.84	2,182.07	2,039.19	142.87	15.273		
16,000.00	7,870.00	8,056.36	7,930.29	119.39	33.28	91.94	-6,800.82	3,080.82	2,096.37	1,952.08	144.29	14.529		
16,100.00	7,870.00	8,055.00	7,928.93	120.77	33.28	91.87	-6,800.83	3,080.81	2,012.00	1,866.21	145.79	13.800		
16,200.00	7,870.00	8,053.64	7,927.57	122.17	33.27	91.80	-6,800.85	3,080.79	1,929.12	1,781.73	147.39	13.088		
16,300.00	7,870.00	8,052.29	7,926.22	123.58	33.27	91.73	-6,800.87	3,080.77	1,847.93	1,698.85	149.08	12.395		
16,400.00	7,870.00	8,050.95	7,924.88	125.00	33.26	91.66	-6,800.89	3,080.75	1,768.68	1,617.81	150.87	11.724		
16,500.00	7,870.00	8,049.61	7,923.54	126.43	33.26	91.59	-6,800.90	3,080.74	1,691.62	1,538.88	152.73	11.076		
16,600.00	7,870.00	8,048.28	7,922.21	127.88	33.26	91.52	-6,800.92	3,080.72	1,617.07	1,462.39	154.68	10.455		
16,700.00	7,870.00	8,046.95	7,920.88	129.34	33.25	91.45	-6,800.94	3,080.70	1,545.40	1,388.72	156.67	9.864		
16,800.00	7,870.00	8,045.63	7,919.56	130.81	33.25	91.38	-6,800.96	3,080.69	1,477.02	1,318.32	158.70	9.307		
16,900.00	7,870.00	8,044.31	7,918.25	132.28	33.24	91.31	-6,800.97	3,080.67	1,412.42	1,251.71	160.71	8.789		
17,000.00	7,870.00	8,043.00	7,916.94	133.77	33.24	91.24	-6,800.99	3,080.65	1,352.13	1,189.48	162.65	8.313		
17,100.00	7,870.00	8,041.70	7,915.63	135.27	33.23	91.18	-6,801.01	3,080.64	1,296.76	1,132.32	164.44	7.886		
17,200.00	7,870.00	8,040.40	7,914.33	136.77	33.23	91.11	-6,801.02	3,080.62	1,246.96	1,080.96	166.01	7.512		
17,300.00	7,870.00	8,039.11	7,913.04	138.28	33.23	91.04	-6,801.04	3,080.60	1,203.43	1,036.20	167.23	7.196		
17,400.00	7,870.00	8,037.82	7,911.75	139.80	33.22	90.97	-6,801.05	3,080.59	1,166.86	998.87	167.99	6.946		
17,500.00	7,870.00	8,036.53	7,910.47	141.33	33.22	90.91	-6,801.07	3,080.57	1,137.93	969.74	168.18	6.766		
17,600.00	7,870.00	8,035.26	7,909.19	142.86	33.21	90.84	-6,801.09	3,080.55	1,117.22	949.51	167.71	6.662		
17,700.00	7,870.00	8,033.98	7,907.92	144.40	33.21	90.78	-6,801.10	3,080.54	1,105.21	938.71	166.50	6.638 SF		
17,783.47	7,870.00	8,032.93	7,906.86	145.70	33.21	90.72	-6,801.12	3,080.52	1,102.06	937.13	164.93	6.682 CC, ES		
17,800.00	7,870.00	8,032.72	7,906.65	145.95	33.21	90.71	-6,801.12	3,080.52	1,102.18	937.62	164.56	6.698		
17,900.00	7,870.00	8,031.45	7,905.39	147.50	33.20	90.64	-6,801.13	3,080.51	1,108.20	946.28	161.92	6.844		
18,000.00	7,870.00	8,030.20	7,904.13	149.06	33.20	90.58	-6,801.15	3,080.49	1,123.13	964.45	158.68	7.078		
18,100.00	7,870.00	8,028.95	7,902.88	150.63	33.19	90.51	-6,801.17	3,080.47	1,146.61	991.62	154.99	7.398		
18,200.00	7,870.00	8,027.70	7,901.63	152.20	33.19	90.45	-6,801.18	3,080.46	1,178.14	1,027.13	151.01	7.802		
18,300.00	7,870.00	8,026.46	7,900.39	153.77	33.19	90.38	-6,801.20	3,080.44	1,217.08	1,070.19	146.89	8.286		
18,400.00	7,870.00	8,025.22	7,899.16	155.35	33.18	90.32	-6,801.21	3,080.43	1,262.77	1,119.97	142.79	8.843		
18,500.00	7,870.00	8,023.99	7,897.92	156.93	33.18	90.26	-6,801.23	3,080.41	1,314.48	1,175.66	138.83	9.469		
18,600.00	7,870.00	8,022.76	7,896.70	158.52	33.18	90.19	-6,801.24	3,080.40	1,371.55	1,236.48	135.07	10.154		
18,700.00	7,870.00	8,021.54	7,895.48	160.11	33.17	90.13	-6,801.26	3,080.38	1,433.33	1,301.73	131.60	10.892		
18,800.00	7,870.00	8,020.32	7,894.26	161.71	33.17	90.07	-6,801.27	3,080.37	1,499.23	1,370.82	128.42	11.674		
18,900.00	7,870.00	8,019.11	7,893.05	163.31	33.16	90.00	-6,801.29	3,080.35	1,568.75	1,443.19	125.56	12.494		
19,000.00	7,870.00	8,017.90	7,891.84	164.91	33.16	89.94	-6,801.30	3,080.34	1,641.42	1,518.42	123.00	13.345		
19,100.00	7,870.00	8,016.70	7,890.64	166.52	33.16	89.88	-6,801.32	3,080.32	1,716.83	1,596.10	120.74	14.220		
19,200.00	7,870.00	8,015.50	7,889.44	168.13	33.15	89.81	-6,801.33	3,080.31	1,794.65	1,675.91	118.75	15.113		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 134-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	7,870.00	8,014.31	7,888.25	169.75	33.15	89.75	-6,801.34	3,080.29	1,874.58	1,757.57	117.01	16.021	
19,383.51	7,870.00	8,013.32	7,887.26	171.10	33.15	89.70	-6,801.36	3,080.28	1,942.75	1,827.02	115.73	16.787	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	163.55	-7,146.88	2,109.87	7,451.84					
100.00	100.00	43.55	43.55	0.13	0.08	163.55	-7,146.98	2,110.35	7,452.46	7,452.26	0.20	N/A		
200.00	200.00	85.10	85.07	0.49	0.18	163.54	-7,147.26	2,111.67	7,453.96	7,453.31	0.65	N/A		
300.00	300.00	162.63	162.54	0.85	0.44	163.52	-7,148.01	2,114.56	7,455.95	7,454.67	1.28	5,802.694		
400.00	400.00	227.00	226.87	1.21	0.67	163.50	-7,148.85	2,116.96	7,458.28	7,456.41	1.88	3,974.839		
500.00	500.00	280.79	280.60	1.57	0.87	163.49	-7,149.83	2,119.06	7,461.18	7,458.75	2.43	3,070.651		
600.00	600.00	318.00	317.77	1.93	1.00	163.48	-7,150.73	2,120.61	7,464.79	7,461.87	2.92	2,553.782		
700.00	699.98	375.46	375.14	2.28	1.22	99.56	-7,152.39	2,123.54	7,469.37	7,465.89	3.49	2,141.817		
800.00	799.84	410.00	409.58	2.64	1.35	99.44	-7,153.50	2,125.76	7,475.27	7,471.31	3.97	1,884.251		
900.00	899.45	410.00	409.58	3.00	1.35	99.29	-7,153.50	2,125.76	7,482.91	7,478.58	4.33	1,728.860		
1,000.00	998.70	457.18	456.59	3.37	1.53	99.13	-7,155.63	2,129.14	7,491.72	7,486.85	4.88	1,536.706		
1,100.00	1,097.47	502.00	501.18	3.76	1.70	98.96	-7,158.67	2,132.56	7,502.54	7,497.11	5.43	1,381.744		
1,200.00	1,195.62	502.00	501.18	4.18	1.70	98.72	-7,158.67	2,132.56	7,514.58	7,508.74	5.84	1,286.763		
1,300.00	1,293.06	502.00	501.18	4.63	1.70	98.44	-7,158.67	2,132.56	7,528.44	7,522.17	6.28	1,199.282		
1,400.00	1,389.64	549.50	548.33	5.11	1.89	98.21	-7,162.76	2,136.59	7,543.56	7,536.63	6.93	1,088.863		
1,500.00	1,485.27	594.00	592.40	5.63	2.08	97.95	-7,167.20	2,140.90	7,560.33	7,552.73	7.60	994.131		
1,600.00	1,579.82	594.00	592.40	6.20	2.08	97.59	-7,167.20	2,140.90	7,578.37	7,570.22	8.15	929.337		
1,700.00	1,673.17	635.34	633.23	6.83	2.25	97.28	-7,171.71	2,145.50	7,597.81	7,588.90	8.92	852.180		
1,800.00	1,765.21	686.00	683.12	7.51	2.47	96.98	-7,177.57	2,152.07	7,618.63	7,608.86	9.76	780.212		
1,900.00	1,855.84	713.73	710.36	8.24	2.60	96.61	-7,180.86	2,156.08	7,640.55	7,629.97	10.58	722.043		
2,000.00	1,944.94	778.00	773.35	9.05	2.90	96.31	-7,188.39	2,166.36	7,663.46	7,651.85	11.61	660.069		
2,100.00	2,032.39	807.30	801.99	9.91	3.04	95.90	-7,191.88	2,171.43	7,687.42	7,674.87	12.55	612.338		
2,200.00	2,118.11	855.00	848.53	10.85	3.27	95.53	-7,198.01	2,179.96	7,712.69	7,699.05	13.64	565.438		
2,300.00	2,201.97	855.00	848.53	11.85	3.27	94.98	-7,198.01	2,179.96	7,739.03	7,724.46	14.57	531.067		
2,400.00	2,283.88	899.10	891.43	12.93	3.50	94.57	-7,204.10	2,188.16	7,766.54	7,750.76	15.77	492.380		
2,429.47	2,307.63	908.77	900.82	13.26	3.55	94.43	-7,205.48	2,189.99	7,774.86	7,758.74	16.12	482.240		
2,500.00	2,364.26	942.00	933.07	14.06	3.72	94.55	-7,210.33	2,196.39	7,795.11	7,778.10	17.02	458.128		
2,600.00	2,444.56	942.00	933.07	15.22	3.72	94.55	-7,210.33	2,196.39	7,824.57	7,806.50	18.07	433.072		
2,700.00	2,524.85	987.79	977.40	16.39	3.97	94.71	-7,217.42	2,205.39	7,854.77	7,835.42	19.35	405.925		
2,800.00	2,605.14	1,036.00	1,023.95	17.57	4.23	94.89	-7,225.46	2,215.03	7,886.00	7,865.34	20.66	381.779		
2,900.00	2,685.43	1,036.00	1,023.95	18.76	4.23	94.89	-7,225.46	2,215.03	7,917.91	7,896.19	21.72	364.604		
3,000.00	2,765.73	1,091.20	1,077.14	19.96	4.54	95.08	-7,235.16	2,226.15	7,950.60	7,927.54	23.06	344.737		
3,100.00	2,846.02	1,201.00	1,183.03	21.16	5.15	95.48	-7,254.51	2,247.79	7,983.43	7,958.73	24.70	323.211		
3,200.00	2,926.31	1,252.02	1,232.25	22.37	5.44	95.66	-7,263.40	2,257.86	8,016.51	7,990.47	26.03	307.928		
3,300.00	3,006.60	1,289.00	1,267.78	23.59	5.66	95.79	-7,270.14	2,265.56	8,050.49	8,023.20	27.29	294.999		
3,400.00	3,086.90	1,326.97	1,304.19	24.81	5.88	95.92	-7,277.23	2,273.67	8,085.18	8,056.63	28.55	283.160		
3,500.00	3,167.19	1,376.00	1,351.16	26.03	6.17	96.09	-7,286.52	2,284.25	8,120.44	8,090.57	29.88	271.795		
3,600.00	3,247.48	1,435.97	1,408.53	27.25	6.54	96.29	-7,298.07	2,297.36	8,156.22	8,124.95	31.27	260.866		
3,700.00	3,327.77	1,463.00	1,434.36	28.48	6.70	96.38	-7,303.33	2,303.35	8,192.56	8,160.10	32.46	252.410		
3,800.00	3,408.07	1,509.09	1,478.33	29.71	6.99	96.53	-7,312.54	2,313.64	8,229.53	8,195.77	33.76	243.762		
3,900.00	3,488.36	1,550.00	1,517.26	30.94	7.25	96.67	-7,321.07	2,322.86	8,267.31	8,232.28	35.03	236.021		
4,000.00	3,568.65	1,578.84	1,544.65	32.17	7.43	96.77	-7,327.23	2,329.44	8,305.75	8,269.53	36.22	229.329		
4,100.00	3,648.95	1,638.00	1,600.74	33.41	7.82	96.96	-7,340.09	2,343.20	8,344.81	8,307.22	37.59	221.966		
4,200.00	3,729.24	1,638.00	1,600.74	34.64	7.82	96.96	-7,340.09	2,343.20	8,384.50	8,345.92	38.59	217.293		
4,300.00	3,809.53	1,685.51	1,645.64	35.88	8.13	97.11	-7,350.77	2,354.50	8,424.80	8,384.92	39.88	211.238		
4,400.00	3,889.82	1,725.00	1,682.82	37.12	8.40	97.24	-7,360.01	2,364.03	8,465.90	8,424.78	41.12	205.877		
4,500.00	3,970.12	2,222.35	2,155.16	38.36	11.64	98.80	-7,464.09	2,479.52	8,503.90	8,458.49	45.41	187.281		
4,600.00	4,050.41	2,271.70	2,202.34	39.60	11.95	98.95	-7,473.52	2,490.49	8,541.58	8,494.85	46.73	182.793		
4,700.00	4,130.70	2,310.82	2,239.64	40.84	12.20	99.07	-7,481.15	2,499.47	8,579.86	8,531.88	47.98	178.823		
4,800.00	4,210.99	2,353.47	2,280.21	42.08	12.48	99.20	-7,489.64	2,509.54	8,618.74	8,569.49	49.25	175.002		
4,900.00	4,291.29	2,598.00	2,513.95	43.32	14.02	99.96	-7,537.35	2,563.14	8,657.36	8,605.51	51.85	166.969		
5,000.00	4,371.58	2,654.07	2,567.79	44.57	14.36	100.13	-7,547.73	2,574.86	8,695.19	8,641.99	53.20	163.443		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,451.87	2,685.00	2,597.41	45.81	14.55	100.22	-7,553.65	2,581.50	8,733.75	8,679.37	54.38	160.605		
5,200.00	4,532.16	2,742.01	2,651.86	47.05	14.92	100.39	-7,564.77	2,594.21	8,772.85	8,717.11	55.74	157.396		
5,300.00	4,612.46	5,300.00	2,845.71	48.30	31.45	100.98	-7,602.96	2,642.86	8,811.56	8,740.55	71.01	124.086		
5,400.00	4,692.75	3,000.23	2,897.94	49.54	16.58	101.13	-7,612.93	2,655.89	8,850.06	8,790.58	59.48	148.791		
5,500.00	4,773.04	3,035.00	2,931.12	50.79	16.81	101.23	-7,619.46	2,663.94	8,889.14	8,828.45	60.68	146.486		
5,600.00	4,853.34	3,073.72	2,968.06	52.03	17.06	101.34	-7,626.94	2,672.84	8,928.81	8,866.90	61.91	144.234		
5,700.00	4,933.63	3,122.00	3,014.01	53.28	17.37	101.48	-7,636.61	2,684.07	8,969.16	8,905.97	63.19	141.939		
5,800.00	5,013.92	3,122.00	3,014.01	54.53	17.37	101.48	-7,636.61	2,684.07	9,010.10	8,945.98	64.12	140.526		
5,900.00	5,094.21	3,169.14	3,058.77	55.77	17.68	101.61	-7,646.44	2,695.10	9,051.64	8,986.25	65.38	138.443		
6,000.00	5,174.51	3,209.00	3,096.56	57.02	17.95	101.72	-7,655.07	2,704.39	9,093.85	9,027.26	66.59	136.573		
6,100.00	5,254.80	3,209.00	3,096.56	58.27	17.95	101.72	-7,655.07	2,704.39	9,136.73	9,069.25	67.48	135.398		
6,200.00	5,335.09	3,247.30	3,132.78	59.52	18.21	101.83	-7,663.71	2,713.37	9,180.21	9,111.55	68.66	133.708		
6,300.00	5,415.38	3,296.00	3,178.64	60.76	18.55	101.96	-7,675.28	2,724.94	9,224.55	9,154.64	69.91	131.945		
6,400.00	5,495.68	3,638.85	3,501.74	62.01	20.93	102.86	-7,750.87	2,811.08	9,268.07	9,194.55	73.52	126.061		
6,500.00	5,575.97	3,675.46	3,536.29	63.26	21.19	102.96	-7,758.46	2,820.52	9,310.42	9,235.72	74.70	124.637		
6,600.00	5,656.26	3,707.28	3,566.30	64.51	21.41	103.04	-7,765.25	2,828.62	9,353.36	9,277.53	75.83	123.340		
6,700.00	5,736.55	3,733.00	3,590.55	65.76	21.59	103.10	-7,770.87	2,835.09	9,396.89	9,319.98	76.91	122.181		
6,800.00	5,816.85	3,778.37	3,633.30	67.01	21.90	103.22	-7,781.01	2,846.39	9,440.95	9,362.82	78.14	120.828		
6,900.00	5,897.14	3,820.00	3,672.51	68.26	22.19	103.33	-7,790.54	2,856.64	9,485.54	9,406.22	79.32	119.579		
7,000.00	5,977.43	3,871.66	3,721.12	69.50	22.56	103.46	-7,802.57	2,869.34	9,530.57	9,449.97	80.59	118.258		
7,100.00	6,057.72	6,379.01	6,169.69	70.75	33.67	111.05	-8,089.37	3,160.58	9,568.41	9,473.71	94.69	101.045		
7,200.00	6,138.02	6,478.59	6,269.27	72.00	33.86	111.39	-8,088.37	3,159.41	9,593.17	9,497.18	95.99	99.940		
7,300.00	6,218.31	6,583.72	6,374.38	73.25	34.07	111.76	-8,087.06	3,158.14	9,618.05	9,520.76	97.29	98.858		
7,400.00	6,298.60	6,692.94	6,483.58	74.50	34.29	112.14	-8,085.39	3,157.03	9,643.02	9,544.42	98.60	97.800		
7,500.00	6,378.90	6,768.86	6,559.49	75.75	34.45	112.40	-8,084.12	3,156.43	9,668.17	9,568.34	99.83	96.847		
7,600.00	6,459.19	6,842.30	6,632.91	77.00	34.60	112.65	-8,082.95	3,156.00	9,693.68	9,592.63	101.05	95.932		
7,700.00	6,539.48	6,909.75	6,700.36	78.25	34.75	112.87	-8,081.93	3,155.77	9,719.56	9,617.31	102.25	95.058		
7,800.00	6,619.77	6,972.24	6,762.84	79.50	34.89	113.08	-8,081.11	3,155.80	9,745.87	9,642.43	103.44	94.221		
7,900.00	6,700.07	7,034.97	6,825.57	80.75	35.03	113.29	-8,080.40	3,156.07	9,772.61	9,667.99	104.62	93.413		
8,000.00	6,780.36	7,092.82	6,883.41	82.00	35.18	113.48	-8,079.87	3,156.54	9,799.80	9,694.01	105.79	92.637		
8,100.00	6,860.65	7,149.24	6,939.82	83.25	35.32	113.66	-8,079.50	3,157.22	9,827.47	9,720.52	106.95	91.889		
8,200.00	6,940.94	7,205.84	6,996.42	84.50	35.46	113.85	-8,079.28	3,158.12	9,855.60	9,747.50	108.10	91.168		
8,300.00	7,021.24	7,268.47	7,059.04	85.76	35.63	114.05	-8,079.20	3,159.35	9,884.19	9,774.91	109.28	90.450		
8,400.00	7,101.53	7,334.26	7,124.81	87.01	35.81	114.26	-8,079.23	3,160.86	9,913.17	9,802.71	110.46	89.745		
8,500.00	7,181.82	7,400.00	7,190.53	88.26	35.99	114.46	-8,079.37	3,162.58	9,942.53	9,830.89	111.63	89.064		
8,605.60	7,266.61	7,464.23	7,254.73	89.58	36.17	114.66	-8,079.65	3,164.56	9,973.96	9,861.10	112.86	88.375		
8,650.00	7,302.60	7,491.53	7,282.01	90.13	36.25	108.87	-8,079.82	3,165.52	9,985.66	9,872.28	113.38	88.072		
8,700.00	7,343.78	7,522.86	7,313.31	90.72	36.34	101.83	-8,080.06	3,166.70	9,994.94	9,880.96	113.98	87.691		
8,850.00	7,468.27	7,622.49	7,412.84	92.29	36.64	79.95	-8,081.06	3,171.12	9,997.45	9,881.64	115.81	86.324		
8,900.00	7,509.04	7,657.05	7,447.35	92.72	36.75	73.35	-8,081.48	3,172.91	9,989.82	9,873.40	116.41	85.812		
8,950.00	7,548.93	7,691.08	7,481.32	93.10	36.86	67.45	-8,081.93	3,174.81	9,978.01	9,861.01	117.00	85.285		
9,000.00	7,587.63	7,724.32	7,514.51	93.43	36.96	62.31	-8,082.41	3,176.79	9,962.11	9,844.56	117.55	84.746		
9,050.00	7,624.85	7,759.49	7,549.60	93.71	37.07	57.95	-8,082.95	3,179.01	9,942.24	9,824.15	118.09	84.192		
9,100.00	7,660.30	7,802.27	7,592.30	93.93	37.21	54.35	-8,083.60	3,181.66	9,918.50	9,799.87	118.63	83.608		
9,150.00	7,693.72	7,842.49	7,632.44	94.10	37.34	51.42	-8,084.17	3,184.02	9,891.07	9,771.94	119.13	83.026		
9,200.00	7,724.85	7,879.85	7,669.74	94.23	37.46	49.10	-8,084.67	3,186.10	9,860.14	9,740.55	119.59	82.450		
9,250.00	7,753.45	7,914.11	7,703.94	94.30	37.57	47.36	-8,085.11	3,187.92	9,825.95	9,705.95	120.00	81.881		
9,300.00	7,779.31	7,945.02	7,734.82	94.34	37.67	46.18	-8,085.48	3,189.47	9,788.76	9,668.39	120.37	81.322		
9,350.00	7,802.23	7,951.18	7,740.96	94.33	37.68	45.44	-8,085.58	3,189.78	9,748.89	9,628.28	120.61	80.831		
9,400.00	7,822.03	7,964.80	7,754.57	94.28	37.73	45.38	-8,085.77	3,190.45	9,706.60	9,585.76	120.84	80.323		
9,450.00	7,838.57	7,976.28	7,766.04	94.20	37.76	46.08	-8,085.94	3,191.01	9,662.21	9,541.17	121.04	79.824		
9,500.00	7,851.72	7,985.54	7,775.28	94.10	37.79	47.88	-8,086.08	3,191.46	9,616.04	9,494.84	121.21	79.336		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,550.00	7,861.37	7,992.50	7,782.23	93.96	37.81	51.55	-8,086.19	3,191.79	9,568.44	9,447.10	121.34	78.859		
9,600.00	7,867.46	7,997.09	7,786.81	93.81	37.83	59.19	-8,086.26	3,192.00	9,519.74	9,398.31	121.43	78.396		
9,650.00	7,869.94	7,999.27	7,788.99	93.64	37.83	77.92	-8,086.30	3,192.11	9,470.31	9,348.82	121.50	77.947		
9,659.14	7,870.00	7,999.40	7,789.13	93.60	37.83	83.99	-8,086.30	3,192.11	9,461.23	9,339.73	121.51	77.866		
9,700.00	7,870.00	7,999.83	7,789.55	93.46	37.84	84.01	-8,086.31	3,192.13	9,420.59	9,299.05	121.54	77.508		
9,800.00	7,870.00	8,000.88	7,790.60	93.11	37.84	84.07	-8,086.32	3,192.18	9,321.16	9,199.52	121.64	76.632		
9,900.00	7,870.00	8,001.93	7,791.66	92.77	37.84	84.13	-8,086.34	3,192.23	9,221.73	9,100.00	121.73	75.755		
10,000.00	7,870.00	8,003.00	7,792.72	92.46	37.85	84.19	-8,086.36	3,192.28	9,122.31	9,000.49	121.83	74.879		
10,100.00	7,870.00	8,004.07	7,793.79	92.16	37.85	84.25	-8,086.38	3,192.33	9,022.91	8,900.98	121.93	74.002		
10,200.00	7,870.00	8,005.14	7,794.86	91.87	37.85	84.31	-8,086.39	3,192.38	8,923.52	8,801.49	122.03	73.125		
10,300.00	7,870.00	8,006.23	7,795.94	91.60	37.86	84.38	-8,086.41	3,192.43	8,824.15	8,702.01	122.14	72.248		
10,400.00	7,870.00	8,007.32	7,797.03	91.34	37.86	84.44	-8,086.43	3,192.48	8,724.79	8,602.54	122.24	71.371		
10,500.00	7,870.00	8,008.42	7,798.13	91.11	37.86	84.50	-8,086.45	3,192.53	8,625.44	8,503.09	122.36	70.494		
10,600.00	7,870.00	8,009.53	7,799.24	90.88	37.87	84.57	-8,086.47	3,192.59	8,526.11	8,403.64	122.47	69.617		
10,700.00	7,870.00	8,010.64	7,800.35	90.67	37.87	84.63	-8,086.48	3,192.64	8,426.79	8,304.21	122.59	68.740		
10,800.00	7,870.00	8,011.76	7,801.47	90.48	37.87	84.69	-8,086.50	3,192.69	8,327.50	8,204.78	122.71	67.863		
10,900.00	7,870.00	8,012.89	7,802.60	90.31	37.88	84.76	-8,086.52	3,192.74	8,228.21	8,105.38	122.83	66.986		
11,000.00	7,870.00	8,014.03	7,803.74	90.15	37.88	84.82	-8,086.54	3,192.80	8,128.95	8,005.98	122.96	66.109		
11,100.00	7,870.00	8,015.18	7,804.88	90.00	37.88	84.89	-8,086.56	3,192.85	8,029.70	7,906.60	123.09	65.232		
11,200.00	7,870.00	8,016.33	7,806.04	89.88	37.89	84.96	-8,086.58	3,192.90	7,930.47	7,807.24	123.23	64.355		
11,300.00	7,870.00	8,017.49	7,807.20	89.77	37.89	85.02	-8,086.60	3,192.96	7,831.26	7,707.89	123.37	63.478		
11,400.00	7,870.00	8,018.66	7,808.37	89.68	37.90	85.09	-8,086.62	3,193.01	7,732.07	7,608.56	123.51	62.601		
11,500.00	7,870.00	8,019.84	7,809.54	89.60	37.90	85.16	-8,086.64	3,193.06	7,632.90	7,509.24	123.66	61.724		
11,600.00	7,870.00	8,021.03	7,810.73	89.55	37.90	85.23	-8,086.66	3,193.12	7,533.76	7,409.94	123.81	60.847		
11,700.00	7,870.00	8,022.23	7,811.92	89.52	37.91	85.29	-8,086.68	3,193.17	7,434.63	7,310.66	123.97	59.971		
11,800.00	7,870.00	8,023.43	7,813.13	89.50	37.91	85.36	-8,086.70	3,193.23	7,335.53	7,211.40	124.13	59.095		
11,900.00	7,870.00	8,024.64	7,814.34	89.51	37.91	85.43	-8,086.72	3,193.28	7,236.46	7,112.16	124.30	58.218		
12,000.00	7,870.00	8,025.87	7,815.56	89.54	37.92	85.50	-8,086.74	3,193.34	7,137.41	7,012.94	124.47	57.342		
12,100.00	7,870.00	8,027.10	7,816.79	89.59	37.92	85.57	-8,086.77	3,193.40	7,038.38	6,913.73	124.65	56.467		
12,200.00	7,870.00	8,028.34	7,818.03	89.66	37.93	85.65	-8,086.79	3,193.45	6,939.39	6,814.56	124.83	55.591		
12,300.00	7,870.00	8,029.59	7,819.28	89.77	37.93	85.72	-8,086.81	3,193.51	6,840.42	6,715.40	125.02	54.716		
12,400.00	7,870.00	8,030.85	7,820.53	89.89	37.93	85.79	-8,086.83	3,193.57	6,741.48	6,616.27	125.21	53.841		
12,500.00	7,870.00	8,032.11	7,821.80	90.05	37.94	85.86	-8,086.86	3,193.62	6,642.57	6,517.16	125.41	52.966		
12,600.00	7,870.00	8,033.39	7,823.07	90.24	37.94	85.94	-8,086.88	3,193.68	6,543.70	6,418.08	125.62	52.091		
12,700.00	7,870.00	8,034.68	7,824.36	90.46	37.95	86.01	-8,086.90	3,193.74	6,444.86	6,319.03	125.83	51.217		
12,800.00	7,870.00	8,035.97	7,825.65	90.71	37.95	86.09	-8,086.92	3,193.80	6,346.06	6,220.01	126.05	50.344		
12,900.00	7,870.00	8,037.28	7,826.96	90.99	37.95	86.16	-8,086.95	3,193.86	6,247.30	6,121.01	126.28	49.470		
13,000.00	7,870.00	8,038.60	7,828.27	91.32	37.96	86.24	-8,086.97	3,193.92	6,148.57	6,022.05	126.52	48.598		
13,100.00	7,870.00	8,039.92	7,829.60	91.68	37.96	86.31	-8,087.00	3,193.98	6,049.89	5,923.12	126.77	47.725		
13,200.00	7,870.00	8,041.26	7,830.93	92.08	37.97	86.39	-8,087.02	3,194.04	5,951.25	5,824.23	127.02	46.853		
13,300.00	7,870.00	8,042.60	7,832.28	92.52	37.97	86.47	-8,087.04	3,194.10	5,852.65	5,725.37	127.28	45.982		
13,400.00	7,870.00	8,043.96	7,833.63	93.00	37.97	86.55	-8,087.07	3,194.16	5,754.11	5,626.55	127.55	45.111		
13,500.00	7,870.00	8,045.33	7,835.00	93.53	37.98	86.63	-8,087.09	3,194.22	5,655.61	5,527.77	127.84	44.241		
13,600.00	7,870.00	8,046.70	7,836.37	94.10	37.98	86.71	-8,087.12	3,194.28	5,557.17	5,429.04	128.13	43.372		
13,700.00	7,870.00	8,048.09	7,837.76	94.72	37.99	86.79	-8,087.15	3,194.34	5,458.78	5,330.35	128.43	42.503		
13,800.00	7,870.00	8,049.49	7,839.16	95.38	37.99	86.87	-8,087.17	3,194.41	5,360.45	5,231.70	128.75	41.635		
13,900.00	7,870.00	8,050.90	7,840.57	96.09	38.00	86.95	-8,087.20	3,194.47	5,262.19	5,133.11	129.08	40.768		
14,000.00	7,870.00	8,052.32	7,841.98	96.84	38.00	87.03	-8,087.23	3,194.53	5,163.99	5,034.57	129.42	39.902		
14,100.00	7,870.00	8,053.75	7,843.41	97.64	38.01	87.11	-8,087.25	3,194.59	5,065.86	4,936.09	129.77	39.036		
14,200.00	7,870.00	8,055.20	7,844.86	98.48	38.01	87.20	-8,087.28	3,194.66	4,967.81	4,837.66	130.14	38.172		
14,300.00	7,870.00	8,056.65	7,846.31	99.37	38.01	87.28	-8,087.31	3,194.72	4,869.83	4,739.30	130.53	37.309		
14,400.00	7,870.00	8,058.12	7,847.77	100.30	38.02	87.37	-8,087.34	3,194.79	4,771.94	4,641.01	130.93	36.446		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,500.00	7,870.00	8,059.60	7,849.25	101.26	38.02	87.45	-8,087.36	3,194.85	4,674.14	4,542.79	131.35	35.585		
14,600.00	7,870.00	8,061.09	7,850.74	102.27	38.03	87.54	-8,087.39	3,194.92	4,576.43	4,444.64	131.79	34.726		
14,700.00	7,870.00	8,062.59	7,852.24	103.31	38.03	87.63	-8,087.42	3,194.98	4,478.82	4,346.57	132.25	33.867		
14,800.00	7,870.00	8,064.10	7,853.75	104.38	38.04	87.71	-8,087.45	3,195.05	4,381.31	4,248.59	132.72	33.011		
14,900.00	7,870.00	8,065.63	7,855.28	105.49	38.04	87.80	-8,087.48	3,195.12	4,283.93	4,150.70	133.23	32.155		
15,000.00	7,870.00	8,067.17	7,856.81	106.63	38.05	87.89	-8,087.51	3,195.18	4,186.66	4,052.91	133.75	31.302		
15,100.00	7,870.00	8,068.72	7,858.36	107.80	38.05	87.98	-8,087.54	3,195.25	4,089.53	3,955.23	134.30	30.450		
15,200.00	7,870.00	8,070.28	7,859.93	109.00	38.06	88.07	-8,087.57	3,195.32	3,992.54	3,857.65	134.88	29.600		
15,300.00	7,870.00	8,071.86	7,861.50	110.22	38.06	88.16	-8,087.60	3,195.39	3,895.69	3,760.20	135.49	28.753		
15,400.00	7,870.00	8,073.45	7,863.09	111.47	38.07	88.26	-8,087.63	3,195.46	3,799.01	3,662.89	136.13	27.907		
15,500.00	7,870.00	8,075.06	7,864.69	112.74	38.07	88.35	-8,087.67	3,195.53	3,702.51	3,565.71	136.80	27.064		
15,600.00	7,870.00	8,076.67	7,866.31	114.03	38.08	88.44	-8,087.70	3,195.60	3,606.20	3,468.68	137.51	26.224		
15,700.00	7,870.00	8,078.30	7,867.93	115.34	38.08	88.54	-8,087.73	3,195.67	3,510.09	3,371.83	138.26	25.387		
15,800.00	7,870.00	8,079.95	7,869.58	116.68	38.09	88.63	-8,087.76	3,195.74	3,414.20	3,275.15	139.06	24.553		
15,900.00	7,870.00	8,081.60	7,871.23	118.02	38.09	88.73	-8,087.80	3,195.81	3,318.56	3,178.67	139.89	23.722		
16,000.00	7,870.00	8,083.28	7,872.90	119.39	38.10	88.83	-8,087.83	3,195.88	3,223.18	3,082.40	140.78	22.895		
16,100.00	7,870.00	8,084.96	7,874.59	120.77	38.10	88.93	-8,087.87	3,195.95	3,128.09	2,986.37	141.72	22.072		
16,200.00	7,870.00	8,086.66	7,876.29	122.17	38.11	89.03	-8,087.90	3,196.03	3,033.31	2,890.59	142.72	21.254		
16,300.00	7,870.00	8,088.38	7,878.00	123.58	38.11	89.12	-8,087.94	3,196.10	2,938.87	2,795.09	143.78	20.440		
16,400.00	7,870.00	8,090.11	7,879.73	125.00	38.12	89.23	-8,087.97	3,196.17	2,844.82	2,699.91	144.91	19.632		
16,500.00	7,870.00	8,091.86	7,881.47	126.43	38.13	89.33	-8,088.01	3,196.25	2,751.18	2,605.07	146.11	18.829		
16,600.00	7,870.00	8,093.62	7,883.23	127.88	38.13	89.43	-8,088.05	3,196.32	2,658.01	2,510.61	147.40	18.033		
16,700.00	7,870.00	8,095.39	7,885.01	129.34	38.14	89.53	-8,088.08	3,196.40	2,565.35	2,416.58	148.77	17.244		
16,800.00	7,870.00	8,097.18	7,886.80	130.81	38.14	89.64	-8,088.12	3,196.47	2,473.26	2,323.02	150.24	16.463		
16,900.00	7,870.00	8,099.42	7,889.03	132.28	38.15	89.77	-8,088.17	3,196.57	2,381.80	2,229.99	151.81	15.689		
17,000.00	7,870.00	8,101.98	7,891.58	133.77	38.16	89.92	-8,088.22	3,196.67	2,291.06	2,137.56	153.50	14.926		
17,100.00	7,870.00	8,104.46	7,894.06	135.27	38.16	90.06	-8,088.27	3,196.78	2,201.11	2,045.81	155.30	14.173		
17,200.00	7,870.00	8,106.89	7,896.49	136.77	38.17	90.20	-8,088.32	3,196.88	2,112.07	1,954.83	157.24	13.432		
17,300.00	7,870.00	8,109.26	7,898.85	138.28	38.18	90.34	-8,088.37	3,196.98	2,024.05	1,864.73	159.32	12.704		
17,400.00	7,870.00	8,111.57	7,901.16	139.80	38.19	90.48	-8,088.42	3,197.07	1,937.19	1,775.65	161.55	11.991		
17,500.00	7,870.00	8,113.82	7,903.41	141.33	38.19	90.61	-8,088.46	3,197.17	1,851.66	1,687.73	163.93	11.295		
17,600.00	7,870.00	8,116.02	7,905.61	142.86	38.20	90.74	-8,088.50	3,197.26	1,767.64	1,601.16	166.48	10.618		
17,700.00	7,870.00	8,118.18	7,907.76	144.40	38.21	90.86	-8,088.54	3,197.35	1,685.37	1,516.17	169.20	9.961		
17,800.00	7,870.00	8,120.28	7,909.87	145.95	38.21	90.99	-8,088.58	3,197.44	1,605.10	1,433.03	172.07	9.328		
17,900.00	7,870.00	8,122.33	7,911.92	147.50	38.22	91.11	-8,088.62	3,197.52	1,527.17	1,352.06	175.11	8.721		
18,000.00	7,870.00	8,124.34	7,913.93	149.06	38.22	91.22	-8,088.66	3,197.60	1,451.94	1,273.67	178.27	8.144		
18,100.00	7,870.00	8,126.31	7,915.89	150.63	38.23	91.34	-8,088.70	3,197.68	1,379.86	1,198.32	181.53	7.601		
18,200.00	7,870.00	8,128.23	7,917.81	152.20	38.24	91.45	-8,088.73	3,197.76	1,311.44	1,126.61	184.82	7.096		
18,300.00	7,870.00	8,130.11	7,919.69	153.77	38.24	91.56	-8,088.76	3,197.84	1,247.29	1,059.23	188.06	6.633		
18,400.00	7,870.00	8,131.95	7,921.53	155.35	38.25	91.67	-8,088.80	3,197.92	1,188.10	997.00	191.10	6.217		
18,500.00	7,870.00	8,133.75	7,923.33	156.93	38.25	91.77	-8,088.83	3,197.99	1,134.65	940.86	193.79	5.855		
18,600.00	7,870.00	8,135.52	7,925.09	158.52	38.26	91.88	-8,088.86	3,198.06	1,087.78	891.86	195.92	5.552		
18,700.00	7,870.00	8,137.24	7,926.81	160.11	38.26	91.98	-8,088.89	3,198.13	1,048.38	851.13	197.25	5.315		
18,800.00	7,870.00	8,138.94	7,928.50	161.71	38.27	92.07	-8,088.92	3,198.20	1,017.32	819.78	197.54	5.150		
18,900.00	7,870.00	8,140.59	7,930.16	163.31	38.27	92.17	-8,088.95	3,198.27	995.37	798.78	196.58	5.063		
19,000.00	7,870.00	8,142.22	7,931.78	164.91	38.28	92.27	-8,088.97	3,198.34	983.15	788.88	194.27	5.061 SF		
19,070.94	7,870.00	8,143.35	7,932.91	166.05	38.28	92.33	-8,088.99	3,198.38	980.58	788.79	191.79	5.113 CC, ES		
19,100.00	7,870.00	8,143.81	7,933.37	166.52	38.28	92.36	-8,089.00	3,198.40	981.01	790.43	190.59	5.147		
19,200.00	7,870.00	8,145.37	7,934.93	168.13	38.29	92.45	-8,089.03	3,198.46	989.04	803.35	185.69	5.326		
19,300.00	7,870.00	8,146.90	7,936.46	169.75	38.29	92.54	-8,089.05	3,198.53	1,006.97	827.14	179.84	5.599		
19,383.51	7,870.00	8,148.15	7,937.71	171.10	38.30	92.61	-8,089.07	3,198.58	1,029.18	854.73	174.45	5.899		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	11.82	11.82	0.00	0.02	163.65	-7,163.65	2,102.04	7,465.69					
100.00	100.00	64.88	64.88	0.13	0.13	163.64	-7,163.83	2,102.32	7,466.16	7,465.89	0.27	N/A		
200.00	200.00	135.00	134.99	0.49	0.39	163.64	-7,164.34	2,103.45	7,467.26	7,466.38	0.88	8,508.782		
300.00	300.00	179.79	179.76	0.85	0.55	163.63	-7,164.81	2,104.59	7,468.89	7,467.49	1.40	5,342.772		
400.00	400.00	227.00	226.94	1.21	0.72	163.62	-7,165.42	2,106.04	7,471.09	7,469.16	1.93	3,877.910		
500.00	500.00	265.91	265.82	1.57	0.86	163.61	-7,166.12	2,107.66	7,474.06	7,471.64	2.43	3,079.469		
600.00	600.00	318.00	317.79	1.93	1.05	163.59	-7,167.47	2,110.78	7,478.04	7,475.07	2.97	2,513.950		
700.00	699.98	318.00	317.79	2.28	1.05	99.67	-7,167.47	2,110.78	7,483.09	7,479.76	3.33	2,247.754		
800.00	799.84	351.00	350.68	2.64	1.18	99.54	-7,168.67	2,113.24	7,489.75	7,485.94	3.81	1,968.155		
900.00	899.45	375.14	374.71	3.00	1.27	99.38	-7,169.80	2,115.21	7,498.01	7,493.76	4.26	1,761.938		
1,000.00	998.70	410.00	409.37	3.37	1.41	99.20	-7,171.80	2,118.32	7,507.88	7,503.12	4.76	1,578.551		
1,100.00	1,097.47	410.00	409.37	3.76	1.41	98.97	-7,171.80	2,118.32	7,519.28	7,514.13	5.14	1,461.702		
1,200.00	1,195.62	454.78	453.85	4.18	1.59	98.75	-7,175.00	2,122.46	7,532.08	7,526.35	5.72	1,316.135		
1,300.00	1,293.06	502.00	500.69	4.63	1.77	98.53	-7,179.13	2,126.72	7,546.46	7,540.13	6.34	1,190.735		
1,400.00	1,389.64	502.00	500.69	5.11	1.77	98.21	-7,179.13	2,126.72	7,562.16	7,555.35	6.81	1,110.972		
1,500.00	1,485.27	540.31	538.65	5.63	1.93	97.94	-7,183.04	2,130.07	7,579.30	7,571.84	7.46	1,016.046		
1,600.00	1,579.82	594.00	591.78	6.20	2.16	97.68	-7,189.38	2,134.58	7,598.01	7,589.79	8.21	925.086		
1,700.00	1,673.17	594.00	591.78	6.83	2.16	97.28	-7,189.38	2,134.58	7,617.80	7,608.99	8.81	864.827		
1,800.00	1,765.21	633.08	630.39	7.51	2.32	96.95	-7,194.54	2,137.62	7,639.03	7,629.43	9.60	795.439		
1,900.00	1,855.84	686.00	682.64	8.24	2.55	96.66	-7,202.17	2,141.21	7,661.55	7,651.04	10.50	729.329		
2,000.00	1,944.94	686.00	682.64	9.05	2.55	96.18	-7,202.17	2,141.21	7,685.23	7,673.98	11.26	682.653		
2,100.00	2,032.39	686.00	682.64	9.91	2.55	95.66	-7,202.17	2,141.21	7,710.51	7,698.44	12.07	638.975		
2,200.00	2,118.11	732.96	728.89	10.85	2.75	95.29	-7,209.82	2,143.96	7,736.68	7,723.56	13.12	589.788		
2,300.00	2,201.97	778.00	773.08	11.85	2.95	94.91	-7,218.19	2,146.27	7,764.62	7,750.40	14.22	545.937		
2,400.00	2,283.88	778.00	773.08	12.93	2.95	94.31	-7,218.19	2,146.27	7,793.44	7,778.23	15.21	512.436		
2,429.47	2,307.63	778.00	773.08	13.26	2.95	94.12	-7,218.19	2,146.27	7,802.21	7,786.70	15.51	503.059		
2,500.00	2,364.26	778.00	773.08	14.06	2.95	94.12	-7,218.19	2,146.27	7,823.63	7,807.39	16.24	481.777		
2,600.00	2,444.56	778.00	773.08	15.22	2.95	94.12	-7,218.19	2,146.27	7,854.98	7,837.70	17.28	454.549		
2,700.00	2,524.85	816.06	810.28	16.39	3.13	94.30	-7,226.05	2,147.98	7,887.04	7,868.55	18.48	426.693		
2,800.00	2,605.14	855.00	848.18	17.57	3.31	94.49	-7,234.85	2,149.51	7,920.39	7,900.70	19.69	402.159		
2,900.00	2,685.43	855.00	848.18	18.76	3.31	94.49	-7,234.85	2,149.51	7,954.41	7,933.67	20.74	383.507		
3,000.00	2,765.73	855.00	848.18	19.96	3.31	94.49	-7,234.85	2,149.51	7,989.54	7,967.75	21.78	366.767		
3,100.00	2,846.02	885.73	877.99	21.16	3.46	94.63	-7,242.24	2,150.68	8,025.54	8,002.59	22.96	349.583		
3,200.00	2,926.31	906.22	897.82	22.37	3.57	94.73	-7,247.32	2,151.52	8,062.46	8,038.38	24.08	334.805		
3,300.00	3,006.60	942.00	932.37	23.59	3.75	94.89	-7,256.49	2,153.09	8,100.32	8,075.05	25.27	320.579		
3,400.00	3,086.90	942.00	932.37	24.81	3.75	94.89	-7,256.49	2,153.09	8,138.95	8,112.66	26.29	309.630		
3,500.00	3,167.19	973.72	962.92	26.03	3.91	95.04	-7,264.88	2,154.63	8,178.44	8,150.99	27.45	297.909		
3,600.00	3,247.48	999.26	987.47	27.25	4.05	95.16	-7,271.79	2,156.00	8,218.74	8,190.16	28.57	287.632		
3,700.00	3,327.77	1,031.00	1,017.92	28.48	4.22	95.30	-7,280.54	2,157.87	8,259.83	8,230.11	29.72	277.931		
3,800.00	3,408.07	1,057.46	1,043.26	29.71	4.37	95.42	-7,287.96	2,159.56	8,301.67	8,270.83	30.83	269.233		
3,900.00	3,488.36	1,092.47	1,076.75	30.94	4.57	95.58	-7,297.89	2,161.93	8,344.19	8,312.20	31.99	260.849		
4,000.00	3,568.65	1,146.72	1,128.56	32.17	4.88	95.82	-7,313.49	2,165.83	8,387.36	8,354.12	33.24	252.341		
4,100.00	3,648.95	1,204.00	1,183.29	33.41	5.21	96.08	-7,329.95	2,169.66	8,430.86	8,396.36	34.50	244.375		
4,200.00	3,729.24	1,241.29	1,218.90	34.64	5.43	96.25	-7,340.79	2,172.06	8,474.95	8,439.30	35.65	237.731		
4,300.00	3,809.53	1,291.00	1,266.22	35.88	5.73	96.47	-7,355.64	2,175.33	8,519.85	8,482.99	36.86	231.140		
4,400.00	3,889.82	1,291.00	1,266.22	37.12	5.73	96.47	-7,355.64	2,175.33	8,565.30	8,527.51	37.79	226.643		
4,500.00	3,970.12	1,326.54	1,299.97	38.36	5.95	96.62	-7,366.51	2,177.76	8,611.50	8,572.59	38.91	221.309		
4,600.00	4,050.41	1,378.00	1,348.72	39.60	6.27	96.85	-7,382.56	2,181.45	8,658.41	8,618.30	40.12	215.839		
4,700.00	4,130.70	1,378.00	1,348.72	40.84	6.27	96.85	-7,382.56	2,181.45	8,705.87	8,664.85	41.02	212.253		
4,800.00	4,210.99	1,419.74	1,388.16	42.08	6.54	97.03	-7,395.83	2,184.69	8,753.98	8,711.82	42.15	207.673		
4,900.00	4,291.29	1,466.00	1,431.75	43.32	6.83	97.23	-7,410.81	2,188.64	8,802.75	8,759.44	43.31	203.249		
5,000.00	4,371.58	1,466.00	1,431.75	44.57	6.83	97.23	-7,410.81	2,188.64	8,852.11	8,807.93	44.18	200.361		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	1,466.00	1,431.75	45.81	6.83	97.23	-7,410.81	2,188.64	8,902.32	8,857.28	45.04	197.659		
5,200.00	4,532.16	1,509.04	1,472.14	47.05	7.12	97.41	-7,425.18	2,192.47	8,952.92	8,906.77	46.16	193.970		
5,300.00	4,612.46	1,553.00	1,513.16	48.30	7.42	97.59	-7,440.51	2,196.34	9,004.55	8,957.28	47.27	190.479		
5,400.00	4,692.75	1,553.00	1,513.16	49.54	7.42	97.59	-7,440.51	2,196.34	9,056.55	9,008.45	48.10	188.283		
5,500.00	4,773.04	1,553.00	1,513.16	50.79	7.42	97.59	-7,440.51	2,196.34	9,109.34	9,060.43	48.92	186.226		
5,600.00	4,853.34	1,553.00	1,513.16	52.03	7.42	97.59	-7,440.51	2,196.34	9,162.92	9,113.21	49.72	184.298		
5,700.00	4,933.63	1,599.69	1,556.51	53.28	7.75	97.79	-7,457.41	2,200.26	9,216.86	9,166.04	50.82	181.355		
5,800.00	5,013.92	1,640.00	1,593.77	54.53	8.03	97.96	-7,472.46	2,203.38	9,271.64	9,219.76	51.88	178.722		
5,900.00	5,094.21	1,640.00	1,593.77	55.77	8.03	97.96	-7,472.46	2,203.38	9,326.86	9,274.21	52.65	177.148		
6,000.00	5,174.51	1,664.36	1,616.23	57.02	8.21	98.06	-7,481.73	2,205.16	9,382.74	9,329.16	53.58	175.118		
6,100.00	5,254.80	1,691.34	1,641.06	58.27	8.40	98.18	-7,492.10	2,207.06	9,439.16	9,384.64	54.52	173.136		
6,200.00	5,335.09	1,728.00	1,674.74	59.52	8.67	98.33	-7,506.36	2,209.53	9,496.12	9,440.60	55.52	171.043		
6,300.00	5,415.38	1,764.00	1,729.26	60.76	8.94	98.48	-7,517.73	2,212.03	9,551.75	9,493.77	56.52	168.994		
6,400.00	5,495.68	1,800.00	1,764.71	62.01	9.21	98.63	-7,529.10	2,214.53	9,607.42	9,549.42	57.52	166.945		
6,500.00	5,575.97	1,836.00	1,800.26	63.26	9.48	98.78	-7,540.47	2,217.03	9,663.09	9,605.17	58.52	164.896		
6,600.00	5,656.26	1,872.00	1,845.71	64.51	9.75	98.93	-7,551.84	2,219.53	9,718.76	9,660.82	59.52	162.847		
6,700.00	5,736.55	1,908.00	1,891.26	65.76	10.02	99.08	-7,563.21	2,222.03	9,774.43	9,717.49	60.52	160.798		
6,800.00	5,816.85	1,944.00	1,936.81	67.01	10.29	99.23	-7,574.58	2,224.53	9,830.10	9,773.16	61.52	158.749		
6,900.00	5,897.14	1,980.00	1,972.36	68.26	10.56	99.38	-7,585.95	2,227.03	9,885.77	9,828.83	62.52	156.700		
7,000.00	5,977.43	2,016.00	1,987.91	69.50	10.83	99.53	-7,597.32	2,229.53	9,941.44	9,884.50	63.52	154.651		
7,100.00	6,057.72	2,052.00	2,003.46	70.75	11.10	99.68	-7,608.69	2,232.03	9,997.11	9,940.17	64.52	152.602		
10,000.00	7,870.00	8,148.01	7,868.28	92.46	40.17	89.20	-8,784.39	2,404.07	9,928.41	9,812.71	115.70	85.808		
10,100.00	7,870.00	8,148.69	7,868.96	92.16	40.17	89.22	-8,784.40	2,404.11	9,830.03	9,714.17	115.87	84.840		
10,200.00	7,870.00	8,149.38	7,869.64	91.87	40.17	89.24	-8,784.41	2,404.14	9,731.69	9,615.66	116.03	83.872		
10,300.00	7,870.00	8,150.07	7,870.34	91.60	40.17	89.27	-8,784.42	2,404.18	9,633.38	9,517.18	116.20	82.903		
10,400.00	7,870.00	8,150.78	7,871.04	91.34	40.18	89.29	-8,784.43	2,404.22	9,535.10	9,418.73	116.37	81.935		
10,500.00	7,870.00	8,151.49	7,871.76	91.11	40.18	89.31	-8,784.44	2,404.26	9,436.86	9,320.31	116.55	80.966		
10,600.00	7,870.00	8,152.22	7,872.48	90.88	40.18	89.34	-8,784.45	2,404.30	9,338.66	9,221.92	116.74	79.998		
10,700.00	7,870.00	8,152.95	7,873.21	90.67	40.18	89.36	-8,784.46	2,404.34	9,240.49	9,123.57	116.92	79.029		
10,800.00	7,870.00	8,153.70	7,873.96	90.48	40.18	89.38	-8,784.47	2,404.38	9,142.37	9,025.25	117.12	78.061		
10,900.00	7,870.00	8,154.45	7,874.71	90.31	40.19	89.41	-8,784.48	2,404.42	9,044.28	8,926.97	117.32	77.093		
11,000.00	7,870.00	8,155.22	7,875.48	90.15	40.19	89.43	-8,784.49	2,404.46	8,946.24	8,828.72	117.52	76.125		
11,100.00	7,870.00	8,155.99	7,876.25	90.00	40.19	89.46	-8,784.50	2,404.50	8,848.24	8,730.51	117.73	75.157		
11,200.00	7,870.00	8,156.78	7,877.03	89.88	40.19	89.48	-8,784.51	2,404.55	8,750.29	8,632.35	117.95	74.189		
11,300.00	7,870.00	8,157.58	7,877.83	89.77	40.20	89.51	-8,784.52	2,404.59	8,652.39	8,534.22	118.17	73.222		
11,400.00	7,870.00	8,158.39	7,878.64	89.68	40.20	89.54	-8,784.53	2,404.64	8,554.53	8,436.13	118.39	72.254		
11,500.00	7,870.00	8,159.21	7,879.46	89.60	40.20	89.56	-8,784.54	2,404.68	8,456.72	8,338.09	118.63	71.288		
11,600.00	7,870.00	8,160.04	7,880.29	89.55	40.20	89.59	-8,784.55	2,404.73	8,358.96	8,240.10	118.87	70.321		
11,700.00	7,870.00	8,160.88	7,881.13	89.52	40.20	89.62	-8,784.56	2,404.78	8,261.26	8,142.15	119.12	69.355		
11,800.00	7,870.00	8,161.74	7,881.99	89.50	40.21	89.64	-8,784.58	2,404.82	8,163.61	8,044.24	119.37	68.389		
11,900.00	7,870.00	8,162.61	7,882.86	89.51	40.21	89.67	-8,784.59	2,404.87	8,066.03	7,946.39	119.63	67.423		
12,000.00	7,870.00	8,163.49	7,883.74	89.54	40.21	89.70	-8,784.60	2,404.92	7,968.50	7,848.59	119.90	66.458		
12,100.00	7,870.00	8,164.39	7,884.63	89.59	40.21	89.73	-8,784.61	2,404.97	7,871.03	7,750.85	120.18	65.494		
12,200.00	7,870.00	8,165.30	7,885.54	89.66	40.22	89.76	-8,784.63	2,405.03	7,773.62	7,653.16	120.47	64.530		
12,300.00	7,870.00	8,166.22	7,886.46	89.77	40.22	89.79	-8,784.64	2,405.08	7,676.29	7,555.53	120.76	63.566		
12,400.00	7,870.00	8,167.16	7,887.39	89.89	40.22	89.82	-8,784.65	2,405.13	7,579.02	7,457.96	121.06	62.604		
12,500.00	7,870.00	8,168.11	7,888.34	90.05	40.22	89.85	-8,784.67	2,405.19	7,481.82	7,360.45	121.38	61.642		
12,600.00	7,870.00	8,169.07	7,889.31	90.24	40.23	89.88	-8,784.68	2,405.24	7,384.70	7,263.00	121.70	60.681		
12,700.00	7,870.00	8,170.06	7,890.29	90.46	40.23	89.91	-8,784.70	2,405.30	7,287.66	7,165.63	122.03	59.720		
12,800.00	7,870.00	8,171.05	7,891.28	90.71	40.23	89.94	-8,784.71	2,405.36	7,190.69	7,068.32	122.37	58.761		
12,900.00	7,870.00	8,172.06	7,892.29	90.99	40.24	89.98	-8,784.73	2,405.42	7,093.82	6,971.09	122.73	57.802		
13,000.00	7,870.00	8,173.09	7,893.32	91.32	40.24	90.01	-8,784.74	2,405.48	6,997.02	6,873.93	123.09	56.845		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,100.00	7,870.00	8,174.14	7,894.36	91.68	40.24	90.04	-8,784.76	2,405.54	6,900.32	6,776.86	123.47	55.888		
13,200.00	7,870.00	8,175.20	7,895.43	92.08	40.24	90.08	-8,784.78	2,405.60	6,803.72	6,679.86	123.86	54.933		
13,300.00	7,870.00	8,176.28	7,896.50	92.52	40.25	90.11	-8,784.79	2,405.66	6,707.21	6,582.96	124.26	53.978		
13,400.00	7,870.00	8,177.38	7,897.60	93.00	40.25	90.15	-8,784.81	2,405.73	6,610.81	6,486.14	124.67	53.026		
13,500.00	7,870.00	8,178.50	7,898.71	93.53	40.25	90.18	-8,784.83	2,405.79	6,514.52	6,389.42	125.10	52.074		
13,600.00	7,870.00	8,179.63	7,899.85	94.10	40.26	90.22	-8,784.85	2,405.86	6,418.34	6,292.79	125.54	51.124		
13,700.00	7,870.00	8,180.78	7,901.00	94.72	40.26	90.26	-8,784.87	2,405.93	6,322.27	6,196.27	126.00	50.175		
13,800.00	7,870.00	8,181.96	7,902.17	95.38	40.26	90.30	-8,784.88	2,406.00	6,226.34	6,099.86	126.48	49.229		
13,900.00	7,870.00	8,183.15	7,903.36	96.09	40.27	90.34	-8,784.90	2,406.07	6,130.53	6,003.56	126.97	48.283		
14,000.00	7,870.00	8,184.37	7,904.57	96.84	40.27	90.37	-8,784.92	2,406.15	6,034.85	5,907.37	127.48	47.340		
14,100.00	7,870.00	8,185.60	7,905.81	97.64	40.27	90.41	-8,784.95	2,406.22	5,939.32	5,811.32	128.01	46.399		
14,200.00	7,870.00	8,186.86	7,907.06	98.48	40.28	90.46	-8,784.97	2,406.30	5,843.94	5,715.39	128.55	45.460		
14,300.00	7,870.00	8,188.14	7,908.34	99.37	40.28	90.50	-8,784.99	2,406.37	5,748.71	5,619.59	129.12	44.523		
14,400.00	7,870.00	8,189.45	7,909.64	100.30	40.28	90.54	-8,785.01	2,406.45	5,653.65	5,523.95	129.71	43.588		
14,500.00	7,870.00	8,190.77	7,910.97	101.26	40.29	90.58	-8,785.03	2,406.54	5,558.76	5,428.45	130.32	42.656		
14,600.00	7,870.00	8,192.13	7,912.32	102.27	40.29	90.63	-8,785.06	2,406.62	5,464.06	5,333.11	130.95	41.727		
14,700.00	7,870.00	8,193.50	7,913.69	103.31	40.29	90.67	-8,785.08	2,406.71	5,369.54	5,237.94	131.61	40.800		
14,800.00	7,870.00	8,194.91	7,915.09	104.38	40.30	90.72	-8,785.11	2,406.79	5,275.23	5,142.94	132.29	39.877		
14,900.00	7,870.00	8,196.34	7,916.52	105.49	40.30	90.76	-8,785.13	2,406.88	5,181.13	5,048.13	133.00	38.956		
15,000.00	7,870.00	8,197.79	7,917.97	106.63	40.31	90.81	-8,785.16	2,406.97	5,087.25	4,953.52	133.74	38.040		
15,100.00	7,870.00	8,199.28	7,919.45	107.80	40.31	90.86	-8,785.19	2,407.07	4,993.61	4,859.11	134.50	37.126		
15,200.00	7,870.00	8,200.79	7,920.96	109.00	40.31	90.91	-8,785.22	2,407.16	4,900.23	4,764.92	135.30	36.217		
15,300.00	7,870.00	8,202.34	7,922.50	110.22	40.32	90.96	-8,785.24	2,407.26	4,807.10	4,670.97	136.13	35.312		
15,400.00	7,870.00	8,203.91	7,924.07	111.47	40.32	91.01	-8,785.27	2,407.36	4,714.26	4,577.26	137.00	34.411		
15,500.00	7,870.00	8,205.51	7,925.68	112.74	40.33	91.06	-8,785.31	2,407.46	4,621.72	4,483.82	137.90	33.514		
15,600.00	7,870.00	8,207.15	7,927.31	114.03	40.33	91.11	-8,785.34	2,407.57	4,529.49	4,390.65	138.85	32.623		
15,700.00	7,870.00	8,208.82	7,928.98	115.34	40.34	91.17	-8,785.37	2,407.68	4,437.60	4,297.77	139.83	31.736		
15,800.00	7,870.00	8,210.53	7,930.68	116.68	40.34	91.22	-8,785.40	2,407.79	4,346.07	4,205.22	140.85	30.856		
15,900.00	7,870.00	8,212.27	7,932.42	118.02	40.35	91.28	-8,785.44	2,407.90	4,254.91	4,112.99	141.92	29.981		
16,000.00	7,870.00	8,214.05	7,934.19	119.39	40.35	91.33	-8,785.47	2,408.02	4,164.17	4,021.13	143.04	29.112		
16,100.00	7,870.00	8,215.87	7,936.01	120.77	40.36	91.39	-8,785.51	2,408.14	4,073.85	3,929.65	144.20	28.251		
16,200.00	7,870.00	8,217.72	7,937.86	122.17	40.36	91.45	-8,785.55	2,408.26	3,984.00	3,838.57	145.42	27.396		
16,300.00	7,870.00	8,219.62	7,939.75	123.58	40.37	91.52	-8,785.59	2,408.39	3,894.64	3,747.94	146.70	26.549		
16,400.00	7,870.00	8,221.56	7,941.68	125.00	40.37	91.58	-8,785.63	2,408.52	3,805.81	3,657.78	148.03	25.710		
16,500.00	7,870.00	8,223.54	7,943.66	126.43	40.38	91.64	-8,785.67	2,408.65	3,717.54	3,568.12	149.42	24.879		
16,600.00	7,870.00	8,225.56	7,945.68	127.88	40.38	91.71	-8,785.72	2,408.79	3,629.88	3,479.00	150.88	24.058		
16,700.00	7,870.00	8,227.63	7,947.74	129.34	40.39	91.77	-8,785.76	2,408.93	3,542.88	3,390.47	152.40	23.247		
16,800.00	7,870.00	8,229.75	7,949.86	130.81	40.39	91.84	-8,785.81	2,409.08	3,456.57	3,302.58	154.00	22.446		
16,900.00	7,870.00	8,231.92	7,952.02	132.28	40.40	91.91	-8,785.86	2,409.23	3,371.02	3,215.36	155.66	21.656		
17,000.00	7,870.00	8,234.14	7,954.23	133.77	40.41	91.99	-8,785.91	2,409.38	3,286.29	3,128.88	157.41	20.878		
17,100.00	7,870.00	8,236.41	7,956.50	135.27	40.41	92.06	-8,785.96	2,409.54	3,202.44	3,043.21	159.23	20.112		
17,200.00	7,870.00	8,238.74	7,958.82	136.77	40.42	92.13	-8,786.01	2,409.71	3,119.53	2,958.40	161.13	19.360		
17,300.00	7,870.00	8,241.13	7,961.20	138.28	40.42	92.21	-8,786.07	2,409.87	3,037.66	2,874.53	163.12	18.622		
17,400.00	7,870.00	8,243.57	7,963.63	139.80	40.43	92.29	-8,786.12	2,410.05	2,956.89	2,791.70	165.20	17.899		
17,500.00	7,870.00	8,246.07	7,966.13	141.33	40.44	92.37	-8,786.18	2,410.23	2,877.34	2,709.98	167.36	17.193		
17,600.00	7,870.00	8,248.64	7,968.69	142.86	40.45	92.46	-8,786.25	2,410.41	2,799.09	2,629.48	169.61	16.503		
17,700.00	7,870.00	8,251.28	7,971.32	144.40	40.45	92.54	-8,786.31	2,410.60	2,722.26	2,550.32	171.95	15.832		
17,800.00	7,870.00	8,253.98	7,974.01	145.95	40.46	92.63	-8,786.38	2,410.80	2,646.99	2,472.62	174.37	15.181		
17,900.00	7,870.00	8,256.75	7,976.78	147.50	40.47	92.72	-8,786.45	2,411.01	2,573.39	2,396.52	176.87	14.550		
18,000.00	7,870.00	8,259.60	7,979.62	149.06	40.48	92.81	-8,786.52	2,411.22	2,501.62	2,322.17	179.45	13.941		
18,100.00	7,870.00	8,262.52	7,982.53	150.63	40.48	92.91	-8,786.60	2,411.43	2,431.85	2,249.75	182.10	13.355		
18,200.00	7,870.00	8,265.53	7,985.53	152.20	40.49	93.00	-8,786.67	2,411.66	2,364.24	2,179.44	184.80	12.794		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,300.00	7,870.00	8,268.62	7,988.61	153.77	40.50	93.10	-8,786.76	2,411.89	2,298.99	2,111.45	187.54	12.258	
18,400.00	7,870.00	8,271.79	7,991.77	155.35	40.51	93.21	-8,786.84	2,412.14	2,236.31	2,046.00	190.31	11.751	
18,500.00	7,870.00	8,275.06	7,995.03	156.93	40.52	93.31	-8,786.93	2,412.39	2,176.42	1,983.34	193.08	11.272	
18,600.00	7,870.00	8,278.42	7,998.38	158.52	40.53	93.42	-8,787.02	2,412.65	2,119.55	1,923.73	195.81	10.824	
18,700.00	7,870.00	8,281.88	8,001.83	160.11	40.54	93.53	-8,787.12	2,412.92	2,065.95	1,867.46	198.49	10.408	
18,800.00	7,870.00	8,285.45	8,005.38	161.71	40.55	93.65	-8,787.22	2,413.20	2,015.89	1,814.83	201.06	10.026	
18,900.00	7,870.00	8,289.12	8,009.04	163.31	40.56	93.77	-8,787.33	2,413.49	1,969.62	1,766.15	203.48	9.680	
19,000.00	7,870.00	8,292.91	8,012.81	164.91	40.57	93.89	-8,787.44	2,413.79	1,927.44	1,721.74	205.70	9.370	
19,100.00	7,870.00	8,296.81	8,016.70	166.52	40.58	94.02	-8,787.56	2,414.11	1,889.60	1,681.93	207.67	9.099	
19,200.00	7,870.00	8,300.84	8,020.71	168.13	40.59	94.15	-8,787.68	2,414.44	1,856.38	1,647.04	209.34	8.868	
19,300.00	7,870.00	8,305.00	8,024.86	169.75	40.60	94.28	-8,787.81	2,414.78	1,828.03	1,617.38	210.65	8.678	
19,383.51	7,870.00	8,308.58	8,028.42	171.10	40.61	94.40	-8,787.92	2,415.08	1,808.25	1,596.81	211.44	8.552 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	163.51	-7,118.47	2,107.90	7,424.04					
100.00	100.00	43.71	43.71	0.13	0.08	163.50	-7,118.58	2,108.34	7,424.66	7,424.46	0.20	N/A		
200.00	200.00	74.00	73.98	0.49	0.14	163.50	-7,118.79	2,109.15	7,426.17	7,425.56	0.61	N/A		
300.00	300.00	119.00	118.95	0.85	0.29	163.49	-7,119.37	2,110.83	7,428.50	7,427.37	1.13	6,584.523		
400.00	400.00	166.00	165.89	1.21	0.45	163.47	-7,120.33	2,112.92	7,431.67	7,430.01	1.66	4,484.431		
500.00	500.00	220.66	220.46	1.57	0.65	163.45	-7,121.69	2,115.83	7,435.50	7,433.29	2.22	3,354.500		
600.00	600.00	305.03	304.62	1.93	0.97	163.42	-7,123.75	2,121.44	7,439.74	7,436.85	2.89	2,577.307		
700.00	699.98	349.00	348.43	2.28	1.14	99.48	-7,124.65	2,124.97	7,444.51	7,441.11	3.40	2,186.788		
800.00	799.84	409.30	408.48	2.64	1.37	99.35	-7,126.12	2,130.37	7,450.44	7,446.45	3.99	1,868.650		
900.00	899.45	440.00	439.02	3.00	1.49	99.20	-7,127.13	2,133.32	7,457.85	7,453.39	4.46	1,670.485		
1,000.00	998.70	476.09	474.88	3.37	1.64	99.03	-7,128.53	2,137.13	7,466.70	7,461.72	4.98	1,499.787		
1,100.00	1,097.47	533.00	531.28	3.76	1.88	98.85	-7,131.28	2,144.20	7,477.18	7,471.59	5.59	1,337.373		
1,200.00	1,195.62	542.44	540.61	4.18	1.92	98.63	-7,131.79	2,145.50	7,488.80	7,482.76	6.04	1,239.784		
1,300.00	1,293.06	625.00	622.14	4.63	2.27	98.43	-7,135.95	2,157.80	7,501.52	7,494.70	6.82	1,099.930		
1,400.00	1,389.64	678.46	674.77	5.11	2.52	98.21	-7,138.55	2,166.80	7,515.19	7,507.67	7.52	998.762		
1,500.00	1,485.27	732.89	728.19	5.63	2.77	97.96	-7,141.33	2,176.91	7,530.03	7,521.76	8.28	909.760		
1,600.00	1,579.82	805.00	798.57	6.20	3.12	97.72	-7,144.66	2,192.19	7,545.73	7,536.56	9.17	823.136		
1,700.00	1,673.17	840.74	833.30	6.83	3.31	97.43	-7,146.31	2,200.49	7,562.51	7,552.56	9.95	760.285		
1,800.00	1,765.21	893.00	883.90	7.51	3.59	97.14	-7,149.20	2,213.21	7,580.70	7,569.84	10.86	697.911		
1,900.00	1,855.84	893.00	883.90	8.24	3.59	96.74	-7,149.20	2,213.21	7,600.04	7,588.47	11.57	656.970		
2,000.00	1,944.94	958.50	946.98	9.05	3.95	96.44	-7,153.20	2,230.42	7,620.50	7,607.82	12.68	600.769		
2,100.00	2,032.39	999.75	986.44	9.91	4.19	96.08	-7,155.75	2,242.14	7,642.04	7,628.31	13.74	556.283		
2,200.00	2,118.11	1,031.00	1,016.18	10.85	4.38	95.68	-7,157.78	2,251.51	7,664.74	7,649.94	14.80	517.842		
2,300.00	2,201.97	1,073.00	1,056.00	11.85	4.65	95.28	-7,160.69	2,264.56	7,688.56	7,672.56	16.00	480.510		
2,400.00	2,283.88	1,146.90	1,125.90	12.93	5.12	94.96	-7,166.21	2,287.90	7,713.37	7,695.90	17.47	441.596		
2,429.47	2,307.63	1,183.25	1,160.35	13.26	5.36	94.90	-7,168.94	2,299.18	7,720.74	7,702.74	18.00	428.843		
2,500.00	2,364.26	1,183.00	1,160.11	14.06	5.36	94.90	-7,168.93	2,299.10	7,738.69	7,719.94	18.75	412.728		
2,600.00	2,444.56	1,236.56	1,210.73	15.22	5.72	95.04	-7,173.18	2,316.06	7,764.63	7,744.46	20.17	384.956		
2,700.00	2,524.85	1,270.00	1,242.17	16.39	5.94	95.13	-7,176.07	2,327.10	7,791.50	7,770.03	21.47	362.938		
2,800.00	2,605.14	1,522.41	1,478.66	17.57	7.72	95.74	-7,195.57	2,413.11	7,818.10	7,793.78	24.32	321.447		
2,900.00	2,685.43	1,574.62	1,527.46	18.76	8.10	95.86	-7,198.98	2,431.33	7,843.84	7,818.04	25.80	304.042		
3,000.00	2,765.73	1,620.45	1,570.22	19.96	8.44	95.96	-7,202.22	2,447.49	7,870.23	7,843.00	27.23	288.989		
3,100.00	2,846.02	1,730.72	1,672.87	21.16	9.26	96.21	-7,209.97	2,487.06	7,896.84	7,867.67	29.17	270.763		
3,200.00	2,926.31	1,813.72	1,750.03	22.37	9.89	96.39	-7,215.75	2,517.06	7,923.56	7,892.66	30.90	256.402		
3,300.00	3,006.60	1,905.57	1,835.38	23.59	10.59	96.59	-7,222.14	2,550.38	7,950.41	7,917.69	32.72	243.004		
3,400.00	3,086.90	1,968.00	1,893.34	24.81	11.06	96.72	-7,226.49	2,573.19	7,977.45	7,943.15	34.31	232.524		
3,500.00	3,167.19	2,028.34	1,949.30	26.03	11.53	96.85	-7,230.90	2,595.32	8,004.96	7,969.07	35.89	223.069		
3,600.00	3,247.48	2,096.72	2,012.68	27.25	12.06	97.00	-7,236.30	2,620.43	8,033.02	7,995.49	37.53	214.059		
3,700.00	3,327.77	2,188.05	2,097.44	28.48	12.76	97.19	-7,243.64	2,653.64	8,061.24	8,021.89	39.35	204.858		
3,800.00	3,408.07	2,252.06	2,157.00	29.71	13.25	97.33	-7,248.94	2,676.49	8,089.66	8,048.71	40.95	197.548		
3,900.00	3,488.36	2,294.00	2,196.00	30.94	13.58	97.42	-7,252.66	2,691.43	8,118.68	8,076.31	42.37	191.619		
4,000.00	3,568.65	2,427.34	2,319.85	32.17	14.60	97.71	-7,264.66	2,739.35	8,148.03	8,103.50	44.53	182.968		
4,100.00	3,648.95	2,492.00	2,379.84	33.41	15.11	97.85	-7,270.16	2,762.86	8,177.10	8,130.96	46.14	177.212		
4,200.00	3,729.24	2,539.13	2,423.58	34.64	15.47	97.95	-7,274.40	2,779.86	8,206.69	8,159.09	47.60	172.408		
4,300.00	3,809.53	2,579.00	2,460.68	35.88	15.78	98.03	-7,278.38	2,793.95	8,237.00	8,188.01	48.99	168.126		
4,400.00	3,889.82	2,706.39	2,579.22	37.12	16.76	98.31	-7,290.97	2,838.87	8,267.28	8,216.17	51.10	161.773		
4,500.00	3,970.12	2,783.37	2,650.70	38.36	17.36	98.47	-7,298.57	2,866.41	8,297.78	8,244.98	52.81	157.135		
4,600.00	4,050.41	2,886.91	2,746.54	39.60	18.17	98.68	-7,308.45	2,904.31	8,328.25	8,273.51	54.75	152.123		
4,700.00	4,130.70	3,000.87	2,852.08	40.84	19.07	98.92	-7,319.29	2,945.93	8,358.78	8,302.01	56.78	147.226		
4,800.00	4,210.99	3,123.26	2,965.79	42.08	20.02	99.17	-7,330.52	2,989.74	8,388.93	8,330.06	58.87	142.498		
4,900.00	4,291.29	3,197.37	3,034.26	43.32	20.61	99.31	-7,337.12	3,017.35	8,419.19	8,358.63	60.57	139.004		
5,000.00	4,371.58	3,303.88	3,132.93	44.57	21.46	99.52	-7,346.64	3,056.30	8,449.44	8,386.89	62.54	135.094		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	4,451.87	3,365.00	3,189.48	45.81	21.94	99.64	-7,352.16	3,078.81	8,479.93	8,415.81	64.12	132.249		
5,200.00	4,532.16	3,413.02	3,233.84	47.05	22.33	99.73	-7,356.69	3,096.65	8,510.90	8,445.31	65.58	129.777		
5,300.00	4,612.46	3,452.00	3,269.86	48.30	22.64	99.81	-7,360.58	3,111.01	8,542.44	8,475.49	66.95	127.587		
5,400.00	4,692.75	3,508.55	3,322.17	49.54	23.09	99.92	-7,366.55	3,131.66	8,574.51	8,506.04	68.47	125.224		
5,500.00	4,773.04	3,741.87	3,537.70	50.79	24.96	100.36	-7,389.57	3,217.99	8,606.01	8,534.40	71.61	120.180		
5,600.00	4,853.34	3,802.00	3,593.04	52.03	25.45	100.47	-7,395.13	3,240.81	8,637.21	8,564.02	73.18	118.023		
5,700.00	4,933.63	3,802.00	3,593.04	53.28	25.45	100.47	-7,395.13	3,240.81	8,669.04	8,594.85	74.19	116.850		
5,800.00	5,013.92	3,848.35	3,635.66	54.53	25.83	100.55	-7,399.87	3,258.39	8,701.49	8,625.87	75.62	115.069		
5,900.00	5,094.21	4,849.00	4,586.69	55.77	32.43	102.83	-7,470.42	3,553.71	8,730.05	8,645.83	84.23	103.651		
6,000.00	5,174.51	5,147.68	4,880.76	57.02	33.73	103.71	-7,478.71	3,604.99	8,753.62	8,666.81	86.81	100.839		
6,100.00	5,254.80	5,299.95	5,031.74	58.27	34.30	104.19	-7,481.19	3,624.52	8,775.31	8,686.75	88.56	99.086		
6,200.00	5,335.09	5,348.59	5,080.11	59.52	34.46	104.35	-7,482.05	3,629.50	8,796.94	8,707.09	89.85	97.903		
6,300.00	5,415.38	5,404.45	5,135.73	60.76	34.63	104.54	-7,483.27	3,634.54	8,819.10	8,727.94	91.16	96.745		
6,400.00	5,495.68	6,400.00	5,242.14	62.01	37.26	104.91	-7,486.11	3,641.15	8,841.67	8,746.79	94.89	93.182		
6,500.00	5,575.97	5,756.10	5,487.01	63.26	35.49	105.82	-7,490.62	3,646.30	8,863.29	8,768.95	94.34	93.953		
6,600.00	5,656.26	5,837.10	5,568.00	64.51	35.64	106.13	-7,491.66	3,646.89	8,884.88	8,789.27	95.62	92.920		
6,700.00	5,736.55	5,950.17	5,681.06	65.76	35.87	106.55	-7,492.86	3,647.50	8,906.65	8,809.68	96.97	91.848		
6,800.00	5,816.85	6,092.57	5,823.46	67.01	36.16	107.08	-7,493.58	3,647.94	8,928.28	8,829.90	98.39	90.748		
6,900.00	5,897.14	6,164.70	5,895.59	68.26	36.30	107.35	-7,493.80	3,647.90	8,950.06	8,850.44	99.62	89.838		
7,000.00	5,977.43	6,245.61	5,976.50	69.50	36.45	107.66	-7,494.05	3,647.55	8,972.18	8,871.30	100.88	88.942		
7,100.00	6,057.72	7,100.00	6,114.85	70.75	38.08	108.17	-7,493.57	3,646.94	8,993.93	8,890.27	103.65	86.768		
7,200.00	6,138.02	6,545.95	6,276.82	72.00	37.04	108.77	-7,492.01	3,646.44	9,015.60	8,911.94	103.67	86.967		
7,300.00	6,218.31	6,650.07	6,380.93	73.25	37.25	109.16	-7,490.56	3,646.20	9,037.40	8,932.44	104.96	86.102		
7,400.00	6,298.60	6,759.98	6,490.83	74.50	37.47	109.56	-7,488.68	3,646.23	9,059.28	8,953.02	106.27	85.251		
7,500.00	6,378.90	6,884.25	6,615.07	75.75	37.74	110.00	-7,486.05	3,646.51	9,081.18	8,973.58	107.60	84.395		
7,600.00	6,459.19	6,983.33	6,714.12	77.00	37.95	110.36	-7,483.55	3,646.84	9,103.06	8,994.18	108.88	83.606		
7,700.00	6,539.48	7,058.42	6,789.18	78.25	38.12	110.63	-7,481.64	3,647.40	9,125.27	9,015.17	110.10	82.880		
7,800.00	6,619.77	7,135.36	6,866.09	79.50	38.29	110.90	-7,479.72	3,648.29	9,147.85	9,036.53	111.32	82.174		
7,900.00	6,700.07	7,218.52	6,949.22	80.75	38.49	111.19	-7,477.65	3,649.44	9,170.74	9,058.19	112.56	81.475		
8,000.00	6,780.36	7,301.84	7,032.50	82.00	38.69	111.48	-7,475.56	3,650.70	9,193.93	9,080.14	113.79	80.798		
8,100.00	6,860.65	7,354.53	7,085.17	83.25	38.82	111.66	-7,474.33	3,651.60	9,217.55	9,102.61	114.94	80.194		
8,200.00	6,940.94	7,409.93	7,140.55	84.50	38.95	111.85	-7,473.18	3,652.67	9,241.70	9,125.61	116.09	79.608		
8,300.00	7,021.24	7,468.00	7,198.60	85.76	39.10	112.05	-7,472.15	3,653.92	9,266.38	9,149.14	117.24	79.039		
8,400.00	7,101.53	7,522.19	7,252.76	87.01	39.24	112.23	-7,471.34	3,655.21	9,291.58	9,173.20	118.38	78.492		
8,500.00	7,181.82	7,579.13	7,309.68	88.26	39.39	112.43	-7,470.64	3,656.71	9,317.28	9,197.76	119.51	77.960		
8,605.60	7,266.61	7,643.00	7,373.52	89.58	39.56	112.64	-7,470.03	3,658.56	9,344.96	9,224.24	120.72	77.412		
8,650.00	7,302.60	7,665.19	7,395.70	90.13	39.62	106.88	-7,469.87	3,659.24	9,355.09	9,233.88	121.21	77.179		
8,700.00	7,343.78	7,694.77	7,425.26	90.72	39.70	99.88	-7,469.68	3,660.13	9,362.58	9,240.79	121.79	76.873		
8,750.00	7,385.32	7,724.58	7,455.06	91.28	39.78	92.54	-7,469.54	3,661.03	9,365.86	9,243.49	122.38	76.534		
8,800.00	7,426.92	7,754.41	7,484.88	91.81	39.86	85.15	-7,469.43	3,661.92	9,364.92	9,241.97	122.95	76.166		
8,850.00	7,468.27	7,784.06	7,514.51	92.29	39.94	78.01	-7,469.36	3,662.81	9,359.76	9,236.24	123.52	75.775		
8,900.00	7,509.04	7,817.00	7,547.44	92.72	40.03	71.40	-7,469.34	3,663.79	9,350.41	9,226.33	124.08	75.358		
8,950.00	7,548.93	7,863.68	7,594.10	93.10	40.15	65.52	-7,469.30	3,665.13	9,336.90	9,212.24	124.66	74.897		
9,000.00	7,587.63	7,915.51	7,645.91	93.43	40.29	60.41	-7,469.19	3,666.50	9,319.27	9,194.03	125.24	74.413		
9,050.00	7,624.85	7,965.12	7,695.51	93.71	40.43	56.06	-7,469.02	3,667.71	9,297.65	9,171.87	125.77	73.923		
9,100.00	7,660.30	8,078.37	7,808.72	93.93	40.73	52.68	-7,468.15	3,670.42	9,272.14	9,145.66	126.48	73.308		
9,150.00	7,693.72	9,150.00	7,843.24	94.10	43.62	49.66	-7,467.39	3,671.52	9,242.50	9,112.75	129.74	71.236		
9,200.00	7,724.85	8,196.53	7,926.82	94.23	41.06	47.49	-7,466.15	3,673.89	9,209.78	9,082.32	127.46	72.255		
9,250.00	7,753.45	8,213.88	7,944.15	94.30	41.11	45.58	-7,465.85	3,674.49	9,173.84	9,046.06	127.78	71.795		
9,300.00	7,779.31	8,229.59	7,959.85	94.34	41.15	44.20	-7,465.60	3,675.06	9,135.09	9,007.03	128.05	71.337		
9,350.00	7,802.23	8,243.53	7,973.78	94.33	41.19	43.34	-7,465.40	3,675.59	9,093.80	8,965.50	128.29	70.883		
9,400.00	7,822.03	8,255.57	7,985.80	94.28	41.22	43.07	-7,465.23	3,676.06	9,050.26	8,921.76	128.50	70.433		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,265.60	7,995.83	94.20	41.25	43.53	-7,465.10	3,676.46	9,004.79	8,876.13	128.66	69.988		
9,500.00	7,851.72	8,273.54	8,003.76	94.10	41.28	45.10	-7,465.00	3,676.79	8,957.72	8,828.93	128.79	69.552		
9,550.00	7,861.37	8,279.30	8,009.51	93.96	41.29	48.74	-7,464.94	3,677.03	8,909.40	8,780.51	128.89	69.123		
9,600.00	7,867.46	8,282.81	8,013.02	93.81	41.30	57.85	-7,464.90	3,677.18	8,860.18	8,731.22	128.96	68.705		
9,650.00	7,869.94	8,284.03	8,014.24	93.64	41.31	90.45	-7,464.88	3,677.23	8,810.43	8,681.43	129.00	68.298		
9,659.14	7,870.00	8,284.01	8,014.22	93.60	41.31	103.55	-7,464.88	3,677.23	8,801.31	8,672.30	129.01	68.224		
9,700.00	7,870.00	8,283.72	8,013.93	93.46	41.30	103.52	-7,464.89	3,677.22	8,760.51	8,631.49	129.02	67.899		
9,800.00	7,870.00	8,283.01	8,013.22	93.11	41.30	103.44	-7,464.89	3,677.18	8,660.69	8,531.62	129.07	67.101		
9,900.00	7,870.00	8,282.29	8,012.50	92.77	41.30	103.36	-7,464.90	3,677.15	8,560.87	8,431.75	129.12	66.303		
10,000.00	7,870.00	8,281.57	8,011.78	92.46	41.30	103.28	-7,464.91	3,677.12	8,461.06	8,331.89	129.17	65.505		
10,100.00	7,870.00	8,280.84	8,011.05	92.16	41.30	103.20	-7,464.92	3,677.09	8,361.25	8,232.03	129.22	64.707		
10,200.00	7,870.00	8,280.10	8,010.31	91.87	41.29	103.12	-7,464.93	3,677.06	8,261.44	8,132.17	129.27	63.908		
10,300.00	7,870.00	8,279.35	8,009.57	91.60	41.29	103.04	-7,464.93	3,677.03	8,161.64	8,032.31	129.32	63.110		
10,400.00	7,870.00	8,278.60	8,008.82	91.34	41.29	102.96	-7,464.94	3,677.00	8,061.84	7,932.46	129.38	62.311		
10,500.00	7,870.00	8,277.84	8,008.06	91.11	41.29	102.88	-7,464.95	3,676.97	7,962.05	7,832.61	129.44	61.513		
10,600.00	7,870.00	8,277.08	8,007.29	90.88	41.29	102.79	-7,464.96	3,676.93	7,862.26	7,732.76	129.50	60.714		
10,700.00	7,870.00	8,276.30	8,006.52	90.67	41.28	102.71	-7,464.97	3,676.90	7,762.48	7,632.92	129.56	59.915		
10,800.00	7,870.00	8,275.52	8,005.74	90.48	41.28	102.62	-7,464.98	3,676.87	7,662.70	7,533.08	129.62	59.115		
10,900.00	7,870.00	8,274.73	8,004.95	90.31	41.28	102.54	-7,464.99	3,676.84	7,562.93	7,433.24	129.69	58.316		
11,000.00	7,870.00	8,273.93	8,004.15	90.15	41.28	102.45	-7,465.00	3,676.80	7,463.17	7,333.41	129.76	57.517		
11,100.00	7,870.00	8,273.12	8,003.34	90.00	41.27	102.36	-7,465.01	3,676.77	7,363.41	7,233.58	129.83	56.718		
11,200.00	7,870.00	8,272.31	8,002.53	89.88	41.27	102.27	-7,465.02	3,676.74	7,263.66	7,133.76	129.90	55.918		
11,300.00	7,870.00	8,271.49	8,001.71	89.77	41.27	102.18	-7,465.03	3,676.70	7,163.91	7,033.94	129.97	55.119		
11,400.00	7,870.00	8,270.66	8,000.88	89.68	41.27	102.09	-7,465.04	3,676.67	7,064.18	6,934.13	130.05	54.319		
11,500.00	7,870.00	8,269.82	8,000.04	89.60	41.27	102.00	-7,465.05	3,676.63	6,964.45	6,834.32	130.13	53.519		
11,600.00	7,870.00	8,268.97	7,999.19	89.55	41.26	101.91	-7,465.06	3,676.60	6,864.72	6,734.51	130.21	52.720		
11,700.00	7,870.00	8,268.11	7,998.34	89.52	41.26	101.81	-7,465.07	3,676.56	6,765.01	6,634.71	130.30	51.920		
11,800.00	7,870.00	8,267.25	7,997.47	89.50	41.26	101.72	-7,465.08	3,676.53	6,665.30	6,534.92	130.39	51.120		
11,900.00	7,870.00	8,266.37	7,996.60	89.51	41.26	101.62	-7,465.09	3,676.49	6,565.61	6,435.13	130.48	50.320		
12,000.00	7,870.00	8,265.49	7,995.71	89.54	41.25	101.52	-7,465.10	3,676.46	6,465.92	6,335.35	130.57	49.521		
12,100.00	7,870.00	8,264.59	7,994.82	89.59	41.25	101.43	-7,465.11	3,676.42	6,366.24	6,235.57	130.67	48.721		
12,200.00	7,870.00	8,263.69	7,993.92	89.66	41.25	101.33	-7,465.13	3,676.38	6,266.57	6,135.80	130.77	47.921		
12,300.00	7,870.00	8,262.78	7,993.01	89.77	41.24	101.23	-7,465.14	3,676.35	6,166.91	6,036.04	130.87	47.122		
12,400.00	7,870.00	8,261.86	7,992.09	89.89	41.24	101.12	-7,465.15	3,676.31	6,067.27	5,936.29	130.98	46.322		
12,500.00	7,870.00	8,260.93	7,991.16	90.05	41.24	101.02	-7,465.16	3,676.27	5,967.63	5,836.54	131.09	45.522		
12,600.00	7,870.00	8,259.98	7,990.21	90.24	41.24	100.92	-7,465.17	3,676.23	5,868.01	5,736.80	131.21	44.723		
12,700.00	7,870.00	8,259.03	7,989.26	90.46	41.23	100.81	-7,465.19	3,676.20	5,768.40	5,637.07	131.33	43.923		
12,800.00	7,870.00	8,258.07	7,988.30	90.71	41.23	100.71	-7,465.20	3,676.16	5,668.80	5,537.35	131.45	43.124		
12,900.00	7,870.00	8,257.09	7,987.33	90.99	41.23	100.60	-7,465.21	3,676.12	5,569.22	5,437.64	131.58	42.325		
13,000.00	7,870.00	8,256.11	7,986.34	91.32	41.23	100.49	-7,465.22	3,676.08	5,469.65	5,337.94	131.72	41.526		
13,100.00	7,870.00	8,255.11	7,985.35	91.68	41.22	100.38	-7,465.24	3,676.04	5,370.10	5,238.24	131.86	40.727		
13,200.00	7,870.00	8,254.11	7,984.34	92.08	41.22	100.27	-7,465.25	3,676.00	5,270.57	5,138.56	132.00	39.928		
13,300.00	7,870.00	8,253.09	7,983.33	92.52	41.22	100.15	-7,465.26	3,675.96	5,171.05	5,038.90	132.15	39.129		
13,400.00	7,870.00	8,252.06	7,982.30	93.00	41.21	100.04	-7,465.28	3,675.92	5,071.55	4,939.24	132.31	38.331		
13,500.00	7,870.00	8,251.02	7,981.26	93.53	41.21	99.93	-7,465.29	3,675.88	4,972.07	4,839.60	132.47	37.532		
13,600.00	7,870.00	8,249.97	7,980.21	94.10	41.21	99.81	-7,465.31	3,675.84	4,872.61	4,739.97	132.65	36.734		
13,700.00	7,870.00	8,248.90	7,979.14	94.72	41.21	99.69	-7,465.32	3,675.80	4,773.18	4,640.36	132.82	35.936		
13,800.00	7,870.00	8,247.82	7,978.06	95.38	41.20	99.57	-7,465.34	3,675.75	4,673.77	4,540.76	133.01	35.139		
13,900.00	7,870.00	8,246.73	7,976.97	96.09	41.20	99.45	-7,465.35	3,675.71	4,574.38	4,441.18	133.20	34.341		
14,000.00	7,870.00	8,245.63	7,975.87	96.84	41.20	99.33	-7,465.37	3,675.67	4,475.02	4,341.62	133.41	33.544		
14,100.00	7,870.00	8,244.51	7,974.76	97.64	41.19	99.20	-7,465.38	3,675.63	4,375.69	4,242.07	133.62	32.748		
14,200.00	7,870.00	8,243.38	7,973.63	98.48	41.19	99.08	-7,465.40	3,675.58	4,276.39	4,142.55	133.84	31.951		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,242.24	7,972.49	99.37	41.19	98.95	-7,465.42	3,675.54	4,177.13	4,043.05	134.07	31.156		
14,400.00	7,870.00	8,241.08	7,971.33	100.30	41.18	98.82	-7,465.43	3,675.49	4,077.90	3,943.58	134.32	30.360		
14,500.00	7,870.00	8,239.91	7,970.16	101.26	41.18	98.69	-7,465.45	3,675.45	3,978.70	3,844.13	134.57	29.565		
14,600.00	7,870.00	8,238.73	7,968.98	102.27	41.18	98.56	-7,465.47	3,675.40	3,879.55	3,744.71	134.84	28.771		
14,700.00	7,870.00	8,237.53	7,967.78	103.31	41.17	98.42	-7,465.48	3,675.36	3,780.44	3,645.31	135.13	27.977		
14,800.00	7,870.00	8,236.31	7,966.57	104.38	41.17	98.29	-7,465.50	3,675.31	3,681.38	3,545.95	135.43	27.183		
14,900.00	7,870.00	8,235.08	7,965.34	105.49	41.17	98.15	-7,465.52	3,675.27	3,582.38	3,446.63	135.75	26.390		
15,000.00	7,870.00	8,233.84	7,964.09	106.63	41.16	98.01	-7,465.54	3,675.22	3,483.42	3,347.34	136.08	25.598		
15,100.00	7,870.00	8,232.58	7,962.83	107.80	41.16	97.87	-7,465.56	3,675.17	3,384.53	3,248.10	136.44	24.807		
15,200.00	7,870.00	8,231.30	7,961.56	109.00	41.15	97.73	-7,465.58	3,675.13	3,285.71	3,148.90	136.81	24.016		
15,300.00	7,870.00	8,230.01	7,960.27	110.22	41.15	97.58	-7,465.60	3,675.08	3,186.96	3,049.75	137.21	23.227		
15,400.00	7,870.00	8,228.70	7,958.96	111.47	41.15	97.44	-7,465.62	3,675.03	3,088.28	2,950.65	137.64	22.438		
15,500.00	7,870.00	8,227.38	7,957.63	112.74	41.14	97.29	-7,465.64	3,674.98	2,989.70	2,851.61	138.09	21.651		
15,600.00	7,870.00	8,226.03	7,956.29	114.03	41.14	97.14	-7,465.66	3,674.93	2,891.21	2,752.64	138.57	20.864		
15,700.00	7,870.00	8,224.67	7,954.93	115.34	41.14	96.99	-7,465.68	3,674.88	2,792.83	2,653.74	139.09	20.079		
15,800.00	7,870.00	8,223.29	7,953.56	116.68	41.13	96.83	-7,465.70	3,674.83	2,694.57	2,554.92	139.65	19.296		
15,900.00	7,870.00	8,221.90	7,952.16	118.02	41.13	96.68	-7,465.72	3,674.78	2,596.44	2,456.19	140.24	18.514		
16,000.00	7,870.00	8,220.48	7,950.75	119.39	41.12	96.52	-7,465.75	3,674.73	2,498.45	2,357.57	140.89	17.734		
16,100.00	7,870.00	8,219.05	7,949.31	120.77	41.12	96.36	-7,465.77	3,674.68	2,400.63	2,259.05	141.58	16.956		
16,200.00	7,870.00	8,217.59	7,947.86	122.17	41.12	96.19	-7,465.79	3,674.62	2,303.00	2,160.67	142.34	16.180		
16,300.00	7,870.00	8,216.12	7,946.39	123.58	41.11	96.03	-7,465.82	3,674.57	2,205.58	2,062.42	143.16	15.407		
16,400.00	7,870.00	8,214.63	7,944.90	125.00	41.11	95.86	-7,465.84	3,674.52	2,108.40	1,964.35	144.05	14.637		
16,500.00	7,870.00	8,213.11	7,943.38	126.43	41.10	95.69	-7,465.87	3,674.47	2,011.50	1,866.47	145.03	13.870		
16,600.00	7,870.00	8,211.58	7,941.85	127.88	41.10	95.52	-7,465.89	3,674.41	1,914.91	1,768.81	146.10	13.107		
16,700.00	7,870.00	8,210.02	7,940.29	129.34	41.09	95.34	-7,465.92	3,674.36	1,818.69	1,671.40	147.28	12.348		
16,800.00	7,870.00	8,208.44	7,938.72	130.81	41.09	95.16	-7,465.94	3,674.30	1,722.89	1,574.30	148.59	11.595		
16,900.00	7,870.00	8,206.84	7,937.12	132.28	41.08	94.98	-7,465.97	3,674.25	1,627.61	1,477.57	150.04	10.848		
17,000.00	7,870.00	8,205.22	7,935.49	133.77	41.08	94.80	-7,466.00	3,674.19	1,532.92	1,381.26	151.65	10.108		
17,100.00	7,870.00	8,203.57	7,933.85	135.27	41.08	94.61	-7,466.03	3,674.13	1,438.94	1,285.49	153.46	9.377		
17,200.00	7,870.00	8,201.90	7,932.18	136.77	41.07	94.43	-7,466.06	3,674.08	1,345.84	1,190.35	155.49	8.656		
17,300.00	7,870.00	8,200.20	7,930.48	138.28	41.07	94.23	-7,466.09	3,674.02	1,253.79	1,096.03	157.77	7.947		
17,400.00	7,870.00	8,198.48	7,928.77	139.80	41.06	94.04	-7,466.12	3,673.96	1,163.06	1,002.72	160.34	7.254		
17,500.00	7,870.00	8,196.74	7,927.02	141.33	41.06	93.84	-7,466.15	3,673.90	1,073.97	910.73	163.24	6.579		
17,600.00	7,870.00	8,194.97	7,925.25	142.86	41.05	93.64	-7,466.18	3,673.84	986.97	820.48	166.49	5.928		
17,700.00	7,870.00	8,193.17	7,923.45	144.40	41.05	93.44	-7,466.21	3,673.78	902.66	732.54	170.12	5.306		
17,800.00	7,870.00	8,193.40	7,923.69	145.95	41.04	93.47	-7,466.15	3,673.77	821.85	647.71	174.14	4.719		
17,900.00	7,870.00	8,190.98	7,921.27	147.50	41.04	93.19	-7,466.21	3,673.69	745.74	567.42	178.32	4.182		
18,000.00	7,870.00	8,188.61	7,918.89	149.06	41.03	92.93	-7,466.26	3,673.62	675.88	493.46	182.42	3.705		
18,100.00	7,870.00	8,186.27	7,916.56	150.63	41.02	92.66	-7,466.31	3,673.54	614.40	428.56	185.84	3.306		
18,200.00	7,870.00	8,183.98	7,914.28	152.20	41.02	92.40	-7,466.36	3,673.47	564.05	376.41	187.64	3.006		
18,300.00	7,870.00	8,181.79	7,912.08	153.77	41.01	92.16	-7,466.42	3,673.41	528.02	341.45	186.56	2.830		
18,400.00	7,870.00	8,179.79	7,910.08	155.35	41.01	91.93	-7,466.46	3,673.34	509.36	327.72	181.64	2.804 ES, SF		
18,446.83	7,870.00	8,178.84	7,909.13	156.09	41.00	91.82	-7,466.48	3,673.31	507.20	329.22	177.97	2.850 CC		
18,500.00	7,870.00	8,177.75	7,908.05	156.93	41.00	91.70	-7,466.50	3,673.28	509.98	337.04	172.94	2.949		
18,600.00	7,870.00	8,175.68	7,905.98	158.52	41.00	91.47	-7,466.54	3,673.21	529.81	367.96	161.86	3.273		
18,700.00	7,870.00	8,173.58	7,903.88	160.11	40.99	91.23	-7,466.58	3,673.15	566.85	416.50	150.36	3.770		
18,800.00	7,870.00	8,171.45	7,901.75	161.71	40.98	90.99	-7,466.62	3,673.08	618.00	478.05	139.95	4.416		
18,900.00	7,870.00	8,169.28	7,899.58	163.31	40.98	90.74	-7,466.67	3,673.01	680.10	548.70	131.39	5.176		
19,000.00	7,870.00	8,167.07	7,897.38	164.91	40.97	90.49	-7,466.71	3,672.95	750.41	625.60	124.82	6.012		
19,100.00	7,870.00	8,165.11	7,895.41	166.52	40.97	90.27	-7,466.75	3,672.89	826.86	706.85	120.01	6.890		
19,200.00	7,870.00	8,163.19	7,893.49	168.13	40.96	90.06	-7,466.79	3,672.83	907.90	791.26	116.64	7.784		
19,300.00	7,870.00	8,161.30	7,891.60	169.75	40.96	89.84	-7,466.82	3,672.77	992.40	878.03	114.37	8.677		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
19,383.51	7,870.00	8,159.74	7,890.05	171.10	40.95	89.67	-7,466.85	3,672.72	1,065.01	951.91	113.10	9.417	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	162.35	-5,369.55	1,708.39	5,634.78					
100.00	100.00	50.96	50.96	0.13	0.08	162.35	-5,369.79	1,708.26	5,635.12	5,634.90	0.22	N/A		
200.00	200.00	158.90	158.88	0.49	0.39	162.37	-5,371.24	1,707.26	5,636.15	5,635.27	0.88	6,420.597		
300.00	300.00	253.41	253.39	0.85	0.72	162.38	-5,372.16	1,706.03	5,636.68	5,635.11	1.57	3,579.030		
400.00	400.00	347.56	347.51	1.21	1.06	162.40	-5,373.32	1,704.81	5,637.47	5,635.19	2.27	2,481.301		
500.00	500.00	410.35	410.28	1.57	1.29	162.41	-5,374.36	1,703.70	5,638.55	5,635.69	2.86	1,973.246		
600.00	600.00	456.00	455.90	1.93	1.46	162.43	-5,375.64	1,702.39	5,640.43	5,637.05	3.38	1,668.112		
700.00	699.98	511.46	511.27	2.28	1.66	98.58	-5,377.87	1,700.24	5,643.43	5,639.49	3.94	1,432.643		
800.00	799.84	549.00	548.72	2.64	1.80	98.54	-5,379.84	1,698.46	5,647.92	5,643.49	4.43	1,274.804		
900.00	899.45	600.47	600.01	3.00	2.00	98.50	-5,383.17	1,695.69	5,653.89	5,648.90	4.98	1,134.470		
1,000.00	998.70	640.00	639.35	3.37	2.15	98.43	-5,386.22	1,693.36	5,661.41	5,655.90	5.50	1,028.649		
1,100.00	1,097.47	684.96	684.04	3.76	2.32	98.36	-5,390.21	1,690.48	5,670.46	5,664.40	6.06	935.020		
1,200.00	1,195.62	732.00	730.72	4.18	2.51	98.28	-5,394.99	1,687.18	5,681.07	5,674.42	6.66	853.573		
1,300.00	1,293.06	765.86	764.26	4.63	2.65	98.15	-5,398.82	1,684.62	5,693.23	5,686.00	7.23	787.784		
1,400.00	1,389.64	825.00	822.72	5.11	2.89	98.10	-5,406.34	1,679.71	5,707.06	5,699.13	7.93	719.451		
1,500.00	1,485.27	825.00	822.72	5.63	2.89	97.80	-5,406.34	1,679.71	5,722.37	5,713.93	8.44	678.204		
1,600.00	1,579.82	883.04	879.90	6.20	3.15	97.71	-5,414.68	1,674.27	5,739.18	5,729.96	9.23	621.967		
1,700.00	1,673.17	919.00	915.21	6.83	3.30	97.52	-5,420.32	1,670.53	5,757.62	5,747.65	9.97	577.455		
1,800.00	1,765.21	968.43	963.63	7.51	3.53	97.38	-5,428.54	1,664.95	5,777.55	5,766.72	10.83	533.512		
1,900.00	1,855.84	1,012.00	1,006.19	8.24	3.74	97.19	-5,436.18	1,659.61	5,798.93	5,787.21	11.71	495.052		
2,000.00	1,944.94	1,045.45	1,038.77	9.05	3.90	96.93	-5,442.34	1,655.21	5,821.85	5,809.23	12.62	461.476		
2,100.00	2,032.39	1,076.67	1,069.08	9.91	4.06	96.63	-5,448.40	1,650.84	5,846.38	5,832.82	13.56	431.178		
2,200.00	2,118.11	1,106.77	1,098.22	10.85	4.21	96.30	-5,454.51	1,646.37	5,872.52	5,857.97	14.55	403.476		
2,300.00	2,201.97	1,204.52	1,192.63	11.85	4.72	96.43	-5,474.61	1,631.00	5,899.85	5,883.91	15.95	369.922		
2,400.00	2,283.88	1,220.71	1,208.26	12.93	4.80	95.95	-5,478.00	1,628.41	5,928.49	5,911.50	17.00	348.817		
2,429.47	2,307.63	1,232.00	1,219.14	13.26	4.86	95.86	-5,480.41	1,626.62	5,937.26	5,919.91	17.35	342.258		
2,500.00	2,364.26	1,248.33	1,234.88	14.06	4.95	95.98	-5,483.94	1,624.09	5,958.70	5,940.56	18.14	328.451		
2,600.00	2,444.56	1,288.82	1,273.95	15.22	5.17	96.28	-5,492.77	1,618.15	5,990.06	5,970.70	19.36	309.367		
2,700.00	2,524.85	2,700.00	1,360.23	16.39	12.77	96.93	-5,511.89	1,606.38	6,022.11	5,995.17	26.94	223.561		
2,800.00	2,605.14	1,500.79	1,479.30	17.57	6.30	97.83	-5,537.34	1,590.38	6,054.41	6,031.94	22.47	269.479		
2,900.00	2,685.43	1,537.01	1,514.38	18.76	6.50	98.09	-5,544.89	1,585.36	6,087.55	6,063.88	23.67	257.188		
3,000.00	2,765.73	1,584.00	1,559.79	19.96	6.75	98.43	-5,554.87	1,578.59	6,121.72	6,096.80	24.92	245.641		
3,100.00	2,846.02	1,614.30	1,589.03	21.16	6.92	98.65	-5,561.44	1,574.13	6,156.90	6,130.82	26.08	236.060		
3,200.00	2,926.31	1,649.64	1,623.10	22.37	7.12	98.91	-5,569.26	1,568.93	6,193.14	6,165.88	27.26	227.181		
3,300.00	3,006.60	1,695.79	1,667.54	23.59	7.38	99.24	-5,579.67	1,562.14	6,230.40	6,201.91	28.49	218.699		
3,400.00	3,086.90	1,918.10	1,882.38	24.81	8.62	100.82	-5,627.48	1,530.91	6,268.03	6,237.38	30.64	204.540		
3,500.00	3,167.19	2,111.28	2,070.21	26.03	9.65	102.16	-5,664.02	1,504.35	6,304.15	6,271.53	32.62	193.263		
3,600.00	3,247.48	2,165.96	2,123.45	27.25	9.94	102.54	-5,673.89	1,496.80	6,340.60	6,306.73	33.87	187.213		
3,700.00	3,327.77	2,198.34	2,154.94	28.48	10.11	102.76	-5,679.89	1,492.22	6,378.03	6,343.03	34.99	182.269		
3,800.00	3,408.07	2,240.00	2,195.38	29.71	10.34	103.05	-5,687.85	1,486.19	6,416.48	6,380.33	36.15	177.480		
3,900.00	3,488.36	2,269.22	2,223.73	30.94	10.50	103.24	-5,693.57	1,482.00	6,455.88	6,418.64	37.24	173.377		
4,000.00	3,568.65	2,311.75	2,265.01	32.17	10.73	103.53	-5,702.03	1,476.22	6,496.17	6,457.79	38.38	169.268		
4,100.00	3,648.95	2,387.98	2,339.03	33.41	11.14	104.04	-5,717.33	1,466.40	6,537.24	6,497.55	39.69	164.714		
4,200.00	3,729.24	4,200.00	2,450.52	34.64	20.85	104.80	-5,739.55	1,451.21	6,578.35	6,529.69	48.66	135.190		
4,300.00	3,809.53	2,567.73	2,513.83	35.88	12.10	105.23	-5,751.91	1,442.71	6,619.88	6,577.46	42.42	156.051		
4,400.00	3,889.82	2,615.00	2,559.77	37.12	12.36	105.54	-5,761.09	1,436.42	6,662.27	6,618.73	43.54	152.998		
4,500.00	3,970.12	2,663.27	2,606.65	38.36	12.62	105.85	-5,770.59	1,429.88	6,705.42	6,660.75	44.66	150.130		
4,600.00	4,050.41	3,015.12	2,949.97	39.60	14.45	108.08	-5,832.71	1,384.71	6,747.81	6,700.45	47.36	142.475		
4,700.00	4,130.70	4,700.00	3,022.79	40.84	22.75	108.54	-5,844.21	1,375.98	6,789.17	6,733.83	55.34	122.686		
4,800.00	4,210.99	3,113.07	3,046.03	42.08	14.93	108.69	-5,847.96	1,373.24	6,831.30	6,781.74	49.56	137.849		
4,900.00	4,291.29	3,135.84	3,068.33	43.32	15.05	108.82	-5,851.72	1,370.60	6,874.41	6,823.90	50.50	136.120		
5,000.00	4,371.58	3,178.00	3,109.56	44.57	15.26	109.08	-5,859.08	1,365.69	6,918.55	6,867.01	51.54	134.245		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	3,178.00	3,109.56	45.81	15.26	109.08	-5,859.08	1,365.69	6,963.47	6,911.13	52.34	133.052		
5,200.00	4,532.16	3,221.48	3,152.00	47.05	15.49	109.34	-5,867.02	1,360.59	7,009.29	6,955.94	53.35	131.371		
5,300.00	4,612.46	3,272.00	3,201.26	48.30	15.75	109.64	-5,876.49	1,354.56	7,055.89	7,001.49	54.40	129.705		
5,400.00	4,692.75	3,304.24	3,232.65	49.54	15.92	109.84	-5,882.63	1,350.56	7,103.17	7,047.84	55.34	128.363		
5,500.00	4,773.04	3,350.97	3,278.10	50.79	16.17	110.12	-5,891.58	1,344.36	7,151.13	7,094.79	56.34	126.926		
5,600.00	4,853.34	3,390.65	3,316.64	52.03	16.39	110.36	-5,899.25	1,338.80	7,199.75	7,142.46	57.30	125.660		
5,700.00	4,933.63	3,427.44	3,352.33	53.28	16.59	110.58	-5,906.51	1,333.67	7,249.09	7,190.87	58.22	124.504		
5,800.00	5,013.92	3,459.00	3,382.94	54.53	16.76	110.77	-5,912.86	1,329.31	7,299.14	7,240.03	59.11	123.483		
5,900.00	5,094.21	3,459.00	3,382.94	55.77	16.76	110.77	-5,912.86	1,329.31	7,350.09	7,290.29	59.80	122.905		
6,000.00	5,174.51	3,502.19	3,424.76	57.02	17.01	111.03	-5,921.92	1,323.45	7,401.64	7,340.91	60.73	121.871		
6,100.00	5,254.80	3,522.23	3,444.13	58.27	17.12	111.15	-5,926.32	1,320.79	7,454.11	7,392.59	61.52	121.171		
6,200.00	5,335.09	5,492.70	5,385.05	59.52	25.09	120.89	-6,137.29	1,188.86	7,497.94	7,426.75	71.19	105.318		
6,300.00	5,415.38	5,589.68	5,482.03	60.76	25.32	121.29	-6,136.53	1,189.50	7,532.78	7,460.46	72.32	104.162		
6,400.00	5,495.68	5,684.91	5,577.25	62.01	25.55	121.68	-6,135.56	1,189.85	7,567.77	7,494.34	73.43	103.057		
6,500.00	5,575.97	5,792.82	5,685.16	63.26	25.81	122.12	-6,134.15	1,190.15	7,602.85	7,528.27	74.58	101.939		
6,600.00	5,656.26	5,888.60	5,780.92	64.51	26.04	122.51	-6,132.62	1,190.48	7,637.98	7,562.29	75.69	100.910		
6,700.00	5,736.55	5,981.10	5,873.41	65.76	26.27	122.88	-6,130.95	1,190.62	7,673.26	7,596.48	76.78	99.933		
6,800.00	5,816.85	6,057.82	5,950.11	67.01	26.46	123.19	-6,129.48	1,190.58	7,708.79	7,630.96	77.82	99.054		
6,900.00	5,897.14	6,142.29	6,034.56	68.26	26.68	123.53	-6,127.85	1,190.33	7,744.63	7,665.74	78.88	98.179		
7,000.00	5,977.43	6,236.64	6,128.89	69.50	26.92	123.91	-6,125.89	1,189.96	7,780.65	7,700.68	79.97	97.296		
7,100.00	6,057.72	6,321.46	6,213.69	70.75	27.14	124.24	-6,124.00	1,189.67	7,816.83	7,735.81	81.02	96.482		
7,200.00	6,138.02	6,413.65	6,305.85	72.00	27.37	124.60	-6,121.90	1,189.27	7,853.28	7,771.19	82.09	95.670		
7,300.00	6,218.31	6,521.15	6,413.32	73.25	27.65	125.02	-6,119.13	1,188.82	7,889.75	7,806.55	83.20	94.829		
7,400.00	6,298.60	6,607.59	6,499.72	74.50	27.88	125.35	-6,116.77	1,188.73	7,926.31	7,842.07	84.24	94.094		
7,500.00	6,378.90	6,678.29	6,570.40	75.75	28.06	125.62	-6,114.94	1,189.00	7,963.16	7,877.94	85.22	93.441		
7,600.00	6,459.19	6,741.32	6,633.42	77.00	28.22	125.86	-6,113.47	1,189.29	8,000.44	7,914.26	86.17	92.842		
7,700.00	6,539.48	6,822.56	6,714.63	78.25	28.44	126.16	-6,111.67	1,189.68	8,038.06	7,950.88	87.18	92.201		
7,800.00	6,619.77	6,886.78	6,778.84	79.50	28.61	126.40	-6,110.29	1,189.96	8,076.00	7,987.87	88.12	91.643		
7,900.00	6,700.07	6,966.76	6,858.80	80.75	28.82	126.69	-6,108.72	1,190.19	8,114.35	8,025.23	89.12	91.053		
8,000.00	6,780.36	7,065.67	6,957.69	82.00	29.08	127.05	-6,106.66	1,190.88	8,152.74	8,062.57	90.17	90.415		
8,100.00	6,860.65	7,151.87	7,043.87	83.25	29.31	127.36	-6,104.83	1,191.61	8,191.33	8,100.15	91.18	89.841		
8,200.00	6,940.94	7,237.04	7,129.01	84.50	29.54	127.67	-6,102.95	1,192.41	8,230.05	8,137.88	92.17	89.290		
8,300.00	7,021.24	7,305.45	7,197.41	85.76	29.72	127.91	-6,101.53	1,193.13	8,269.08	8,175.97	93.11	88.813		
8,400.00	7,101.53	7,431.31	7,323.23	87.01	30.06	128.35	-6,098.81	1,194.74	8,308.21	8,213.98	94.24	88.162		
8,500.00	7,181.82	7,563.03	7,454.88	88.26	30.42	128.80	-6,095.33	1,197.33	8,346.99	8,251.60	95.39	87.507		
8,605.60	7,266.61	7,669.74	7,561.50	89.58	30.70	129.15	-6,092.43	1,200.43	8,387.87	8,291.38	96.48	86.935		
8,650.00	7,302.60	7,714.83	7,606.55	90.13	30.82	122.98	-6,091.20	1,201.95	8,403.54	8,306.58	96.95	86.675		
8,700.00	7,343.78	7,766.50	7,658.17	90.72	30.96	115.65	-6,089.71	1,203.65	8,417.46	8,319.96	97.50	86.330		
8,750.00	7,385.32	7,776.00	7,667.66	91.28	30.98	107.96	-6,089.43	1,203.95	8,427.43	8,329.52	97.92	86.067		
8,800.00	7,426.92	7,811.42	7,703.05	91.81	31.08	100.42	-6,088.43	1,204.97	8,433.41	8,334.98	98.43	85.678		
8,850.00	7,468.27	7,830.62	7,722.23	92.29	31.13	93.19	-6,087.93	1,205.43	8,435.44	8,336.56	98.89	85.303		
8,900.00	7,509.04	8,141.10	8,032.25	92.72	31.96	87.72	-6,075.80	1,216.17	8,432.37	8,332.02	100.35	84.029		
8,950.00	7,548.93	8,156.00	8,047.11	93.10	32.00	81.93	-6,075.06	1,216.88	8,425.07	8,324.28	100.79	83.591		
9,000.00	7,587.63	8,156.00	8,047.11	93.43	32.00	76.93	-6,075.06	1,216.88	8,413.97	8,312.80	101.16	83.171		
9,050.00	7,624.85	8,193.76	8,084.79	93.71	32.10	72.97	-6,073.28	1,218.50	8,398.93	8,297.28	101.65	82.625		
9,100.00	7,660.30	8,208.11	8,099.12	93.93	32.14	69.76	-6,072.64	1,219.02	8,380.29	8,278.25	102.04	82.128		
9,150.00	7,693.72	8,221.52	8,112.51	94.10	32.17	67.34	-6,072.06	1,219.47	8,358.10	8,255.70	102.40	81.620		
9,200.00	7,724.85	8,250.00	8,140.95	94.23	32.25	65.77	-6,070.89	1,220.29	8,332.55	8,229.76	102.79	81.061		
9,250.00	7,753.45	8,250.00	8,140.95	94.30	32.25	64.78	-6,070.89	1,220.29	8,303.71	8,200.65	103.07	80.568		
9,300.00	7,779.31	8,259.93	8,150.87	94.34	32.28	64.59	-6,070.49	1,220.54	8,271.87	8,168.52	103.35	80.040		
9,350.00	7,802.23	8,276.57	8,167.49	94.33	32.32	65.24	-6,069.84	1,220.95	8,237.21	8,133.58	103.63	79.488		
9,400.00	7,822.03	8,290.73	8,181.64	94.28	32.36	66.76	-6,069.30	1,221.30	8,199.97	8,096.09	103.88	78.939		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,450.00	7,838.57	8,302.31	8,193.21	94.20	32.39	69.28	-6,068.85	1,221.58	8,160.42	8,056.33	104.10	78.393		
9,500.00	7,851.72	8,311.21	8,202.10	94.10	32.42	73.01	-6,068.51	1,221.80	8,118.85	8,014.56	104.29	77.852		
9,550.00	7,861.37	8,317.35	8,208.24	93.96	32.44	78.25	-6,068.28	1,221.95	8,075.55	7,971.10	104.45	77.318		
9,600.00	7,867.46	8,320.69	8,211.57	93.81	32.45	85.37	-6,068.16	1,222.03	8,030.84	7,926.26	104.58	76.792		
9,650.00	7,869.94	8,321.19	8,212.07	93.64	32.45	94.74	-6,068.14	1,222.04	7,985.03	7,880.34	104.69	76.274		
9,659.14	7,870.00	8,320.97	8,211.85	93.60	32.45	96.71	-6,068.15	1,222.03	7,976.57	7,871.86	104.71	76.181		
9,700.00	7,870.00	8,319.78	8,210.66	93.46	32.44	96.69	-6,068.19	1,222.00	7,938.69	7,833.91	104.78	75.764		
9,800.00	7,870.00	8,316.85	8,207.74	93.11	32.43	96.64	-6,068.30	1,221.93	7,846.11	7,741.13	104.97	74.745		
9,900.00	7,870.00	8,313.91	8,204.80	92.77	32.43	96.58	-6,068.41	1,221.86	7,753.71	7,648.54	105.17	73.726		
10,000.00	7,870.00	8,310.96	8,201.85	92.46	32.42	96.52	-6,068.52	1,221.79	7,661.50	7,556.12	105.38	72.707		
10,100.00	7,870.00	8,307.99	8,198.89	92.16	32.41	96.47	-6,068.64	1,221.72	7,569.49	7,463.90	105.59	71.689		
10,200.00	7,870.00	8,305.01	8,195.91	91.87	32.40	96.41	-6,068.75	1,221.65	7,477.68	7,371.87	105.81	70.671		
10,300.00	7,870.00	8,302.02	8,192.92	91.60	32.39	96.35	-6,068.86	1,221.58	7,386.08	7,280.04	106.04	69.654		
10,400.00	7,870.00	8,299.01	8,189.91	91.34	32.39	96.30	-6,068.98	1,221.50	7,294.70	7,188.42	106.28	68.638		
10,500.00	7,870.00	8,295.98	8,186.88	91.11	32.38	96.24	-6,069.09	1,221.43	7,203.55	7,097.03	106.52	67.623		
10,600.00	7,870.00	8,292.94	8,183.85	90.88	32.37	96.18	-6,069.21	1,221.36	7,112.63	7,005.85	106.78	66.609		
10,700.00	7,870.00	8,289.88	8,180.79	90.67	32.36	96.12	-6,069.33	1,221.28	7,021.97	6,914.92	107.05	65.596		
10,800.00	7,870.00	8,286.81	8,177.72	90.48	32.35	96.06	-6,069.45	1,221.21	6,931.55	6,824.22	107.33	64.584		
10,900.00	7,870.00	8,283.72	8,174.64	90.31	32.34	96.00	-6,069.57	1,221.13	6,841.40	6,733.79	107.61	63.573		
11,000.00	7,870.00	8,280.62	8,171.54	90.15	32.33	95.94	-6,069.69	1,221.05	6,751.53	6,643.61	107.91	62.564		
11,100.00	7,870.00	8,277.50	8,168.43	90.00	32.33	95.88	-6,069.81	1,220.98	6,661.94	6,553.72	108.22	61.557		
11,200.00	7,870.00	8,274.37	8,165.30	89.88	32.32	95.82	-6,069.93	1,220.90	6,572.65	6,464.10	108.55	60.552		
11,300.00	7,870.00	8,271.22	8,162.15	89.77	32.31	95.76	-6,070.05	1,220.82	6,483.67	6,374.79	108.88	59.548		
11,400.00	7,870.00	8,268.05	8,158.99	89.68	32.30	95.70	-6,070.18	1,220.74	6,395.02	6,285.79	109.23	58.547		
11,500.00	7,870.00	8,264.87	8,155.81	89.60	32.29	95.64	-6,070.30	1,220.66	6,306.70	6,197.11	109.59	57.548		
11,600.00	7,870.00	8,261.67	8,152.61	89.55	32.28	95.58	-6,070.43	1,220.58	6,218.74	6,108.77	109.97	56.551		
11,700.00	7,870.00	8,258.46	8,149.40	89.52	32.27	95.52	-6,070.55	1,220.50	6,131.14	6,020.78	110.36	55.557		
11,800.00	7,870.00	8,255.23	8,146.18	89.50	32.26	95.46	-6,070.68	1,220.42	6,043.92	5,933.16	110.76	54.567		
11,900.00	7,870.00	8,251.98	8,142.93	89.51	32.26	95.39	-6,070.81	1,220.34	5,957.11	5,845.92	111.18	53.579		
12,000.00	7,870.00	8,250.00	8,140.95	89.54	32.25	95.36	-6,070.89	1,220.29	5,870.71	5,759.08	111.63	52.592		
12,100.00	7,870.00	8,250.00	8,140.95	89.59	32.25	95.36	-6,070.89	1,220.29	5,784.75	5,672.65	112.10	51.605		
12,200.00	7,870.00	8,250.00	8,140.95	89.66	32.25	95.36	-6,070.89	1,220.29	5,699.25	5,586.66	112.59	50.621		
12,300.00	7,870.00	8,250.00	8,140.95	89.77	32.25	95.36	-6,070.89	1,220.29	5,614.23	5,501.13	113.09	49.643		
12,400.00	7,870.00	8,250.00	8,140.95	89.89	32.25	95.36	-6,070.89	1,220.29	5,529.70	5,416.08	113.62	48.669		
12,500.00	7,870.00	8,250.00	8,140.95	90.05	32.25	95.36	-6,070.89	1,220.29	5,445.71	5,331.54	114.17	47.700		
12,600.00	7,870.00	8,250.00	8,140.95	90.24	32.25	95.36	-6,070.89	1,220.29	5,362.26	5,247.52	114.73	46.736		
12,700.00	7,870.00	8,250.00	8,140.95	90.46	32.25	95.36	-6,070.89	1,220.29	5,279.39	5,164.06	115.32	45.779		
12,800.00	7,870.00	8,250.00	8,140.95	90.71	32.25	95.36	-6,070.89	1,220.29	5,197.12	5,081.18	115.94	44.828		
12,900.00	7,870.00	8,250.00	8,140.95	90.99	32.25	95.36	-6,070.89	1,220.29	5,115.48	4,998.91	116.57	43.883		
13,000.00	7,870.00	8,250.00	8,140.95	91.32	32.25	95.36	-6,070.89	1,220.29	5,034.50	4,917.27	117.23	42.946		
13,100.00	7,870.00	8,228.25	8,119.23	91.68	32.19	94.94	-6,071.78	1,219.68	4,954.12	4,836.32	117.80	42.056		
13,200.00	7,870.00	8,226.23	8,117.21	92.08	32.19	94.90	-6,071.86	1,219.62	4,874.55	4,756.05	118.50	41.137		
13,300.00	7,870.00	8,224.19	8,115.17	92.52	32.18	94.86	-6,071.95	1,219.56	4,795.74	4,676.52	119.22	40.227		
13,400.00	7,870.00	8,222.13	8,113.11	93.00	32.18	94.82	-6,072.03	1,219.49	4,717.73	4,597.76	119.97	39.325		
13,500.00	7,870.00	8,220.04	8,111.04	93.53	32.17	94.78	-6,072.12	1,219.42	4,640.56	4,519.82	120.74	38.434		
13,600.00	7,870.00	8,217.94	8,108.94	94.10	32.16	94.74	-6,072.21	1,219.36	4,564.28	4,442.74	121.54	37.552		
13,700.00	7,870.00	8,215.82	8,106.82	94.72	32.16	94.70	-6,072.30	1,219.29	4,488.93	4,366.56	122.38	36.682		
13,800.00	7,870.00	8,213.67	8,104.68	95.38	32.15	94.66	-6,072.40	1,219.21	4,414.56	4,291.32	123.23	35.822		
13,900.00	7,870.00	8,211.51	8,102.51	96.09	32.15	94.62	-6,072.49	1,219.14	4,341.21	4,217.09	124.12	34.975		
14,000.00	7,870.00	8,209.32	8,100.33	96.84	32.14	94.58	-6,072.59	1,219.07	4,268.94	4,143.90	125.04	34.141		
14,100.00	7,870.00	8,207.11	8,098.13	97.64	32.14	94.53	-6,072.68	1,218.99	4,197.81	4,071.82	125.98	33.320		
14,200.00	7,870.00	8,204.88	8,095.90	98.48	32.13	94.49	-6,072.78	1,218.91	4,127.87	4,000.91	126.96	32.514		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,202.63	8,093.65	99.37	32.12	94.45	-6,072.88	1,218.83	4,059.19	3,931.23	127.96	31.722		
14,400.00	7,870.00	8,200.35	8,091.38	100.30	32.12	94.40	-6,072.98	1,218.74	3,991.83	3,862.84	128.99	30.947		
14,500.00	7,870.00	8,198.05	8,089.08	101.26	32.11	94.36	-6,073.08	1,218.66	3,925.86	3,795.81	130.05	30.188		
14,600.00	7,870.00	8,195.73	8,086.76	102.27	32.10	94.31	-6,073.19	1,218.57	3,861.35	3,730.22	131.13	29.447		
14,700.00	7,870.00	8,193.38	8,084.42	103.31	32.10	94.27	-6,073.30	1,218.48	3,798.37	3,666.14	132.24	28.724		
14,800.00	7,870.00	8,191.01	8,082.05	104.38	32.09	94.22	-6,073.40	1,218.39	3,737.01	3,603.64	133.37	28.020		
14,900.00	7,870.00	8,188.62	8,079.66	105.49	32.09	94.18	-6,073.51	1,218.30	3,677.34	3,542.82	134.52	27.337		
15,000.00	7,870.00	8,186.19	8,077.24	106.63	32.08	94.13	-6,073.62	1,218.20	3,619.45	3,483.75	135.69	26.674		
15,100.00	7,870.00	8,183.75	8,074.80	107.80	32.07	94.08	-6,073.74	1,218.10	3,563.41	3,426.54	136.88	26.034		
15,200.00	7,870.00	8,181.27	8,072.33	109.00	32.07	94.04	-6,073.85	1,218.00	3,509.34	3,371.26	138.07	25.416		
15,300.00	7,870.00	8,178.77	8,069.84	110.22	32.06	93.99	-6,073.97	1,217.89	3,457.30	3,318.02	139.28	24.823		
15,400.00	7,870.00	8,176.25	8,067.32	111.47	32.05	93.94	-6,074.09	1,217.79	3,407.40	3,266.91	140.49	24.254		
15,500.00	7,870.00	8,173.70	8,064.77	112.74	32.05	93.89	-6,074.21	1,217.68	3,359.74	3,218.04	141.70	23.711		
15,600.00	7,870.00	8,156.00	8,047.11	114.03	32.00	93.55	-6,075.06	1,216.88	3,314.46	3,171.67	142.80	23.211		
15,700.00	7,870.00	8,156.00	8,047.11	115.34	32.00	93.55	-6,075.06	1,216.88	3,271.53	3,127.53	144.00	22.718		
15,800.00	7,870.00	8,156.00	8,047.11	116.68	32.00	93.55	-6,075.06	1,216.88	3,231.13	3,085.94	145.19	22.254		
15,900.00	7,870.00	8,156.00	8,047.11	118.02	32.00	93.55	-6,075.06	1,216.88	3,193.34	3,046.99	146.36	21.819		
16,000.00	7,870.00	8,156.00	8,047.11	119.39	32.00	93.55	-6,075.06	1,216.88	3,158.28	3,010.79	147.49	21.414		
16,100.00	7,870.00	8,156.00	8,047.11	120.77	32.00	93.55	-6,075.06	1,216.88	3,126.01	2,977.44	148.58	21.039		
16,200.00	7,870.00	8,154.51	8,045.63	122.17	31.99	93.52	-6,075.13	1,216.81	3,096.65	2,947.03	149.61	20.698		
16,300.00	7,870.00	8,150.27	8,041.40	123.58	31.98	93.44	-6,075.34	1,216.61	3,070.25	2,919.68	150.57	20.390		
16,400.00	7,870.00	8,145.99	8,037.12	125.00	31.97	93.36	-6,075.55	1,216.41	3,046.90	2,895.43	151.47	20.115		
16,500.00	7,870.00	8,141.65	8,032.80	126.43	31.96	93.27	-6,075.77	1,216.20	3,026.68	2,874.38	152.30	19.873		
16,600.00	7,870.00	8,137.27	8,028.42	127.88	31.95	93.19	-6,075.99	1,215.99	3,009.63	2,856.58	153.05	19.664		
16,700.00	7,870.00	8,132.83	8,024.00	129.34	31.94	93.10	-6,076.21	1,215.78	2,995.82	2,842.09	153.72	19.488		
16,800.00	7,870.00	8,128.34	8,019.52	130.81	31.93	93.02	-6,076.44	1,215.56	2,985.28	2,830.98	154.30	19.347		
16,900.00	7,870.00	8,123.81	8,014.99	132.28	31.91	92.93	-6,076.67	1,215.34	2,978.07	2,823.27	154.79	19.239		
17,000.00	7,870.00	8,119.21	8,010.41	133.77	31.90	92.84	-6,076.91	1,215.12	2,974.19	2,819.00	155.18	19.166		
17,065.71	7,870.00	8,116.17	8,007.37	134.75	31.89	92.78	-6,077.06	1,214.97	2,973.46	2,818.08	155.39	19.136 CC, ES		
17,100.00	7,870.00	8,114.57	8,005.78	135.27	31.89	92.75	-6,077.15	1,214.89	2,973.66	2,818.18	155.48	19.126		
17,200.00	7,870.00	8,109.87	8,001.09	136.77	31.88	92.66	-6,077.39	1,214.67	2,976.49	2,820.82	155.67	19.121 SF		
17,300.00	7,870.00	8,105.11	7,996.35	138.28	31.87	92.57	-6,077.64	1,214.43	2,982.66	2,826.90	155.76	19.149		
17,400.00	7,870.00	8,100.30	7,991.55	139.80	31.85	92.48	-6,077.89	1,214.20	2,992.15	2,836.40	155.75	19.212		
17,500.00	7,870.00	8,095.43	7,986.69	141.33	31.84	92.38	-6,078.15	1,213.96	3,004.93	2,849.29	155.64	19.307		
17,600.00	7,870.00	8,090.50	7,981.77	142.86	31.83	92.29	-6,078.41	1,213.71	3,020.97	2,865.53	155.43	19.436		
17,700.00	7,870.00	8,085.51	7,976.79	144.40	31.81	92.19	-6,078.68	1,213.46	3,040.20	2,885.06	155.14	19.597		
17,800.00	7,870.00	8,080.46	7,971.76	145.95	31.80	92.10	-6,078.95	1,213.21	3,062.56	2,907.81	154.75	19.790		
17,900.00	7,870.00	8,075.34	7,966.66	147.50	31.79	92.00	-6,079.22	1,212.95	3,088.00	2,933.72	154.29	20.015		
18,000.00	7,870.00	8,077.81	7,969.12	149.06	31.80	92.05	-6,079.05	1,213.11	3,116.42	2,962.64	153.78	20.265		
18,100.00	7,870.00	8,067.90	7,959.23	150.63	31.77	91.85	-6,079.62	1,212.59	3,147.77	2,994.63	153.15	20.554		
18,200.00	7,870.00	8,058.66	7,950.02	152.20	31.75	91.68	-6,080.14	1,212.11	3,181.94	3,029.49	152.45	20.872		
18,300.00	7,870.00	8,050.04	7,941.42	153.77	31.72	91.51	-6,080.60	1,211.69	3,218.84	3,067.15	151.70	21.219		
18,400.00	7,870.00	8,041.97	7,933.37	155.35	31.70	91.36	-6,081.02	1,211.30	3,258.38	3,107.48	150.90	21.593		
18,500.00	7,870.00	8,034.40	7,925.82	156.93	31.68	91.21	-6,081.40	1,210.95	3,300.47	3,150.40	150.07	21.993		
18,600.00	7,870.00	8,027.29	7,918.72	158.52	31.66	91.07	-6,081.75	1,210.64	3,345.00	3,195.81	149.20	22.420		
18,700.00	7,870.00	8,020.59	7,912.04	160.11	31.65	90.94	-6,082.07	1,210.35	3,391.89	3,243.59	148.30	22.872		
18,800.00	7,870.00	8,014.27	7,905.73	161.71	31.63	90.82	-6,082.36	1,210.09	3,441.04	3,293.66	147.38	23.348		
18,900.00	7,870.00	8,008.30	7,899.78	163.31	31.61	90.71	-6,082.63	1,209.85	3,492.35	3,345.91	146.44	23.848		
19,000.00	7,870.00	8,002.66	7,894.14	164.91	31.60	90.60	-6,082.87	1,209.63	3,545.73	3,400.24	145.49	24.370		
19,100.00	7,870.00	7,997.31	7,888.80	166.52	31.58	90.50	-6,083.10	1,209.42	3,601.10	3,456.56	144.54	24.914		
19,200.00	7,870.00	7,992.23	7,883.73	168.13	31.57	90.40	-6,083.31	1,209.24	3,658.35	3,514.77	143.58	25.479		
19,300.00	7,870.00	7,987.40	7,878.91	169.75	31.56	90.31	-6,083.50	1,209.06	3,717.41	3,574.78	142.62	26.064		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
19,383.51	7,870.00	7,983.97	7,875.48	171.10	31.55	90.24	-6,083.65	1,208.94	3,768.04	3,626.21	141.83	26.567	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	162.38	-5,380.48	1,708.39	5,645.19					
100.00	100.00	109.39	109.39	0.13	0.20	162.38	-5,380.27	1,708.31	5,644.99	5,644.65	0.34	N/A		
178.60	178.60	172.52	172.52	0.42	0.42	162.38	-5,380.14	1,708.45	5,644.88	5,644.04	0.84	6,713.824		
200.00	200.00	185.00	185.00	0.49	0.47	162.38	-5,380.13	1,708.50	5,644.89	5,643.93	0.96	5,871.652		
300.00	300.00	227.38	227.38	0.85	0.62	162.38	-5,380.25	1,708.99	5,645.54	5,644.07	1.47	3,841.718		
400.00	400.00	274.00	273.98	1.21	0.78	162.37	-5,380.77	1,710.13	5,647.26	5,645.27	1.99	2,835.193		
500.00	500.00	307.33	307.28	1.57	0.90	162.36	-5,381.37	1,711.38	5,650.03	5,647.56	2.47	2,287.210		
600.00	600.00	365.00	364.84	1.93	1.11	162.33	-5,382.84	1,714.50	5,653.93	5,650.90	3.03	1,863.634		
700.00	699.98	365.00	364.84	2.28	1.11	98.41	-5,382.84	1,714.50	5,659.13	5,655.74	3.39	1,670.121		
800.00	799.84	421.80	421.46	2.64	1.32	98.27	-5,384.95	1,718.53	5,665.81	5,661.86	3.95	1,435.025		
900.00	899.45	456.00	455.51	3.00	1.45	98.11	-5,386.62	1,721.27	5,674.21	5,669.77	4.43	1,280.286		
1,000.00	998.70	500.07	499.32	3.37	1.62	97.93	-5,389.06	1,725.44	5,684.15	5,679.18	4.97	1,143.931		
1,100.00	1,097.47	549.00	547.82	3.76	1.81	97.74	-5,392.01	1,731.14	5,695.60	5,690.06	5.54	1,028.164		
1,200.00	1,195.62	579.10	577.60	4.18	1.94	97.51	-5,394.00	1,735.09	5,708.53	5,702.46	6.07	940.986		
1,300.00	1,293.06	640.00	637.70	4.63	2.19	97.29	-5,398.70	1,743.69	5,723.14	5,716.40	6.74	848.847		
1,400.00	1,389.64	640.00	637.70	5.11	2.19	96.97	-5,398.70	1,743.69	5,739.03	5,731.83	7.21	796.133		
1,500.00	1,485.27	691.09	687.98	5.63	2.42	96.71	-5,403.29	1,751.50	5,756.46	5,748.53	7.92	726.453		
1,600.00	1,579.82	732.00	728.14	6.20	2.60	96.41	-5,407.37	1,758.13	5,775.36	5,766.72	8.64	668.513		
1,700.00	1,673.17	762.36	757.88	6.83	2.75	96.07	-5,410.64	1,763.32	5,795.72	5,786.35	9.36	619.007		
1,800.00	1,765.21	795.08	789.83	7.51	2.91	95.71	-5,414.40	1,769.26	5,817.55	5,807.40	10.15	573.365		
1,900.00	1,855.84	825.00	818.97	8.24	3.05	95.32	-5,418.06	1,775.00	5,840.82	5,829.85	10.97	532.461		
2,000.00	1,944.94	865.42	858.22	9.05	3.26	94.94	-5,423.30	1,783.13	5,865.46	5,853.55	11.91	492.676		
2,100.00	2,032.39	919.00	910.05	9.91	3.54	94.59	-5,430.71	1,794.46	5,891.46	5,878.50	12.96	454.563		
2,200.00	2,118.11	950.89	940.82	10.85	3.71	94.15	-5,435.31	1,801.46	5,918.58	5,904.60	13.98	423.354		
2,300.00	2,201.97	1,013.00	1,000.65	11.85	4.05	93.81	-5,444.45	1,815.39	5,946.72	5,931.51	15.21	390.987		
2,400.00	2,283.88	1,058.60	1,044.51	12.93	4.31	93.39	-5,451.38	1,825.79	5,975.83	5,959.41	16.42	363.907		
2,429.47	2,307.63	1,073.03	1,058.38	13.26	4.40	93.27	-5,453.63	1,829.08	5,984.60	5,967.81	16.80	356.314		
2,500.00	2,364.26	1,106.00	1,090.05	14.06	4.58	93.42	-5,458.86	1,836.59	6,005.91	5,988.21	17.70	339.366		
2,600.00	2,444.56	1,162.14	1,143.95	15.22	4.91	93.68	-5,468.05	1,849.34	6,036.77	6,017.74	19.04	317.138		
2,700.00	2,524.85	1,213.00	1,192.74	16.39	5.21	93.91	-5,476.66	1,860.81	6,068.38	6,048.02	20.35	298.157		
2,800.00	2,605.14	1,394.20	1,367.08	17.57	6.26	94.73	-5,507.17	1,899.63	6,100.10	6,077.70	22.40	272.384		
2,900.00	2,685.43	1,437.65	1,409.04	18.76	6.51	94.93	-5,514.35	1,908.33	6,131.50	6,107.81	23.68	258.914		
3,000.00	2,765.73	1,490.00	1,459.56	19.96	6.81	95.18	-5,523.49	1,918.58	6,163.82	6,138.81	25.02	246.387		
3,100.00	2,846.02	1,514.80	1,483.46	21.16	6.95	95.29	-5,528.02	1,923.34	6,197.03	6,170.83	26.19	236.576		
3,200.00	2,926.31	1,549.10	1,516.52	22.37	7.15	95.45	-5,534.54	1,929.84	6,231.22	6,203.80	27.42	227.251		
3,300.00	3,006.60	1,584.00	1,550.10	23.59	7.35	95.62	-5,541.46	1,936.33	6,266.37	6,237.73	28.64	218.774		
3,400.00	3,086.90	1,627.15	1,591.57	24.81	7.60	95.82	-5,550.33	1,944.27	6,302.41	6,272.51	29.91	210.739		
3,500.00	3,167.19	1,678.00	1,640.39	26.03	7.90	96.06	-5,561.10	1,953.58	6,339.26	6,308.05	31.21	203.121		
3,600.00	3,247.48	1,745.48	1,705.14	27.25	8.30	96.38	-5,575.67	1,965.73	6,376.73	6,344.13	32.60	195.579		
3,700.00	3,327.77	2,182.75	2,128.92	28.48	10.69	98.47	-5,659.30	2,033.05	6,411.62	6,375.57	36.05	177.863		
3,800.00	3,408.07	2,240.00	2,184.76	29.71	10.99	98.75	-5,669.24	2,040.80	6,445.63	6,408.25	37.38	172.441		
3,900.00	3,488.36	2,289.59	2,233.09	30.94	11.25	98.98	-5,678.05	2,047.61	6,480.31	6,441.65	38.67	167.601		
4,000.00	3,568.65	2,361.97	2,303.63	32.17	11.62	99.33	-5,690.74	2,057.66	6,515.31	6,475.24	40.07	162.598		
4,100.00	3,648.95	2,406.56	2,347.07	33.41	11.86	99.54	-5,698.80	2,063.70	6,551.02	6,509.71	41.32	158.558		
4,200.00	3,729.24	2,509.82	2,447.66	34.64	12.40	100.02	-5,717.80	2,077.23	6,587.33	6,544.45	42.88	153.623		
4,300.00	3,809.53	2,574.68	2,510.87	35.88	12.74	100.33	-5,729.54	2,085.79	6,623.72	6,579.49	44.23	149.759		
4,400.00	3,889.82	2,615.00	2,550.12	37.12	12.95	100.51	-5,736.93	2,091.35	6,660.74	6,615.30	45.43	146.604		
4,500.00	3,970.12	2,664.63	2,598.32	38.36	13.22	100.74	-5,746.26	2,098.57	6,698.49	6,651.80	46.69	143.464		
4,600.00	4,050.41	4,600.00	2,685.42	39.60	24.16	101.13	-5,763.49	2,113.04	6,736.92	6,680.19	56.73	118.747		
4,700.00	4,130.70	2,866.58	2,793.86	40.84	14.35	101.61	-5,784.17	2,131.90	6,775.07	6,725.22	49.84	135.928		
4,800.00	4,210.99	2,929.75	2,855.09	42.08	14.71	101.88	-5,795.94	2,142.02	6,813.61	6,762.43	51.18	133.131		
4,900.00	4,291.29	3,004.57	2,927.60	43.32	15.12	102.20	-5,810.02	2,153.94	6,852.56	6,799.98	52.58	130.321		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	3,098.10	3,018.28	44.57	15.64	102.59	-5,827.57	2,168.64	6,891.73	6,837.64	54.10	127.394		
5,100.00	4,451.87	3,159.32	3,077.69	45.81	15.98	102.86	-5,839.15	2,177.79	6,931.25	6,875.85	55.40	125.116		
5,200.00	4,532.16	3,215.43	3,132.17	47.05	16.29	103.10	-5,849.92	2,185.87	6,971.26	6,914.60	56.66	123.035		
5,300.00	4,612.46	3,272.00	3,187.00	48.30	16.60	103.33	-5,861.00	2,194.26	7,011.85	6,953.93	57.92	121.062		
5,400.00	4,692.75	3,319.98	3,233.46	49.54	16.87	103.54	-5,870.58	2,201.48	7,053.03	6,993.91	59.12	119.304		
5,500.00	4,773.04	3,417.95	3,328.26	50.79	17.42	103.94	-5,890.43	2,216.22	7,094.76	7,034.12	60.64	116.997		
5,600.00	4,853.34	3,509.62	3,417.00	52.03	17.94	104.31	-5,908.42	2,230.53	7,136.17	7,074.05	62.12	114.868		
5,700.00	4,933.63	3,553.00	3,458.93	53.28	18.18	104.49	-5,917.03	2,237.57	7,178.09	7,114.81	63.28	113.430		
5,800.00	5,013.92	3,591.85	3,496.43	54.53	18.41	104.64	-5,924.95	2,243.96	7,220.70	7,156.30	64.40	112.119		
5,900.00	5,094.21	3,647.00	3,549.53	55.77	18.73	104.86	-5,936.74	2,253.01	7,264.20	7,198.57	65.63	110.687		
6,000.00	5,174.51	3,668.91	3,570.60	57.02	18.86	104.94	-5,941.54	2,256.66	7,308.24	7,241.63	66.61	109.712		
6,100.00	5,254.80	5,572.07	5,441.79	58.27	26.86	112.63	-6,133.88	2,436.57	7,350.86	7,273.75	77.11	95.325		
6,200.00	5,335.09	5,646.07	5,515.76	59.52	27.01	112.96	-6,131.95	2,435.56	7,375.51	7,297.18	78.33	94.156		
6,300.00	5,415.38	5,719.41	5,589.07	60.76	27.17	113.29	-6,130.13	2,434.37	7,400.66	7,321.12	79.54	93.042		
6,400.00	5,495.68	5,820.86	5,690.47	62.01	27.39	113.74	-6,127.45	2,432.79	7,426.07	7,345.26	80.81	91.896		
6,500.00	5,575.97	5,890.90	5,760.48	63.26	27.54	114.06	-6,125.57	2,431.78	7,451.86	7,369.86	82.00	90.882		
6,600.00	5,656.26	6,006.03	5,875.55	64.51	27.80	114.56	-6,122.33	2,430.14	7,477.92	7,394.63	83.28	89.788		
6,700.00	5,736.55	6,099.25	5,968.72	65.76	28.00	114.97	-6,119.41	2,428.84	7,504.11	7,419.60	84.51	88.793		
6,800.00	5,816.85	6,206.17	6,075.56	67.01	28.25	115.44	-6,115.77	2,427.52	7,530.45	7,444.69	85.77	87.799		
6,900.00	5,897.14	6,299.67	6,169.00	68.26	28.46	115.84	-6,112.27	2,426.44	7,556.89	7,469.90	86.99	86.875		
7,000.00	5,977.43	6,365.11	6,234.39	69.50	28.61	116.13	-6,109.89	2,425.77	7,583.77	7,495.64	88.13	86.056		
7,100.00	6,057.72	6,444.44	6,313.66	70.75	28.80	116.46	-6,107.10	2,425.23	7,611.10	7,521.81	89.30	85.234		
7,200.00	6,138.02	6,519.11	6,388.29	72.00	28.98	116.78	-6,104.54	2,425.13	7,638.82	7,548.37	90.45	84.451		
7,300.00	6,218.31	6,582.91	6,452.06	73.25	29.14	117.04	-6,102.46	2,425.39	7,667.00	7,575.42	91.57	83.725		
7,400.00	6,298.60	6,638.16	6,507.29	74.50	29.28	117.27	-6,100.86	2,425.77	7,695.76	7,603.10	92.66	83.050		
7,500.00	6,378.90	6,717.73	6,586.82	75.75	29.49	117.59	-6,098.71	2,426.35	7,725.03	7,631.21	93.82	82.340		
7,600.00	6,459.19	6,828.37	6,697.41	77.00	29.77	118.05	-6,095.47	2,426.48	7,754.49	7,659.44	95.05	81.584		
7,700.00	6,539.48	6,933.25	6,802.22	78.25	30.03	118.48	-6,091.87	2,425.49	7,783.96	7,687.72	96.24	80.880		
7,800.00	6,619.77	7,000.59	6,869.52	79.50	30.19	118.76	-6,089.47	2,424.42	7,813.73	7,716.41	97.32	80.291		
7,900.00	6,700.07	7,076.12	6,944.99	80.75	30.37	119.07	-6,086.84	2,422.99	7,843.93	7,745.53	98.41	79.709		
8,000.00	6,780.36	7,148.17	7,016.99	82.00	30.55	119.37	-6,084.37	2,421.73	7,874.51	7,775.03	99.48	79.158		
8,100.00	6,860.65	7,213.56	7,082.33	83.25	30.71	119.64	-6,082.24	2,420.55	7,905.56	7,805.04	100.52	78.644		
8,200.00	6,940.94	7,310.13	7,178.84	84.50	30.96	120.03	-6,079.13	2,419.10	7,936.92	7,835.27	101.65	78.080		
8,300.00	7,021.24	7,373.45	7,242.12	85.76	31.12	120.29	-6,077.12	2,418.30	7,968.62	7,865.94	102.68	77.607		
8,400.00	7,101.53	7,437.82	7,306.45	87.01	31.28	120.55	-6,075.19	2,417.41	8,000.79	7,897.09	103.70	77.152		
8,500.00	7,181.82	7,502.02	7,370.62	88.26	31.45	120.80	-6,073.38	2,416.45	8,033.44	7,928.73	104.71	76.718		
8,605.60	7,266.61	7,570.42	7,438.99	89.58	31.63	121.08	-6,071.57	2,415.29	8,068.42	7,962.65	105.77	76.280		
8,650.00	7,302.60	7,598.58	7,467.14	90.13	31.70	115.15	-6,070.86	2,414.77	8,081.67	7,975.45	106.22	76.083		
8,700.00	7,343.78	7,629.19	7,497.73	90.72	31.78	108.00	-6,070.13	2,414.24	8,092.80	7,986.06	106.74	75.820		
8,750.00	7,385.32	7,660.06	7,528.59	91.28	31.86	100.58	-6,069.44	2,413.75	8,099.83	7,992.57	107.26	75.514		
8,800.00	7,426.92	7,710.66	7,579.17	91.81	32.00	93.24	-6,068.39	2,413.17	8,102.71	7,994.85	107.86	75.122		
8,850.00	7,468.27	7,819.97	7,688.45	92.29	32.31	86.46	-6,066.00	2,414.45	8,101.16	7,992.49	108.67	74.550		
8,900.00	7,509.04	8,900.00	7,702.87	92.72	35.44	79.87	-6,065.61	2,415.77	8,095.05	7,982.61	112.44	71.993		
8,950.00	7,548.93	7,984.31	7,852.59	93.10	32.81	74.59	-6,061.70	2,421.11	8,084.69	7,974.58	110.10	73.428		
9,000.00	7,587.63	8,024.54	7,892.77	93.43	32.93	69.70	-6,060.43	2,422.57	8,070.17	7,959.52	110.64	72.938		
9,050.00	7,624.85	8,068.30	7,936.49	93.71	33.06	65.67	-6,058.97	2,423.96	8,051.67	7,940.50	111.18	72.422		
9,100.00	7,660.30	8,098.84	7,967.01	93.93	33.15	62.39	-6,057.93	2,424.80	8,029.38	7,917.74	111.64	71.924		
9,150.00	7,693.72	8,128.84	7,996.97	94.10	33.23	59.88	-6,056.90	2,425.53	8,003.46	7,891.39	112.07	71.415		
9,200.00	7,724.85	8,156.48	8,024.59	94.23	33.31	58.09	-6,055.93	2,426.12	7,974.11	7,861.64	112.47	70.901		
9,250.00	7,753.45	8,179.45	8,047.54	94.30	33.38	56.99	-6,055.13	2,426.56	7,941.54	7,828.72	112.82	70.390		
9,300.00	7,779.31	8,200.05	8,068.13	94.34	33.44	56.61	-6,054.42	2,426.92	7,906.00	7,792.86	113.14	69.878		
9,350.00	7,802.23	8,218.11	8,086.18	94.33	33.49	57.01	-6,053.81	2,427.23	7,867.74	7,754.32	113.42	69.366		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	8,233.48	8,101.54	94.28	33.54	58.32	-6,053.28	2,427.47	7,827.04	7,713.37	113.67	68.857		
9,450.00	7,838.57	8,246.06	8,114.11	94.20	33.57	60.77	-6,052.86	2,427.66	7,784.18	7,670.30	113.88	68.351		
9,500.00	7,851.72	8,256.24	8,124.28	94.10	33.60	64.77	-6,052.52	2,427.81	7,739.48	7,625.42	114.07	67.851		
9,550.00	7,861.37	8,263.54	8,131.58	93.96	33.62	71.04	-6,052.27	2,427.91	7,693.27	7,579.05	114.22	67.356		
9,600.00	7,867.46	8,267.58	8,136.61	93.81	33.63	80.74	-6,052.13	2,427.97	7,645.87	7,531.53	114.34	66.871		
9,650.00	7,869.94	8,268.32	8,136.36	93.64	33.64	95.47	-6,052.11	2,427.98	7,597.64	7,483.21	114.43	66.396		
9,659.14	7,870.00	8,268.10	8,136.13	93.60	33.64	98.80	-6,052.12	2,427.97	7,588.77	7,474.32	114.44	66.310		
9,700.00	7,870.00	8,266.86	8,134.90	93.46	33.63	98.76	-6,052.16	2,427.96	7,549.05	7,434.54	114.50	65.928		
9,800.00	7,870.00	8,263.83	8,131.87	93.11	33.62	98.67	-6,052.26	2,427.91	7,451.90	7,337.24	114.66	64.994		
9,900.00	7,870.00	8,260.80	8,128.83	92.77	33.61	98.57	-6,052.36	2,427.87	7,354.82	7,240.01	114.81	64.059		
10,000.00	7,870.00	8,257.76	8,125.80	92.46	33.61	98.47	-6,052.46	2,427.83	7,257.82	7,142.85	114.97	63.126		
10,100.00	7,870.00	8,254.71	8,122.76	92.16	33.60	98.38	-6,052.57	2,427.78	7,160.91	7,045.76	115.14	62.192		
10,200.00	7,870.00	8,251.67	8,119.71	91.87	33.59	98.28	-6,052.67	2,427.74	7,064.07	6,948.76	115.31	61.259		
10,300.00	7,870.00	8,248.72	8,116.77	91.60	33.58	98.19	-6,052.77	2,427.70	6,967.33	6,851.84	115.49	60.327		
10,400.00	7,870.00	8,245.89	8,113.94	91.34	33.57	98.09	-6,052.86	2,427.66	6,870.68	6,755.00	115.68	59.394		
10,500.00	7,870.00	8,243.05	8,111.10	91.11	33.56	98.00	-6,052.96	2,427.61	6,774.12	6,658.25	115.87	58.462		
10,600.00	7,870.00	8,240.21	8,108.26	90.88	33.56	97.91	-6,053.06	2,427.57	6,677.66	6,561.59	116.07	57.531		
10,700.00	7,870.00	8,237.36	8,105.41	90.67	33.55	97.82	-6,053.15	2,427.53	6,581.31	6,465.03	116.28	56.600		
10,800.00	7,870.00	8,234.50	8,102.55	90.48	33.54	97.73	-6,053.25	2,427.49	6,485.07	6,368.58	116.49	55.670		
10,900.00	7,870.00	8,231.63	8,099.69	90.31	33.53	97.64	-6,053.35	2,427.44	6,388.94	6,272.23	116.71	54.741		
11,000.00	7,870.00	8,228.76	8,096.82	90.15	33.52	97.55	-6,053.44	2,427.40	6,292.93	6,175.99	116.94	53.813		
11,100.00	7,870.00	8,225.88	8,093.94	90.00	33.51	97.45	-6,053.54	2,427.35	6,197.04	6,079.86	117.18	52.885		
11,200.00	7,870.00	8,223.00	8,091.06	89.88	33.51	97.36	-6,053.64	2,427.31	6,101.29	5,983.86	117.43	51.959		
11,300.00	7,870.00	8,220.11	8,088.17	89.77	33.50	97.27	-6,053.74	2,427.26	6,005.67	5,887.99	117.68	51.033		
11,400.00	7,870.00	8,217.21	8,085.27	89.68	33.49	97.17	-6,053.84	2,427.21	5,910.19	5,792.25	117.95	50.109		
11,500.00	7,870.00	8,214.30	8,082.37	89.60	33.48	97.08	-6,053.94	2,427.16	5,814.87	5,696.65	118.22	49.186		
11,600.00	7,870.00	8,211.39	8,079.46	89.55	33.47	96.99	-6,054.04	2,427.12	5,719.70	5,601.19	118.51	48.265		
11,700.00	7,870.00	8,208.47	8,076.54	89.52	33.46	96.89	-6,054.14	2,427.07	5,624.70	5,505.90	118.80	47.345		
11,800.00	7,870.00	8,205.54	8,073.62	89.50	33.46	96.80	-6,054.24	2,427.02	5,529.87	5,410.76	119.11	46.426		
11,900.00	7,870.00	8,202.61	8,070.68	89.51	33.45	96.71	-6,054.34	2,426.97	5,435.23	5,315.80	119.43	45.509		
12,000.00	7,870.00	8,199.67	8,067.74	89.54	33.44	96.61	-6,054.44	2,426.92	5,340.78	5,221.02	119.76	44.594		
12,100.00	7,870.00	8,196.72	8,064.80	89.59	33.43	96.52	-6,054.54	2,426.87	5,246.54	5,126.42	120.11	43.681		
12,200.00	7,870.00	8,193.76	8,061.85	89.66	33.42	96.42	-6,054.64	2,426.81	5,152.50	5,032.03	120.47	42.770		
12,300.00	7,870.00	8,190.80	8,058.88	89.77	33.41	96.32	-6,054.74	2,426.76	5,058.70	4,937.85	120.85	41.861		
12,400.00	7,870.00	8,187.83	8,055.92	89.89	33.40	96.23	-6,054.84	2,426.71	4,965.14	4,843.90	121.24	40.954		
12,500.00	7,870.00	8,184.85	8,052.94	90.05	33.40	96.13	-6,054.95	2,426.66	4,871.83	4,750.18	121.64	40.050		
12,600.00	7,870.00	8,181.87	8,049.96	90.24	33.39	96.04	-6,055.05	2,426.60	4,778.78	4,656.72	122.07	39.149		
12,700.00	7,870.00	8,178.88	8,046.97	90.46	33.38	95.94	-6,055.15	2,426.55	4,686.03	4,563.52	122.51	38.251		
12,800.00	7,870.00	8,175.88	8,043.97	90.71	33.37	95.84	-6,055.26	2,426.49	4,593.57	4,470.60	122.97	37.356		
12,900.00	7,870.00	8,172.87	8,040.97	90.99	33.36	95.75	-6,055.36	2,426.43	4,501.43	4,377.99	123.45	36.464		
13,000.00	7,870.00	8,169.86	8,037.96	91.32	33.35	95.65	-6,055.47	2,426.38	4,409.64	4,285.69	123.95	35.576		
13,100.00	7,870.00	8,166.84	8,034.94	91.68	33.34	95.55	-6,055.57	2,426.32	4,318.21	4,193.73	124.47	34.692		
13,200.00	7,870.00	8,163.81	8,031.92	92.08	33.33	95.45	-6,055.68	2,426.26	4,227.16	4,102.14	125.02	33.813		
13,300.00	7,870.00	8,160.77	8,028.88	92.52	33.33	95.36	-6,055.78	2,426.20	4,136.52	4,010.93	125.59	32.937		
13,400.00	7,870.00	8,157.73	8,025.84	93.00	33.32	95.26	-6,055.89	2,426.14	4,046.32	3,920.14	126.18	32.067		
13,500.00	7,870.00	8,154.69	8,022.80	93.53	33.31	95.16	-6,056.00	2,426.08	3,956.59	3,829.79	126.81	31.202		
13,600.00	7,870.00	8,151.66	8,019.78	94.10	33.30	95.06	-6,056.10	2,426.02	3,867.36	3,739.91	127.46	30.343		
13,700.00	7,870.00	8,148.64	8,016.76	94.72	33.29	94.96	-6,056.21	2,425.96	3,778.67	3,650.53	128.14	29.489		
13,800.00	7,870.00	8,145.62	8,013.75	95.38	33.28	94.87	-6,056.31	2,425.90	3,690.55	3,561.71	128.85	28.643		
13,900.00	7,870.00	8,142.61	8,010.74	96.09	33.27	94.77	-6,056.42	2,425.84	3,603.05	3,473.46	129.59	27.803		
14,000.00	7,870.00	8,139.61	8,007.74	96.84	33.26	94.67	-6,056.52	2,425.77	3,516.22	3,385.85	130.37	26.971		
14,100.00	7,870.00	8,136.61	8,004.74	97.64	33.26	94.57	-6,056.63	2,425.71	3,430.10	3,298.91	131.18	26.148		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	8,133.62	8,001.75	98.48	33.25	94.48	-6,056.73	2,425.64	3,344.74	3,212.71	132.03	25.333		
14,300.00	7,870.00	8,130.63	7,998.76	99.37	33.24	94.38	-6,056.83	2,425.57	3,260.22	3,127.30	132.92	24.528		
14,400.00	7,870.00	8,127.64	7,995.78	100.30	33.23	94.28	-6,056.94	2,425.51	3,176.59	3,042.75	133.84	23.734		
14,500.00	7,870.00	8,124.67	7,992.81	101.26	33.22	94.19	-6,057.04	2,425.44	3,093.94	2,959.13	134.81	22.950		
14,600.00	7,870.00	8,121.69	7,989.84	102.27	33.21	94.09	-6,057.14	2,425.37	3,012.33	2,876.51	135.82	22.179		
14,700.00	7,870.00	8,118.73	7,986.87	103.31	33.20	93.99	-6,057.25	2,425.30	2,931.85	2,794.99	136.86	21.422		
14,800.00	7,870.00	8,115.77	7,983.91	104.38	33.19	93.90	-6,057.35	2,425.23	2,852.61	2,714.66	137.95	20.678		
14,900.00	7,870.00	8,112.81	7,980.96	105.49	33.19	93.80	-6,057.45	2,425.16	2,774.70	2,635.62	139.08	19.950		
15,000.00	7,870.00	8,109.86	7,978.01	106.63	33.18	93.71	-6,057.55	2,425.08	2,698.25	2,558.00	140.25	19.239		
15,100.00	7,870.00	8,106.91	7,975.07	107.80	33.17	93.61	-6,057.65	2,425.01	2,623.38	2,481.93	141.45	18.546		
15,200.00	7,870.00	8,103.97	7,972.13	109.00	33.16	93.52	-6,057.76	2,424.94	2,550.23	2,407.54	142.69	17.872		
15,300.00	7,870.00	8,101.04	7,969.20	110.22	33.15	93.42	-6,057.86	2,424.86	2,478.95	2,334.99	143.96	17.220		
15,400.00	7,870.00	8,098.11	7,966.27	111.47	33.14	93.33	-6,057.96	2,424.79	2,409.71	2,264.47	145.25	16.590		
15,500.00	7,870.00	8,095.19	7,963.35	112.74	33.13	93.23	-6,058.06	2,424.71	2,342.69	2,196.14	146.55	15.986		
15,600.00	7,870.00	8,092.27	7,960.43	114.03	33.13	93.14	-6,058.16	2,424.63	2,278.08	2,130.23	147.86	15.408		
15,700.00	7,870.00	8,089.35	7,957.52	115.34	33.12	93.04	-6,058.26	2,424.55	2,216.10	2,066.95	149.15	14.858		
15,800.00	7,870.00	8,086.44	7,954.62	116.68	33.11	92.95	-6,058.36	2,424.47	2,156.97	2,006.55	150.43	14.339		
15,900.00	7,870.00	8,083.54	7,951.72	118.02	33.10	92.85	-6,058.46	2,424.39	2,100.94	1,949.28	151.66	13.853		
16,000.00	7,870.00	8,080.64	7,948.82	119.39	33.09	92.76	-6,058.55	2,424.31	2,048.25	1,895.42	152.82	13.403		
16,100.00	7,870.00	8,077.75	7,945.93	120.77	33.08	92.66	-6,058.65	2,424.23	1,999.17	1,845.27	153.90	12.990		
16,200.00	7,870.00	8,074.86	7,943.05	122.17	33.08	92.57	-6,058.75	2,424.15	1,953.98	1,799.11	154.87	12.617		
16,300.00	7,870.00	8,071.98	7,940.17	123.58	33.07	92.48	-6,058.85	2,424.07	1,912.94	1,757.25	155.69	12.287		
16,400.00	7,870.00	8,069.10	7,937.29	125.00	33.06	92.38	-6,058.95	2,423.98	1,876.34	1,720.00	156.34	12.002		
16,500.00	7,870.00	8,066.23	7,934.42	126.43	33.05	92.29	-6,059.05	2,423.90	1,844.44	1,687.65	156.79	11.764		
16,600.00	7,870.00	8,063.36	7,931.56	127.88	33.04	92.20	-6,059.14	2,423.81	1,817.47	1,660.46	157.01	11.575		
16,700.00	7,870.00	8,060.50	7,928.70	129.34	33.03	92.10	-6,059.24	2,423.73	1,795.68	1,638.69	156.99	11.438		
16,800.00	7,870.00	8,057.64	7,925.84	130.81	33.02	92.01	-6,059.34	2,423.64	1,779.24	1,622.54	156.70	11.354		
16,900.00	7,870.00	8,054.80	7,923.01	132.28	33.02	91.92	-6,059.43	2,423.55	1,768.30	1,612.17	156.13	11.326 SF		
17,000.00	7,870.00	8,051.98	7,920.19	133.77	33.01	91.83	-6,059.53	2,423.47	1,762.97	1,607.69	155.29	11.353		
17,044.14	7,870.00	8,050.75	7,918.96	134.43	33.00	91.79	-6,059.57	2,423.43	1,762.42	1,607.59	154.83	11.383 CC, ES		
17,100.00	7,870.00	8,049.19	7,917.40	135.27	33.00	91.74	-6,059.62	2,423.38	1,763.31	1,609.13	154.17	11.437		
17,200.00	7,870.00	8,046.41	7,914.62	136.77	32.99	91.65	-6,059.71	2,423.29	1,769.29	1,616.49	152.80	11.579		
17,300.00	7,870.00	8,043.65	7,911.87	138.28	32.98	91.56	-6,059.81	2,423.20	1,780.88	1,629.67	151.21	11.778		
17,400.00	7,870.00	8,040.91	7,909.13	139.80	32.97	91.47	-6,059.90	2,423.12	1,797.96	1,648.54	149.41	12.033		
17,500.00	7,870.00	8,038.18	7,906.41	141.33	32.97	91.38	-6,059.99	2,423.03	1,820.37	1,672.91	147.46	12.345		
17,600.00	7,870.00	8,035.48	7,903.71	142.86	32.96	91.29	-6,060.07	2,422.94	1,847.92	1,702.55	145.37	12.712		
17,700.00	7,870.00	8,032.80	7,901.03	144.40	32.95	91.20	-6,060.16	2,422.85	1,880.39	1,737.19	143.21	13.131		
17,800.00	7,870.00	8,030.13	7,898.36	145.95	32.94	91.12	-6,060.25	2,422.76	1,917.53	1,776.54	140.99	13.601		
17,900.00	7,870.00	8,027.48	7,895.72	147.50	32.93	91.03	-6,060.34	2,422.67	1,959.07	1,820.31	138.76	14.119		
18,000.00	7,870.00	8,024.85	7,893.09	149.06	32.93	90.95	-6,060.42	2,422.58	2,004.73	1,868.20	136.54	14.683		
18,100.00	7,870.00	8,022.24	7,890.48	150.63	32.92	90.86	-6,060.51	2,422.49	2,054.25	1,919.89	134.36	15.289		
18,200.00	7,870.00	8,019.64	7,887.89	152.20	32.91	90.78	-6,060.59	2,422.40	2,107.35	1,975.11	132.24	15.935		
18,300.00	7,870.00	8,017.06	7,885.31	153.77	32.90	90.69	-6,060.67	2,422.31	2,163.77	2,033.56	130.20	16.619		
18,400.00	7,870.00	8,014.50	7,882.75	155.35	32.90	90.61	-6,060.75	2,422.22	2,223.25	2,095.00	128.25	17.335		
18,500.00	7,870.00	8,011.96	7,880.21	156.93	32.89	90.53	-6,060.84	2,422.13	2,285.55	2,159.16	126.39	18.083		
18,600.00	7,870.00	8,009.43	7,877.69	158.52	32.88	90.44	-6,060.92	2,422.04	2,350.46	2,225.82	124.64	18.858		
18,700.00	7,870.00	8,006.92	7,875.18	160.11	32.87	90.36	-6,061.00	2,421.95	2,417.76	2,294.77	122.99	19.659		
18,800.00	7,870.00	8,004.43	7,872.69	161.71	32.87	90.28	-6,061.07	2,421.86	2,487.25	2,365.82	121.44	20.482		
18,900.00	7,870.00	8,001.95	7,870.21	163.31	32.86	90.20	-6,061.15	2,421.77	2,558.77	2,438.77	119.99	21.324		
19,000.00	7,870.00	7,999.49	7,867.76	164.91	32.85	90.12	-6,061.23	2,421.68	2,632.14	2,513.49	118.65	22.185		
19,100.00	7,870.00	7,997.04	7,865.31	166.52	32.84	90.04	-6,061.31	2,421.59	2,707.21	2,589.81	117.40	23.060		
19,200.00	7,870.00	7,994.61	7,862.89	168.13	32.84	89.96	-6,061.38	2,421.49	2,783.84	2,667.60	116.24	23.949		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	7,992.20	7,860.48	169.75	32.83	89.89	-6,061.46	2,421.40	2,861.92	2,746.75	115.17	24.850	
19,383.51	7,870.00	7,990.20	7,858.47	171.10	32.82	89.82	-6,061.52	2,421.33	2,928.14	2,813.80	114.33	25.610	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	149.06	-5,442.25	3,262.75	6,345.40					
100.00	100.00	59.90	59.90	0.13	0.09	149.06	-5,442.40	3,262.66	6,345.47	6,345.24	0.22	N/A		
200.00	200.00	165.00	164.99	0.49	0.44	149.07	-5,442.98	3,261.60	6,345.40	6,344.47	0.93	6,825.049		
211.30	211.30	188.13	188.12	0.53	0.52	149.07	-5,443.14	3,261.21	6,345.33	6,344.28	1.05	6,027.066		
300.00	300.00	224.43	224.41	0.85	0.65	149.08	-5,443.58	3,260.77	6,345.70	6,344.20	1.50	4,228.337		
400.00	400.00	255.00	254.98	1.21	0.76	149.08	-5,444.12	3,260.56	6,347.02	6,345.05	1.97	3,222.933		
500.00	500.00	301.17	301.13	1.57	0.92	149.09	-5,445.29	3,260.54	6,349.27	6,346.78	2.49	2,547.838		
600.00	600.00	349.00	348.93	1.93	1.10	149.09	-5,446.97	3,260.91	6,352.56	6,349.54	3.02	2,103.284		
700.00	699.98	385.83	385.73	2.28	1.23	85.20	-5,448.52	3,261.43	6,356.59	6,353.09	3.50	1,813.787		
800.00	799.84	441.00	440.82	2.64	1.43	85.14	-5,451.10	3,262.46	6,361.11	6,357.06	4.05	1,569.817		
900.00	899.45	480.72	480.48	3.00	1.57	85.08	-5,453.23	3,263.37	6,366.16	6,361.60	4.55	1,398.173		
1,000.00	998.70	536.00	535.62	3.37	1.77	85.03	-5,456.76	3,264.81	6,371.85	6,366.73	5.12	1,244.039		
1,100.00	1,097.47	536.00	535.62	3.76	1.77	84.90	-5,456.76	3,264.81	6,378.24	6,372.73	5.51	1,157.741		
1,200.00	1,195.62	588.04	587.48	4.18	1.97	84.85	-5,460.80	3,266.44	6,385.21	6,379.10	6.11	1,045.282		
1,300.00	1,293.06	623.00	622.27	4.63	2.10	84.77	-5,464.01	3,267.71	6,393.07	6,386.40	6.67	957.986		
1,400.00	1,389.64	664.18	663.21	5.11	2.26	84.70	-5,468.13	3,269.35	6,401.60	6,394.30	7.30	877.180		
1,500.00	1,485.27	711.00	709.72	5.63	2.44	84.65	-5,473.13	3,271.32	6,410.66	6,402.68	7.98	803.086		
1,600.00	1,579.82	743.79	742.27	6.20	2.58	84.56	-5,476.82	3,272.92	6,420.36	6,411.69	8.66	741.258		
1,700.00	1,673.17	798.00	795.98	6.83	2.79	84.53	-5,483.30	3,276.30	6,430.90	6,421.43	9.47	679.109		
1,800.00	1,765.21	798.00	795.98	7.51	2.79	84.31	-5,483.30	3,276.30	6,442.00	6,431.87	10.13	636.128		
1,900.00	1,855.84	846.70	844.15	8.24	3.00	84.25	-5,489.55	3,279.89	6,453.84	6,442.81	11.03	585.275		
2,000.00	1,944.94	885.00	881.96	9.05	3.16	84.16	-5,494.77	3,282.90	6,466.37	6,454.43	11.95	541.289		
2,100.00	2,032.39	885.00	881.96	9.91	3.16	83.89	-5,494.77	3,282.90	6,479.80	6,467.02	12.78	507.074		
2,200.00	2,118.11	938.49	934.67	10.85	3.39	83.84	-5,502.59	3,287.59	6,493.68	6,479.79	13.89	467.619		
2,300.00	2,201.97	973.00	968.58	11.85	3.54	83.71	-5,507.99	3,291.00	6,508.53	6,493.55	14.98	434.385		
2,400.00	2,283.88	1,022.50	1,017.17	12.93	3.76	83.65	-5,515.97	3,296.10	6,524.00	6,507.79	16.21	402.498		
2,429.47	2,307.63	1,043.03	1,037.32	13.26	3.86	83.66	-5,519.30	3,298.21	6,528.62	6,512.01	16.61	393.130		
2,500.00	2,364.26	1,080.02	1,073.61	14.06	4.02	83.86	-5,525.36	3,301.99	6,539.89	6,522.36	17.52	373.181		
2,600.00	2,444.56	1,129.00	1,121.62	15.22	4.25	84.11	-5,533.61	3,307.08	6,556.67	6,537.85	18.82	348.329		
2,700.00	2,524.85	1,200.00	1,182.99	16.39	4.64	84.96	-5,560.68	3,324.21	6,573.80	6,547.83	25.96	253.212		
2,800.00	2,605.14	1,379.11	1,367.10	17.57	5.42	85.40	-5,574.03	3,332.74	6,590.53	6,568.42	22.11	298.100		
2,900.00	2,685.43	1,420.00	1,407.26	18.76	5.61	85.61	-5,580.65	3,336.68	6,608.11	6,584.70	23.40	282.339		
3,000.00	2,765.73	1,483.86	1,469.93	19.96	5.92	85.94	-5,591.29	3,342.77	6,626.52	6,601.71	24.81	267.138		
3,100.00	2,846.02	1,532.72	1,517.85	21.16	6.15	86.20	-5,599.61	3,347.42	6,645.69	6,619.54	26.14	254.205		
3,200.00	2,926.31	1,573.21	1,557.52	22.37	6.35	86.41	-5,606.72	3,351.32	6,665.80	6,638.36	27.44	242.893		
3,300.00	3,006.60	1,617.83	1,601.18	23.59	6.56	86.64	-5,614.82	3,355.66	6,686.86	6,658.10	28.76	232.495		
3,400.00	3,086.90	1,667.13	1,649.39	24.81	6.81	86.89	-5,624.03	3,360.38	6,708.77	6,678.67	30.10	222.887		
3,500.00	3,167.19	1,732.25	1,713.01	26.03	7.13	87.23	-5,636.45	3,366.59	6,731.47	6,699.96	31.51	213.626		
3,600.00	3,247.48	1,800.00	1,781.41	27.25	7.49	87.77	-5,656.29	3,377.02	6,754.49	6,714.59	32.90	199.300		
3,700.00	3,327.77	1,862.52	1,843.83	28.48	7.93	88.39	-5,709.43	3,409.33	6,775.54	6,739.80	35.74	189.557		
3,800.00	3,408.07	1,920.00	1,897.60	29.71	8.43	89.61	-5,716.03	3,413.45	6,796.71	6,759.65	37.06	183.383		
3,900.00	3,488.36	2,000.00	1,976.85	30.94	9.67	89.86	-5,723.94	3,418.09	6,818.73	6,780.33	38.41	177.531		
4,000.00	3,568.65	2,100.00	2,076.98	32.17	9.90	90.10	-5,731.72	3,422.63	6,841.60	6,801.86	39.74	172.159		
4,100.00	3,648.95	2,200.00	2,176.69	33.41	10.15	90.35	-5,740.10	3,427.64	6,865.26	6,824.18	41.08	167.117		
4,200.00	3,729.24	2,300.00	2,276.71	34.64	10.89	91.09	-5,764.52	3,443.31	6,888.78	6,845.86	42.92	160.500		
4,300.00	3,809.53	2,400.00	2,376.36	35.88	11.11	91.32	-5,771.95	3,447.90	6,912.88	6,868.64	44.24	156.270		
4,400.00	3,889.82	2,500.00	2,476.36	37.12	11.11	91.32	-5,771.95	3,447.90	6,938.03	6,892.71	45.31	153.108		
4,500.00	3,970.12	2,600.00	2,576.50	38.36	11.34	91.54	-5,779.65	3,452.33	6,964.04	6,917.43	46.61	149.415		
4,600.00	4,050.41	2,700.00	2,676.61	39.60	11.55	91.75	-5,787.61	3,456.59	6,991.30	6,943.41	47.89	146.000		
4,700.00	4,130.70	2,800.00	2,776.71	40.84	12.30	92.46	-5,814.64	3,471.46	7,019.09	6,969.38	49.71	141.206		
4,800.00	4,210.99	2,900.00	2,876.80	42.08	12.66	92.81	-5,827.16	3,479.22	7,046.36	6,995.22	51.14	137.789		
4,900.00	4,291.29	3,000.00	2,976.96	43.32	12.93	93.06	-5,836.52	3,485.18	7,074.31	7,021.85	52.46	134.840		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	4,371.58	2,971.96	2,928.44	44.57	13.20	93.31	-5,845.83	3,491.00	7,102.96	7,049.19	53.78	132.081		
5,100.00	4,451.87	3,072.64	3,026.93	45.81	13.71	93.78	-5,864.00	3,501.25	7,132.15	7,076.81	55.34	128.876		
5,200.00	4,532.16	3,200.15	3,151.94	47.05	14.33	94.39	-5,886.54	3,512.37	7,161.10	7,104.06	57.04	125.548		
5,300.00	4,612.46	3,275.16	3,225.48	48.30	14.70	94.74	-5,899.61	3,519.23	7,190.40	7,131.94	58.46	123.007		
5,400.00	4,692.75	3,367.81	3,316.33	49.54	15.16	95.18	-5,915.58	3,527.90	7,219.98	7,160.02	59.96	120.408		
5,500.00	4,773.04	3,452.09	3,399.04	50.79	15.57	95.57	-5,930.35	3,534.48	7,249.94	7,188.52	61.42	118.043		
5,600.00	4,853.34	3,557.44	3,502.41	52.03	16.08	96.06	-5,948.10	3,544.41	7,280.00	7,217.01	62.99	115.578		
5,700.00	4,933.63	3,637.42	3,580.87	53.28	16.48	96.42	-5,961.39	3,552.40	7,310.37	7,245.95	64.42	113.482		
5,800.00	5,013.92	3,866.17	3,805.86	54.53	17.56	97.45	-5,997.42	3,572.46	7,340.12	7,273.48	66.64	110.145		
5,900.00	5,094.21	3,946.55	3,885.08	55.77	17.94	97.82	-6,009.47	3,578.73	7,369.63	7,301.57	68.06	108.282		
6,000.00	5,174.51	3,998.36	3,936.10	57.02	18.18	98.05	-6,017.21	3,583.39	7,399.65	7,330.32	69.33	106.737		
6,100.00	5,254.80	4,059.34	3,996.08	58.27	18.47	98.32	-6,026.51	3,589.28	7,430.34	7,359.70	70.64	105.191		
6,200.00	5,335.09	4,127.00	4,062.63	59.52	18.79	98.61	-6,036.76	3,595.87	7,461.37	7,389.39	71.98	103.660		
6,300.00	5,415.38	4,175.85	4,110.69	60.76	19.02	98.83	-6,044.36	3,600.27	7,493.01	7,419.81	73.21	102.353		
6,400.00	5,495.68	5,372.57	5,299.88	62.01	23.66	104.17	-6,151.65	3,649.07	7,516.25	7,436.60	79.65	94.370		
6,500.00	5,575.97	5,500.51	5,427.78	63.26	24.04	104.75	-6,154.31	3,648.29	7,536.85	7,455.69	81.16	92.862		
6,600.00	5,656.26	5,658.52	5,585.75	64.51	24.48	105.48	-6,156.50	3,645.53	7,557.26	7,474.51	82.75	91.331		
6,700.00	5,736.55	5,940.72	5,867.83	65.76	25.20	106.77	-6,154.80	3,637.88	7,576.02	7,491.37	84.64	89.504		
6,800.00	5,816.85	6,027.01	5,954.09	67.01	25.42	107.16	-6,153.22	3,635.80	7,594.72	7,508.75	85.97	88.343		
6,900.00	5,897.14	6,117.05	6,044.09	68.26	25.65	107.57	-6,151.46	3,633.84	7,613.77	7,526.47	87.30	87.217		
7,000.00	5,977.43	6,208.56	6,135.55	69.50	25.88	107.97	-6,149.51	3,632.14	7,633.13	7,544.50	88.62	86.130		
7,100.00	6,057.72	6,306.94	6,233.90	70.75	26.13	108.41	-6,147.19	3,630.53	7,652.76	7,562.79	89.96	85.065		
7,200.00	6,138.02	6,406.55	6,333.46	72.00	26.38	108.85	-6,144.59	3,628.93	7,672.61	7,581.31	91.30	84.037		
7,300.00	6,218.31	6,466.31	6,393.20	73.25	26.54	109.11	-6,143.05	3,628.12	7,692.89	7,600.37	92.52	83.147		
7,400.00	6,298.60	6,530.14	6,457.00	74.50	26.71	109.38	-6,141.52	3,627.47	7,713.76	7,620.01	93.75	82.284		
7,500.00	6,378.90	6,601.19	6,528.03	75.75	26.90	109.69	-6,139.94	3,627.01	7,735.18	7,640.20	94.98	81.436		
7,600.00	6,459.19	6,685.16	6,611.98	77.00	27.13	110.05	-6,138.06	3,626.96	7,757.01	7,660.75	96.26	80.584		
7,700.00	6,539.48	6,767.92	6,694.71	78.25	27.35	110.39	-6,136.14	3,627.42	7,779.18	7,681.65	97.53	79.765		
7,800.00	6,619.77	6,845.97	6,772.75	79.50	27.57	110.72	-6,134.34	3,628.05	7,801.74	7,702.97	98.77	78.986		
7,900.00	6,700.07	6,924.12	6,850.87	80.75	27.79	111.04	-6,132.57	3,628.76	7,824.70	7,724.69	100.01	78.235		
8,000.00	6,780.36	7,002.05	6,928.78	82.00	28.01	111.36	-6,130.84	3,629.54	7,848.07	7,746.82	101.25	77.511		
8,100.00	6,860.65	7,080.06	7,006.77	83.25	28.23	111.68	-6,129.14	3,630.40	7,871.82	7,769.34	102.48	76.814		
8,200.00	6,940.94	7,157.44	7,084.12	84.50	28.46	111.99	-6,127.48	3,631.31	7,895.97	7,792.27	103.70	76.143		
8,300.00	7,021.24	7,234.72	7,161.38	85.76	28.68	112.31	-6,125.87	3,632.29	7,920.51	7,815.60	104.91	75.496		
8,400.00	7,101.53	7,315.36	7,242.00	87.01	28.91	112.63	-6,124.23	3,633.30	7,945.44	7,839.31	106.13	74.866		
8,500.00	7,181.82	7,398.27	7,324.89	88.26	29.15	112.97	-6,122.52	3,633.87	7,970.69	7,863.35	107.34	74.256		
8,605.60	7,266.61	7,481.12	7,407.72	89.58	29.39	113.31	-6,120.79	3,633.96	7,997.74	7,889.14	108.60	73.647		
8,650.00	7,302.60	7,514.29	7,440.88	90.13	29.49	107.59	-6,120.12	3,633.94	8,007.57	7,898.45	109.12	73.384		
8,700.00	7,343.78	7,552.10	7,478.69	90.72	29.60	100.64	-6,119.36	3,633.89	8,014.70	7,904.98	109.72	73.050		
8,750.00	7,385.32	7,590.15	7,516.73	91.28	29.70	93.35	-6,118.62	3,633.82	8,017.61	7,907.29	110.32	72.678		
8,800.00	7,426.92	7,628.27	7,554.84	91.81	29.81	86.01	-6,117.89	3,633.73	8,016.27	7,905.36	110.91	72.275		
8,850.00	7,468.27	7,666.51	7,593.07	92.29	29.93	78.95	-6,117.17	3,633.67	8,010.70	7,899.20	111.50	71.845		
8,900.00	7,509.04	7,704.22	7,630.77	92.72	30.04	72.40	-6,116.48	3,633.66	8,000.93	7,888.86	112.07	71.392		
8,950.00	7,548.93	7,741.10	7,667.65	93.10	30.14	66.54	-6,115.82	3,633.69	7,987.04	7,874.42	112.62	70.923		
9,000.00	7,587.63	7,776.89	7,703.44	93.43	30.25	61.44	-6,115.20	3,633.77	7,969.12	7,855.98	113.13	70.439		
9,050.00	7,624.85	7,812.61	7,739.15	93.71	30.35	57.11	-6,114.58	3,633.88	7,947.30	7,833.67	113.63	69.942		
9,100.00	7,660.30	7,847.67	7,774.20	93.93	30.46	53.50	-6,113.98	3,634.00	7,921.73	7,807.64	114.09	69.435		
9,150.00	7,693.72	7,880.63	7,807.15	94.10	30.55	50.56	-6,113.42	3,634.11	7,892.60	7,778.08	114.51	68.924		
9,200.00	7,724.85	7,911.23	7,837.76	94.23	30.64	48.23	-6,112.90	3,634.22	7,860.10	7,745.21	114.90	68.410		
9,250.00	7,753.45	7,939.26	7,865.78	94.30	30.73	46.48	-6,112.42	3,634.32	7,824.49	7,709.25	115.24	67.897		
9,300.00	7,779.31	7,964.49	7,891.01	94.34	30.80	45.27	-6,111.99	3,634.40	7,786.02	7,670.48	115.54	67.385		
9,350.00	7,802.23	7,986.49	7,913.01	94.33	30.87	44.64	-6,111.61	3,634.48	7,744.97	7,629.17	115.81	66.878		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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		
9,400.00	7,822.03	8,005.34	7,931.85	94.28	30.92	44.66	-6,111.29	3,634.55	7,701.65	7,585.62	116.03	66.376		
9,450.00	7,838.57	8,020.93	7,947.44	94.20	30.97	45.51	-6,111.02	3,634.61	7,656.36	7,540.14	116.21	65.882		
9,500.00	7,851.72	8,033.15	7,959.66	94.10	31.01	47.62	-6,110.82	3,634.66	7,609.44	7,493.08	116.36	65.396		
9,550.00	7,861.37	8,041.89	7,968.40	93.96	31.03	52.11	-6,110.67	3,634.69	7,561.24	7,444.77	116.47	64.920		
9,600.00	7,867.46	8,047.10	7,973.60	93.81	31.05	62.41	-6,110.58	3,634.72	7,512.12	7,395.58	116.55	64.456		
9,650.00	7,869.94	8,048.72	7,975.22	93.64	31.05	92.75	-6,110.55	3,634.72	7,462.45	7,345.86	116.59	64.005		
9,659.14	7,870.00	8,048.62	7,975.13	93.60	31.05	103.11	-6,110.55	3,634.72	7,453.34	7,336.74	116.60	63.924		
9,700.00	7,870.00	8,047.94	7,974.44	93.46	31.05	103.04	-6,110.57	3,634.72	7,412.59	7,295.98	116.62	63.563		
9,800.00	7,870.00	8,046.27	7,972.77	93.11	31.05	102.88	-6,110.59	3,634.71	7,312.89	7,196.22	116.67	62.680		
9,900.00	7,870.00	8,044.59	7,971.10	92.77	31.04	102.71	-6,110.62	3,634.71	7,213.19	7,096.47	116.72	61.797		
10,000.00	7,870.00	8,042.92	7,969.42	92.46	31.04	102.55	-6,110.65	3,634.70	7,113.50	6,996.72	116.78	60.914		
10,100.00	7,870.00	8,041.24	7,967.75	92.16	31.03	102.38	-6,110.68	3,634.69	7,013.82	6,896.98	116.84	60.030		
10,200.00	7,870.00	8,039.57	7,966.07	91.87	31.03	102.21	-6,110.71	3,634.69	6,914.15	6,797.25	116.90	59.147		
10,300.00	7,870.00	8,037.89	7,964.39	91.60	31.02	102.05	-6,110.74	3,634.68	6,814.48	6,697.52	116.96	58.263		
10,400.00	7,870.00	8,036.21	7,962.72	91.34	31.02	101.88	-6,110.76	3,634.67	6,714.83	6,597.80	117.03	57.379		
10,500.00	7,870.00	8,034.53	7,961.04	91.11	31.01	101.71	-6,110.79	3,634.66	6,615.19	6,498.09	117.09	56.495		
10,600.00	7,870.00	8,032.85	7,959.36	90.88	31.01	101.54	-6,110.82	3,634.66	6,515.55	6,398.39	117.16	55.611		
10,700.00	7,870.00	8,031.17	7,957.68	90.67	31.00	101.37	-6,110.85	3,634.65	6,415.93	6,298.69	117.24	54.727		
10,800.00	7,870.00	8,029.49	7,956.00	90.48	31.00	101.21	-6,110.88	3,634.64	6,316.32	6,199.01	117.31	53.842		
10,900.00	7,870.00	8,027.81	7,954.32	90.31	30.99	101.04	-6,110.91	3,634.64	6,216.72	6,099.33	117.39	52.958		
11,000.00	7,870.00	8,026.13	7,952.63	90.15	30.99	100.87	-6,110.93	3,634.63	6,117.13	5,999.66	117.47	52.073		
11,100.00	7,870.00	8,024.44	7,950.95	90.00	30.98	100.70	-6,110.96	3,634.62	6,017.56	5,900.00	117.56	51.189		
11,200.00	7,870.00	8,022.76	7,949.27	89.88	30.98	100.53	-6,110.99	3,634.62	5,918.00	5,800.36	117.64	50.304		
11,300.00	7,870.00	8,021.08	7,947.58	89.77	30.97	100.36	-6,111.02	3,634.61	5,818.46	5,700.72	117.74	49.419		
11,400.00	7,870.00	8,019.39	7,945.90	89.68	30.97	100.19	-6,111.05	3,634.60	5,718.93	5,601.10	117.83	48.535		
11,500.00	7,870.00	8,017.70	7,944.21	89.60	30.96	100.02	-6,111.08	3,634.60	5,619.42	5,501.48	117.93	47.650		
11,600.00	7,870.00	8,016.02	7,942.52	89.55	30.96	99.85	-6,111.11	3,634.59	5,519.92	5,401.89	118.03	46.766		
11,700.00	7,870.00	8,014.33	7,940.84	89.52	30.95	99.68	-6,111.14	3,634.58	5,420.44	5,302.30	118.14	45.881		
11,800.00	7,870.00	8,012.64	7,939.15	89.50	30.95	99.51	-6,111.16	3,634.58	5,320.98	5,202.73	118.25	44.996		
11,900.00	7,870.00	8,010.95	7,937.46	89.51	30.94	99.34	-6,111.19	3,634.57	5,221.54	5,103.17	118.37	44.112		
12,000.00	7,870.00	8,009.26	7,935.77	89.54	30.94	99.16	-6,111.22	3,634.56	5,122.13	5,003.64	118.49	43.228		
12,100.00	7,870.00	8,007.57	7,934.08	89.59	30.93	98.99	-6,111.25	3,634.56	5,022.73	4,904.11	118.62	42.343		
12,200.00	7,870.00	8,005.88	7,932.39	89.66	30.93	98.82	-6,111.28	3,634.55	4,923.36	4,804.61	118.75	41.459		
12,300.00	7,870.00	8,004.18	7,930.69	89.77	30.92	98.65	-6,111.31	3,634.55	4,824.02	4,705.13	118.89	40.575		
12,400.00	7,870.00	8,002.49	7,929.00	89.89	30.92	98.48	-6,111.34	3,634.54	4,724.70	4,605.66	119.04	39.692		
12,500.00	7,870.00	8,000.80	7,927.31	90.05	30.91	98.30	-6,111.37	3,634.53	4,625.41	4,506.22	119.19	38.808		
12,600.00	7,870.00	7,999.10	7,925.61	90.24	30.91	98.13	-6,111.39	3,634.53	4,526.15	4,406.80	119.35	37.925		
12,700.00	7,870.00	7,997.40	7,923.92	90.46	30.90	97.96	-6,111.42	3,634.52	4,426.92	4,307.41	119.51	37.042		
12,800.00	7,870.00	7,995.71	7,922.22	90.71	30.90	97.78	-6,111.45	3,634.51	4,327.73	4,208.05	119.69	36.159		
12,900.00	7,870.00	7,994.01	7,920.52	90.99	30.89	97.61	-6,111.48	3,634.51	4,228.58	4,108.71	119.87	35.277		
13,000.00	7,870.00	7,992.31	7,918.82	91.32	30.89	97.44	-6,111.51	3,634.50	4,129.46	4,009.40	120.06	34.395		
13,100.00	7,870.00	7,990.61	7,917.12	91.68	30.88	97.26	-6,111.54	3,634.49	4,030.39	3,910.13	120.26	33.513		
13,200.00	7,870.00	7,988.91	7,915.43	92.08	30.88	97.09	-6,111.57	3,634.49	3,931.37	3,810.89	120.48	32.632		
13,300.00	7,870.00	7,987.21	7,913.72	92.52	30.87	96.91	-6,111.60	3,634.48	3,832.40	3,711.70	120.70	31.752		
13,400.00	7,870.00	7,985.51	7,912.02	93.00	30.86	96.74	-6,111.63	3,634.48	3,733.47	3,612.54	120.94	30.872		
13,500.00	7,870.00	7,983.86	7,910.37	93.53	30.86	96.57	-6,111.65	3,634.47	3,634.61	3,513.43	121.19	29.992		
13,600.00	7,870.00	7,982.15	7,908.66	94.10	30.85	96.39	-6,111.68	3,634.46	3,535.81	3,414.36	121.45	29.113		
13,700.00	7,870.00	7,980.44	7,906.95	94.72	30.85	96.22	-6,111.71	3,634.46	3,437.08	3,315.35	121.73	28.235		
13,800.00	7,870.00	7,978.72	7,905.24	95.38	30.84	96.04	-6,111.74	3,634.45	3,338.43	3,216.40	122.03	27.358		
13,900.00	7,870.00	7,977.01	7,903.53	96.09	30.84	95.86	-6,111.77	3,634.45	3,239.85	3,117.51	122.34	26.482		
14,000.00	7,870.00	7,975.30	7,901.81	96.84	30.83	95.69	-6,111.80	3,634.44	3,141.37	3,018.69	122.68	25.607		
14,100.00	7,870.00	7,973.59	7,900.10	97.64	30.83	95.51	-6,111.83	3,634.43	3,042.98	2,919.95	123.03	24.733		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,971.88	7,898.39	98.48	30.82	95.33	-6,111.86	3,634.43	2,944.70	2,821.28	123.42	23.860		
14,300.00	7,870.00	7,970.16	7,896.68	99.37	30.82	95.16	-6,111.89	3,634.42	2,846.54	2,722.71	123.83	22.988		
14,400.00	7,870.00	7,968.45	7,894.97	100.30	30.81	94.98	-6,111.92	3,634.42	2,748.51	2,624.25	124.26	22.118		
14,500.00	7,870.00	7,966.74	7,893.26	101.26	30.81	94.80	-6,111.95	3,634.41	2,650.63	2,525.89	124.73	21.250		
14,600.00	7,870.00	7,965.03	7,891.54	102.27	30.80	94.63	-6,111.98	3,634.40	2,552.91	2,427.67	125.24	20.384		
14,700.00	7,870.00	7,963.32	7,889.83	103.31	30.80	94.45	-6,112.01	3,634.40	2,455.37	2,329.58	125.79	19.520		
14,800.00	7,870.00	7,961.60	7,888.12	104.38	30.79	94.27	-6,112.03	3,634.39	2,358.04	2,231.66	126.38	18.658		
14,900.00	7,870.00	7,959.89	7,886.41	105.49	30.79	94.10	-6,112.06	3,634.39	2,260.94	2,133.91	127.02	17.799		
15,000.00	7,870.00	7,958.18	7,884.70	106.63	30.78	93.92	-6,112.09	3,634.38	2,164.10	2,036.37	127.73	16.943		
15,100.00	7,870.00	7,956.47	7,882.98	107.80	30.78	93.74	-6,112.12	3,634.37	2,067.56	1,939.07	128.49	16.091		
15,200.00	7,870.00	7,954.75	7,881.27	109.00	30.77	93.56	-6,112.15	3,634.37	1,971.36	1,842.03	129.33	15.243		
15,300.00	7,870.00	7,953.04	7,879.56	110.22	30.77	93.39	-6,112.18	3,634.36	1,875.56	1,745.32	130.25	14.400		
15,400.00	7,870.00	7,951.33	7,877.85	111.47	30.76	93.21	-6,112.21	3,634.36	1,780.23	1,648.96	131.26	13.562		
15,500.00	7,870.00	7,949.62	7,876.14	112.74	30.76	93.03	-6,112.24	3,634.35	1,685.43	1,553.04	132.39	12.731		
15,600.00	7,870.00	7,947.90	7,874.42	114.03	30.75	92.85	-6,112.27	3,634.34	1,591.26	1,457.63	133.63	11.908		
15,700.00	7,870.00	7,946.19	7,872.71	115.34	30.75	92.67	-6,112.30	3,634.34	1,497.85	1,362.83	135.02	11.093		
15,800.00	7,870.00	7,944.48	7,871.00	116.68	30.74	92.50	-6,112.33	3,634.33	1,405.34	1,268.77	136.58	10.290		
15,900.00	7,870.00	7,942.77	7,869.29	118.02	30.74	92.32	-6,112.36	3,634.33	1,313.94	1,175.62	138.32	9.499		
16,000.00	7,870.00	7,941.05	7,867.57	119.39	30.73	92.14	-6,112.39	3,634.32	1,223.87	1,083.59	140.27	8.725		
16,100.00	7,870.00	7,939.34	7,865.86	120.77	30.73	91.96	-6,112.42	3,634.32	1,135.46	992.99	142.47	7.970		
16,200.00	7,870.00	7,937.63	7,864.15	122.17	30.72	91.78	-6,112.44	3,634.31	1,049.14	904.21	144.92	7.239		
16,300.00	7,870.00	7,935.92	7,862.44	123.58	30.72	91.61	-6,112.47	3,634.30	965.45	817.80	147.65	6.539		
16,400.00	7,870.00	7,934.20	7,860.73	125.00	30.71	91.43	-6,112.50	3,634.30	885.16	734.53	150.63	5.876		
16,500.00	7,870.00	7,932.49	7,859.01	126.43	30.71	91.25	-6,112.53	3,634.29	809.26	655.46	153.80	5.262		
16,600.00	7,870.00	7,930.78	7,857.30	127.88	30.70	91.07	-6,112.56	3,634.29	739.12	582.15	156.97	4.709		
16,700.00	7,870.00	7,929.07	7,855.59	129.34	30.70	90.89	-6,112.59	3,634.28	676.52	516.73	159.79	4.234		
16,800.00	7,870.00	7,927.35	7,853.88	130.81	30.69	90.72	-6,112.62	3,634.27	623.75	462.06	161.69	3.858		
16,900.00	7,870.00	7,925.64	7,852.16	132.28	30.69	90.54	-6,112.65	3,634.27	583.47	421.64	161.84	3.605		
17,000.00	7,870.00	7,923.93	7,850.45	133.77	30.68	90.36	-6,112.68	3,634.26	558.40	399.00	159.40	3.503 SF		
17,093.20	7,870.00	7,922.33	7,848.85	135.16	30.68	90.19	-6,112.71	3,634.26	550.57	396.14	154.43	3.565 CC, ES		
17,100.00	7,870.00	7,922.21	7,848.74	135.27	30.68	90.18	-6,112.71	3,634.26	550.61	396.64	153.97	3.576		
17,200.00	7,870.00	7,920.50	7,847.02	136.77	30.67	90.00	-6,112.74	3,634.25	560.83	414.78	146.05	3.840		
17,300.00	7,870.00	7,918.79	7,845.31	138.28	30.67	89.82	-6,112.77	3,634.25	588.12	451.21	136.90	4.296		
17,400.00	7,870.00	7,917.08	7,843.60	139.80	30.66	89.65	-6,112.80	3,634.24	630.26	502.30	127.96	4.925		
17,500.00	7,870.00	7,915.36	7,841.89	141.33	30.66	89.47	-6,112.83	3,634.23	684.52	564.30	120.22	5.694		
17,600.00	7,870.00	7,913.65	7,840.17	142.86	30.65	89.29	-6,112.86	3,634.23	748.26	634.19	114.07	6.560		
17,700.00	7,870.00	7,911.94	7,838.46	144.40	30.65	89.11	-6,112.88	3,634.22	819.28	709.79	109.50	7.482		
17,800.00	7,870.00	7,910.22	7,836.75	145.95	30.64	88.93	-6,112.91	3,634.22	895.85	789.60	106.25	8.431		
17,900.00	7,870.00	7,908.51	7,835.03	147.50	30.64	88.76	-6,112.94	3,634.21	976.66	872.61	104.05	9.387		
18,000.00	7,870.00	7,906.80	7,833.32	149.06	30.63	88.58	-6,112.97	3,634.20	1,060.74	958.13	102.61	10.337		
18,100.00	7,870.00	7,905.08	7,831.61	150.63	30.63	88.40	-6,113.00	3,634.20	1,147.38	1,045.65	101.73	11.278		
18,200.00	7,870.00	7,903.37	7,829.90	152.20	30.62	88.22	-6,113.03	3,634.19	1,236.03	1,134.79	101.24	12.209		
18,300.00	7,870.00	7,901.66	7,828.18	153.77	30.62	88.04	-6,113.06	3,634.19	1,326.30	1,225.28	101.02	13.129		
18,400.00	7,870.00	7,899.94	7,826.47	155.35	30.61	87.86	-6,113.09	3,634.18	1,417.87	1,316.88	100.99	14.040		
18,500.00	7,870.00	7,898.23	7,824.76	156.93	30.61	87.69	-6,113.12	3,634.17	1,510.51	1,409.42	101.09	14.943		
18,600.00	7,870.00	7,896.52	7,823.04	158.52	30.60	87.51	-6,113.15	3,634.17	1,604.03	1,502.77	101.26	15.840		
18,700.00	7,870.00	7,894.80	7,821.33	160.11	30.60	87.33	-6,113.18	3,634.16	1,698.29	1,596.79	101.50	16.732		
18,800.00	7,870.00	7,893.09	7,819.62	161.71	30.59	87.15	-6,113.21	3,634.16	1,793.17	1,691.40	101.77	17.620		
18,900.00	7,870.00	7,891.38	7,817.90	163.31	30.59	86.98	-6,113.24	3,634.15	1,888.57	1,786.51	102.06	18.505		
19,000.00	7,870.00	7,889.66	7,816.19	164.91	30.58	86.80	-6,113.27	3,634.15	1,984.43	1,882.07	102.36	19.387		
19,100.00	7,870.00	7,887.95	7,814.48	166.52	30.58	86.62	-6,113.29	3,634.14	2,080.67	1,978.01	102.67	20.266		
19,200.00	7,870.00	7,886.24	7,812.76	168.13	30.57	86.44	-6,113.32	3,634.13	2,177.26	2,074.28	102.97	21.144		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,884.52	7,811.05	169.75	30.57	86.26	-6,113.35	3,634.13	2,274.13	2,170.86	103.27	22.021	
19,383.51	7,870.00	7,883.09	7,809.62	171.10	30.56	86.12	-6,113.38	3,634.12	2,355.23	2,251.71	103.52	22.752	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	161.69	-5,370.27	1,777.00	5,656.66					
100.00	100.00	66.53	66.53	0.13	0.11	161.69	-5,370.41	1,776.95	5,656.78	5,656.54	0.24	N/A		
200.00	200.00	174.00	174.00	0.49	0.42	161.69	-5,370.86	1,776.81	5,657.15	5,656.24	0.91	6,194.883		
300.00	300.00	315.06	315.06	0.85	0.91	161.69	-5,370.63	1,776.70	5,656.97	5,655.21	1.76	3,214.193		
400.00	400.00	421.18	421.17	1.21	1.28	161.69	-5,369.97	1,776.70	5,656.38	5,653.89	2.49	2,276.154		
500.00	500.00	574.56	574.55	1.57	1.82	161.68	-5,368.34	1,777.29	5,655.60	5,652.22	3.38	1,671.526		
600.00	600.00	669.56	669.53	1.93	2.15	161.67	-5,366.39	1,778.02	5,653.90	5,649.83	4.08	1,386.143		
700.00	699.98	755.30	755.25	2.28	2.46	97.87	-5,364.95	1,778.73	5,652.81	5,648.07	4.74	1,193.047		
800.00	799.84	846.48	846.41	2.64	2.78	97.92	-5,363.57	1,779.53	5,652.36	5,646.94	5.42	1,043.474		
819.42	819.21	863.95	863.88	2.71	2.84	97.93	-5,363.31	1,779.70	5,652.34	5,646.79	5.55	1,018.527		
900.00	899.45	924.02	923.94	3.00	3.06	97.97	-5,362.48	1,780.39	5,652.60	5,646.55	6.05	933.546		
1,000.00	998.70	983.23	983.15	3.37	3.27	98.01	-5,362.00	1,781.23	5,653.96	5,647.32	6.64	851.529		
1,100.00	1,097.47	1,059.30	1,059.20	3.76	3.54	98.06	-5,361.78	1,782.55	5,656.43	5,649.13	7.30	774.702		
1,200.00	1,195.62	1,158.80	1,158.68	4.18	3.89	98.17	-5,361.65	1,784.49	5,659.66	5,651.59	8.07	701.323		
1,300.00	1,293.06	1,276.87	1,276.74	4.63	4.31	98.35	-5,361.46	1,785.89	5,663.19	5,654.26	8.94	633.803		
1,400.00	1,389.64	1,367.74	1,367.61	5.11	4.63	98.51	-5,361.37	1,786.25	5,667.15	5,657.42	9.73	582.177		
1,500.00	1,485.27	1,467.60	1,467.47	5.63	4.97	98.71	-5,361.51	1,786.28	5,671.87	5,661.27	10.60	535.189		
1,600.00	1,579.82	1,585.48	1,585.35	6.20	5.37	98.99	-5,361.38	1,786.16	5,677.01	5,665.44	11.57	490.658		
1,700.00	1,673.17	1,679.05	1,678.92	6.83	5.70	99.21	-5,361.04	1,786.01	5,682.66	5,670.15	12.51	454.101		
1,800.00	1,765.21	1,764.34	1,764.21	7.51	6.00	99.42	-5,360.86	1,785.67	5,689.18	5,675.70	13.48	422.033		
1,900.00	1,855.84	1,914.62	1,914.48	8.24	6.52	99.93	-5,360.39	1,783.91	5,696.37	5,681.65	14.73	386.791		
2,000.00	1,944.94	1,979.86	1,979.71	9.05	6.74	100.08	-5,360.02	1,782.88	5,704.06	5,688.32	15.74	362.361		
2,100.00	2,032.39	2,062.51	2,062.34	9.91	7.03	100.31	-5,359.71	1,781.47	5,712.91	5,696.03	16.88	338.504		
2,200.00	2,118.11	2,149.17	2,148.99	10.85	7.33	100.57	-5,359.46	1,779.69	5,722.83	5,704.74	18.09	316.360		
2,300.00	2,201.97	2,234.68	2,234.48	11.85	7.63	100.83	-5,359.16	1,777.94	5,733.85	5,714.48	19.36	296.132		
2,400.00	2,283.88	2,318.06	2,317.84	12.93	7.92	101.07	-5,358.86	1,776.20	5,746.04	5,725.34	20.69	277.689		
2,429.47	2,307.63	2,343.86	2,343.63	13.26	8.01	101.15	-5,358.76	1,775.65	5,749.85	5,728.75	21.10	272.503		
2,500.00	2,364.26	2,406.60	2,406.36	14.06	8.23	101.53	-5,358.47	1,774.24	5,759.24	5,737.15	22.09	260.709		
2,600.00	2,444.56	2,514.38	2,514.09	15.22	8.61	102.19	-5,357.80	1,771.03	5,772.82	5,749.25	23.57	244.882		
2,700.00	2,524.85	2,565.44	2,565.13	16.39	8.79	102.50	-5,357.52	1,769.57	5,787.08	5,762.21	24.86	232.746		
2,800.00	2,605.14	2,619.92	2,619.59	17.57	8.98	102.82	-5,357.34	1,768.33	5,802.23	5,776.06	26.17	221.707		
2,900.00	2,685.43	2,669.01	2,668.67	18.76	9.16	103.11	-5,357.39	1,767.37	5,818.38	5,790.92	27.46	211.895		
3,000.00	2,765.73	2,742.73	2,742.38	19.96	9.41	103.55	-5,357.79	1,766.08	5,835.46	5,806.63	28.84	202.368		
3,100.00	2,846.02	2,968.09	2,967.70	21.16	10.21	104.87	-5,355.92	1,763.16	5,852.24	5,821.48	30.76	190.244		
3,200.00	2,926.31	3,059.41	3,058.99	22.37	10.53	105.39	-5,353.68	1,762.43	5,868.24	5,836.03	32.20	182.219		
3,300.00	3,006.60	3,124.13	3,123.69	23.59	10.76	105.76	-5,352.21	1,761.62	5,884.90	5,851.35	33.55	175.413		
3,400.00	3,086.90	3,179.63	3,179.17	24.81	10.96	106.08	-5,351.19	1,760.74	5,902.42	5,867.57	34.86	169.340		
3,500.00	3,167.19	3,231.20	3,230.73	26.03	11.15	106.38	-5,350.49	1,759.72	5,920.86	5,884.71	36.14	163.822		
3,600.00	3,247.48	3,280.01	3,279.52	27.25	11.32	106.67	-5,350.12	1,758.38	5,940.25	5,902.84	37.41	158.783		
3,700.00	3,327.77	3,376.17	3,375.61	28.48	11.66	107.23	-5,349.70	1,754.94	5,960.44	5,921.59	38.85	153.434		
3,800.00	3,408.07	3,452.10	3,451.49	29.71	11.93	107.68	-5,349.13	1,752.04	5,980.90	5,940.70	40.20	148.771		
3,900.00	3,488.36	3,523.76	3,523.09	30.94	12.19	108.10	-5,348.74	1,749.33	6,002.11	5,960.57	41.53	144.508		
4,000.00	3,568.65	3,619.87	3,619.15	32.17	12.53	108.65	-5,348.05	1,746.10	6,023.76	5,980.81	42.95	140.247		
4,100.00	3,648.95	3,702.80	3,702.05	33.41	12.83	109.13	-5,347.28	1,743.97	6,045.85	6,001.54	44.31	136.437		
4,200.00	3,729.24	3,779.28	3,778.51	34.64	13.10	109.56	-5,346.53	1,742.37	6,068.44	6,022.80	45.64	132.955		
4,300.00	3,809.53	3,851.49	3,850.71	35.88	13.35	109.96	-5,345.85	1,741.30	6,091.61	6,044.67	46.95	129.756		
4,400.00	3,889.82	3,932.42	3,931.63	37.12	13.64	110.39	-5,345.13	1,741.65	6,115.38	6,067.10	48.28	126.675		
4,500.00	3,970.12	4,023.87	4,023.07	38.36	13.96	110.88	-5,344.15	1,742.13	6,139.46	6,089.83	49.64	123.689		
4,600.00	4,050.41	4,097.58	4,096.78	39.60	14.22	111.27	-5,343.38	1,742.05	6,164.03	6,113.11	50.92	121.044		
4,700.00	4,130.70	4,194.34	4,193.53	40.84	14.56	111.79	-5,342.30	1,741.47	6,189.02	6,136.73	52.29	118.355		
4,800.00	4,210.99	4,392.19	4,391.30	42.08	15.27	112.86	-5,338.19	1,737.94	6,213.86	6,159.84	54.03	115.017		
4,900.00	4,291.29	4,469.43	4,468.49	43.32	15.54	113.27	-5,335.73	1,736.87	6,238.16	6,182.86	55.30	112.799		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,560.27	4,559.29	44.57	15.87	113.75	-5,332.91	1,736.43	6,262.97	6,206.35	56.62	110.609		
5,100.00	4,451.87	4,730.81	4,729.70	45.81	16.47	114.62	-5,326.23	1,736.26	6,287.59	6,229.37	58.22	107.992		
5,200.00	4,532.16	4,823.47	4,822.25	47.05	16.80	115.10	-5,321.71	1,735.55	6,311.87	6,252.34	59.53	106.027		
5,300.00	4,612.46	4,882.61	4,881.31	48.30	17.01	115.40	-5,318.93	1,734.86	6,336.74	6,276.03	60.71	104.377		
5,400.00	4,692.75	4,938.48	4,937.13	49.54	17.21	115.69	-5,316.49	1,734.10	6,362.36	6,300.49	61.87	102.838		
5,500.00	4,773.04	5,000.00	4,998.59	50.79	17.43	116.01	-5,314.06	1,733.16	6,388.75	6,325.71	63.04	101.352		
5,600.00	4,853.34	5,027.04	5,025.61	52.03	17.53	116.15	-5,313.15	1,732.70	6,416.01	6,351.95	64.06	100.150		
5,700.00	4,933.63	5,057.98	5,056.53	53.28	17.64	116.31	-5,312.32	1,732.13	6,444.33	6,379.23	65.09	99.001		
5,800.00	5,013.92	5,100.00	5,098.54	54.53	17.79	116.52	-5,311.56	1,731.25	6,473.71	6,407.55	66.15	97.860		
5,900.00	5,094.21	5,142.60	5,141.13	55.77	17.94	116.74	-5,311.04	1,730.34	6,503.98	6,436.78	67.20	96.784		
6,000.00	5,174.51	5,209.71	5,208.23	57.02	18.18	117.08	-5,310.34	1,729.11	6,534.87	6,466.54	68.34	95.629		
6,100.00	5,254.80	5,273.82	5,272.33	58.27	18.41	117.40	-5,309.89	1,728.64	6,566.35	6,496.90	69.45	94.551		
6,200.00	5,335.09	5,361.85	5,360.36	59.52	18.71	117.82	-5,309.53	1,729.24	6,598.32	6,527.68	70.65	93.398		
6,300.00	5,415.38	5,452.88	5,451.38	60.76	19.03	118.25	-5,308.97	1,730.03	6,630.47	6,558.62	71.85	92.278		
6,400.00	5,495.68	5,548.89	5,547.39	62.01	19.37	118.71	-5,308.12	1,729.79	6,662.91	6,589.84	73.07	91.183		
6,500.00	5,575.97	5,631.48	5,629.96	63.26	19.66	119.11	-5,307.06	1,728.83	6,695.48	6,621.26	74.23	90.203		
6,600.00	5,656.26	5,688.36	5,686.82	64.51	19.87	119.39	-5,306.39	1,727.63	6,728.64	6,653.38	75.27	89.398		
6,700.00	5,736.55	5,792.55	5,790.97	65.76	20.24	119.90	-5,305.14	1,725.03	6,762.23	6,685.75	76.49	88.410		
6,800.00	5,816.85	5,856.48	5,854.88	67.01	20.47	120.21	-5,304.30	1,723.58	6,796.07	6,718.53	77.54	87.650		
6,900.00	5,897.14	5,930.20	5,928.58	68.26	20.73	120.56	-5,303.53	1,721.93	6,830.48	6,751.86	78.62	86.882		
7,000.00	5,977.43	6,076.02	6,074.37	69.50	21.25	121.24	-5,301.67	1,720.34	6,864.98	6,784.99	79.99	85.823		
7,100.00	6,057.72	6,220.24	6,218.56	70.75	21.76	121.89	-5,298.38	1,720.34	6,898.70	6,817.35	81.35	84.805		
7,200.00	6,138.02	6,269.30	6,267.60	72.00	21.94	122.11	-5,297.21	1,720.30	6,932.79	6,850.48	82.31	84.226		
7,300.00	6,218.31	6,391.73	6,390.00	73.25	22.38	122.66	-5,294.40	1,719.75	6,967.44	6,883.87	83.56	83.379		
7,400.00	6,298.60	6,466.24	6,464.49	74.50	22.64	122.99	-5,292.36	1,719.75	7,001.90	6,917.29	84.61	82.752		
7,500.00	6,378.90	6,524.61	6,522.84	75.75	22.85	123.24	-5,291.02	1,720.38	7,036.85	6,951.26	85.59	82.214		
7,600.00	6,459.19	6,572.68	6,570.90	77.00	23.01	123.45	-5,290.18	1,721.10	7,072.46	6,985.94	86.52	81.746		
7,700.00	6,539.48	6,649.00	6,637.68	78.25	26.92	123.89	-5,288.47	1,723.32	7,108.35	7,017.13	91.22	77.928		
7,800.00	6,619.77	6,751.18	6,749.33	79.50	23.63	124.19	-5,287.10	1,724.79	7,144.32	7,055.63	88.69	80.550		
7,900.00	6,700.07	6,800.00	6,798.14	80.75	23.80	124.39	-5,286.37	1,725.21	7,181.06	7,091.46	89.60	80.147		
8,000.00	6,780.36	6,849.58	6,847.71	82.00	23.98	124.60	-5,285.80	1,725.41	7,218.45	7,127.95	90.50	79.765		
8,100.00	6,860.65	6,938.86	6,936.99	83.25	24.29	124.97	-5,284.96	1,726.09	7,256.28	7,164.72	91.56	79.254		
8,200.00	6,940.94	7,050.08	7,048.19	84.50	24.68	125.43	-5,283.54	1,727.50	7,293.96	7,201.25	92.71	78.678		
8,300.00	7,021.24	7,129.73	7,127.83	85.76	24.96	125.74	-5,282.53	1,728.90	7,331.86	7,238.14	93.72	78.235		
8,400.00	7,101.53	7,200.00	7,198.08	87.01	25.20	126.03	-5,281.60	1,729.86	7,370.05	7,275.38	94.68	77.846		
8,500.00	7,181.82	7,258.54	7,256.61	88.26	25.41	126.26	-5,280.91	1,730.47	7,408.70	7,313.12	95.58	77.516		
8,605.60	7,266.61	7,322.71	7,320.78	89.58	25.63	126.51	-5,280.40	1,731.06	7,450.11	7,353.58	96.53	77.180		
8,650.00	7,302.60	7,359.58	7,357.65	90.13	25.76	120.41	-5,280.13	1,731.35	7,466.11	7,369.13	96.98	76.987		
8,700.00	7,343.78	7,401.67	7,399.73	90.72	25.91	113.12	-5,279.80	1,731.64	7,480.40	7,382.90	97.50	76.721		
8,750.00	7,385.32	7,440.68	7,438.74	91.28	26.05	105.59	-5,279.50	1,731.92	7,490.70	7,392.67	98.02	76.418		
8,800.00	7,426.92	7,479.89	7,477.95	91.81	26.18	98.11	-5,279.23	1,732.24	7,496.93	7,398.37	98.55	76.071		
8,850.00	7,468.27	7,519.99	7,518.04	92.29	26.32	90.99	-5,278.98	1,732.61	7,499.06	7,399.97	99.09	75.682		
8,900.00	7,509.04	7,560.69	7,558.74	92.72	26.46	84.47	-5,278.74	1,733.02	7,497.07	7,397.45	99.62	75.258		
8,950.00	7,548.93	7,600.52	7,598.57	93.10	26.60	78.73	-5,278.52	1,733.45	7,490.99	7,390.85	100.14	74.807		
9,000.00	7,587.63	7,622.88	7,620.93	93.43	26.68	73.75	-5,278.42	1,733.69	7,480.91	7,380.34	100.56	74.389		
9,050.00	7,624.85	7,644.62	7,642.67	93.71	26.75	69.62	-5,278.37	1,733.93	7,466.95	7,365.98	100.97	73.951		
9,100.00	7,660.30	7,665.38	7,663.43	93.93	26.83	66.30	-5,278.37	1,734.14	7,449.20	7,347.85	101.36	73.495		
9,150.00	7,693.72	7,700.00	7,698.04	94.10	26.94	63.83	-5,278.45	1,734.49	7,427.83	7,326.04	101.78	72.976		
9,200.00	7,724.85	7,720.59	7,718.64	94.23	27.01	62.02	-5,278.52	1,734.70	7,402.88	7,300.75	102.13	72.486		
9,250.00	7,753.45	9,250.00	7,768.68	94.30	32.25	61.12	-5,278.46	1,735.39	7,374.35	7,266.70	107.65	68.506		
9,300.00	7,779.31	7,848.96	7,846.99	94.34	27.46	61.20	-5,278.23	1,736.62	7,342.65	7,239.50	103.15	71.186		
9,350.00	7,802.23	7,883.45	7,881.47	94.33	27.57	61.76	-5,278.02	1,737.29	7,307.94	7,204.45	103.49	70.614		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,913.13	7,911.15	94.28	27.68	63.15	-5,277.82	1,737.92	7,270.55	7,166.76	103.79	70.048		
9,450.00	7,838.57	7,932.20	7,930.21	94.20	27.74	65.45	-5,277.67	1,738.33	7,230.76	7,126.73	104.03	69.508		
9,500.00	7,851.72	7,948.71	7,946.72	94.10	27.80	68.97	-5,277.54	1,738.68	7,188.88	7,084.64	104.23	68.969		
9,550.00	7,861.37	7,958.36	7,956.36	93.96	27.83	73.97	-5,277.46	1,738.89	7,145.20	7,040.81	104.39	68.446		
9,600.00	7,867.46	7,964.11	7,962.11	93.81	27.85	80.96	-5,277.41	1,739.01	7,100.07	6,995.55	104.52	67.931		
9,650.00	7,869.94	7,966.19	7,964.19	93.64	27.86	90.50	-5,277.39	1,739.06	7,053.79	6,949.17	104.62	67.425		
9,659.14	7,870.00	7,966.18	7,964.18	93.60	27.86	92.55	-5,277.39	1,739.06	7,045.23	6,940.60	104.63	67.333		
9,700.00	7,870.00	7,965.83	7,963.82	93.46	27.86	92.54	-5,277.39	1,739.05	7,006.94	6,902.24	104.70	66.926		
9,800.00	7,870.00	7,964.97	7,962.96	93.11	27.86	92.52	-5,277.40	1,739.03	6,913.34	6,808.48	104.86	65.929		
9,900.00	7,870.00	7,964.11	7,962.10	92.77	27.85	92.50	-5,277.41	1,739.01	6,819.93	6,714.90	105.03	64.932		
10,000.00	7,870.00	7,963.25	7,961.24	92.46	27.85	92.48	-5,277.41	1,738.99	6,726.71	6,621.50	105.21	63.937		
10,100.00	7,870.00	7,962.38	7,960.38	92.16	27.85	92.46	-5,277.42	1,738.97	6,633.68	6,528.29	105.39	62.943		
10,200.00	7,870.00	7,961.52	7,959.52	91.87	27.85	92.44	-5,277.43	1,738.96	6,540.86	6,435.28	105.58	61.950		
10,300.00	7,870.00	7,960.66	7,958.66	91.60	27.84	92.42	-5,277.44	1,738.94	6,448.26	6,342.47	105.78	60.958		
10,400.00	7,870.00	7,959.80	7,957.80	91.34	27.84	92.40	-5,277.44	1,738.92	6,355.88	6,249.89	105.99	59.967		
10,500.00	7,870.00	7,958.94	7,956.94	91.11	27.84	92.38	-5,277.45	1,738.90	6,263.73	6,157.52	106.20	58.978		
10,600.00	7,870.00	7,958.86	7,957.86	90.88	27.84	92.41	-5,277.44	1,738.92	6,171.82	6,065.39	106.44	57.985		
10,700.00	7,870.00	7,958.78	7,956.78	90.67	27.84	92.38	-5,277.45	1,738.90	6,080.18	5,973.51	106.67	57.000		
10,800.00	7,870.00	7,957.70	7,955.70	90.48	27.83	92.35	-5,277.46	1,738.87	5,988.79	5,881.88	106.91	56.017		
10,900.00	7,870.00	7,956.64	7,954.64	90.31	27.83	92.33	-5,277.47	1,738.85	5,897.69	5,790.53	107.16	55.035		
11,000.00	7,870.00	7,955.58	7,953.58	90.15	27.82	92.31	-5,277.48	1,738.83	5,806.89	5,699.46	107.42	54.056		
11,100.00	7,870.00	7,954.53	7,952.53	90.00	27.82	92.28	-5,277.49	1,738.81	5,716.38	5,608.69	107.70	53.079		
11,200.00	7,870.00	7,953.48	7,951.49	89.88	27.82	92.26	-5,277.50	1,738.78	5,626.20	5,518.22	107.98	52.104		
11,300.00	7,870.00	7,952.45	7,950.45	89.77	27.81	92.23	-5,277.51	1,738.76	5,536.36	5,428.08	108.28	51.132		
11,400.00	7,870.00	7,951.42	7,949.42	89.68	27.81	92.21	-5,277.51	1,738.74	5,446.87	5,338.29	108.58	50.163		
11,500.00	7,870.00	7,950.40	7,948.40	89.60	27.81	92.18	-5,277.52	1,738.72	5,357.75	5,248.85	108.90	49.197		
11,600.00	7,870.00	7,949.39	7,947.39	89.55	27.80	92.16	-5,277.53	1,738.70	5,269.03	5,159.79	109.24	48.234		
11,700.00	7,870.00	7,948.39	7,946.39	89.52	27.80	92.14	-5,277.54	1,738.67	5,180.71	5,071.12	109.59	47.275		
11,800.00	7,870.00	7,947.39	7,945.39	89.50	27.80	92.11	-5,277.55	1,738.65	5,092.83	4,982.87	109.95	46.319		
11,900.00	7,870.00	7,946.40	7,944.40	89.51	27.79	92.09	-5,277.56	1,738.63	5,005.40	4,895.07	110.33	45.368		
12,000.00	7,870.00	7,945.42	7,943.42	89.54	27.79	92.07	-5,277.57	1,738.61	4,918.44	4,807.72	110.72	44.421		
12,100.00	7,870.00	7,944.44	7,942.44	89.59	27.79	92.04	-5,277.57	1,738.59	4,832.00	4,720.86	111.13	43.479		
12,200.00	7,870.00	7,943.48	7,941.48	89.66	27.78	92.02	-5,277.58	1,738.57	4,746.08	4,634.52	111.56	42.541		
12,300.00	7,870.00	7,942.52	7,940.52	89.77	27.78	92.00	-5,277.59	1,738.55	4,660.73	4,548.72	112.01	41.610		
12,400.00	7,870.00	7,941.56	7,939.57	89.89	27.78	91.98	-5,277.60	1,738.53	4,575.97	4,463.49	112.48	40.684		
12,500.00	7,870.00	7,940.62	7,938.62	90.05	27.77	91.96	-5,277.61	1,738.51	4,491.84	4,378.88	112.96	39.764		
12,600.00	7,870.00	7,939.68	7,937.68	90.24	27.77	91.93	-5,277.61	1,738.49	4,408.37	4,294.90	113.47	38.851		
12,700.00	7,870.00	7,938.75	7,936.75	90.46	27.77	91.91	-5,277.62	1,738.47	4,325.60	4,211.61	113.99	37.946		
12,800.00	7,870.00	7,937.82	7,935.83	90.71	27.76	91.89	-5,277.63	1,738.45	4,243.57	4,129.03	114.54	37.048		
12,900.00	7,870.00	7,936.90	7,934.91	90.99	27.76	91.87	-5,277.64	1,738.43	4,162.33	4,047.22	115.11	36.158		
13,000.00	7,870.00	7,935.99	7,933.99	91.32	27.76	91.85	-5,277.64	1,738.41	4,081.92	3,966.21	115.71	35.277		
13,100.00	7,870.00	7,935.08	7,933.09	91.68	27.75	91.83	-5,277.65	1,738.39	4,002.40	3,886.07	116.33	34.406		
13,200.00	7,870.00	7,934.18	7,932.19	92.08	27.75	91.81	-5,277.66	1,738.37	3,923.81	3,806.84	116.97	33.545		
13,300.00	7,870.00	7,933.29	7,931.30	92.52	27.75	91.78	-5,277.67	1,738.35	3,846.22	3,728.58	117.64	32.695		
13,400.00	7,870.00	7,932.40	7,930.41	93.00	27.74	91.76	-5,277.67	1,738.33	3,769.68	3,651.34	118.33	31.857		
13,500.00	7,870.00	7,931.52	7,929.53	93.53	27.74	91.74	-5,277.68	1,738.31	3,694.26	3,575.21	119.05	31.031		
13,600.00	7,870.00	7,930.65	7,928.65	94.10	27.74	91.72	-5,277.69	1,738.29	3,620.03	3,500.24	119.80	30.218		
13,700.00	7,870.00	7,929.78	7,927.79	94.72	27.74	91.70	-5,277.69	1,738.28	3,547.07	3,426.51	120.57	29.420		
13,800.00	7,870.00	7,928.92	7,926.92	95.38	27.73	91.68	-5,277.70	1,738.26	3,475.46	3,354.10	121.36	28.637		
13,900.00	7,870.00	7,928.06	7,926.07	96.09	27.73	91.66	-5,277.71	1,738.24	3,405.27	3,283.09	122.18	27.871		
14,000.00	7,870.00	7,927.21	7,925.22	96.84	27.73	91.64	-5,277.71	1,738.22	3,336.61	3,213.59	123.02	27.122		
14,100.00	7,870.00	7,926.36	7,924.37	97.64	27.72	91.62	-5,277.72	1,738.20	3,269.56	3,145.67	123.89	26.391		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,925.53	7,923.53	98.48	27.72	91.60	-5,277.73	1,738.19	3,204.23	3,079.46	124.77	25.680		
14,300.00	7,870.00	7,924.69	7,922.70	99.37	27.72	91.58	-5,277.73	1,738.17	3,140.73	3,015.05	125.68	24.990		
14,400.00	7,870.00	7,923.87	7,921.87	100.30	27.71	91.56	-5,277.74	1,738.15	3,079.17	2,952.57	126.60	24.323		
14,500.00	7,870.00	7,923.04	7,921.05	101.26	27.71	91.54	-5,277.75	1,738.13	3,019.66	2,892.13	127.53	23.678		
14,600.00	7,870.00	7,922.23	7,920.24	102.27	27.71	91.53	-5,277.75	1,738.11	2,962.33	2,833.86	128.47	23.059		
14,700.00	7,870.00	7,921.42	7,919.43	103.31	27.71	91.51	-5,277.76	1,738.10	2,907.31	2,777.91	129.41	22.466		
14,800.00	7,870.00	7,920.61	7,918.62	104.38	27.70	91.49	-5,277.76	1,738.08	2,854.74	2,724.39	130.35	21.901		
14,900.00	7,870.00	7,919.81	7,917.82	105.49	27.70	91.47	-5,277.77	1,738.06	2,804.75	2,673.47	131.28	21.365		
15,000.00	7,870.00	7,919.02	7,917.03	106.63	27.70	91.45	-5,277.78	1,738.05	2,757.48	2,625.29	132.19	20.860		
15,100.00	7,870.00	7,918.23	7,916.24	107.80	27.70	91.43	-5,277.78	1,738.03	2,713.07	2,579.99	133.08	20.386		
15,200.00	7,870.00	7,920.23	7,918.24	109.00	27.70	91.48	-5,277.77	1,738.08	2,671.66	2,537.69	133.97	19.942		
15,300.00	7,870.00	7,919.32	7,917.33	110.22	27.70	91.46	-5,277.77	1,738.06	2,633.41	2,498.62	134.79	19.537		
15,400.00	7,870.00	7,918.42	7,916.43	111.47	27.70	91.44	-5,277.78	1,738.04	2,598.44	2,462.89	135.56	19.169		
15,500.00	7,870.00	7,917.53	7,915.54	112.74	27.69	91.42	-5,277.79	1,738.02	2,566.90	2,430.63	136.26	18.838		
15,600.00	7,870.00	7,916.64	7,914.65	114.03	27.69	91.39	-5,277.79	1,738.00	2,538.90	2,402.00	136.90	18.545		
15,700.00	7,870.00	7,915.76	7,913.77	115.34	27.69	91.37	-5,277.80	1,737.98	2,514.58	2,377.11	137.46	18.293		
15,800.00	7,870.00	7,914.88	7,912.89	116.68	27.68	91.35	-5,277.81	1,737.96	2,494.02	2,356.08	137.94	18.081		
15,900.00	7,870.00	7,914.01	7,912.03	118.02	27.68	91.33	-5,277.81	1,737.94	2,477.34	2,339.02	138.32	17.910		
16,000.00	7,870.00	7,913.15	7,911.16	119.39	27.68	91.31	-5,277.82	1,737.92	2,464.60	2,326.00	138.60	17.782		
16,100.00	7,870.00	7,912.29	7,910.30	120.77	27.67	91.29	-5,277.83	1,737.91	2,455.88	2,317.10	138.78	17.697		
16,200.00	7,870.00	7,911.44	7,909.45	122.17	27.67	91.27	-5,277.83	1,737.89	2,451.20	2,312.36	138.84	17.654		
16,264.73	7,870.00	7,910.89	7,908.90	123.08	27.67	91.26	-5,277.84	1,737.87	2,450.35	2,311.52	138.83	17.650 CC, ES, SF		
16,300.00	7,870.00	7,910.59	7,908.61	123.58	27.67	91.25	-5,277.84	1,737.87	2,450.60	2,311.80	138.80	17.656		
16,400.00	7,870.00	7,909.75	7,907.77	125.00	27.67	91.23	-5,277.84	1,737.85	2,454.08	2,315.43	138.65	17.700		
16,500.00	7,870.00	7,908.92	7,906.93	126.43	27.66	91.21	-5,277.85	1,737.83	2,461.61	2,323.23	138.38	17.788		
16,600.00	7,870.00	7,908.09	7,906.10	127.88	27.66	91.19	-5,277.86	1,737.81	2,473.17	2,335.16	138.02	17.919		
16,700.00	7,870.00	7,907.26	7,905.28	129.34	27.66	91.18	-5,277.86	1,737.80	2,488.70	2,351.15	137.55	18.093		
16,800.00	7,870.00	7,906.45	7,904.46	130.81	27.65	91.16	-5,277.87	1,737.78	2,508.12	2,371.13	137.00	18.308		
16,900.00	7,870.00	7,905.63	7,903.65	132.28	27.65	91.14	-5,277.87	1,737.76	2,531.35	2,394.99	136.36	18.564		
17,000.00	7,870.00	7,904.82	7,902.84	133.77	27.65	91.12	-5,277.88	1,737.74	2,558.28	2,422.63	135.64	18.860		
17,100.00	7,870.00	7,904.02	7,902.04	135.27	27.65	91.10	-5,277.89	1,737.72	2,588.79	2,453.92	134.86	19.195		
17,200.00	7,870.00	7,903.22	7,901.24	136.77	27.64	91.08	-5,277.89	1,737.71	2,622.76	2,488.73	134.03	19.568		
17,300.00	7,870.00	7,902.43	7,900.45	138.28	27.64	91.06	-5,277.90	1,737.69	2,660.06	2,526.91	133.15	19.978		
17,400.00	7,870.00	7,901.65	7,899.66	139.80	27.64	91.04	-5,277.90	1,737.67	2,700.55	2,568.31	132.23	20.423		
17,500.00	7,870.00	7,900.86	7,898.88	141.33	27.63	91.03	-5,277.91	1,737.66	2,744.08	2,612.79	131.29	20.901		
17,600.00	7,870.00	7,900.09	7,898.10	142.86	27.63	91.01	-5,277.91	1,737.64	2,790.53	2,660.20	130.33	21.412		
17,700.00	7,870.00	7,899.31	7,897.33	144.40	27.63	90.99	-5,277.92	1,737.62	2,839.73	2,710.38	129.36	21.953		
17,800.00	7,870.00	7,898.55	7,896.56	145.95	27.63	90.97	-5,277.92	1,737.61	2,891.56	2,763.18	128.38	22.524		
17,900.00	7,870.00	7,897.79	7,895.80	147.50	27.62	90.95	-5,277.93	1,737.59	2,945.87	2,818.46	127.41	23.122		
18,000.00	7,870.00	7,897.03	7,895.04	149.06	27.62	90.94	-5,277.93	1,737.57	3,002.53	2,876.09	126.44	23.747		
18,100.00	7,870.00	7,896.28	7,894.29	150.63	27.62	90.92	-5,277.94	1,737.56	3,061.41	2,935.92	125.49	24.396		
18,200.00	7,870.00	7,895.53	7,893.55	152.20	27.62	90.90	-5,277.94	1,737.54	3,122.38	2,997.83	124.55	25.069		
18,300.00	7,870.00	7,894.79	7,892.80	153.77	27.61	90.88	-5,277.95	1,737.53	3,185.32	3,061.69	123.64	25.763		
18,400.00	7,870.00	7,894.05	7,892.07	155.35	27.61	90.87	-5,277.95	1,737.51	3,250.12	3,127.38	122.74	26.479		
18,500.00	7,870.00	7,893.32	7,891.33	156.93	27.61	90.85	-5,277.96	1,737.50	3,316.68	3,194.80	121.88	27.213		
18,600.00	7,870.00	7,892.59	7,890.60	158.52	27.61	90.83	-5,277.96	1,737.48	3,384.87	3,263.84	121.04	27.966		
18,700.00	7,870.00	7,891.86	7,889.88	160.11	27.60	90.82	-5,277.97	1,737.47	3,454.62	3,334.40	120.22	28.735		
18,800.00	7,870.00	7,891.14	7,889.16	161.71	27.60	90.80	-5,277.97	1,737.45	3,525.82	3,406.38	119.44	29.520		
18,900.00	7,870.00	7,890.43	7,888.44	163.31	27.60	90.78	-5,277.98	1,737.44	3,598.40	3,479.71	118.68	30.320		
19,000.00	7,870.00	7,889.72	7,887.73	164.91	27.60	90.77	-5,277.98	1,737.42	3,672.26	3,554.30	117.95	31.133		
19,100.00	7,870.00	7,889.01	7,887.03	166.52	27.59	90.75	-5,277.99	1,737.41	3,747.33	3,630.08	117.26	31.959		
19,200.00	7,870.00	7,888.31	7,886.33	168.13	27.59	90.73	-5,277.99	1,737.39	3,823.55	3,706.96	116.59	32.796		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,887.61	7,885.63	169.75	27.59	90.72	-5,278.00	1,737.38	3,900.84	3,784.89	115.94	33.644	
19,383.51	7,870.00	7,887.03	7,885.05	171.10	27.59	90.70	-5,278.00	1,737.37	3,966.16	3,850.73	115.43	34.360	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.66	-5,617.40	5,684.22	7,991.64					
100.00	100.00	72.00	72.00	0.13	0.55	134.66	-5,617.40	5,684.22	7,991.59	7,990.91	0.69	N/A		
200.00	200.00	172.00	172.00	0.49	2.02	134.66	-5,617.40	5,684.22	7,991.59	7,989.08	2.52	3,174.440		
300.00	300.00	272.00	272.00	0.85	3.77	134.66	-5,617.40	5,684.22	7,991.59	7,986.97	4.62	1,729.302		
400.00	400.00	372.00	372.00	1.21	5.52	134.66	-5,617.40	5,684.22	7,991.59	7,984.87	6.73	1,188.326		
500.00	500.00	472.00	472.00	1.57	7.26	134.66	-5,617.40	5,684.22	7,991.59	7,982.76	8.83	905.165		
600.00	600.00	572.00	572.00	1.93	9.01	134.66	-5,617.40	5,684.22	7,991.59	7,980.66	10.93	730.982		
700.00	699.98	671.98	671.98	2.28	10.75	70.86	-5,617.40	5,684.22	7,991.02	7,977.99	13.03	613.204		
800.00	799.84	771.84	771.84	2.64	12.49	70.93	-5,617.40	5,684.22	7,989.31	7,974.18	15.13	528.134		
900.00	899.45	871.45	871.45	3.00	14.23	71.04	-5,617.40	5,684.22	7,986.46	7,969.23	17.23	463.628		
1,000.00	998.70	970.70	970.70	3.37	15.96	71.20	-5,617.40	5,684.22	7,982.49	7,963.16	19.33	412.971		
1,100.00	1,097.47	1,069.47	1,069.47	3.76	17.69	71.40	-5,617.40	5,684.22	7,977.42	7,955.98	21.44	372.072		
1,200.00	1,195.62	1,167.62	1,167.62	4.18	19.40	71.65	-5,617.40	5,684.22	7,971.27	7,947.71	23.56	338.299		
1,300.00	1,293.06	1,265.06	1,265.06	4.63	21.10	71.94	-5,617.40	5,684.22	7,964.07	7,938.37	25.70	309.889		
1,400.00	1,389.64	1,361.64	1,361.64	5.11	22.79	72.26	-5,617.40	5,684.22	7,955.86	7,928.01	27.86	285.616		
1,500.00	1,485.27	1,457.27	1,457.27	5.63	24.46	72.63	-5,617.40	5,684.22	7,946.68	7,916.65	30.03	264.605		
1,600.00	1,579.82	1,551.82	1,551.82	6.20	26.11	73.04	-5,617.40	5,684.22	7,936.57	7,904.34	32.23	246.213		
1,700.00	1,673.17	1,645.17	1,645.17	6.83	27.74	73.48	-5,617.40	5,684.22	7,925.58	7,891.12	34.47	229.960		
1,800.00	1,765.21	1,737.21	1,737.21	7.51	29.34	73.96	-5,617.40	5,684.22	7,913.77	7,877.04	36.73	215.480		
1,900.00	1,855.84	1,827.84	1,827.84	8.24	30.92	74.48	-5,617.40	5,684.22	7,901.19	7,862.17	39.02	202.489		
2,000.00	1,944.94	1,916.94	1,916.94	9.05	32.48	75.02	-5,617.40	5,684.22	7,887.91	7,846.56	41.35	190.763		
2,100.00	2,032.39	2,004.39	2,004.39	9.91	34.01	75.59	-5,617.40	5,684.22	7,873.98	7,830.27	43.71	180.125		
2,200.00	2,118.11	2,109.89	2,109.89	10.85	35.85	76.19	-5,617.40	5,684.22	7,859.49	7,813.03	46.46	169.161		
2,300.00	2,201.97	2,173.97	2,173.97	11.85	36.97	76.82	-5,617.40	5,684.22	7,844.51	7,795.96	48.56	161.556		
2,400.00	2,283.88	2,255.88	2,255.88	12.93	38.40	77.46	-5,617.40	5,684.22	7,829.11	7,778.08	51.03	153.411		
2,429.47	2,307.63	2,279.63	2,279.63	13.26	38.81	77.65	-5,617.40	5,684.22	7,824.50	7,772.73	51.77	151.139		
2,500.00	2,364.26	2,336.26	2,336.26	14.06	39.80	77.90	-5,617.40	5,684.22	7,813.55	7,760.01	53.54	145.927		
2,600.00	2,444.56	2,416.56	2,416.56	15.22	41.20	78.24	-5,617.40	5,684.22	7,798.38	7,742.30	56.08	139.060		
2,700.00	2,524.85	2,503.15	2,496.85	16.39	42.71	78.59	-5,617.40	5,684.22	7,783.64	7,724.90	58.74	132.505		
2,800.00	2,605.14	2,577.14	2,577.14	17.57	44.00	78.94	-5,617.40	5,684.22	7,769.33	7,708.13	61.20	126.948		
2,900.00	2,685.43	2,657.43	2,657.43	18.76	45.40	79.29	-5,617.40	5,684.22	7,755.45	7,691.67	63.78	121.592		
3,000.00	2,765.73	2,737.73	2,737.73	19.96	46.80	79.64	-5,617.40	5,684.22	7,742.00	7,675.63	66.38	116.640		
3,100.00	2,846.02	2,818.02	2,818.02	21.16	48.21	80.00	-5,617.40	5,684.22	7,729.00	7,660.02	68.98	112.051		
3,200.00	2,926.31	2,901.69	2,898.31	22.37	49.67	80.35	-5,617.40	5,684.22	7,716.42	7,644.78	71.65	107.700		
3,300.00	3,006.60	2,978.60	2,978.60	23.59	51.01	80.70	-5,617.40	5,684.22	7,704.29	7,630.09	74.21	103.822		
3,400.00	3,086.90	3,058.90	3,058.90	24.81	52.41	81.06	-5,617.40	5,684.22	7,692.61	7,615.78	76.83	100.123		
3,500.00	3,167.19	3,139.19	3,139.19	26.03	53.81	81.41	-5,617.40	5,684.22	7,681.36	7,601.90	79.46	96.668		
3,600.00	3,247.48	3,219.48	3,219.48	27.25	55.21	81.77	-5,617.40	5,684.22	7,670.57	7,588.47	82.10	93.433		
3,700.00	3,327.77	3,300.23	3,299.77	28.48	56.62	82.12	-5,617.40	5,684.22	7,660.22	7,575.48	84.75	90.391		
3,800.00	3,408.07	3,380.07	3,380.07	29.71	58.02	82.48	-5,617.40	5,684.22	7,650.32	7,562.94	87.38	87.551		
3,900.00	3,488.36	3,460.36	3,460.36	30.94	59.42	82.84	-5,617.40	5,684.22	7,640.88	7,550.85	90.03	84.871		
4,000.00	3,568.65	3,540.65	3,540.65	32.17	60.82	83.19	-5,617.40	5,684.22	7,631.89	7,539.21	92.68	82.347		
4,100.00	3,648.95	3,620.95	3,620.95	33.41	62.22	83.55	-5,617.40	5,684.22	7,623.35	7,528.02	95.33	79.965		
4,200.00	3,729.24	3,701.24	3,701.24	34.64	63.62	83.91	-5,617.40	5,684.22	7,615.27	7,517.28	97.99	77.715		
4,300.00	3,809.53	3,781.53	3,781.53	35.88	65.02	84.27	-5,617.40	5,684.22	7,607.65	7,507.01	100.65	75.587		
4,400.00	3,889.82	3,861.82	3,861.82	37.12	66.42	84.63	-5,617.40	5,684.22	7,600.49	7,497.19	103.31	73.571		
4,500.00	3,970.12	3,942.12	3,942.12	38.36	67.83	84.99	-5,617.40	5,684.22	7,593.80	7,487.83	105.97	71.661		
4,600.00	4,050.41	4,022.41	4,022.41	39.60	69.23	85.35	-5,617.40	5,684.22	7,587.56	7,478.93	108.63	69.847		
4,700.00	4,130.70	4,102.70	4,102.70	40.84	70.63	85.71	-5,617.40	5,684.22	7,581.79	7,470.49	111.29	68.124		
4,800.00	4,210.99	4,182.99	4,182.99	42.08	72.03	86.07	-5,617.40	5,684.22	7,576.48	7,462.52	113.96	66.485		
4,900.00	4,291.29	4,263.29	4,263.29	43.32	73.43	86.44	-5,617.40	5,684.22	7,571.64	7,455.01	116.62	64.925		
5,000.00	4,371.58	4,343.58	4,343.58	44.57	74.83	86.80	-5,617.40	5,684.22	7,567.26	7,447.97	119.29	63.438		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,423.87	4,423.87	45.81	76.23	87.16	-5,617.40	5,684.22	7,563.35	7,441.40	121.95	62.020		
5,200.00	4,532.16	4,504.16	4,504.16	47.05	77.64	87.52	-5,617.40	5,684.22	7,559.91	7,435.30	124.61	60.667		
5,300.00	4,612.46	4,584.46	4,584.46	48.30	79.04	87.89	-5,617.40	5,684.22	7,556.94	7,429.66	127.27	59.375		
5,400.00	4,692.75	4,664.75	4,664.75	49.54	80.44	88.25	-5,617.40	5,684.22	7,554.43	7,424.50	129.94	58.140		
5,500.00	4,773.04	4,745.04	4,745.04	50.79	81.84	88.61	-5,617.40	5,684.22	7,552.40	7,419.80	132.60	56.958		
5,600.00	4,853.34	4,825.34	4,825.34	52.03	83.24	88.97	-5,617.40	5,684.22	7,550.84	7,415.58	135.25	55.827		
5,700.00	4,933.63	4,905.63	4,905.63	53.28	84.64	89.34	-5,617.40	5,684.22	7,549.74	7,411.83	137.91	54.744		
5,800.00	5,013.92	4,985.92	4,985.92	54.53	86.04	89.70	-5,617.40	5,684.22	7,549.12	7,408.56	140.56	53.706		
5,882.32	5,080.02	5,052.02	5,052.02	55.55	87.20	90.00	-5,617.40	5,684.22	7,548.96	7,406.21	142.75	52.883		
5,900.00	5,094.21	5,066.21	5,066.21	55.77	87.44	90.06	-5,617.40	5,684.22	7,548.97	7,405.75	143.22	52.710		
6,000.00	5,174.51	5,146.51	5,146.51	57.02	88.85	90.43	-5,617.40	5,684.22	7,549.29	7,403.42	145.87	51.755		
6,100.00	5,254.80	5,226.80	5,226.80	58.27	90.25	90.79	-5,617.40	5,684.22	7,550.08	7,401.56	148.51	50.837		
6,200.00	5,335.09	5,307.09	5,307.09	59.52	91.65	91.15	-5,617.40	5,684.22	7,551.34	7,400.18	151.16	49.957		
6,300.00	5,415.38	5,387.38	5,387.38	60.76	93.05	91.52	-5,617.40	5,684.22	7,553.07	7,399.27	153.80	49.110		
6,400.00	5,495.68	5,467.68	5,467.68	62.01	94.45	91.88	-5,617.40	5,684.22	7,555.27	7,398.83	156.44	48.296		
6,500.00	5,575.97	5,547.97	5,547.97	63.26	95.85	92.24	-5,617.40	5,684.22	7,557.93	7,398.86	159.07	47.513		
6,600.00	5,656.26	5,628.26	5,628.26	64.51	97.25	92.61	-5,617.40	5,684.22	7,561.07	7,399.37	161.70	46.759		
6,700.00	5,736.55	5,708.55	5,708.55	65.76	98.66	92.97	-5,617.40	5,684.22	7,564.68	7,400.35	164.33	46.034		
6,800.00	5,816.85	5,788.85	5,788.85	67.01	100.06	93.33	-5,617.40	5,684.22	7,568.75	7,401.80	166.95	45.335		
6,900.00	5,897.14	5,869.14	5,869.14	68.26	101.46	93.69	-5,617.40	5,684.22	7,573.30	7,403.73	169.57	44.662		
7,000.00	5,977.43	5,949.43	5,949.43	69.50	102.86	94.05	-5,617.40	5,684.22	7,578.30	7,406.12	172.18	44.013		
7,100.00	6,057.72	6,029.72	6,029.72	70.75	104.26	94.41	-5,617.40	5,684.22	7,583.78	7,408.98	174.79	43.388		
7,200.00	6,138.02	6,110.02	6,110.02	72.00	105.66	94.78	-5,617.40	5,684.22	7,589.71	7,412.32	177.39	42.784		
7,300.00	6,218.31	6,209.69	6,190.31	73.25	107.40	95.14	-5,617.40	5,684.22	7,596.11	7,415.78	180.33	42.123		
7,400.00	6,298.60	6,270.60	6,270.60	74.50	108.47	95.50	-5,617.40	5,684.22	7,602.97	7,420.39	182.59	41.640		
7,500.00	6,378.90	6,350.90	6,350.90	75.75	109.87	95.86	-5,617.40	5,684.22	7,610.30	7,425.12	185.18	41.098		
7,600.00	6,459.19	6,431.19	6,431.19	77.00	111.27	96.22	-5,617.40	5,684.22	7,618.08	7,430.32	187.76	40.574		
7,700.00	6,539.48	6,511.48	6,511.48	78.25	112.67	96.57	-5,617.40	5,684.22	7,626.32	7,435.98	190.34	40.068		
7,800.00	6,619.77	6,608.23	6,591.77	79.50	114.36	96.93	-5,617.40	5,684.22	7,635.02	7,441.82	193.19	39.520		
7,900.00	6,700.07	6,672.07	6,672.07	80.75	115.47	97.29	-5,617.40	5,684.22	7,644.17	7,448.70	195.47	39.106		
8,000.00	6,780.36	6,752.36	6,752.36	82.00	116.87	97.65	-5,617.40	5,684.22	7,653.77	7,455.74	198.03	38.650		
8,100.00	6,860.65	6,832.65	6,832.65	83.25	118.27	98.00	-5,617.40	5,684.22	7,663.83	7,463.25	200.58	38.208		
8,200.00	6,940.94	6,912.94	6,912.94	84.50	119.68	98.36	-5,617.40	5,684.22	7,674.33	7,471.21	203.13	37.781		
8,300.00	7,021.24	7,006.76	6,993.24	85.76	121.31	98.71	-5,617.40	5,684.22	7,685.29	7,479.38	205.90	37.324		
8,400.00	7,101.53	7,073.53	7,073.53	87.01	122.48	99.07	-5,617.40	5,684.22	7,696.69	7,488.49	208.20	36.967		
8,500.00	7,181.82	7,153.82	7,153.82	88.26	123.88	99.42	-5,617.40	5,684.22	7,708.53	7,497.81	210.73	36.581		
8,605.60	7,266.61	7,238.61	7,238.61	89.58	125.36	99.80	-5,617.40	5,684.22	7,721.52	7,508.13	213.39	36.185		
8,650.00	7,302.60	7,274.60	7,274.60	90.13	125.99	94.21	-5,617.40	5,684.22	7,725.45	7,510.94	214.51	36.015		
8,700.00	7,343.78	7,315.78	7,315.78	90.72	126.71	87.31	-5,617.40	5,684.22	7,725.95	7,510.18	215.77	35.806		
8,750.00	7,385.32	7,357.32	7,357.32	91.28	127.43	79.98	-5,617.40	5,684.22	7,722.28	7,505.25	217.03	35.581		
8,800.00	7,426.92	7,401.08	7,398.92	91.81	128.20	72.50	-5,617.40	5,684.22	7,714.46	7,496.16	218.31	35.338		
8,850.00	7,468.27	7,440.27	7,440.27	92.29	128.88	65.18	-5,617.40	5,684.22	7,702.54	7,483.07	219.47	35.096		
8,900.00	7,509.04	7,481.04	7,481.04	92.72	129.59	58.27	-5,617.40	5,684.22	7,686.59	7,465.96	220.64	34.838		
8,950.00	7,548.93	7,520.93	7,520.93	93.10	130.29	51.90	-5,617.40	5,684.22	7,666.73	7,444.98	221.75	34.574		
9,000.00	7,587.63	7,559.63	7,559.63	93.43	130.96	46.14	-5,617.40	5,684.22	7,643.09	7,420.29	222.80	34.305		
9,050.00	7,624.85	7,603.15	7,596.85	93.71	131.72	40.96	-5,617.40	5,684.22	7,615.83	7,391.94	223.89	34.016		
9,100.00	7,660.30	7,632.30	7,632.30	93.93	132.23	36.26	-5,617.40	5,684.22	7,585.16	7,360.47	224.69	33.758		
9,150.00	7,693.72	7,665.72	7,665.72	94.10	132.81	31.93	-5,617.40	5,684.22	7,551.29	7,325.76	225.52	33.483		
9,200.00	7,724.85	7,703.15	7,696.85	94.23	133.47	27.81	-5,617.40	5,684.22	7,514.46	7,288.08	226.38	33.194		
9,250.00	7,753.45	7,725.45	7,725.45	94.30	133.86	23.72	-5,617.40	5,684.22	7,474.95	7,248.02	226.94	32.939		
9,300.00	7,779.31	7,751.31	7,751.31	94.34	134.31	19.39	-5,617.40	5,684.22	7,433.05	7,205.54	227.51	32.671		
9,350.00	7,802.23	7,774.23	7,774.23	94.33	134.71	14.46	-5,617.40	5,684.22	7,389.06	7,161.06	228.00	32.409		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,805.97	7,794.03	94.28	135.26	8.30	-5,617.40	5,684.22	7,343.31	7,114.72	228.60	32.123		
9,450.00	7,838.57	7,810.57	7,810.57	94.20	135.34	-0.22	-5,617.40	5,684.22	7,296.16	7,067.47	228.69	31.904		
9,500.00	7,851.72	7,823.72	7,823.72	94.10	135.57	-13.14	-5,617.40	5,684.22	7,247.96	7,019.05	228.90	31.664		
9,550.00	7,861.37	7,833.37	7,833.37	93.96	135.74	-33.51	-5,617.40	5,684.22	7,199.06	6,970.04	229.03	31.433		
9,600.00	7,867.46	7,839.46	7,839.46	93.81	135.85	-61.07	-5,617.40	5,684.22	7,149.87	6,920.80	229.06	31.214		
9,650.00	7,869.94	7,841.94	7,841.94	93.64	135.89	-86.32	-5,617.40	5,684.22	7,100.74	6,871.73	229.01	31.006		
9,659.14	7,870.00	7,842.00	7,842.00	93.60	135.89	-90.00	-5,617.40	5,684.22	7,091.80	6,862.81	228.99	30.970		
9,700.00	7,870.00	7,842.00	7,842.00	93.46	135.89	-90.00	-5,617.40	5,684.22	7,051.86	6,822.96	228.90	30.807		
9,800.00	7,870.00	7,842.00	7,842.00	93.11	135.89	-90.00	-5,617.40	5,684.22	6,954.18	6,725.50	228.68	30.410		
9,900.00	7,870.00	7,842.00	7,842.00	92.77	135.89	-90.00	-5,617.40	5,684.22	6,856.56	6,628.10	228.46	30.013		
10,000.00	7,870.00	7,842.00	7,842.00	92.46	135.89	-90.00	-5,617.40	5,684.22	6,759.01	6,530.79	228.22	29.616		
10,100.00	7,870.00	7,842.00	7,842.00	92.16	135.89	-90.00	-5,617.40	5,684.22	6,661.53	6,433.55	227.98	29.219		
10,200.00	7,870.00	7,842.00	7,842.00	91.87	135.89	-90.00	-5,617.40	5,684.22	6,564.13	6,336.39	227.74	28.823		
10,300.00	7,870.00	7,842.00	7,842.00	91.60	135.89	-90.00	-5,617.40	5,684.22	6,466.81	6,239.32	227.49	28.427		
10,400.00	7,870.00	7,842.00	7,842.00	91.34	135.89	-90.00	-5,617.40	5,684.22	6,369.57	6,142.34	227.23	28.031		
10,500.00	7,870.00	7,842.00	7,842.00	91.11	135.89	-90.00	-5,617.40	5,684.22	6,272.42	6,045.45	226.97	27.636		
10,600.00	7,870.00	7,842.00	7,842.00	90.88	135.89	-90.00	-5,617.40	5,684.22	6,175.36	5,948.66	226.69	27.241		
10,700.00	7,870.00	7,842.00	7,842.00	90.67	135.89	-90.00	-5,617.40	5,684.22	6,078.39	5,851.98	226.41	26.846		
10,800.00	7,870.00	7,842.00	7,842.00	90.48	135.89	-90.00	-5,617.40	5,684.22	5,981.52	5,755.40	226.12	26.452		
10,900.00	7,870.00	7,842.00	7,842.00	90.31	135.89	-90.00	-5,617.40	5,684.22	5,884.76	5,658.94	225.83	26.059		
11,000.00	7,870.00	7,842.00	7,842.00	90.15	135.89	-90.00	-5,617.40	5,684.22	5,788.11	5,562.59	225.52	25.665		
11,100.00	7,870.00	7,842.00	7,842.00	90.00	135.89	-90.00	-5,617.40	5,684.22	5,691.58	5,466.37	225.21	25.273		
11,200.00	7,870.00	7,842.00	7,842.00	89.88	135.89	-90.00	-5,617.40	5,684.22	5,595.16	5,370.28	224.88	24.880		
11,300.00	7,870.00	7,842.00	7,842.00	89.77	135.89	-90.00	-5,617.40	5,684.22	5,498.88	5,274.33	224.55	24.488		
11,400.00	7,870.00	7,842.00	7,842.00	89.68	135.89	-90.00	-5,617.40	5,684.22	5,402.73	5,178.52	224.21	24.097		
11,500.00	7,870.00	7,842.00	7,842.00	89.60	135.89	-90.00	-5,617.40	5,684.22	5,306.72	5,082.87	223.85	23.707		
11,600.00	7,870.00	7,842.00	7,842.00	89.55	135.89	-90.00	-5,617.40	5,684.22	5,210.86	4,987.38	223.48	23.316		
11,700.00	7,870.00	7,842.00	7,842.00	89.52	135.89	-90.00	-5,617.40	5,684.22	5,115.16	4,892.05	223.11	22.927		
11,800.00	7,870.00	7,842.00	7,842.00	89.50	135.89	-90.00	-5,617.40	5,684.22	5,019.63	4,796.91	222.72	22.538		
11,900.00	7,870.00	7,842.00	7,842.00	89.51	135.89	-90.00	-5,617.40	5,684.22	4,924.27	4,701.96	222.31	22.150		
12,000.00	7,870.00	7,842.00	7,842.00	89.54	135.89	-90.00	-5,617.40	5,684.22	4,829.11	4,607.21	221.90	21.763		
12,100.00	7,870.00	7,842.00	7,842.00	89.59	135.89	-90.00	-5,617.40	5,684.22	4,734.14	4,512.67	221.47	21.376		
12,200.00	7,870.00	7,842.00	7,842.00	89.66	135.89	-90.00	-5,617.40	5,684.22	4,639.38	4,418.36	221.03	20.990		
12,300.00	7,870.00	7,842.00	7,842.00	89.77	135.89	-90.00	-5,617.40	5,684.22	4,544.85	4,324.28	220.57	20.605		
12,400.00	7,870.00	7,842.00	7,842.00	89.89	135.89	-90.00	-5,617.40	5,684.22	4,450.56	4,230.46	220.10	20.221		
12,500.00	7,870.00	7,842.00	7,842.00	90.05	135.89	-90.00	-5,617.40	5,684.22	4,356.52	4,136.91	219.61	19.838		
12,600.00	7,870.00	7,842.00	7,842.00	90.24	135.89	-90.00	-5,617.40	5,684.22	4,262.76	4,043.65	219.10	19.455		
12,700.00	7,870.00	7,842.00	7,842.00	90.46	135.89	-90.00	-5,617.40	5,684.22	4,169.28	3,950.70	218.58	19.074		
12,800.00	7,870.00	7,842.00	7,842.00	90.71	135.89	-90.00	-5,617.40	5,684.22	4,076.11	3,858.07	218.05	18.694		
12,900.00	7,870.00	7,842.00	7,842.00	90.99	135.89	-90.00	-5,617.40	5,684.22	3,983.28	3,765.79	217.49	18.315		
13,000.00	7,870.00	7,842.00	7,842.00	91.32	135.89	-90.00	-5,617.40	5,684.22	3,890.80	3,673.88	216.92	17.937		
13,100.00	7,870.00	7,842.00	7,842.00	91.68	135.89	-90.00	-5,617.40	5,684.22	3,798.70	3,582.37	216.33	17.560		
13,200.00	7,870.00	7,842.00	7,842.00	92.08	135.89	-90.00	-5,617.40	5,684.22	3,707.01	3,491.28	215.73	17.184		
13,300.00	7,870.00	7,842.00	7,842.00	92.52	135.89	-90.00	-5,617.40	5,684.22	3,615.76	3,400.65	215.11	16.809		
13,400.00	7,870.00	7,842.00	7,842.00	93.00	135.89	-90.00	-5,617.40	5,684.22	3,524.98	3,310.52	214.47	16.436		
13,500.00	7,870.00	7,842.00	7,842.00	93.53	135.89	-90.00	-5,617.40	5,684.22	3,434.72	3,220.91	213.82	16.064		
13,600.00	7,870.00	7,842.00	7,842.00	94.10	135.89	-90.00	-5,617.40	5,684.22	3,345.02	3,131.87	213.15	15.693		
13,700.00	7,870.00	7,842.00	7,842.00	94.72	135.89	-90.00	-5,617.40	5,684.22	3,255.91	3,043.43	212.47	15.324		
13,800.00	7,870.00	7,842.00	7,842.00	95.38	135.89	-90.00	-5,617.40	5,684.22	3,167.45	2,955.66	211.79	14.956		
13,900.00	7,870.00	7,842.00	7,842.00	96.09	135.89	-90.00	-5,617.40	5,684.22	3,079.70	2,868.60	211.10	14.589		
14,000.00	7,870.00	7,842.00	7,842.00	96.84	135.89	-90.00	-5,617.40	5,684.22	2,992.71	2,782.31	210.41	14.223		
14,100.00	7,870.00	7,842.00	7,842.00	97.64	135.89	-90.00	-5,617.40	5,684.22	2,906.57	2,696.84	209.73	13.859		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,842.00	7,842.00	98.48	135.89	-90.00	-5,617.40	5,684.22	2,821.34	2,612.28	209.06	13.496		
14,300.00	7,870.00	7,842.00	7,842.00	99.37	135.89	-90.00	-5,617.40	5,684.22	2,737.11	2,528.69	208.41	13.133		
14,400.00	7,870.00	7,842.00	7,842.00	100.30	135.89	-90.00	-5,617.40	5,684.22	2,653.97	2,446.16	207.81	12.771		
14,500.00	7,870.00	7,842.00	7,842.00	101.26	135.89	-90.00	-5,617.40	5,684.22	2,572.03	2,364.78	207.25	12.410		
14,600.00	7,870.00	7,842.00	7,842.00	102.27	135.89	-90.00	-5,617.40	5,684.22	2,491.42	2,284.65	206.77	12.049		
14,700.00	7,870.00	7,842.00	7,842.00	103.31	135.89	-90.00	-5,617.40	5,684.22	2,412.25	2,205.87	206.38	11.689		
14,800.00	7,870.00	7,842.00	7,842.00	104.38	135.89	-90.00	-5,617.40	5,684.22	2,334.69	2,128.58	206.11	11.328		
14,900.00	7,870.00	7,842.00	7,842.00	105.49	135.89	-90.00	-5,617.40	5,684.22	2,258.89	2,052.90	205.99	10.966		
15,000.00	7,870.00	7,842.00	7,842.00	106.63	135.89	-90.00	-5,617.40	5,684.22	2,185.03	1,978.98	206.06	10.604		
15,100.00	7,870.00	7,842.00	7,842.00	107.80	135.89	-90.00	-5,617.40	5,684.22	2,113.33	1,906.98	206.35	10.242		
15,200.00	7,870.00	7,842.00	7,842.00	109.00	135.89	-90.00	-5,617.40	5,684.22	2,044.01	1,837.10	206.91	9.879		
15,300.00	7,870.00	7,842.00	7,842.00	110.22	135.89	-90.00	-5,617.40	5,684.22	1,977.32	1,769.53	207.79	9.516		
15,400.00	7,870.00	7,842.00	7,842.00	111.47	135.89	-90.00	-5,617.40	5,684.22	1,913.53	1,704.51	209.02	9.155		
15,500.00	7,870.00	7,842.00	7,842.00	112.74	135.89	-90.00	-5,617.40	5,684.22	1,852.94	1,642.29	210.65	8.796		
15,600.00	7,870.00	7,842.00	7,842.00	114.03	135.89	-90.00	-5,617.40	5,684.22	1,795.88	1,583.17	212.71	8.443		
15,700.00	7,870.00	7,842.00	7,842.00	115.34	135.89	-90.00	-5,617.40	5,684.22	1,742.70	1,527.48	215.22	8.097		
15,800.00	7,870.00	7,842.00	7,842.00	116.68	135.89	-90.00	-5,617.40	5,684.22	1,693.75	1,475.58	218.18	7.763		
15,900.00	7,870.00	7,842.00	7,842.00	118.02	135.89	-90.00	-5,617.40	5,684.22	1,649.43	1,427.85	221.57	7.444		
16,000.00	7,870.00	7,842.00	7,842.00	119.39	135.89	-90.00	-5,617.40	5,684.22	1,610.10	1,384.72	225.37	7.144		
16,100.00	7,870.00	7,842.00	7,842.00	120.77	135.89	-90.00	-5,617.40	5,684.22	1,576.14	1,346.62	229.52	6.867		
16,200.00	7,870.00	7,842.00	7,842.00	122.17	135.89	-90.00	-5,617.40	5,684.22	1,547.91	1,313.97	233.94	6.617		
16,300.00	7,870.00	7,842.00	7,842.00	123.58	135.89	-90.00	-5,617.40	5,684.22	1,525.72	1,287.18	238.54	6.396		
16,400.00	7,870.00	7,842.00	7,842.00	125.00	135.89	-90.00	-5,617.40	5,684.22	1,509.84	1,266.63	243.21	6.208		
16,500.00	7,870.00	7,842.00	7,842.00	126.43	135.89	-90.00	-5,617.40	5,684.22	1,500.48	1,252.63	247.85	6.054		
16,590.98	7,870.00	7,842.00	7,842.00	127.75	135.89	-90.00	-5,617.40	5,684.22	1,497.71	1,245.76	251.95	5.944 CC		
16,600.00	7,870.00	7,842.00	7,842.00	127.88	135.89	-90.00	-5,617.40	5,684.22	1,497.74	1,245.39	252.35	5.935		
16,700.00	7,870.00	7,842.00	7,842.00	129.34	135.89	-90.00	-5,617.40	5,684.22	1,501.68	1,245.07	256.61	5.852 ES		
16,800.00	7,870.00	7,842.00	7,842.00	130.81	135.89	-90.00	-5,617.40	5,684.22	1,512.23	1,251.68	260.55	5.804		
16,900.00	7,870.00	7,842.00	7,842.00	132.28	135.89	-90.00	-5,617.40	5,684.22	1,529.26	1,265.14	264.12	5.790 SF		
17,000.00	7,870.00	7,842.00	7,842.00	133.77	135.89	-90.00	-5,617.40	5,684.22	1,552.56	1,285.30	267.27	5.809		
17,100.00	7,870.00	7,842.00	7,842.00	135.27	135.89	-90.00	-5,617.40	5,684.22	1,581.85	1,311.87	269.98	5.859		
17,200.00	7,870.00	7,842.00	7,842.00	136.77	135.89	-90.00	-5,617.40	5,684.22	1,616.80	1,344.54	272.27	5.938		
17,300.00	7,870.00	7,842.00	7,842.00	138.28	135.89	-90.00	-5,617.40	5,684.22	1,657.06	1,382.92	274.14	6.045		
17,400.00	7,870.00	7,842.00	7,842.00	139.80	135.89	-90.00	-5,617.40	5,684.22	1,702.25	1,426.62	275.63	6.176		
17,500.00	7,870.00	7,842.00	7,842.00	141.33	135.89	-90.00	-5,617.40	5,684.22	1,751.99	1,475.21	276.78	6.330		
17,600.00	7,870.00	7,842.00	7,842.00	142.86	135.89	-90.00	-5,617.40	5,684.22	1,805.90	1,528.28	277.62	6.505		
17,700.00	7,870.00	7,842.00	7,842.00	144.40	135.89	-90.00	-5,617.40	5,684.22	1,863.62	1,585.43	278.19	6.699		
17,800.00	7,870.00	7,842.00	7,842.00	145.95	135.89	-90.00	-5,617.40	5,684.22	1,924.80	1,646.27	278.53	6.910		
17,900.00	7,870.00	7,842.00	7,842.00	147.50	135.89	-90.00	-5,617.40	5,684.22	1,989.14	1,710.45	278.69	7.138		
18,000.00	7,870.00	7,842.00	7,842.00	149.06	135.89	-90.00	-5,617.40	5,684.22	2,056.33	1,777.64	278.68	7.379		
18,100.00	7,870.00	7,842.00	7,842.00	150.63	135.89	-90.00	-5,617.40	5,684.22	2,126.10	1,847.55	278.55	7.633		
18,200.00	7,870.00	7,842.00	7,842.00	152.20	135.89	-90.00	-5,617.40	5,684.22	2,198.20	1,919.89	278.31	7.898		
18,300.00	7,870.00	7,842.00	7,842.00	153.77	135.89	-90.00	-5,617.40	5,684.22	2,272.42	1,994.43	277.99	8.174		
18,400.00	7,870.00	7,842.00	7,842.00	155.35	135.89	-90.00	-5,617.40	5,684.22	2,348.55	2,070.95	277.61	8.460		
18,500.00	7,870.00	7,842.00	7,842.00	156.93	135.89	-90.00	-5,617.40	5,684.22	2,426.42	2,149.25	277.17	8.754		
18,600.00	7,870.00	7,842.00	7,842.00	158.52	135.89	-90.00	-5,617.40	5,684.22	2,505.85	2,229.16	276.70	9.056		
18,700.00	7,870.00	7,842.00	7,842.00	160.11	135.89	-90.00	-5,617.40	5,684.22	2,586.72	2,310.52	276.20	9.365		
18,800.00	7,870.00	7,842.00	7,842.00	161.71	135.89	-90.00	-5,617.40	5,684.22	2,668.88	2,393.20	275.68	9.681		
18,900.00	7,870.00	7,842.00	7,842.00	163.31	135.89	-90.00	-5,617.40	5,684.22	2,752.22	2,477.07	275.15	10.003		
19,000.00	7,870.00	7,842.00	7,842.00	164.91	135.89	-90.00	-5,617.40	5,684.22	2,836.64	2,562.02	274.61	10.330		
19,100.00	7,870.00	7,842.00	7,842.00	166.52	135.89	-90.00	-5,617.40	5,684.22	2,922.04	2,647.96	274.08	10.661		
19,200.00	7,870.00	7,842.00	7,842.00	168.13	135.89	-90.00	-5,617.40	5,684.22	3,008.34	2,734.80	273.54	10.998		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,842.00	7,842.00	169.75	135.89	-90.00	-5,617.40	5,684.22	3,095.47	2,822.46	273.01	11.338	
19,383.51	7,870.00	7,842.00	7,842.00	171.10	135.89	-90.00	-5,617.40	5,684.22	3,168.81	2,896.23	272.58	11.625	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.49	-4,823.42	4,910.80	6,883.57					
100.00	100.00	53.00	53.00	0.13	0.41	134.49	-4,823.42	4,910.80	6,883.41	6,882.87	0.54	N/A		
200.00	200.00	153.00	153.00	0.49	1.69	134.49	-4,823.42	4,910.80	6,883.41	6,881.22	2.19	3,149.050		
300.00	300.00	253.00	253.00	0.85	3.44	134.49	-4,823.42	4,910.80	6,883.41	6,879.12	4.29	1,604.648		
400.00	400.00	353.00	353.00	1.21	5.18	134.49	-4,823.42	4,910.80	6,883.41	6,877.02	6.39	1,076.631		
500.00	500.00	453.00	453.00	1.57	6.93	134.49	-4,823.42	4,910.80	6,883.41	6,874.91	8.50	810.073		
600.00	600.00	553.00	553.00	1.93	8.67	134.49	-4,823.42	4,910.80	6,883.41	6,872.81	10.60	649.313		
700.00	699.98	652.98	652.98	2.28	10.42	70.69	-4,823.42	4,910.80	6,882.83	6,870.13	12.70	541.957		
800.00	799.84	752.84	752.84	2.64	12.16	70.76	-4,823.42	4,910.80	6,881.10	6,866.31	14.80	465.072		
900.00	899.45	852.45	852.45	3.00	13.90	70.89	-4,823.42	4,910.80	6,878.23	6,861.34	16.89	407.131		
1,000.00	998.70	951.70	951.70	3.37	15.63	71.06	-4,823.42	4,910.80	6,874.23	6,855.23	19.00	361.844		
1,100.00	1,097.47	1,050.47	1,050.47	3.76	17.36	71.28	-4,823.42	4,910.80	6,869.12	6,848.02	21.11	325.415		
1,200.00	1,195.62	1,148.62	1,148.62	4.18	19.07	71.54	-4,823.42	4,910.80	6,862.94	6,839.71	23.23	295.422		
1,300.00	1,293.06	1,246.06	1,246.06	4.63	20.77	71.85	-4,823.42	4,910.80	6,855.71	6,830.34	25.37	270.251		
1,400.00	1,389.64	1,342.64	1,342.64	5.11	22.46	72.21	-4,823.42	4,910.80	6,847.47	6,819.95	27.52	248.788		
1,500.00	1,485.27	1,438.27	1,438.27	5.63	24.13	72.61	-4,823.42	4,910.80	6,838.27	6,808.57	29.70	230.240		
1,600.00	1,579.82	1,532.82	1,532.82	6.20	25.78	73.05	-4,823.42	4,910.80	6,828.16	6,796.25	31.90	214.028		
1,700.00	1,673.17	1,626.17	1,626.17	6.83	27.40	73.54	-4,823.42	4,910.80	6,817.19	6,783.05	34.13	199.718		
1,800.00	1,765.21	1,718.21	1,718.21	7.51	29.01	74.06	-4,823.42	4,910.80	6,805.42	6,769.03	36.40	186.984		
1,900.00	1,855.84	1,808.84	1,808.84	8.24	30.59	74.61	-4,823.42	4,910.80	6,792.93	6,754.24	38.69	175.569		
2,000.00	1,944.94	1,902.06	1,897.94	9.05	32.22	75.20	-4,823.42	4,910.80	6,779.78	6,738.68	41.09	164.985		
2,100.00	2,032.39	1,985.39	1,985.39	9.91	33.67	75.82	-4,823.42	4,910.80	6,766.04	6,722.65	43.39	155.942		
2,200.00	2,118.11	2,071.11	2,071.11	10.85	35.17	76.47	-4,823.42	4,910.80	6,751.79	6,706.00	45.79	147.443		
2,300.00	2,201.97	2,154.97	2,154.97	11.85	36.63	77.14	-4,823.42	4,910.80	6,737.13	6,688.89	48.24	139.671		
2,400.00	2,283.88	2,236.88	2,236.88	12.93	38.06	77.83	-4,823.42	4,910.80	6,722.12	6,671.41	50.72	132.541		
2,429.47	2,307.63	2,260.63	2,260.63	13.26	38.48		-4,823.42	4,910.80	6,717.65	6,666.19	51.46	130.553		
2,500.00	2,364.26	2,317.26	2,317.26	14.06	39.47	78.32	-4,823.42	4,910.80	6,707.04	6,653.81	53.23	125.996		
2,600.00	2,444.56	2,402.44	2,397.56	15.22	40.95	78.73	-4,823.42	4,910.80	6,692.43	6,636.57	55.86	119.812		
2,700.00	2,524.85	2,477.85	2,477.85	16.39	42.27	79.13	-4,823.42	4,910.80	6,678.32	6,619.98	58.33	114.490		
2,800.00	2,605.14	2,558.14	2,558.14	17.57	43.67	79.54	-4,823.42	4,910.80	6,664.71	6,603.80	60.91	109.427		
2,900.00	2,685.43	2,638.43	2,638.43	18.76	45.07	79.95	-4,823.42	4,910.80	6,651.60	6,588.11	63.49	104.762		
3,000.00	2,765.73	2,718.73	2,718.73	19.96	46.47	80.36	-4,823.42	4,910.80	6,639.01	6,572.91	66.09	100.452		
3,100.00	2,846.02	2,800.98	2,799.02	21.16	47.91	80.77	-4,823.42	4,910.80	6,626.92	6,558.19	68.73	96.414		
3,200.00	2,926.31	2,879.31	2,879.31	22.37	49.28	81.18	-4,823.42	4,910.80	6,615.36	6,544.04	71.32	92.760		
3,300.00	3,006.60	2,959.60	2,959.60	23.59	50.68	81.59	-4,823.42	4,910.80	6,604.31	6,530.37	73.94	89.318		
3,400.00	3,086.90	3,039.90	3,039.90	24.81	52.08	82.01	-4,823.42	4,910.80	6,593.78	6,517.21	76.57	86.112		
3,500.00	3,167.19	3,120.19	3,120.19	26.03	53.48	82.42	-4,823.42	4,910.80	6,583.77	6,504.56	79.21	83.120		
3,600.00	3,247.48	3,200.48	3,200.48	27.25	54.88	82.84	-4,823.42	4,910.80	6,574.29	6,492.44	81.85	80.322		
3,700.00	3,327.77	3,280.77	3,280.77	28.48	56.28	83.25	-4,823.42	4,910.80	6,565.34	6,480.84	84.49	77.701		
3,800.00	3,408.07	3,361.07	3,361.07	29.71	57.68	83.67	-4,823.42	4,910.80	6,556.91	6,469.77	87.14	75.243		
3,900.00	3,488.36	3,441.36	3,441.36	30.94	59.09	84.09	-4,823.42	4,910.80	6,549.02	6,459.22	89.80	72.933		
4,000.00	3,568.65	3,521.65	3,521.65	32.17	60.49	84.50	-4,823.42	4,910.80	6,541.66	6,449.21	92.45	70.759		
4,100.00	3,648.95	3,601.95	3,601.95	33.41	61.89	84.92	-4,823.42	4,910.80	6,534.84	6,439.73	95.11	68.711		
4,200.00	3,729.24	3,682.24	3,682.24	34.64	63.29	85.34	-4,823.42	4,910.80	6,528.55	6,430.79	97.76	66.778		
4,300.00	3,809.53	3,762.53	3,762.53	35.88	64.69	85.76	-4,823.42	4,910.80	6,522.80	6,422.38	100.42	64.953		
4,400.00	3,889.82	3,842.82	3,842.82	37.12	66.09	86.18	-4,823.42	4,910.80	6,517.60	6,414.51	103.08	63.226		
4,500.00	3,970.12	3,923.12	3,923.12	38.36	67.49	86.60	-4,823.42	4,910.80	6,512.93	6,407.19	105.74	61.591		
4,600.00	4,050.41	4,003.41	4,003.41	39.60	68.90	87.02	-4,823.42	4,910.80	6,508.81	6,400.40	108.41	60.041		
4,700.00	4,130.70	4,083.70	4,083.70	40.84	70.30	87.44	-4,823.42	4,910.80	6,505.23	6,394.16	111.07	58.571		
4,800.00	4,210.99	4,163.99	4,163.99	42.08	71.70	87.87	-4,823.42	4,910.80	6,502.19	6,388.47	113.73	57.174		
4,900.00	4,291.29	4,244.29	4,244.29	43.32	73.10	88.29	-4,823.42	4,910.80	6,499.70	6,383.32	116.38	55.847		
5,000.00	4,371.58	4,324.58	4,324.58	44.57	74.50	88.71	-4,823.42	4,910.80	6,497.76	6,378.72	119.04	54.584		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,404.87	4,404.87	45.81	75.90	89.13	-4,823.42	4,910.80	6,496.36	6,374.66	121.70	53.382		
5,200.00	4,532.16	4,485.16	4,485.16	47.05	77.30	89.55	-4,823.42	4,910.80	6,495.51	6,371.16	124.35	52.236		
5,300.00	4,612.46	4,565.46	4,565.46	48.30	78.70	89.98	-4,823.42	4,910.80	6,495.21	6,368.20	127.00	51.143		
5,305.59	4,616.94	4,569.94	4,569.94	48.37	78.78	90.00	-4,823.42	4,910.80	6,495.20	6,368.06	127.15	51.083		
5,400.00	4,692.75	4,645.75	4,645.75	49.54	80.11	90.40	-4,823.42	4,910.80	6,495.45	6,365.80	129.65	50.100		
5,500.00	4,773.04	4,726.04	4,726.04	50.79	81.51	90.82	-4,823.42	4,910.80	6,496.24	6,363.94	132.29	49.104		
5,600.00	4,853.34	4,806.34	4,806.34	52.03	82.91	91.24	-4,823.42	4,910.80	6,497.57	6,362.64	134.94	48.153		
5,700.00	4,933.63	4,886.63	4,886.63	53.28	84.31	91.66	-4,823.42	4,910.80	6,499.46	6,361.88	137.57	47.243		
5,800.00	5,013.92	4,966.92	4,966.92	54.53	85.71	92.09	-4,823.42	4,910.80	6,501.89	6,361.68	140.21	46.373		
5,900.00	5,094.21	5,047.21	5,047.21	55.77	87.11	92.51	-4,823.42	4,910.80	6,504.86	6,362.02	142.84	45.540		
6,000.00	5,174.51	5,127.51	5,127.51	57.02	88.51	92.93	-4,823.42	4,910.80	6,508.38	6,362.92	145.47	44.742		
6,100.00	5,254.80	5,207.80	5,207.80	58.27	89.92	93.35	-4,823.42	4,910.80	6,512.44	6,364.36	148.09	43.977		
6,200.00	5,335.09	5,288.09	5,288.09	59.52	91.32	93.77	-4,823.42	4,910.80	6,517.05	6,366.35	150.70	43.245		
6,300.00	5,415.38	5,368.38	5,368.38	60.76	92.72	94.19	-4,823.42	4,910.80	6,522.20	6,368.88	153.31	42.542		
6,400.00	5,495.68	5,448.68	5,448.68	62.01	94.12	94.61	-4,823.42	4,910.80	6,527.88	6,371.96	155.92	41.867		
6,500.00	5,575.97	5,528.97	5,528.97	63.26	95.52	95.03	-4,823.42	4,910.80	6,534.11	6,375.59	158.52	41.220		
6,600.00	5,656.26	5,609.26	5,609.26	64.51	96.92	95.45	-4,823.42	4,910.80	6,540.87	6,379.76	161.11	40.598		
6,700.00	5,736.55	5,689.55	5,689.55	65.76	98.32	95.87	-4,823.42	4,910.80	6,548.17	6,384.47	163.70	40.001		
6,800.00	5,816.85	5,769.85	5,769.85	67.01	99.73	96.28	-4,823.42	4,910.80	6,556.00	6,389.72	166.28	39.428		
6,900.00	5,897.14	5,850.14	5,850.14	68.26	101.13	96.70	-4,823.42	4,910.80	6,564.37	6,395.51	168.85	38.876		
7,000.00	5,977.43	5,930.43	5,930.43	69.50	102.53	97.12	-4,823.42	4,910.80	6,573.26	6,401.84	171.42	38.346		
7,100.00	6,057.72	6,010.72	6,010.72	70.75	103.93	97.53	-4,823.42	4,910.80	6,582.69	6,408.70	173.98	37.836		
7,200.00	6,138.02	6,108.98	6,091.02	72.00	105.64	97.95	-4,823.42	4,910.80	6,592.63	6,415.79	176.85	37.278		
7,300.00	6,218.31	6,171.31	6,171.31	73.25	106.73	98.36	-4,823.42	4,910.80	6,603.10	6,424.02	179.08	36.872		
7,400.00	6,298.60	6,251.60	6,251.60	74.50	108.13	98.77	-4,823.42	4,910.80	6,614.10	6,432.48	181.62	36.418		
7,500.00	6,378.90	6,331.90	6,331.90	75.75	109.54	99.19	-4,823.42	4,910.80	6,625.61	6,441.46	184.15	35.980		
7,600.00	6,459.19	6,412.19	6,412.19	77.00	110.94	99.60	-4,823.42	4,910.80	6,637.63	6,450.96	186.67	35.558		
7,700.00	6,539.48	6,507.52	6,492.48	78.25	112.60	100.01	-4,823.42	4,910.80	6,650.17	6,460.72	189.45	35.103		
7,800.00	6,619.77	6,572.77	6,572.77	79.50	113.74	100.41	-4,823.42	4,910.80	6,663.22	6,471.52	191.69	34.760		
7,900.00	6,700.07	6,653.07	6,653.07	80.75	115.14	100.82	-4,823.42	4,910.80	6,676.77	6,482.58	194.19	34.383		
8,000.00	6,780.36	6,733.36	6,733.36	82.00	116.54	101.23	-4,823.42	4,910.80	6,690.83	6,494.15	196.68	34.019		
8,100.00	6,860.65	6,813.65	6,813.65	83.25	117.94	101.64	-4,823.42	4,910.80	6,705.39	6,506.23	199.16	33.669		
8,200.00	6,940.94	6,906.06	6,893.94	84.50	119.56	102.04	-4,823.42	4,910.80	6,720.44	6,518.60	201.84	33.296		
8,300.00	7,021.24	6,974.24	6,974.24	85.76	120.75	102.44	-4,823.42	4,910.80	6,735.99	6,531.90	204.09	33.004		
8,400.00	7,101.53	7,054.53	7,054.53	87.01	122.15	102.84	-4,823.42	4,910.80	6,752.03	6,545.48	206.55	32.690		
8,500.00	7,181.82	7,134.82	7,134.82	88.26	123.55	103.25	-4,823.42	4,910.80	6,768.56	6,559.56	208.99	32.386		
8,605.60	7,266.61	7,219.61	7,219.61	89.58	125.03	103.67	-4,823.42	4,910.80	6,786.53	6,574.97	211.57	32.078		
8,650.00	7,302.60	7,255.60	7,255.60	90.13	125.66	98.11	-4,823.42	4,910.80	6,792.57	6,579.92	212.65	31.942		
8,700.00	7,343.78	7,303.22	7,296.78	90.72	126.49	91.26	-4,823.42	4,910.80	6,795.41	6,581.42	213.99	31.755		
8,750.00	7,385.32	7,338.32	7,338.32	91.28	127.10	84.00	-4,823.42	4,910.80	6,794.05	6,578.94	215.11	31.584		
8,800.00	7,426.92	7,379.92	7,379.92	91.81	127.83	76.64	-4,823.42	4,910.80	6,788.48	6,572.16	216.32	31.381		
8,850.00	7,468.27	7,421.27	7,421.27	92.29	128.55	69.46	-4,823.42	4,910.80	6,778.75	6,561.24	217.51	31.165		
8,900.00	7,509.04	7,462.04	7,462.04	92.72	129.26	62.73	-4,823.42	4,910.80	6,764.91	6,546.25	218.66	30.938		
8,950.00	7,548.93	7,501.93	7,501.93	93.10	129.96	56.60	-4,823.42	4,910.80	6,747.06	6,527.29	219.77	30.701		
9,000.00	7,587.63	7,540.63	7,540.63	93.43	130.63	51.13	-4,823.42	4,910.80	6,725.32	6,504.50	220.82	30.456		
9,050.00	7,624.85	7,577.85	7,577.85	93.71	131.28	46.30	-4,823.42	4,910.80	6,699.84	6,478.03	221.81	30.205		
9,100.00	7,660.30	7,613.30	7,613.30	93.93	131.90	42.05	-4,823.42	4,910.80	6,670.81	6,448.07	222.73	29.950		
9,150.00	7,693.72	7,646.72	7,646.72	94.10	132.48	38.28	-4,823.42	4,910.80	6,638.42	6,414.84	223.58	29.691		
9,200.00	7,724.85	7,677.85	7,677.85	94.23	133.03	34.89	-4,823.42	4,910.80	6,602.91	6,378.56	224.35	29.431		
9,250.00	7,753.45	7,706.45	7,706.45	94.30	133.53	31.75	-4,823.42	4,910.80	6,564.54	6,339.50	225.04	29.170		
9,300.00	7,779.31	7,732.31	7,732.31	94.34	133.98	28.70	-4,823.42	4,910.80	6,523.59	6,297.93	225.65	28.910		
9,350.00	7,802.23	7,755.23	7,755.23	94.33	134.38	25.54	-4,823.42	4,910.80	6,480.35	6,254.17	226.17	28.652		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,775.03	7,775.03	94.28	134.72	21.93	-4,823.42	4,910.80	6,435.14	6,208.53	226.61	28.398		
9,450.00	7,838.57	7,808.43	7,791.57	94.20	135.31	17.25	-4,823.42	4,910.80	6,388.30	6,161.05	227.25	28.112		
9,500.00	7,851.72	7,804.72	7,804.72	94.10	135.24	10.09	-4,823.42	4,910.80	6,340.18	6,112.97	227.21	27.904		
9,550.00	7,861.37	7,814.37	7,814.37	93.96	135.41	-3.45	-4,823.42	4,910.80	6,291.14	6,063.76	227.38	27.668		
9,600.00	7,867.46	7,820.46	7,820.46	93.81	135.52	-34.48	-4,823.42	4,910.80	6,241.56	6,014.09	227.47	27.439		
9,650.00	7,869.94	7,822.94	7,822.94	93.64	135.56	-83.02	-4,823.42	4,910.80	6,191.81	5,964.34	227.47	27.220		
9,659.14	7,870.00	7,823.00	7,823.00	93.60	135.56	-90.00	-4,823.42	4,910.80	6,182.73	5,955.27	227.46	27.181		
9,700.00	7,870.00	7,823.00	7,823.00	93.46	135.56	-90.00	-4,823.42	4,910.80	6,142.15	5,914.73	227.42	27.008		
9,800.00	7,870.00	7,823.00	7,823.00	93.11	135.56	-90.00	-4,823.42	4,910.80	6,042.85	5,815.54	227.31	26.584		
9,900.00	7,870.00	7,823.00	7,823.00	92.77	135.56	-90.00	-4,823.42	4,910.80	5,943.58	5,716.38	227.20	26.160		
10,000.00	7,870.00	7,823.00	7,823.00	92.46	135.56	-90.00	-4,823.42	4,910.80	5,844.33	5,617.25	227.08	25.736		
10,100.00	7,870.00	7,823.00	7,823.00	92.16	135.56	-90.00	-4,823.42	4,910.80	5,745.11	5,518.15	226.97	25.313		
10,200.00	7,870.00	7,823.00	7,823.00	91.87	135.56	-90.00	-4,823.42	4,910.80	5,645.92	5,419.08	226.84	24.889		
10,300.00	7,870.00	7,823.00	7,823.00	91.60	135.56	-90.00	-4,823.42	4,910.80	5,546.75	5,320.04	226.72	24.465		
10,400.00	7,870.00	7,823.00	7,823.00	91.34	135.56	-90.00	-4,823.42	4,910.80	5,447.62	5,221.03	226.59	24.042		
10,500.00	7,870.00	7,823.00	7,823.00	91.11	135.56	-90.00	-4,823.42	4,910.80	5,348.52	5,122.06	226.45	23.619		
10,600.00	7,870.00	7,823.00	7,823.00	90.88	135.56	-90.00	-4,823.42	4,910.80	5,249.45	5,023.14	226.31	23.196		
10,700.00	7,870.00	7,823.00	7,823.00	90.67	135.56	-90.00	-4,823.42	4,910.80	5,150.42	4,924.25	226.17	22.772		
10,800.00	7,870.00	7,823.00	7,823.00	90.48	135.56	-90.00	-4,823.42	4,910.80	5,051.42	4,825.40	226.02	22.350		
10,900.00	7,870.00	7,823.00	7,823.00	90.31	135.56	-90.00	-4,823.42	4,910.80	4,952.47	4,726.60	225.86	21.927		
11,000.00	7,870.00	7,823.00	7,823.00	90.15	135.56	-90.00	-4,823.42	4,910.80	4,853.56	4,627.86	225.70	21.504		
11,100.00	7,870.00	7,823.00	7,823.00	90.00	135.56	-90.00	-4,823.42	4,910.80	4,754.69	4,529.16	225.53	21.082		
11,200.00	7,870.00	7,823.00	7,823.00	89.88	135.56	-90.00	-4,823.42	4,910.80	4,655.88	4,430.51	225.36	20.660		
11,300.00	7,870.00	7,823.00	7,823.00	89.77	135.56	-90.00	-4,823.42	4,910.80	4,557.11	4,331.93	225.18	20.238		
11,400.00	7,870.00	7,823.00	7,823.00	89.68	135.56	-90.00	-4,823.42	4,910.80	4,458.40	4,233.41	224.99	19.816		
11,500.00	7,870.00	7,823.00	7,823.00	89.60	135.56	-90.00	-4,823.42	4,910.80	4,359.75	4,134.96	224.79	19.394		
11,600.00	7,870.00	7,823.00	7,823.00	89.55	135.56	-90.00	-4,823.42	4,910.80	4,261.16	4,036.57	224.59	18.973		
11,700.00	7,870.00	7,823.00	7,823.00	89.52	135.56	-90.00	-4,823.42	4,910.80	4,162.64	3,938.27	224.37	18.552		
11,800.00	7,870.00	7,823.00	7,823.00	89.50	135.56	-90.00	-4,823.42	4,910.80	4,064.19	3,840.04	224.15	18.132		
11,900.00	7,870.00	7,823.00	7,823.00	89.51	135.56	-90.00	-4,823.42	4,910.80	3,965.82	3,741.91	223.91	17.711		
12,000.00	7,870.00	7,823.00	7,823.00	89.54	135.56	-90.00	-4,823.42	4,910.80	3,867.53	3,643.87	223.67	17.292		
12,100.00	7,870.00	7,823.00	7,823.00	89.59	135.56	-90.00	-4,823.42	4,910.80	3,769.33	3,545.93	223.41	16.872		
12,200.00	7,870.00	7,823.00	7,823.00	89.66	135.56	-90.00	-4,823.42	4,910.80	3,671.23	3,448.10	223.14	16.453		
12,300.00	7,870.00	7,823.00	7,823.00	89.77	135.56	-90.00	-4,823.42	4,910.80	3,573.24	3,350.39	222.85	16.034		
12,400.00	7,870.00	7,823.00	7,823.00	89.89	135.56	-90.00	-4,823.42	4,910.80	3,475.36	3,252.81	222.55	15.616		
12,500.00	7,870.00	7,823.00	7,823.00	90.05	135.56	-90.00	-4,823.42	4,910.80	3,377.60	3,155.37	222.23	15.199		
12,600.00	7,870.00	7,823.00	7,823.00	90.24	135.56	-90.00	-4,823.42	4,910.80	3,279.98	3,058.08	221.90	14.782		
12,700.00	7,870.00	7,823.00	7,823.00	90.46	135.56	-90.00	-4,823.42	4,910.80	3,182.51	2,960.96	221.54	14.365		
12,800.00	7,870.00	7,823.00	7,823.00	90.71	135.56	-90.00	-4,823.42	4,910.80	3,085.19	2,864.03	221.17	13.950		
12,900.00	7,870.00	7,823.00	7,823.00	90.99	135.56	-90.00	-4,823.42	4,910.80	2,988.06	2,767.29	220.77	13.535		
13,000.00	7,870.00	7,823.00	7,823.00	91.32	135.56	-90.00	-4,823.42	4,910.80	2,891.12	2,670.77	220.35	13.121		
13,100.00	7,870.00	7,823.00	7,823.00	91.68	135.56	-90.00	-4,823.42	4,910.80	2,794.40	2,574.50	219.90	12.708		
13,200.00	7,870.00	7,823.00	7,823.00	92.08	135.56	-90.00	-4,823.42	4,910.80	2,697.91	2,478.49	219.42	12.295		
13,300.00	7,870.00	7,823.00	7,823.00	92.52	135.56	-90.00	-4,823.42	4,910.80	2,601.69	2,382.78	218.92	11.884		
13,400.00	7,870.00	7,823.00	7,823.00	93.00	135.56	-90.00	-4,823.42	4,910.80	2,505.77	2,287.39	218.37	11.475		
13,500.00	7,870.00	7,823.00	7,823.00	93.53	135.56	-90.00	-4,823.42	4,910.80	2,410.18	2,192.38	217.80	11.066		
13,600.00	7,870.00	7,823.00	7,823.00	94.10	135.56	-90.00	-4,823.42	4,910.80	2,314.96	2,097.78	217.18	10.659		
13,700.00	7,870.00	7,823.00	7,823.00	94.72	135.56	-90.00	-4,823.42	4,910.80	2,220.16	2,003.64	216.52	10.254		
13,800.00	7,870.00	7,823.00	7,823.00	95.38	135.56	-90.00	-4,823.42	4,910.80	2,125.84	1,910.02	215.82	9.850		
13,900.00	7,870.00	7,823.00	7,823.00	96.09	135.56	-90.00	-4,823.42	4,910.80	2,032.06	1,816.99	215.07	9.448		
14,000.00	7,870.00	7,823.00	7,823.00	96.84	135.56	-90.00	-4,823.42	4,910.80	1,938.90	1,724.64	214.27	9.049		
14,100.00	7,870.00	7,823.00	7,823.00	97.64	135.56	-90.00	-4,823.42	4,910.80	1,846.46	1,633.05	213.41	8.652		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,823.00	7,823.00	98.48	135.56	-90.00	-4,823.42	4,910.80	1,754.85	1,542.34	212.51	8.258		
14,300.00	7,870.00	7,823.00	7,823.00	99.37	135.56	-90.00	-4,823.42	4,910.80	1,664.20	1,452.65	211.56	7.866		
14,400.00	7,870.00	7,823.00	7,823.00	100.30	135.56	-90.00	-4,823.42	4,910.80	1,574.69	1,364.13	210.56	7.478		
14,500.00	7,870.00	7,823.00	7,823.00	101.26	135.56	-90.00	-4,823.42	4,910.80	1,486.52	1,276.97	209.55	7.094		
14,600.00	7,870.00	7,823.00	7,823.00	102.27	135.56	-90.00	-4,823.42	4,910.80	1,399.93	1,191.40	208.53	6.713		
14,700.00	7,870.00	7,823.00	7,823.00	103.31	135.56	-90.00	-4,823.42	4,910.80	1,315.25	1,107.69	207.56	6.337		
14,800.00	7,870.00	7,823.00	7,823.00	104.38	135.56	-90.00	-4,823.42	4,910.80	1,232.87	1,026.17	206.70	5.965		
14,900.00	7,870.00	7,823.00	7,823.00	105.49	135.56	-90.00	-4,823.42	4,910.80	1,153.27	947.22	206.05	5.597		
15,000.00	7,870.00	7,823.00	7,823.00	106.63	135.56	-90.00	-4,823.42	4,910.80	1,077.09	871.31	205.77	5.234		
15,100.00	7,870.00	7,823.00	7,823.00	107.80	135.56	-90.00	-4,823.42	4,910.80	1,005.09	799.01	206.07	4.877		
15,200.00	7,870.00	7,823.00	7,823.00	109.00	135.56	-90.00	-4,823.42	4,910.80	938.23	731.02	207.21	4.528		
15,300.00	7,870.00	7,823.00	7,823.00	110.22	135.56	-90.00	-4,823.42	4,910.80	877.70	668.22	209.47	4.190		
15,400.00	7,870.00	7,823.00	7,823.00	111.47	135.56	-90.00	-4,823.42	4,910.80	824.88	611.78	213.11	3.871		
15,500.00	7,870.00	7,823.00	7,823.00	112.74	135.56	-90.00	-4,823.42	4,910.80	781.35	563.16	218.19	3.581		
15,600.00	7,870.00	7,823.00	7,823.00	114.03	135.56	-90.00	-4,823.42	4,910.80	748.72	524.18	224.54	3.335		
15,700.00	7,870.00	7,823.00	7,823.00	115.34	135.56	-90.00	-4,823.42	4,910.80	728.46	496.79	231.67	3.144		
15,799.61	7,870.00	7,823.00	7,823.00	116.67	135.56	-90.00	-4,823.42	4,910.80	721.62	482.76	238.86	3.021 CC		
15,800.00	7,870.00	7,823.00	7,823.00	116.68	135.56	-90.00	-4,823.42	4,910.80	721.62	482.74	238.89	3.021 ES		
15,900.00	7,870.00	7,823.00	7,823.00	118.02	135.56	-90.00	-4,823.42	4,910.80	728.57	483.11	245.46	2.968 SF		
16,000.00	7,870.00	7,823.00	7,823.00	119.39	135.56	-90.00	-4,823.42	4,910.80	748.93	498.06	250.86	2.985		
16,100.00	7,870.00	7,823.00	7,823.00	120.77	135.56	-90.00	-4,823.42	4,910.80	781.65	526.77	254.87	3.067		
16,200.00	7,870.00	7,823.00	7,823.00	122.17	135.56	-90.00	-4,823.42	4,910.80	825.26	567.72	257.53	3.204		
16,300.00	7,870.00	7,823.00	7,823.00	123.58	135.56	-90.00	-4,823.42	4,910.80	878.14	619.07	259.06	3.390		
16,400.00	7,870.00	7,823.00	7,823.00	125.00	135.56	-90.00	-4,823.42	4,910.80	938.72	678.99	259.73	3.614		
16,500.00	7,870.00	7,823.00	7,823.00	126.43	135.56	-90.00	-4,823.42	4,910.80	1,005.62	745.84	259.79	3.871		
16,600.00	7,870.00	7,823.00	7,823.00	127.88	135.56	-90.00	-4,823.42	4,910.80	1,077.66	818.23	259.44	4.154		
16,700.00	7,870.00	7,823.00	7,823.00	129.34	135.56	-90.00	-4,823.42	4,910.80	1,153.88	895.05	258.83	4.458		
16,800.00	7,870.00	7,823.00	7,823.00	130.81	135.56	-90.00	-4,823.42	4,910.80	1,233.50	975.42	258.08	4.780		
16,900.00	7,870.00	7,823.00	7,823.00	132.28	135.56	-90.00	-4,823.42	4,910.80	1,315.90	1,058.65	257.25	5.115		
17,000.00	7,870.00	7,823.00	7,823.00	133.77	135.56	-90.00	-4,823.42	4,910.80	1,400.60	1,144.21	256.39	5.463		
17,100.00	7,870.00	7,823.00	7,823.00	135.27	135.56	-90.00	-4,823.42	4,910.80	1,487.19	1,231.66	255.53	5.820		
17,200.00	7,870.00	7,823.00	7,823.00	136.77	135.56	-90.00	-4,823.42	4,910.80	1,575.38	1,320.69	254.69	6.185		
17,300.00	7,870.00	7,823.00	7,823.00	138.28	135.56	-90.00	-4,823.42	4,910.80	1,664.90	1,411.01	253.89	6.558		
17,400.00	7,870.00	7,823.00	7,823.00	139.80	135.56	-90.00	-4,823.42	4,910.80	1,755.56	1,502.43	253.13	6.935		
17,500.00	7,870.00	7,823.00	7,823.00	141.33	135.56	-90.00	-4,823.42	4,910.80	1,847.17	1,594.77	252.40	7.318		
17,600.00	7,870.00	7,823.00	7,823.00	142.86	135.56	-90.00	-4,823.42	4,910.80	1,939.62	1,687.90	251.72	7.706		
17,700.00	7,870.00	7,823.00	7,823.00	144.40	135.56	-90.00	-4,823.42	4,910.80	2,032.78	1,781.71	251.08	8.096		
17,800.00	7,870.00	7,823.00	7,823.00	145.95	135.56	-90.00	-4,823.42	4,910.80	2,126.57	1,876.09	250.47	8.490		
17,900.00	7,870.00	7,823.00	7,823.00	147.50	135.56	-90.00	-4,823.42	4,910.80	2,220.89	1,970.99	249.91	8.887		
18,000.00	7,870.00	7,823.00	7,823.00	149.06	135.56	-90.00	-4,823.42	4,910.80	2,315.69	2,066.32	249.38	9.286		
18,100.00	7,870.00	7,823.00	7,823.00	150.63	135.56	-90.00	-4,823.42	4,910.80	2,410.92	2,162.04	248.88	9.687		
18,200.00	7,870.00	7,823.00	7,823.00	152.20	135.56	-90.00	-4,823.42	4,910.80	2,506.51	2,258.10	248.41	10.090		
18,300.00	7,870.00	7,823.00	7,823.00	153.77	135.56	-90.00	-4,823.42	4,910.80	2,602.44	2,354.46	247.97	10.495		
18,400.00	7,870.00	7,823.00	7,823.00	155.35	135.56	-90.00	-4,823.42	4,910.80	2,698.66	2,451.10	247.56	10.901		
18,500.00	7,870.00	7,823.00	7,823.00	156.93	135.56	-90.00	-4,823.42	4,910.80	2,795.14	2,547.97	247.17	11.308		
18,600.00	7,870.00	7,823.00	7,823.00	158.52	135.56	-90.00	-4,823.42	4,910.80	2,891.87	2,645.06	246.81	11.717		
18,700.00	7,870.00	7,823.00	7,823.00	160.11	135.56	-90.00	-4,823.42	4,910.80	2,988.81	2,742.34	246.47	12.127		
18,800.00	7,870.00	7,823.00	7,823.00	161.71	135.56	-90.00	-4,823.42	4,910.80	3,085.95	2,839.80	246.14	12.537		
18,900.00	7,870.00	7,823.00	7,823.00	163.31	135.56	-90.00	-4,823.42	4,910.80	3,183.26	2,937.42	245.84	12.949		
19,000.00	7,870.00	7,823.00	7,823.00	164.91	135.56	-90.00	-4,823.42	4,910.80	3,280.73	3,035.19	245.55	13.361		
19,100.00	7,870.00	7,823.00	7,823.00	166.52	135.56	-90.00	-4,823.42	4,910.80	3,378.36	3,133.08	245.28	13.774		
19,200.00	7,870.00	7,823.00	7,823.00	168.13	135.56	-90.00	-4,823.42	4,910.80	3,476.11	3,231.10	245.02	14.187		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	7,823.00	7,823.00	169.75	135.56	-90.00	-4,823.42	4,910.80	3,574.00	3,329.22	244.78	14.601	
19,383.51	7,870.00	7,823.00	7,823.00	171.10	135.56	-90.00	-4,823.42	4,910.80	3,655.82	3,411.24	244.58	14.947	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	142.91	-4,087.85	3,090.34	5,124.57					
100.00	100.00	78.00	78.00	0.13	0.61	142.91	-4,087.85	3,090.34	5,124.52	5,123.78	0.74	6,922.863		
200.00	200.00	178.00	178.00	0.49	2.14	142.91	-4,087.85	3,090.34	5,124.52	5,121.89	2.63	1,947.800		
300.00	300.00	278.00	278.00	0.85	3.88	142.91	-4,087.85	3,090.34	5,124.52	5,119.79	4.73	1,082.326		
400.00	400.00	378.00	378.00	1.21	5.63	142.91	-4,087.85	3,090.34	5,124.52	5,117.68	6.84	749.360		
500.00	500.00	478.00	478.00	1.57	7.37	142.91	-4,087.85	3,090.34	5,124.52	5,115.58	8.94	573.063		
600.00	600.00	578.00	578.00	1.93	9.12	142.91	-4,087.85	3,090.34	5,124.52	5,113.48	11.05	463.920		
700.00	699.98	677.98	677.98	2.28	10.86	79.12	-4,087.85	3,090.34	5,124.19	5,111.05	13.15	389.818		
800.00	799.84	777.84	777.84	2.64	12.61	79.19	-4,087.85	3,090.34	5,123.21	5,107.96	15.24	336.143		
900.00	899.45	877.45	877.45	3.00	14.35	79.32	-4,087.85	3,090.34	5,121.57	5,104.23	17.34	295.354		
1,000.00	998.70	976.70	976.70	3.37	16.08	79.50	-4,087.85	3,090.34	5,119.32	5,099.87	19.45	263.265		
1,100.00	1,097.47	1,075.47	1,075.47	3.76	17.80	79.73	-4,087.85	3,090.34	5,116.46	5,094.90	21.56	237.318		
1,200.00	1,195.62	1,173.62	1,173.62	4.18	19.51	80.00	-4,087.85	3,090.34	5,113.04	5,089.36	23.69	215.864		
1,300.00	1,293.06	1,271.06	1,271.06	4.63	21.22	80.32	-4,087.85	3,090.34	5,109.10	5,083.27	25.83	197.797		
1,400.00	1,389.64	1,367.64	1,367.64	5.11	22.90	80.68	-4,087.85	3,090.34	5,104.68	5,076.69	27.99	182.347		
1,500.00	1,485.27	1,463.27	1,463.27	5.63	24.57	81.09	-4,087.85	3,090.34	5,099.85	5,069.66	30.18	168.964		
1,600.00	1,579.82	1,557.82	1,557.82	6.20	26.22	81.53	-4,087.85	3,090.34	5,094.65	5,062.25	32.40	157.244		
1,700.00	1,673.17	1,651.17	1,651.17	6.83	27.85	82.02	-4,087.85	3,090.34	5,089.17	5,054.52	34.65	146.885		
1,800.00	1,765.21	1,743.21	1,743.21	7.51	29.46	82.53	-4,087.85	3,090.34	5,083.47	5,046.54	36.93	137.658		
1,900.00	1,855.84	1,833.84	1,833.84	8.24	31.04	83.08	-4,087.85	3,090.34	5,077.64	5,038.40	39.24	129.383		
2,000.00	1,944.94	1,922.94	1,922.94	9.05	32.59	83.65	-4,087.85	3,090.34	5,071.76	5,030.16	41.60	121.921		
2,100.00	2,032.39	2,010.39	2,010.39	9.91	34.12	84.24	-4,087.85	3,090.34	5,065.93	5,021.94	43.99	115.159		
2,200.00	2,118.11	2,103.89	2,103.89	10.85	35.75	84.85	-4,087.85	3,090.34	5,060.23	5,013.67	46.56	108.688		
2,300.00	2,201.97	2,179.97	2,179.97	11.85	37.08	85.48	-4,087.85	3,090.34	5,054.77	5,005.87	48.89	103.388		
2,400.00	2,283.88	2,261.88	2,261.88	12.93	38.51	86.11	-4,087.85	3,090.34	5,049.64	4,998.24	51.40	98.242		
2,429.47	2,307.63	2,285.63	2,285.63	13.26	38.92	86.30	-4,087.85	3,090.34	5,048.21	4,996.07	52.15	96.810		
2,500.00	2,364.26	2,342.26	2,342.26	14.06	39.91	86.68	-4,087.85	3,090.34	5,045.01	4,991.07	53.94	93.530		
2,600.00	2,444.56	2,422.56	2,422.56	15.22	41.31	87.23	-4,087.85	3,090.34	5,041.07	4,984.57	56.50	89.219		
2,700.00	2,524.85	2,502.85	2,502.85	16.39	42.71	87.77	-4,087.85	3,090.34	5,037.83	4,978.75	59.08	85.272		
2,800.00	2,605.14	2,583.14	2,583.14	17.57	44.12	88.32	-4,087.85	3,090.34	5,035.30	4,973.63	61.67	81.651		
2,900.00	2,685.43	2,663.43	2,663.43	18.76	45.52	88.86	-4,087.85	3,090.34	5,033.47	4,969.20	64.27	78.322		
3,000.00	2,765.73	2,743.73	2,743.73	19.96	46.92	89.40	-4,087.85	3,090.34	5,032.34	4,965.47	66.87	75.255		
3,100.00	2,846.02	2,824.02	2,824.02	21.16	48.32	89.95	-4,087.85	3,090.34	5,031.93	4,962.45	69.48	72.422		
3,109.26	2,853.46	2,831.46	2,831.46	21.27	48.45	90.00	-4,087.85	3,090.34	5,031.92	4,962.20	69.72	72.171		
3,200.00	2,926.31	2,904.31	2,904.31	22.37	49.72	90.49	-4,087.85	3,090.34	5,032.21	4,960.12	72.09	69.802		
3,300.00	3,006.60	2,984.60	2,984.60	23.59	51.12	91.04	-4,087.85	3,090.34	5,033.21	4,958.50	74.71	67.371		
3,400.00	3,086.90	3,064.90	3,064.90	24.81	52.52	91.58	-4,087.85	3,090.34	5,034.91	4,957.58	77.32	65.114		
3,500.00	3,167.19	3,145.19	3,145.19	26.03	53.93	92.13	-4,087.85	3,090.34	5,037.31	4,957.37	79.94	63.013		
3,600.00	3,247.48	3,225.48	3,225.48	27.25	55.33	92.67	-4,087.85	3,090.34	5,040.42	4,957.86	82.56	61.055		
3,700.00	3,327.77	3,305.77	3,305.77	28.48	56.73	93.22	-4,087.85	3,090.34	5,044.23	4,959.06	85.17	59.226		
3,800.00	3,408.07	3,386.07	3,386.07	29.71	58.13	93.76	-4,087.85	3,090.34	5,048.74	4,960.96	87.78	57.515		
3,900.00	3,488.36	3,466.36	3,466.36	30.94	59.53	94.30	-4,087.85	3,090.34	5,053.95	4,963.56	90.39	55.913		
4,000.00	3,568.65	3,546.65	3,546.65	32.17	60.93	94.84	-4,087.85	3,090.34	5,059.86	4,966.86	92.99	54.411		
4,100.00	3,648.95	3,626.95	3,626.95	33.41	62.33	95.38	-4,087.85	3,090.34	5,066.46	4,970.86	95.59	53.000		
4,200.00	3,729.24	3,707.24	3,707.24	34.64	63.73	95.92	-4,087.85	3,090.34	5,073.75	4,975.56	98.19	51.673		
4,300.00	3,809.53	3,787.53	3,787.53	35.88	65.14	96.46	-4,087.85	3,090.34	5,081.73	4,980.96	100.78	50.425		
4,400.00	3,889.82	3,867.82	3,867.82	37.12	66.54	97.00	-4,087.85	3,090.34	5,090.40	4,987.04	103.36	49.248		
4,500.00	3,970.12	3,948.12	3,948.12	38.36	67.94	97.54	-4,087.85	3,090.34	5,099.75	4,993.81	105.94	48.138		
4,600.00	4,050.41	4,028.41	4,028.41	39.60	69.34	98.07	-4,087.85	3,090.34	5,109.78	5,001.27	108.51	47.090		
4,700.00	4,130.70	4,108.70	4,108.70	40.84	70.74	98.60	-4,087.85	3,090.34	5,120.48	5,009.41	111.07	46.100		
4,800.00	4,210.99	4,188.99	4,188.99	42.08	72.14	99.14	-4,087.85	3,090.34	5,131.85	5,018.22	113.63	45.163		
4,900.00	4,291.29	4,269.29	4,269.29	43.32	73.54	99.67	-4,087.85	3,090.34	5,143.89	5,027.71	116.18	44.276		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,371.58	4,349.58	4,349.58	44.57	74.95	100.19	-4,087.85	3,090.34	5,156.59	5,037.87	118.72	43.436		
5,100.00	4,451.87	4,429.87	4,429.87	45.81	76.35	100.72	-4,087.85	3,090.34	5,169.95	5,048.70	121.25	42.639		
5,200.00	4,532.16	4,510.16	4,510.16	47.05	77.75	101.25	-4,087.85	3,090.34	5,183.95	5,060.18	123.77	41.883		
5,300.00	4,612.46	4,609.54	4,609.54	48.30	79.48	101.77	-4,087.85	3,090.34	5,198.60	5,071.99	126.62	41.058		
5,400.00	4,692.75	4,670.75	4,670.75	49.54	80.55	102.29	-4,087.85	3,090.34	5,213.90	5,085.11	128.79	40.485		
5,500.00	4,773.04	4,751.04	4,751.04	50.79	81.95	102.81	-4,087.85	3,090.34	5,229.82	5,098.54	131.28	39.837		
5,600.00	4,853.34	4,831.34	4,831.34	52.03	83.35	103.33	-4,087.85	3,090.34	5,246.38	5,112.61	133.76	39.221		
5,700.00	4,933.63	4,911.63	4,911.63	53.28	84.76	103.84	-4,087.85	3,090.34	5,263.56	5,127.32	136.24	38.635		
5,800.00	5,013.92	5,008.08	4,991.92	54.53	86.44	104.36	-4,087.85	3,090.34	5,281.35	5,142.37	138.98	38.000		
5,900.00	5,094.21	5,072.21	5,072.21	55.77	87.56	104.87	-4,087.85	3,090.34	5,299.76	5,158.61	141.16	37.546		
6,000.00	5,174.51	5,152.51	5,152.51	57.02	88.96	105.37	-4,087.85	3,090.34	5,318.77	5,175.17	143.60	37.039		
6,100.00	5,254.80	5,232.80	5,232.80	58.27	90.36	105.88	-4,087.85	3,090.34	5,338.38	5,192.35	146.03	36.557		
6,200.00	5,335.09	5,313.09	5,313.09	59.52	91.76	106.38	-4,087.85	3,090.34	5,358.58	5,210.13	148.45	36.097		
6,300.00	5,415.38	5,406.62	5,393.38	60.76	93.39	106.88	-4,087.85	3,090.34	5,379.37	5,228.27	151.09	35.603		
6,400.00	5,495.68	5,473.68	5,473.68	62.01	94.57	107.38	-4,087.85	3,090.34	5,400.73	5,247.47	153.26	35.239		
6,500.00	5,575.97	5,553.97	5,553.97	63.26	95.97	107.87	-4,087.85	3,090.34	5,422.66	5,267.01	155.65	34.839		
6,600.00	5,656.26	5,634.26	5,634.26	64.51	97.37	108.37	-4,087.85	3,090.34	5,445.16	5,287.14	158.02	34.458		
6,700.00	5,736.55	5,714.55	5,714.55	65.76	98.77	108.86	-4,087.85	3,090.34	5,468.22	5,307.83	160.39	34.093		
6,800.00	5,816.85	5,805.15	5,794.85	67.01	100.35	109.34	-4,087.85	3,090.34	5,491.82	5,328.90	162.92	33.708		
6,900.00	5,897.14	5,875.14	5,875.14	68.26	101.57	109.83	-4,087.85	3,090.34	5,515.97	5,350.88	165.09	33.412		
7,000.00	5,977.43	5,955.43	5,955.43	69.50	102.97	110.31	-4,087.85	3,090.34	5,540.65	5,373.23	167.42	33.094		
7,100.00	6,057.72	6,035.72	6,035.72	70.75	104.37	110.79	-4,087.85	3,090.34	5,565.87	5,396.13	169.74	32.790		
7,200.00	6,138.02	6,116.02	6,116.02	72.00	105.78	111.26	-4,087.85	3,090.34	5,591.60	5,419.55	172.05	32.500		
7,300.00	6,218.31	6,203.69	6,196.31	73.25	107.31	111.73	-4,087.85	3,090.34	5,617.85	5,443.38	174.48	32.198		
7,400.00	6,298.60	6,276.60	6,276.60	74.50	108.58	112.20	-4,087.85	3,090.34	5,644.61	5,467.97	176.64	31.956		
7,500.00	6,378.90	6,356.90	6,356.90	75.75	109.98	112.67	-4,087.85	3,090.34	5,671.87	5,492.96	178.91	31.702		
7,600.00	6,459.19	6,437.19	6,437.19	77.00	111.38	113.13	-4,087.85	3,090.34	5,699.62	5,518.44	181.18	31.459		
7,700.00	6,539.48	6,517.48	6,517.48	78.25	112.78	113.59	-4,087.85	3,090.34	5,727.86	5,544.42	183.43	31.226		
7,800.00	6,619.77	6,602.23	6,597.77	79.50	114.26	114.04	-4,087.85	3,090.34	5,756.57	5,570.82	185.76	30.990		
7,900.00	6,700.07	6,678.07	6,678.07	80.75	115.59	114.50	-4,087.85	3,090.34	5,785.76	5,597.85	187.91	30.790		
8,000.00	6,780.36	6,758.36	6,758.36	82.00	116.99	114.95	-4,087.85	3,090.34	5,815.41	5,625.28	190.13	30.586		
8,100.00	6,860.65	6,838.65	6,838.65	83.25	118.39	115.39	-4,087.85	3,090.34	5,845.52	5,653.17	192.35	30.391		
8,200.00	6,940.94	6,918.94	6,918.94	84.50	119.79	115.84	-4,087.85	3,090.34	5,876.08	5,681.53	194.55	30.204		
8,300.00	7,021.24	7,000.76	6,999.24	85.76	121.22	116.28	-4,087.85	3,090.34	5,907.08	5,710.31	196.77	30.021		
8,400.00	7,101.53	7,079.53	7,079.53	87.01	122.59	116.71	-4,087.85	3,090.34	5,938.52	5,739.60	198.92	29.853		
8,500.00	7,181.82	7,159.82	7,159.82	88.26	123.99	117.15	-4,087.85	3,090.34	5,970.39	5,769.29	201.09	29.690		
8,605.60	7,266.61	7,244.61	7,244.61	89.58	125.47	117.60	-4,087.85	3,090.34	6,004.50	5,801.12	203.38	29.524		
8,650.00	7,302.60	7,280.60	7,280.60	90.13	126.10	118.83	-4,087.85	3,090.34	6,017.35	5,813.01	204.34	29.447		
8,700.00	7,343.78	7,321.78	7,321.78	90.72	126.82	104.85	-4,087.85	3,090.34	6,027.96	5,822.51	205.46	29.340		
8,750.00	7,385.32	7,363.32	7,363.32	91.28	127.55	97.57	-4,087.85	3,090.34	6,034.42	5,827.84	206.58	29.211		
8,800.00	7,426.92	7,404.92	7,404.92	91.81	128.27	90.27	-4,087.85	3,090.34	6,036.68	5,828.99	207.70	29.064		
8,850.00	7,468.27	7,446.27	7,446.27	92.29	128.99	83.27	-4,087.85	3,090.34	6,034.74	5,825.93	208.81	28.900		
8,900.00	7,509.04	7,487.04	7,487.04	92.72	129.70	76.83	-4,087.85	3,090.34	6,028.61	5,818.71	209.90	28.721		
8,950.00	7,548.93	7,526.93	7,526.93	93.10	130.40	71.10	-4,087.85	3,090.34	6,018.35	5,807.39	210.96	28.528		
9,000.00	7,587.63	7,565.63	7,565.63	93.43	131.08	66.17	-4,087.85	3,090.34	6,004.02	5,792.05	211.98	28.324		
9,050.00	7,624.85	7,602.85	7,602.85	93.71	131.73	62.04	-4,087.85	3,090.34	5,985.75	5,772.80	212.95	28.109		
9,100.00	7,660.30	7,638.30	7,638.30	93.93	132.34	58.68	-4,087.85	3,090.34	5,963.65	5,749.78	213.86	27.885		
9,150.00	7,693.72	7,671.72	7,671.72	94.10	132.93	56.05	-4,087.85	3,090.34	5,937.89	5,723.17	214.72	27.654		
9,200.00	7,724.85	7,702.85	7,702.85	94.23	133.47	54.09	-4,087.85	3,090.34	5,908.66	5,693.15	215.51	27.417		
9,250.00	7,753.45	7,731.45	7,731.45	94.30	133.97	52.78	-4,087.85	3,090.34	5,876.17	5,659.94	216.23	27.176		
9,300.00	7,779.31	7,757.31	7,757.31	94.34	134.42	52.12	-4,087.85	3,090.34	5,840.65	5,623.78	216.87	26.932		
9,350.00	7,802.23	7,780.23	7,780.23	94.33	134.82	52.15	-4,087.85	3,090.34	5,802.35	5,584.92	217.44	26.685		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,800.03	7,800.03	94.28	135.17	52.98	-4,087.85	3,090.34	5,761.56	5,543.64	217.92	26.438		
9,450.00	7,838.57	7,816.57	7,816.57	94.20	135.46	54.79	-4,087.85	3,090.34	5,718.56	5,500.23	218.33	26.192		
9,500.00	7,851.72	7,829.72	7,829.72	94.10	135.69	57.96	-4,087.85	3,090.34	5,673.67	5,455.01	218.66	25.947		
9,550.00	7,861.37	7,839.37	7,839.37	93.96	135.85	63.19	-4,087.85	3,090.34	5,627.21	5,408.30	218.91	25.705		
9,600.00	7,867.46	7,845.46	7,845.46	93.81	135.96	71.83	-4,087.85	3,090.34	5,579.52	5,360.43	219.08	25.468		
9,650.00	7,869.94	7,847.94	7,847.94	93.64	136.00	86.42	-4,087.85	3,090.34	5,530.94	5,311.76	219.18	25.235		
9,659.14	7,870.00	7,848.00	7,848.00	93.60	136.00	90.00	-4,087.85	3,090.34	5,521.99	5,302.80	219.19	25.193		
9,700.00	7,870.00	7,848.00	7,848.00	93.46	136.00	90.00	-4,087.85	3,090.34	5,481.95	5,262.73	219.22	25.006		
9,800.00	7,870.00	7,848.00	7,848.00	93.11	136.00	90.00	-4,087.85	3,090.34	5,384.03	5,164.72	219.31	24.550		
9,900.00	7,870.00	7,848.00	7,848.00	92.77	136.00	90.00	-4,087.85	3,090.34	5,286.18	5,066.78	219.40	24.094		
10,000.00	7,870.00	7,848.00	7,848.00	92.46	136.00	90.00	-4,087.85	3,090.34	5,188.42	4,968.92	219.50	23.638		
10,100.00	7,870.00	7,848.00	7,848.00	92.16	136.00	90.00	-4,087.85	3,090.34	5,090.74	4,871.15	219.60	23.182		
10,200.00	7,870.00	7,848.00	7,848.00	91.87	136.00	90.00	-4,087.85	3,090.34	4,993.16	4,773.46	219.70	22.727		
10,300.00	7,870.00	7,848.00	7,848.00	91.60	136.00	90.00	-4,087.85	3,090.34	4,895.67	4,675.86	219.81	22.272		
10,400.00	7,870.00	7,848.00	7,848.00	91.34	136.00	90.00	-4,087.85	3,090.34	4,798.29	4,578.36	219.92	21.818		
10,500.00	7,870.00	7,848.00	7,848.00	91.11	136.00	90.00	-4,087.85	3,090.34	4,701.01	4,480.97	220.04	21.364		
10,600.00	7,870.00	7,848.00	7,848.00	90.88	136.00	90.00	-4,087.85	3,090.34	4,603.85	4,383.69	220.17	20.911		
10,700.00	7,870.00	7,848.00	7,848.00	90.67	136.00	90.00	-4,087.85	3,090.34	4,506.82	4,286.53	220.29	20.458		
10,800.00	7,870.00	7,848.00	7,848.00	90.48	136.00	90.00	-4,087.85	3,090.34	4,409.92	4,189.49	220.43	20.006		
10,900.00	7,870.00	7,848.00	7,848.00	90.31	136.00	90.00	-4,087.85	3,090.34	4,313.16	4,092.59	220.57	19.554		
11,000.00	7,870.00	7,848.00	7,848.00	90.15	136.00	90.00	-4,087.85	3,090.34	4,216.55	3,995.83	220.72	19.104		
11,100.00	7,870.00	7,848.00	7,848.00	90.00	136.00	90.00	-4,087.85	3,090.34	4,120.11	3,899.23	220.88	18.653		
11,200.00	7,870.00	7,848.00	7,848.00	89.88	136.00	90.00	-4,087.85	3,090.34	4,023.84	3,802.80	221.04	18.204		
11,300.00	7,870.00	7,848.00	7,848.00	89.77	136.00	90.00	-4,087.85	3,090.34	3,927.75	3,706.54	221.21	17.756		
11,400.00	7,870.00	7,848.00	7,848.00	89.68	136.00	90.00	-4,087.85	3,090.34	3,831.86	3,610.47	221.39	17.308		
11,500.00	7,870.00	7,848.00	7,848.00	89.60	136.00	90.00	-4,087.85	3,090.34	3,736.19	3,514.61	221.58	16.862		
11,600.00	7,870.00	7,848.00	7,848.00	89.55	136.00	90.00	-4,087.85	3,090.34	3,640.76	3,418.98	221.78	16.416		
11,700.00	7,870.00	7,848.00	7,848.00	89.52	136.00	90.00	-4,087.85	3,090.34	3,545.57	3,323.58	221.98	15.972		
11,800.00	7,870.00	7,848.00	7,848.00	89.50	136.00	90.00	-4,087.85	3,090.34	3,450.66	3,228.45	222.20	15.529		
11,900.00	7,870.00	7,848.00	7,848.00	89.51	136.00	90.00	-4,087.85	3,090.34	3,356.04	3,133.60	222.43	15.088		
12,000.00	7,870.00	7,848.00	7,848.00	89.54	136.00	90.00	-4,087.85	3,090.34	3,261.74	3,039.06	222.68	14.648		
12,100.00	7,870.00	7,848.00	7,848.00	89.59	136.00	90.00	-4,087.85	3,090.34	3,167.79	2,944.86	222.93	14.210		
12,200.00	7,870.00	7,848.00	7,848.00	89.66	136.00	90.00	-4,087.85	3,090.34	3,074.23	2,851.02	223.20	13.773		
12,300.00	7,870.00	7,848.00	7,848.00	89.77	136.00	90.00	-4,087.85	3,090.34	2,981.08	2,757.59	223.49	13.339		
12,400.00	7,870.00	7,848.00	7,848.00	89.89	136.00	90.00	-4,087.85	3,090.34	2,888.39	2,664.60	223.79	12.907		
12,500.00	7,870.00	7,848.00	7,848.00	90.05	136.00	90.00	-4,087.85	3,090.34	2,796.20	2,572.09	224.11	12.477		
12,600.00	7,870.00	7,848.00	7,848.00	90.24	136.00	90.00	-4,087.85	3,090.34	2,704.57	2,480.13	224.45	12.050		
12,700.00	7,870.00	7,848.00	7,848.00	90.46	136.00	90.00	-4,087.85	3,090.34	2,613.56	2,388.76	224.80	11.626		
12,800.00	7,870.00	7,848.00	7,848.00	90.71	136.00	90.00	-4,087.85	3,090.34	2,523.22	2,298.04	225.18	11.205		
12,900.00	7,870.00	7,848.00	7,848.00	90.99	136.00	90.00	-4,087.85	3,090.34	2,433.64	2,208.06	225.58	10.789		
13,000.00	7,870.00	7,848.00	7,848.00	91.32	136.00	90.00	-4,087.85	3,090.34	2,344.90	2,118.91	226.00	10.376		
13,100.00	7,870.00	7,848.00	7,848.00	91.68	136.00	90.00	-4,087.85	3,090.34	2,257.11	2,030.67	226.44	9.968		
13,200.00	7,870.00	7,848.00	7,848.00	92.08	136.00	90.00	-4,087.85	3,090.34	2,170.37	1,943.46	226.90	9.565		
13,300.00	7,870.00	7,848.00	7,848.00	92.52	136.00	90.00	-4,087.85	3,090.34	2,084.82	1,857.42	227.39	9.168		
13,400.00	7,870.00	7,848.00	7,848.00	93.00	136.00	90.00	-4,087.85	3,090.34	2,000.60	1,772.70	227.90	8.778		
13,500.00	7,870.00	7,848.00	7,848.00	93.53	136.00	90.00	-4,087.85	3,090.34	1,917.91	1,689.47	228.44	8.396		
13,600.00	7,870.00	7,848.00	7,848.00	94.10	136.00	90.00	-4,087.85	3,090.34	1,836.94	1,607.95	228.99	8.022		
13,700.00	7,870.00	7,848.00	7,848.00	94.72	136.00	90.00	-4,087.85	3,090.34	1,757.93	1,528.37	229.55	7.658		
13,800.00	7,870.00	7,848.00	7,848.00	95.38	136.00	90.00	-4,087.85	3,090.34	1,681.15	1,451.03	230.12	7.305		
13,900.00	7,870.00	7,848.00	7,848.00	96.09	136.00	90.00	-4,087.85	3,090.34	1,606.93	1,376.24	230.69	6.966		
14,000.00	7,870.00	7,848.00	7,848.00	96.84	136.00	90.00	-4,087.85	3,090.34	1,535.64	1,304.40	231.24	6.641		
14,100.00	7,870.00	7,848.00	7,848.00	97.64	136.00	90.00	-4,087.85	3,090.34	1,467.70	1,235.95	231.75	6.333		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,848.00	7,848.00	98.48	136.00	90.00	-4,087.85	3,090.34	1,403.61	1,171.40	232.20	6.045		
14,300.00	7,870.00	7,848.00	7,848.00	99.37	136.00	90.00	-4,087.85	3,090.34	1,343.90	1,111.34	232.56	5.779		
14,400.00	7,870.00	7,848.00	7,848.00	100.30	136.00	90.00	-4,087.85	3,090.34	1,289.20	1,056.42	232.79	5.538		
14,500.00	7,870.00	7,848.00	7,848.00	101.26	136.00	90.00	-4,087.85	3,090.34	1,240.16	1,007.33	232.83	5.326		
14,600.00	7,870.00	7,848.00	7,848.00	102.27	136.00	90.00	-4,087.85	3,090.34	1,197.48	964.83	232.66	5.147		
14,700.00	7,870.00	7,848.00	7,848.00	103.31	136.00	90.00	-4,087.85	3,090.34	1,161.86	929.65	232.21	5.004		
14,800.00	7,870.00	7,848.00	7,848.00	104.38	136.00	90.00	-4,087.85	3,090.34	1,133.97	902.51	231.46	4.899		
14,900.00	7,870.00	7,848.00	7,848.00	105.49	136.00	90.00	-4,087.85	3,090.34	1,114.38	884.00	230.39	4.837		
15,000.00	7,870.00	7,848.00	7,848.00	106.63	136.00	90.00	-4,087.85	3,090.34	1,103.55	874.55	229.00	4.819 SF		
15,070.19	7,870.00	7,848.00	7,848.00	107.45	136.00	90.00	-4,087.85	3,090.34	1,101.31	873.45	227.86	4.833 CC, ES		
15,100.00	7,870.00	7,848.00	7,848.00	107.80	136.00	90.00	-4,087.85	3,090.34	1,101.71	874.38	227.34	4.846		
15,200.00	7,870.00	7,848.00	7,848.00	109.00	136.00	90.00	-4,087.85	3,090.34	1,108.94	883.47	225.46	4.918		
15,300.00	7,870.00	7,848.00	7,848.00	110.22	136.00	90.00	-4,087.85	3,090.34	1,125.03	901.56	223.47	5.034		
15,400.00	7,870.00	7,848.00	7,848.00	111.47	136.00	90.00	-4,087.85	3,090.34	1,149.64	928.19	221.44	5.192		
15,500.00	7,870.00	7,848.00	7,848.00	112.74	136.00	90.00	-4,087.85	3,090.34	1,182.21	962.74	219.47	5.387		
15,600.00	7,870.00	7,848.00	7,848.00	114.03	136.00	90.00	-4,087.85	3,090.34	1,222.12	1,004.49	217.63	5.616		
15,700.00	7,870.00	7,848.00	7,848.00	115.34	136.00	90.00	-4,087.85	3,090.34	1,268.68	1,052.72	215.96	5.875		
15,800.00	7,870.00	7,848.00	7,848.00	116.68	136.00	90.00	-4,087.85	3,090.34	1,321.18	1,106.68	214.49	6.159		
15,900.00	7,870.00	7,848.00	7,848.00	118.02	136.00	90.00	-4,087.85	3,090.34	1,378.94	1,165.70	213.24	6.467		
16,000.00	7,870.00	7,848.00	7,848.00	119.39	136.00	90.00	-4,087.85	3,090.34	1,441.33	1,229.15	212.18	6.793		
16,100.00	7,870.00	7,848.00	7,848.00	120.77	136.00	90.00	-4,087.85	3,090.34	1,507.78	1,296.46	211.32	7.135		
16,200.00	7,870.00	7,848.00	7,848.00	122.17	136.00	90.00	-4,087.85	3,090.34	1,577.77	1,367.15	210.62	7.491		
16,300.00	7,870.00	7,848.00	7,848.00	123.58	136.00	90.00	-4,087.85	3,090.34	1,650.85	1,440.79	210.07	7.859		
16,400.00	7,870.00	7,848.00	7,848.00	125.00	136.00	90.00	-4,087.85	3,090.34	1,726.64	1,517.00	209.64	8.236		
16,500.00	7,870.00	7,848.00	7,848.00	126.43	136.00	90.00	-4,087.85	3,090.34	1,804.78	1,595.46	209.32	8.622		
16,600.00	7,870.00	7,848.00	7,848.00	127.88	136.00	90.00	-4,087.85	3,090.34	1,885.00	1,675.91	209.09	9.015		
16,700.00	7,870.00	7,848.00	7,848.00	129.34	136.00	90.00	-4,087.85	3,090.34	1,967.02	1,758.10	208.92	9.415		
16,800.00	7,870.00	7,848.00	7,848.00	130.81	136.00	90.00	-4,087.85	3,090.34	2,050.64	1,841.82	208.82	9.820		
16,900.00	7,870.00	7,848.00	7,848.00	132.28	136.00	90.00	-4,087.85	3,090.34	2,135.67	1,926.91	208.76	10.230		
17,000.00	7,870.00	7,848.00	7,848.00	133.77	136.00	90.00	-4,087.85	3,090.34	2,221.95	2,013.20	208.74	10.644		
17,100.00	7,870.00	7,848.00	7,848.00	135.27	136.00	90.00	-4,087.85	3,090.34	2,309.33	2,100.58	208.76	11.062		
17,200.00	7,870.00	7,848.00	7,848.00	136.77	136.00	90.00	-4,087.85	3,090.34	2,397.70	2,188.91	208.79	11.484		
17,300.00	7,870.00	7,848.00	7,848.00	138.28	136.00	90.00	-4,087.85	3,090.34	2,486.95	2,278.10	208.85	11.908		
17,400.00	7,870.00	7,848.00	7,848.00	139.80	136.00	90.00	-4,087.85	3,090.34	2,577.00	2,368.07	208.92	12.335		
17,500.00	7,870.00	7,848.00	7,848.00	141.33	136.00	90.00	-4,087.85	3,090.34	2,667.75	2,458.74	209.01	12.764		
17,600.00	7,870.00	7,848.00	7,848.00	142.86	136.00	90.00	-4,087.85	3,090.34	2,759.14	2,550.04	209.10	13.195		
17,700.00	7,870.00	7,848.00	7,848.00	144.40	136.00	90.00	-4,087.85	3,090.34	2,851.10	2,641.90	209.20	13.629		
17,800.00	7,870.00	7,848.00	7,848.00	145.95	136.00	90.00	-4,087.85	3,090.34	2,943.60	2,734.29	209.31	14.064		
17,900.00	7,870.00	7,848.00	7,848.00	147.50	136.00	90.00	-4,087.85	3,090.34	3,036.56	2,827.15	209.42	14.500		
18,000.00	7,870.00	7,848.00	7,848.00	149.06	136.00	90.00	-4,087.85	3,090.34	3,129.96	2,920.44	209.53	14.938		
18,100.00	7,870.00	7,848.00	7,848.00	150.63	136.00	90.00	-4,087.85	3,090.34	3,223.76	3,014.12	209.64	15.377		
18,200.00	7,870.00	7,848.00	7,848.00	152.20	136.00	90.00	-4,087.85	3,090.34	3,317.92	3,108.16	209.76	15.818		
18,300.00	7,870.00	7,848.00	7,848.00	153.77	136.00	90.00	-4,087.85	3,090.34	3,412.41	3,202.54	209.87	16.259		
18,400.00	7,870.00	7,848.00	7,848.00	155.35	136.00	90.00	-4,087.85	3,090.34	3,507.21	3,297.22	209.99	16.702		
18,500.00	7,870.00	7,848.00	7,848.00	156.93	136.00	90.00	-4,087.85	3,090.34	3,602.29	3,392.18	210.10	17.145		
18,600.00	7,870.00	7,848.00	7,848.00	158.52	136.00	90.00	-4,087.85	3,090.34	3,697.63	3,487.41	210.22	17.589		
18,700.00	7,870.00	7,848.00	7,848.00	160.11	136.00	90.00	-4,087.85	3,090.34	3,793.21	3,582.87	210.33	18.034		
18,800.00	7,870.00	7,848.00	7,848.00	161.71	136.00	90.00	-4,087.85	3,090.34	3,889.01	3,678.56	210.45	18.480		
18,900.00	7,870.00	7,848.00	7,848.00	163.31	136.00	90.00	-4,087.85	3,090.34	3,985.01	3,774.46	210.56	18.926		
19,000.00	7,870.00	7,848.00	7,848.00	164.91	136.00	90.00	-4,087.85	3,090.34	4,081.21	3,870.54	210.67	19.373		
19,100.00	7,870.00	7,848.00	7,848.00	166.52	136.00	90.00	-4,087.85	3,090.34	4,177.59	3,966.81	210.78	19.820		
19,200.00	7,870.00	7,848.00	7,848.00	168.13	136.00	90.00	-4,087.85	3,090.34	4,274.13	4,063.25	210.88	20.268		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,848.00	7,848.00	169.75	136.00	90.00	-4,087.85	3,090.34	4,370.83	4,159.84	210.99	20.716	
19,383.51	7,870.00	7,848.00	7,848.00	171.10	136.00	90.00	-4,087.85	3,090.34	4,451.70	4,240.62	211.08	21.090	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	145.73	-7,866.23	5,359.55	9,518.55					
100.00	100.00	75.00	75.00	0.13	0.58	145.73	-7,866.23	5,359.55	9,518.52	9,517.81	0.71	N/A		
200.00	200.00	175.00	175.00	0.49	2.08	145.73	-7,866.23	5,359.55	9,518.52	9,515.95	2.57	3,703.933		
300.00	300.00	275.00	275.00	0.85	3.82	145.73	-7,866.23	5,359.55	9,518.52	9,513.85	4.67	2,036.639		
400.00	400.00	375.00	375.00	1.21	5.57	145.73	-7,866.23	5,359.55	9,518.52	9,511.74	6.78	1,404.441		
500.00	500.00	475.00	475.00	1.57	7.31	145.73	-7,866.23	5,359.55	9,518.52	9,509.64	8.88	1,071.755		
600.00	600.00	575.00	575.00	1.93	9.06	145.73	-7,866.23	5,359.55	9,518.52	9,507.54	10.99	866.498		
700.00	699.98	674.98	674.98	2.28	10.80	81.93	-7,866.23	5,359.55	9,518.28	9,505.19	13.08	727.472		
800.00	799.84	774.84	774.84	2.64	12.55	81.97	-7,866.23	5,359.55	9,517.54	9,502.36	15.18	626.972		
900.00	899.45	874.45	874.45	3.00	14.28	82.05	-7,866.23	5,359.55	9,516.33	9,499.05	17.28	550.722		
1,000.00	998.70	973.70	973.70	3.37	16.02	82.15	-7,866.23	5,359.55	9,514.64	9,495.25	19.39	490.821		
1,100.00	1,097.47	1,072.47	1,072.47	3.76	17.74	82.29	-7,866.23	5,359.55	9,512.50	9,491.00	21.50	442.445		
1,200.00	1,195.62	1,170.62	1,170.62	4.18	19.45	82.45	-7,866.23	5,359.55	9,509.92	9,486.29	23.63	402.492		
1,300.00	1,293.06	1,268.06	1,268.06	4.63	21.15	82.64	-7,866.23	5,359.55	9,506.92	9,481.15	25.77	368.881		
1,400.00	1,389.64	1,364.64	1,364.64	5.11	22.84	82.86	-7,866.23	5,359.55	9,503.54	9,475.60	27.94	340.165		
1,500.00	1,485.27	1,460.27	1,460.27	5.63	24.51	83.10	-7,866.23	5,359.55	9,499.81	9,469.68	30.13	315.313		
1,600.00	1,579.82	1,554.82	1,554.82	6.20	26.16	83.37	-7,866.23	5,359.55	9,495.75	9,463.41	32.35	293.566		
1,700.00	1,673.17	1,648.17	1,648.17	6.83	27.79	83.65	-7,866.23	5,359.55	9,491.42	9,456.82	34.60	274.358		
1,800.00	1,765.21	1,740.21	1,740.21	7.51	29.40	83.96	-7,866.23	5,359.55	9,486.84	9,449.97	36.88	257.257		
1,900.00	1,855.84	1,830.84	1,830.84	8.24	30.98	84.29	-7,866.23	5,359.55	9,482.07	9,442.88	39.19	241.928		
2,000.00	1,944.94	1,919.94	1,919.94	9.05	32.53	84.63	-7,866.23	5,359.55	9,477.16	9,435.61	41.55	228.106		
2,100.00	2,032.39	2,007.39	2,007.39	9.91	34.06	84.98	-7,866.23	5,359.55	9,472.15	9,428.21	43.94	215.579		
2,200.00	2,118.11	2,106.89	2,093.11	10.85	35.79	85.35	-7,866.23	5,359.55	9,467.09	9,420.48	46.61	203.123		
2,300.00	2,201.97	2,176.97	2,176.97	11.85	37.02	85.73	-7,866.23	5,359.55	9,462.05	9,413.21	48.83	193.760		
2,400.00	2,283.88	2,258.88	2,258.88	12.93	38.45	86.11	-7,866.23	5,359.55	9,457.07	9,405.73	51.34	184.210		
2,429.47	2,307.63	2,282.63	2,282.63	13.26	38.86	86.22	-7,866.23	5,359.55	9,455.62	9,403.54	52.08	181.549		
2,500.00	2,364.26	2,339.26	2,339.26	14.06	39.85	86.43	-7,866.23	5,359.55	9,452.27	9,398.40	53.87	175.449		
2,600.00	2,444.56	2,419.56	2,419.56	15.22	41.25	86.72	-7,866.23	5,359.55	9,447.84	9,391.41	56.43	167.418		
2,700.00	2,524.85	2,500.15	2,499.85	16.39	42.66	87.01	-7,866.23	5,359.55	9,443.78	9,384.77	59.01	160.033		
2,800.00	2,605.14	2,580.14	2,580.14	17.57	44.05	87.30	-7,866.23	5,359.55	9,440.10	9,378.51	61.59	153.270		
2,900.00	2,685.43	2,660.43	2,660.43	18.76	45.46	87.59	-7,866.23	5,359.55	9,436.79	9,372.60	64.19	147.021		
3,000.00	2,765.73	2,740.73	2,740.73	19.96	46.86	87.88	-7,866.23	5,359.55	9,433.85	9,367.06	66.79	141.247		
3,100.00	2,846.02	2,821.02	2,821.02	21.16	48.26	88.17	-7,866.23	5,359.55	9,431.30	9,361.90	69.40	135.898		
3,200.00	2,926.31	2,901.31	2,901.31	22.37	49.66	88.46	-7,866.23	5,359.55	9,429.11	9,357.10	72.02	130.933		
3,300.00	3,006.60	2,981.60	2,981.60	23.59	51.06	88.75	-7,866.23	5,359.55	9,427.31	9,352.67	74.63	126.313		
3,400.00	3,086.90	3,061.90	3,061.90	24.81	52.46	89.04	-7,866.23	5,359.55	9,425.88	9,348.62	77.26	122.005		
3,500.00	3,167.19	3,142.19	3,142.19	26.03	53.86	89.33	-7,866.23	5,359.55	9,424.83	9,344.94	79.88	117.981		
3,600.00	3,247.48	3,222.48	3,222.48	27.25	55.27	89.62	-7,866.23	5,359.55	9,424.15	9,341.64	82.51	114.214		
3,700.00	3,327.77	3,302.77	3,302.77	28.48	56.67	89.92	-7,866.23	5,359.55	9,423.86	9,338.71	85.14	110.681		
3,729.03	3,351.09	3,326.09	3,326.09	28.84	57.07	90.00	-7,866.23	5,359.55	9,423.84	9,337.93	85.91	109.697		
3,800.00	3,408.07	3,383.07	3,383.07	29.71	58.07	90.21	-7,866.23	5,359.55	9,423.93	9,336.16	87.78	107.363		
3,900.00	3,488.36	3,463.36	3,463.36	30.94	59.47	90.50	-7,866.23	5,359.55	9,424.39	9,333.98	90.41	104.241		
4,000.00	3,568.65	3,543.65	3,543.65	32.17	60.87	90.79	-7,866.23	5,359.55	9,425.22	9,332.18	93.04	101.299		
4,100.00	3,648.95	3,623.95	3,623.95	33.41	62.27	91.08	-7,866.23	5,359.55	9,426.43	9,330.76	95.68	98.523		
4,200.00	3,729.24	3,704.24	3,704.24	34.64	63.67	91.37	-7,866.23	5,359.55	9,428.02	9,329.71	98.31	95.899		
4,300.00	3,809.53	3,784.53	3,784.53	35.88	65.08	91.66	-7,866.23	5,359.55	9,429.98	9,329.04	100.95	93.416		
4,400.00	3,889.82	3,864.82	3,864.82	37.12	66.48	91.95	-7,866.23	5,359.55	9,432.32	9,328.74	103.58	91.063		
4,500.00	3,970.12	3,945.12	3,945.12	38.36	67.88	92.24	-7,866.23	5,359.55	9,435.04	9,328.83	106.21	88.831		
4,600.00	4,050.41	4,025.41	4,025.41	39.60	69.28	92.53	-7,866.23	5,359.55	9,438.13	9,329.28	108.84	86.712		
4,700.00	4,130.70	4,105.70	4,105.70	40.84	70.68	92.82	-7,866.23	5,359.55	9,441.60	9,330.12	111.48	84.696		
4,800.00	4,210.99	4,185.99	4,185.99	42.08	72.08	93.11	-7,866.23	5,359.55	9,445.44	9,331.33	114.11	82.778		
4,900.00	4,291.29	4,266.29	4,266.29	43.32	73.48	93.40	-7,866.23	5,359.55	9,449.65	9,332.92	116.73	80.950		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,346.58	4,346.58	44.57	74.88	93.69	-7,866.23	5,359.55	9,454.24	9,334.88	119.36	79.207		
5,100.00	4,451.87	4,426.87	4,426.87	45.81	76.29	93.98	-7,866.23	5,359.55	9,459.21	9,337.22	121.99	77.544		
5,200.00	4,532.16	4,507.16	4,507.16	47.05	77.69	94.27	-7,866.23	5,359.55	9,464.54	9,339.93	124.61	75.954		
5,300.00	4,612.46	4,587.46	4,587.46	48.30	79.09	94.56	-7,866.23	5,359.55	9,470.25	9,343.02	127.23	74.435		
5,400.00	4,692.75	4,667.75	4,667.75	49.54	80.49	94.85	-7,866.23	5,359.55	9,476.33	9,346.48	129.85	72.980		
5,500.00	4,773.04	4,748.04	4,748.04	50.79	81.89	95.14	-7,866.23	5,359.55	9,482.78	9,350.32	132.46	71.588		
5,600.00	4,853.34	4,828.34	4,828.34	52.03	83.29	95.43	-7,866.23	5,359.55	9,489.60	9,354.52	135.08	70.253		
5,700.00	4,933.63	4,908.63	4,908.63	53.28	84.69	95.72	-7,866.23	5,359.55	9,496.79	9,359.10	137.69	68.974		
5,800.00	5,013.92	4,988.92	4,988.92	54.53	86.10	96.00	-7,866.23	5,359.55	9,504.35	9,364.05	140.29	67.745		
5,900.00	5,094.21	5,069.21	5,069.21	55.77	87.50	96.29	-7,866.23	5,359.55	9,512.27	9,369.37	142.90	66.566		
6,000.00	5,174.51	5,149.51	5,149.51	57.02	88.90	96.58	-7,866.23	5,359.55	9,520.57	9,375.07	145.50	65.433		
6,100.00	5,254.80	5,229.80	5,229.80	58.27	90.30	96.87	-7,866.23	5,359.55	9,529.22	9,381.13	148.10	64.343		
6,200.00	5,335.09	5,310.09	5,310.09	59.52	91.70	97.15	-7,866.23	5,359.55	9,538.25	9,387.55	150.69	63.295		
6,300.00	5,415.38	5,409.62	5,390.38	60.76	93.44	97.44	-7,866.23	5,359.55	9,547.63	9,394.01	153.62	62.150		
6,400.00	5,495.68	5,470.68	5,470.68	62.01	94.50	97.73	-7,866.23	5,359.55	9,557.38	9,401.51	155.87	61.315		
6,500.00	5,575.97	5,550.97	5,550.97	63.26	95.91	98.01	-7,866.23	5,359.55	9,567.49	9,409.03	158.46	60.379		
6,600.00	5,656.26	5,631.26	5,631.26	64.51	97.31	98.30	-7,866.23	5,359.55	9,577.96	9,416.93	161.04	59.476		
6,700.00	5,736.55	5,711.55	5,711.55	65.76	98.71	98.58	-7,866.23	5,359.55	9,588.79	9,425.18	163.61	58.606		
6,800.00	5,816.85	5,808.15	5,791.85	67.01	100.39	98.86	-7,866.23	5,359.55	9,599.98	9,433.51	166.47	57.668		
6,900.00	5,897.14	5,872.14	5,872.14	68.26	101.51	99.15	-7,866.23	5,359.55	9,611.52	9,442.77	168.75	56.956		
7,000.00	5,977.43	5,952.43	5,952.43	69.50	102.91	99.43	-7,866.23	5,359.55	9,623.42	9,452.11	171.32	56.173		
7,100.00	6,057.72	6,032.72	6,032.72	70.75	104.31	99.71	-7,866.23	5,359.55	9,635.68	9,461.80	173.88	55.416		
7,200.00	6,138.02	6,113.02	6,113.02	72.00	105.71	100.00	-7,866.23	5,359.55	9,648.28	9,471.85	176.43	54.685		
7,300.00	6,218.31	6,206.69	6,193.31	73.25	107.35	100.28	-7,866.23	5,359.55	9,661.24	9,482.02	179.22	53.908		
7,400.00	6,298.60	6,273.60	6,273.60	74.50	108.52	100.56	-7,866.23	5,359.55	9,674.55	9,493.02	181.53	53.294		
7,500.00	6,378.90	6,353.90	6,353.90	75.75	109.92	100.84	-7,866.23	5,359.55	9,688.21	9,504.13	184.07	52.633		
7,600.00	6,459.19	6,434.19	6,434.19	77.00	111.32	101.12	-7,866.23	5,359.55	9,702.21	9,515.60	186.61	51.992		
7,700.00	6,539.48	6,514.48	6,514.48	78.25	112.72	101.40	-7,866.23	5,359.55	9,716.56	9,527.42	189.14	51.372		
7,800.00	6,619.77	6,605.23	6,594.77	79.50	114.31	101.68	-7,866.23	5,359.55	9,731.25	9,539.40	191.85	50.723		
7,900.00	6,700.07	6,675.07	6,675.07	80.75	115.52	101.96	-7,866.23	5,359.55	9,746.28	9,552.09	194.19	50.189		
8,000.00	6,780.36	6,755.36	6,755.36	82.00	116.93	102.24	-7,866.23	5,359.55	9,761.66	9,564.95	196.71	49.625		
8,100.00	6,860.65	6,835.65	6,835.65	83.25	118.33	102.52	-7,866.23	5,359.55	9,777.38	9,578.16	199.22	49.078		
8,200.00	6,940.94	6,915.94	6,915.94	84.50	119.73	102.79	-7,866.23	5,359.55	9,793.43	9,591.70	201.73	48.548		
8,300.00	7,021.24	7,003.76	6,996.24	85.76	121.26	103.07	-7,866.23	5,359.55	9,809.82	9,605.46	204.36	48.003		
8,400.00	7,101.53	7,076.53	7,076.53	87.01	122.53	103.35	-7,866.23	5,359.55	9,826.54	9,619.81	206.72	47.534		
8,500.00	7,181.82	7,156.82	7,156.82	88.26	123.93	103.62	-7,866.23	5,359.55	9,843.59	9,634.38	209.22	47.050		
8,605.60	7,266.61	7,241.61	7,241.61	89.58	125.41	103.91	-7,866.23	5,359.55	9,861.96	9,650.12	211.84	46.554		
8,650.00	7,302.60	7,277.60	7,277.60	90.13	126.04	98.30	-7,866.23	5,359.55	9,868.11	9,655.16	212.95	46.340		
8,700.00	7,343.78	7,318.78	7,318.78	90.72	126.76	91.39	-7,866.23	5,359.55	9,871.05	9,656.84	214.21	46.082		
8,750.00	7,385.32	7,360.32	7,360.32	91.28	127.48	84.07	-7,866.23	5,359.55	9,869.75	9,654.28	215.46	45.807		
8,800.00	7,426.92	7,401.92	7,401.92	91.81	128.21	76.65	-7,866.23	5,359.55	9,864.20	9,647.50	216.70	45.519		
8,850.00	7,468.27	7,443.27	7,443.27	92.29	128.93	69.41	-7,866.23	5,359.55	9,854.46	9,636.54	217.92	45.221		
8,900.00	7,509.04	7,484.04	7,484.04	92.72	129.64	62.62	-7,866.23	5,359.55	9,840.57	9,621.48	219.10	44.914		
8,950.00	7,548.93	7,523.93	7,523.93	93.10	130.34	56.42	-7,866.23	5,359.55	9,822.65	9,602.43	220.23	44.603		
9,000.00	7,587.63	7,562.63	7,562.63	93.43	131.02	50.88	-7,866.23	5,359.55	9,800.82	9,579.52	221.30	44.287		
9,050.00	7,624.85	7,600.15	7,599.85	93.71	131.67	45.97	-7,866.23	5,359.55	9,775.24	9,552.92	222.32	43.970		
9,100.00	7,660.30	7,635.30	7,635.30	93.93	132.28	41.64	-7,866.23	5,359.55	9,746.09	9,522.83	223.25	43.655		
9,150.00	7,693.72	7,668.72	7,668.72	94.10	132.87	37.78	-7,866.23	5,359.55	9,713.58	9,489.46	224.12	43.341		
9,200.00	7,724.85	7,700.15	7,699.85	94.23	133.42	34.27	-7,866.23	5,359.55	9,677.94	9,453.03	224.91	43.030		
9,250.00	7,753.45	7,728.45	7,728.45	94.30	133.91	31.00	-7,866.23	5,359.55	9,639.45	9,413.84	225.61	42.726		
9,300.00	7,779.31	7,754.31	7,754.31	94.34	134.36	27.78	-7,866.23	5,359.55	9,598.38	9,372.16	226.22	42.429		
9,350.00	7,802.23	7,777.23	7,777.23	94.33	134.76	24.39	-7,866.23	5,359.55	9,555.05	9,328.30	226.75	42.139		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	7,802.97	7,797.03	94.28	135.21	20.47	-7,866.23	5,359.55	9,509.76	9,282.47	227.29	41.840		
9,450.00	7,838.57	7,813.57	7,813.57	94.20	135.40	15.32	-7,866.23	5,359.55	9,462.86	9,235.33	227.53	41.589		
9,500.00	7,851.72	7,826.72	7,826.72	94.10	135.62	7.38	-7,866.23	5,359.55	9,414.71	9,186.92	227.79	41.331		
9,550.00	7,861.37	7,836.37	7,836.37	93.96	135.79	-7.46	-7,866.23	5,359.55	9,365.67	9,137.72	227.96	41.085		
9,600.00	7,867.46	7,842.46	7,842.46	93.81	135.90	-39.24	-7,866.23	5,359.55	9,316.11	9,088.08	228.04	40.854		
9,650.00	7,869.94	7,844.94	7,844.94	93.64	135.94	-83.66	-7,866.23	5,359.55	9,266.41	9,038.38	228.03	40.637		
9,659.14	7,870.00	7,845.00	7,845.00	93.60	135.94	-90.00	-7,866.23	5,359.55	9,257.34	9,029.33	228.02	40.599		
9,700.00	7,870.00	7,845.00	7,845.00	93.46	135.94	-90.00	-7,866.23	5,359.55	9,216.82	8,988.85	227.97	40.431		
9,800.00	7,870.00	7,845.00	7,845.00	93.11	135.94	-90.00	-7,866.23	5,359.55	9,117.65	8,889.81	227.84	40.018		
9,900.00	7,870.00	7,845.00	7,845.00	92.77	135.94	-90.00	-7,866.23	5,359.55	9,018.50	8,790.79	227.71	39.606		
10,000.00	7,870.00	7,845.00	7,845.00	92.46	135.94	-90.00	-7,866.23	5,359.55	8,919.37	8,691.80	227.57	39.194		
10,100.00	7,870.00	7,845.00	7,845.00	92.16	135.94	-90.00	-7,866.23	5,359.55	8,820.26	8,592.82	227.44	38.781		
10,200.00	7,870.00	7,845.00	7,845.00	91.87	135.94	-90.00	-7,866.23	5,359.55	8,721.17	8,493.87	227.30	38.369		
10,300.00	7,870.00	7,845.00	7,845.00	91.60	135.94	-90.00	-7,866.23	5,359.55	8,622.10	8,394.95	227.16	37.957		
10,400.00	7,870.00	7,845.00	7,845.00	91.34	135.94	-90.00	-7,866.23	5,359.55	8,523.05	8,296.04	227.01	37.545		
10,500.00	7,870.00	7,845.00	7,845.00	91.11	135.94	-90.00	-7,866.23	5,359.55	8,424.03	8,197.16	226.86	37.132		
10,600.00	7,870.00	7,845.00	7,845.00	90.88	135.94	-90.00	-7,866.23	5,359.55	8,325.03	8,098.31	226.72	36.720		
10,700.00	7,870.00	7,845.00	7,845.00	90.67	135.94	-90.00	-7,866.23	5,359.55	8,226.05	7,999.49	226.56	36.308		
10,800.00	7,870.00	7,845.00	7,845.00	90.48	135.94	-90.00	-7,866.23	5,359.55	8,127.10	7,900.69	226.41	35.896		
10,900.00	7,870.00	7,845.00	7,845.00	90.31	135.94	-90.00	-7,866.23	5,359.55	8,028.17	7,801.92	226.25	35.484		
11,000.00	7,870.00	7,845.00	7,845.00	90.15	135.94	-90.00	-7,866.23	5,359.55	7,929.27	7,703.19	226.09	35.072		
11,100.00	7,870.00	7,845.00	7,845.00	90.00	135.94	-90.00	-7,866.23	5,359.55	7,830.40	7,604.48	225.92	34.660		
11,200.00	7,870.00	7,845.00	7,845.00	89.88	135.94	-90.00	-7,866.23	5,359.55	7,731.56	7,505.81	225.75	34.248		
11,300.00	7,870.00	7,845.00	7,845.00	89.77	135.94	-90.00	-7,866.23	5,359.55	7,632.75	7,407.17	225.58	33.836		
11,400.00	7,870.00	7,845.00	7,845.00	89.68	135.94	-90.00	-7,866.23	5,359.55	7,533.97	7,308.57	225.40	33.424		
11,500.00	7,870.00	7,845.00	7,845.00	89.60	135.94	-90.00	-7,866.23	5,359.55	7,435.22	7,210.00	225.22	33.013		
11,600.00	7,870.00	7,845.00	7,845.00	89.55	135.94	-90.00	-7,866.23	5,359.55	7,336.51	7,111.47	225.04	32.601		
11,700.00	7,870.00	7,845.00	7,845.00	89.52	135.94	-90.00	-7,866.23	5,359.55	7,237.83	7,012.98	224.85	32.190		
11,800.00	7,870.00	7,845.00	7,845.00	89.50	135.94	-90.00	-7,866.23	5,359.55	7,139.19	6,914.53	224.66	31.778		
11,900.00	7,870.00	7,845.00	7,845.00	89.51	135.94	-90.00	-7,866.23	5,359.55	7,040.58	6,816.12	224.46	31.367		
12,000.00	7,870.00	7,845.00	7,845.00	89.54	135.94	-90.00	-7,866.23	5,359.55	6,942.02	6,717.76	224.26	30.955		
12,100.00	7,870.00	7,845.00	7,845.00	89.59	135.94	-90.00	-7,866.23	5,359.55	6,843.50	6,619.44	224.05	30.544		
12,200.00	7,870.00	7,845.00	7,845.00	89.66	135.94	-90.00	-7,866.23	5,359.55	6,745.02	6,521.18	223.84	30.133		
12,300.00	7,870.00	7,845.00	7,845.00	89.77	135.94	-90.00	-7,866.23	5,359.55	6,646.58	6,422.96	223.62	29.722		
12,400.00	7,870.00	7,845.00	7,845.00	89.89	135.94	-90.00	-7,866.23	5,359.55	6,548.20	6,324.80	223.40	29.311		
12,500.00	7,870.00	7,845.00	7,845.00	90.05	135.94	-90.00	-7,866.23	5,359.55	6,449.86	6,226.69	223.17	28.901		
12,600.00	7,870.00	7,845.00	7,845.00	90.24	135.94	-90.00	-7,866.23	5,359.55	6,351.58	6,128.64	222.94	28.490		
12,700.00	7,870.00	7,845.00	7,845.00	90.46	135.94	-90.00	-7,866.23	5,359.55	6,253.35	6,030.65	222.70	28.079		
12,800.00	7,870.00	7,845.00	7,845.00	90.71	135.94	-90.00	-7,866.23	5,359.55	6,155.18	5,932.72	222.46	27.669		
12,900.00	7,870.00	7,845.00	7,845.00	90.99	135.94	-90.00	-7,866.23	5,359.55	6,057.06	5,834.86	222.21	27.259		
13,000.00	7,870.00	7,845.00	7,845.00	91.32	135.94	-90.00	-7,866.23	5,359.55	5,959.01	5,737.07	221.95	26.849		
13,100.00	7,870.00	7,845.00	7,845.00	91.68	135.94	-90.00	-7,866.23	5,359.55	5,861.03	5,639.35	221.68	26.439		
13,200.00	7,870.00	7,845.00	7,845.00	92.08	135.94	-90.00	-7,866.23	5,359.55	5,763.11	5,541.70	221.41	26.029		
13,300.00	7,870.00	7,845.00	7,845.00	92.52	135.94	-90.00	-7,866.23	5,359.55	5,665.27	5,444.14	221.13	25.620		
13,400.00	7,870.00	7,845.00	7,845.00	93.00	135.94	-90.00	-7,866.23	5,359.55	5,567.51	5,346.66	220.84	25.210		
13,500.00	7,870.00	7,845.00	7,845.00	93.53	135.94	-90.00	-7,866.23	5,359.55	5,469.82	5,249.27	220.55	24.801		
13,600.00	7,870.00	7,845.00	7,845.00	94.10	135.94	-90.00	-7,866.23	5,359.55	5,372.22	5,151.98	220.25	24.392		
13,700.00	7,870.00	7,845.00	7,845.00	94.72	135.94	-90.00	-7,866.23	5,359.55	5,274.71	5,054.78	219.94	23.983		
13,800.00	7,870.00	7,845.00	7,845.00	95.38	135.94	-90.00	-7,866.23	5,359.55	5,177.30	4,957.68	219.62	23.574		
13,900.00	7,870.00	7,845.00	7,845.00	96.09	135.94	-90.00	-7,866.23	5,359.55	5,079.98	4,860.70	219.29	23.166		
14,000.00	7,870.00	7,845.00	7,845.00	96.84	135.94	-90.00	-7,866.23	5,359.55	4,982.78	4,763.83	218.95	22.757		
14,100.00	7,870.00	7,845.00	7,845.00	97.64	135.94	-90.00	-7,866.23	5,359.55	4,885.68	4,667.08	218.61	22.349		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,870.00	7,845.00	7,845.00	98.48	135.94	-90.00	-7,866.23	5,359.55	4,788.71	4,570.46	218.25	21.941		
14,300.00	7,870.00	7,845.00	7,845.00	99.37	135.94	-90.00	-7,866.23	5,359.55	4,691.86	4,473.97	217.88	21.534		
14,400.00	7,870.00	7,845.00	7,845.00	100.30	135.94	-90.00	-7,866.23	5,359.55	4,595.15	4,377.64	217.51	21.126		
14,500.00	7,870.00	7,845.00	7,845.00	101.26	135.94	-90.00	-7,866.23	5,359.55	4,498.58	4,281.45	217.12	20.719		
14,600.00	7,870.00	7,845.00	7,845.00	102.27	135.94	-90.00	-7,866.23	5,359.55	4,402.16	4,185.43	216.73	20.312		
14,700.00	7,870.00	7,845.00	7,845.00	103.31	135.94	-90.00	-7,866.23	5,359.55	4,305.91	4,089.58	216.33	19.905		
14,800.00	7,870.00	7,845.00	7,845.00	104.38	135.94	-90.00	-7,866.23	5,359.55	4,209.83	3,993.92	215.91	19.498		
14,900.00	7,870.00	7,845.00	7,845.00	105.49	135.94	-90.00	-7,866.23	5,359.55	4,113.94	3,898.45	215.49	19.091		
15,000.00	7,870.00	7,845.00	7,845.00	106.63	135.94	-90.00	-7,866.23	5,359.55	4,018.25	3,803.19	215.05	18.685		
15,100.00	7,870.00	7,845.00	7,845.00	107.80	135.94	-90.00	-7,866.23	5,359.55	3,922.77	3,708.16	214.61	18.278		
15,200.00	7,870.00	7,845.00	7,845.00	109.00	135.94	-90.00	-7,866.23	5,359.55	3,827.52	3,613.36	214.16	17.872		
15,300.00	7,870.00	7,845.00	7,845.00	110.22	135.94	-90.00	-7,866.23	5,359.55	3,732.53	3,518.82	213.70	17.466		
15,400.00	7,870.00	7,845.00	7,845.00	111.47	135.94	-90.00	-7,866.23	5,359.55	3,637.80	3,424.56	213.24	17.060		
15,500.00	7,870.00	7,845.00	7,845.00	112.74	135.94	-90.00	-7,866.23	5,359.55	3,543.36	3,330.59	212.77	16.653		
15,600.00	7,870.00	7,845.00	7,845.00	114.03	135.94	-90.00	-7,866.23	5,359.55	3,449.24	3,236.93	212.30	16.247		
15,700.00	7,870.00	7,845.00	7,845.00	115.34	135.94	-90.00	-7,866.23	5,359.55	3,355.45	3,143.62	211.83	15.840		
15,800.00	7,870.00	7,845.00	7,845.00	116.68	135.94	-90.00	-7,866.23	5,359.55	3,262.04	3,050.67	211.37	15.433		
15,900.00	7,870.00	7,845.00	7,845.00	118.02	135.94	-90.00	-7,866.23	5,359.55	3,169.02	2,958.12	210.91	15.026		
16,000.00	7,870.00	7,845.00	7,845.00	119.39	135.94	-90.00	-7,866.23	5,359.55	3,076.45	2,865.99	210.46	14.618		
16,100.00	7,870.00	7,845.00	7,845.00	120.77	135.94	-90.00	-7,866.23	5,359.55	2,984.35	2,774.32	210.03	14.209		
16,200.00	7,870.00	7,845.00	7,845.00	122.17	135.94	-90.00	-7,866.23	5,359.55	2,892.78	2,683.15	209.63	13.799		
16,300.00	7,870.00	7,845.00	7,845.00	123.58	135.94	-90.00	-7,866.23	5,359.55	2,801.78	2,592.51	209.27	13.388		
16,400.00	7,870.00	7,845.00	7,845.00	125.00	135.94	-90.00	-7,866.23	5,359.55	2,711.42	2,502.47	208.95	12.976		
16,500.00	7,870.00	7,845.00	7,845.00	126.43	135.94	-90.00	-7,866.23	5,359.55	2,621.76	2,413.06	208.70	12.562		
16,600.00	7,870.00	7,845.00	7,845.00	127.88	135.94	-90.00	-7,866.23	5,359.55	2,532.88	2,324.34	208.53	12.146		
16,700.00	7,870.00	7,845.00	7,845.00	129.34	135.94	-90.00	-7,866.23	5,359.55	2,444.85	2,236.39	208.46	11.728		
16,800.00	7,870.00	7,845.00	7,845.00	130.81	135.94	-90.00	-7,866.23	5,359.55	2,357.78	2,149.26	208.52	11.307		
16,900.00	7,870.00	7,845.00	7,845.00	132.28	135.94	-90.00	-7,866.23	5,359.55	2,271.77	2,063.03	208.73	10.884		
17,000.00	7,870.00	7,845.00	7,845.00	133.77	135.94	-90.00	-7,866.23	5,359.55	2,186.95	1,977.81	209.14	10.457		
17,100.00	7,870.00	7,845.00	7,845.00	135.27	135.94	-90.00	-7,866.23	5,359.55	2,103.47	1,893.69	209.78	10.027		
17,200.00	7,870.00	7,845.00	7,845.00	136.77	135.94	-90.00	-7,866.23	5,359.55	2,021.48	1,810.78	210.70	9.594		
17,300.00	7,870.00	7,845.00	7,845.00	138.28	135.94	-90.00	-7,866.23	5,359.55	1,941.19	1,729.24	211.95	9.159		
17,400.00	7,870.00	7,845.00	7,845.00	139.80	135.94	-90.00	-7,866.23	5,359.55	1,862.81	1,649.23	213.58	8.722		
17,500.00	7,870.00	7,845.00	7,845.00	141.33	135.94	-90.00	-7,866.23	5,359.55	1,786.58	1,570.93	215.65	8.284		
17,600.00	7,870.00	7,845.00	7,845.00	142.86	135.94	-90.00	-7,866.23	5,359.55	1,712.80	1,494.57	218.23	7.849		
17,700.00	7,870.00	7,845.00	7,845.00	144.40	135.94	-90.00	-7,866.23	5,359.55	1,641.80	1,420.45	221.35	7.417		
17,800.00	7,870.00	7,845.00	7,845.00	145.95	135.94	-90.00	-7,866.23	5,359.55	1,573.96	1,348.88	225.07	6.993		
17,900.00	7,870.00	7,845.00	7,845.00	147.50	135.94	-90.00	-7,866.23	5,359.55	1,509.69	1,280.26	229.42	6.580		
18,000.00	7,870.00	7,845.00	7,845.00	149.06	135.94	-90.00	-7,866.23	5,359.55	1,449.48	1,215.07	234.41	6.183		
18,100.00	7,870.00	7,845.00	7,845.00	150.63	135.94	-90.00	-7,866.23	5,359.55	1,393.84	1,153.83	240.02	5.807		
18,200.00	7,870.00	7,845.00	7,845.00	152.20	135.94	-90.00	-7,866.23	5,359.55	1,343.36	1,097.17	246.19	5.457		
18,300.00	7,870.00	7,845.00	7,845.00	153.77	135.94	-90.00	-7,866.23	5,359.55	1,298.63	1,045.80	252.84	5.136		
18,400.00	7,870.00	7,845.00	7,845.00	155.35	135.94	-90.00	-7,866.23	5,359.55	1,260.27	1,000.45	259.82	4.851		
18,500.00	7,870.00	7,845.00	7,845.00	156.93	135.94	-90.00	-7,866.23	5,359.55	1,228.86	961.90	266.96	4.603		
18,600.00	7,870.00	7,845.00	7,845.00	158.52	135.94	-90.00	-7,866.23	5,359.55	1,204.96	930.92	274.04	4.397		
18,700.00	7,870.00	7,845.00	7,845.00	160.11	135.94	-90.00	-7,866.23	5,359.55	1,189.01	908.18	280.82	4.234		
18,800.00	7,870.00	7,845.00	7,845.00	161.71	135.94	-90.00	-7,866.23	5,359.55	1,181.34	894.25	287.09	4.115		
18,840.89	7,870.00	7,845.00	7,845.00	162.36	135.94	-90.00	-7,866.23	5,359.55	1,180.63	891.18	289.45	4.079 CC		
18,900.00	7,870.00	7,845.00	7,845.00	163.31	135.94	-90.00	-7,866.23	5,359.55	1,182.11	889.47	292.64	4.040 ES		
19,000.00	7,870.00	7,845.00	7,845.00	164.91	135.94	-90.00	-7,866.23	5,359.55	1,191.31	893.99	297.31	4.007 SF		
19,100.00	7,870.00	7,845.00	7,845.00	166.52	135.94	-90.00	-7,866.23	5,359.55	1,208.73	907.69	301.04	4.015		
19,200.00	7,870.00	7,845.00	7,845.00	168.13	135.94	-90.00	-7,866.23	5,359.55	1,234.04	930.23	303.81	4.062		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	7,845.00	7,845.00	169.75	135.94	-90.00	-7,866.23	5,359.55	1,266.76	961.09	305.67	4.144	
19,383.51	7,870.00	7,845.00	7,845.00	171.10	135.94	-90.00	-7,866.23	5,359.55	1,299.36	992.78	306.58	4.238	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	149.01	-5,431.32	3,262.74	6,336.03					
100.00	100.00	78.00	78.00	0.13	0.59	149.01	-5,431.32	3,262.74	6,335.99	6,335.26	0.73	8,719.839		
200.00	200.00	178.00	178.00	0.49	2.12	149.01	-5,431.32	3,262.74	6,335.99	6,333.38	2.61	2,424.355		
300.00	300.00	278.00	278.00	0.85	3.87	149.01	-5,431.32	3,262.74	6,335.99	6,331.27	4.72	1,343.146		
400.00	400.00	378.00	378.00	1.21	5.61	149.01	-5,431.32	3,262.74	6,335.99	6,329.17	6.82	928.884		
500.00	500.00	478.00	478.00	1.57	7.36	149.01	-5,431.32	3,262.74	6,335.99	6,327.07	8.92	709.925		
600.00	600.00	578.00	578.00	1.93	9.10	149.01	-5,431.32	3,262.74	6,335.99	6,324.96	11.03	574.501		
700.00	699.98	677.98	677.98	2.28	10.85	85.20	-5,431.32	3,262.74	6,335.84	6,322.72	13.13	482.631		
800.00	799.84	777.84	777.84	2.64	12.59	85.26	-5,431.32	3,262.74	6,335.41	6,320.19	15.22	416.148		
900.00	899.45	877.45	877.45	3.00	14.33	85.35	-5,431.32	3,262.74	6,334.69	6,317.37	17.32	365.666		
1,000.00	998.70	976.70	976.70	3.37	16.06	85.48	-5,431.32	3,262.74	6,333.71	6,314.28	19.43	325.983		
1,100.00	1,097.47	1,075.47	1,075.47	3.76	17.78	85.64	-5,431.32	3,262.74	6,332.49	6,310.94	21.54	293.919		
1,200.00	1,195.62	1,173.62	1,173.62	4.18	19.50	85.84	-5,431.32	3,262.74	6,331.04	6,307.37	23.67	267.429		
1,300.00	1,293.06	1,271.06	1,271.06	4.63	21.20	86.07	-5,431.32	3,262.74	6,329.42	6,303.60	25.82	245.136		
1,400.00	1,389.64	1,367.64	1,367.64	5.11	22.88	86.33	-5,431.32	3,262.74	6,327.64	6,299.66	27.99	226.088		
1,500.00	1,485.27	1,463.27	1,463.27	5.63	24.55	86.62	-5,431.32	3,262.74	6,325.77	6,295.59	30.18	209.601		
1,600.00	1,579.82	1,557.82	1,557.82	6.20	26.20	86.94	-5,431.32	3,262.74	6,323.83	6,291.43	32.40	195.175		
1,700.00	1,673.17	1,651.17	1,651.17	6.83	27.83	87.28	-5,431.32	3,262.74	6,321.90	6,287.25	34.65	182.436		
1,800.00	1,765.21	1,743.21	1,743.21	7.51	29.44	87.65	-5,431.32	3,262.74	6,320.02	6,283.09	36.94	171.098		
1,900.00	1,855.84	1,833.84	1,833.84	8.24	31.02	88.03	-5,431.32	3,262.74	6,318.27	6,279.01	39.26	160.939		
2,000.00	1,944.94	1,922.94	1,922.94	9.05	32.58	88.43	-5,431.32	3,262.74	6,316.69	6,275.08	41.62	151.785		
2,100.00	2,032.39	2,010.39	2,010.39	9.91	34.10	88.84	-5,431.32	3,262.74	6,315.37	6,271.36	44.01	143.497		
2,200.00	2,118.11	2,103.89	2,103.89	10.85	35.73	89.26	-5,431.32	3,262.74	6,314.37	6,267.79	46.58	135.564		
2,300.00	2,201.97	2,179.97	2,179.97	11.85	37.06	89.68	-5,431.32	3,262.74	6,313.78	6,264.86	48.91	129.083		
2,373.71	2,262.54	2,240.54	2,240.54	12.65	38.12	90.00	-5,431.32	3,262.74	6,313.64	6,262.87	50.76	124.374		
2,400.00	2,283.88	2,261.88	2,261.88	12.93	38.49	90.11	-5,431.32	3,262.74	6,313.65	6,262.24	51.42	122.788		
2,429.47	2,307.63	2,285.63	2,285.63	13.26	38.91	90.24	-5,431.32	3,262.74	6,313.72	6,261.56	52.16	121.037		
2,500.00	2,364.26	2,342.26	2,342.26	14.06	39.89	90.55	-5,431.32	3,262.74	6,314.08	6,260.12	53.96	117.024		
2,600.00	2,444.56	2,422.56	2,422.56	15.22	41.30	90.98	-5,431.32	3,262.74	6,315.07	6,258.56	56.51	111.747		
2,700.00	2,524.85	2,502.85	2,502.85	16.39	42.70	91.41	-5,431.32	3,262.74	6,316.62	6,257.54	59.08	106.912		
2,800.00	2,605.14	2,583.14	2,583.14	17.57	44.10	91.85	-5,431.32	3,262.74	6,318.73	6,257.07	61.66	102.473		
2,900.00	2,685.43	2,663.43	2,663.43	18.76	45.50	92.28	-5,431.32	3,262.74	6,321.40	6,257.15	64.25	98.387		
3,000.00	2,765.73	2,743.73	2,743.73	19.96	46.90	92.71	-5,431.32	3,262.74	6,324.64	6,257.79	66.84	94.618		
3,100.00	2,846.02	2,824.02	2,824.02	21.16	48.30	93.15	-5,431.32	3,262.74	6,328.43	6,258.99	69.44	91.134		
3,200.00	2,926.31	2,904.31	2,904.31	22.37	49.70	93.58	-5,431.32	3,262.74	6,332.78	6,260.74	72.04	87.905		
3,300.00	3,006.60	2,984.60	2,984.60	23.59	51.11	94.01	-5,431.32	3,262.74	6,337.70	6,263.05	74.64	84.906		
3,400.00	3,086.90	3,064.90	3,064.90	24.81	52.51	94.45	-5,431.32	3,262.74	6,343.16	6,265.92	77.25	82.116		
3,500.00	3,167.19	3,145.19	3,145.19	26.03	53.91	94.88	-5,431.32	3,262.74	6,349.18	6,269.34	79.85	79.515		
3,600.00	3,247.48	3,225.48	3,225.48	27.25	55.31	95.31	-5,431.32	3,262.74	6,355.76	6,273.31	82.45	77.086		
3,700.00	3,327.77	3,305.77	3,305.77	28.48	56.71	95.74	-5,431.32	3,262.74	6,362.89	6,277.83	85.05	74.813		
3,800.00	3,408.07	3,386.07	3,386.07	29.71	58.11	96.17	-5,431.32	3,262.74	6,370.56	6,282.91	87.65	72.683		
3,900.00	3,488.36	3,466.36	3,466.36	30.94	59.51	96.60	-5,431.32	3,262.74	6,378.79	6,288.54	90.24	70.683		
4,000.00	3,568.65	3,546.65	3,546.65	32.17	60.91	97.02	-5,431.32	3,262.74	6,387.56	6,294.72	92.84	68.803		
4,100.00	3,648.95	3,626.95	3,626.95	33.41	62.32	97.45	-5,431.32	3,262.74	6,396.87	6,301.44	95.43	67.034		
4,200.00	3,729.24	3,707.24	3,707.24	34.64	63.72	97.88	-5,431.32	3,262.74	6,406.72	6,308.71	98.01	65.366		
4,300.00	3,809.53	3,787.53	3,787.53	35.88	65.12	98.30	-5,431.32	3,262.74	6,417.12	6,316.52	100.59	63.792		
4,400.00	3,889.82	3,867.82	3,867.82	37.12	66.52	98.73	-5,431.32	3,262.74	6,428.05	6,324.88	103.17	62.305		
4,500.00	3,970.12	3,948.12	3,948.12	38.36	67.92	99.15	-5,431.32	3,262.74	6,439.51	6,333.77	105.74	60.898		
4,600.00	4,050.41	4,028.41	4,028.41	39.60	69.32	99.58	-5,431.32	3,262.74	6,451.50	6,343.19	108.31	59.565		
4,700.00	4,130.70	4,108.70	4,108.70	40.84	70.72	100.00	-5,431.32	3,262.74	6,464.02	6,353.15	110.87	58.302		
4,800.00	4,210.99	4,188.99	4,188.99	42.08	72.13	100.42	-5,431.32	3,262.74	6,477.07	6,363.64	113.43	57.103		
4,900.00	4,291.29	4,269.29	4,269.29	43.32	73.53	100.84	-5,431.32	3,262.74	6,490.63	6,374.65	115.98	55.964		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,371.58	4,349.58	4,349.58	44.57	74.93	101.26	-5,431.32	3,262.74	6,504.72	6,386.19	118.52	54.882		
5,100.00	4,451.87	4,429.87	4,429.87	45.81	76.33	101.67	-5,431.32	3,262.74	6,519.32	6,398.26	121.06	53.852		
5,200.00	4,532.16	4,510.16	4,510.16	47.05	77.73	102.09	-5,431.32	3,262.74	6,534.42	6,410.83	123.59	52.872		
5,300.00	4,612.46	4,609.54	4,590.46	48.30	79.47	102.50	-5,431.32	3,262.74	6,550.04	6,423.59	126.45	51.800		
5,400.00	4,692.75	4,670.75	4,670.75	49.54	80.53	102.92	-5,431.32	3,262.74	6,566.16	6,437.53	128.63	51.046		
5,500.00	4,773.04	4,751.04	4,751.04	50.79	81.94	103.33	-5,431.32	3,262.74	6,582.78	6,451.64	131.14	50.196		
5,600.00	4,853.34	4,831.34	4,831.34	52.03	83.34	103.74	-5,431.32	3,262.74	6,599.90	6,466.26	133.65	49.384		
5,700.00	4,933.63	4,911.63	4,911.63	53.28	84.74	104.15	-5,431.32	3,262.74	6,617.51	6,481.37	136.14	48.608		
5,800.00	5,013.92	5,008.08	4,991.92	54.53	86.42	104.56	-5,431.32	3,262.74	6,635.61	6,496.70	138.91	47.769		
5,900.00	5,094.21	5,072.21	5,072.21	55.77	87.54	104.96	-5,431.32	3,262.74	6,654.20	6,513.09	141.11	47.156		
6,000.00	5,174.51	5,152.51	5,152.51	57.02	88.94	105.37	-5,431.32	3,262.74	6,673.26	6,529.68	143.58	46.477		
6,100.00	5,254.80	5,232.80	5,232.80	58.27	90.34	105.77	-5,431.32	3,262.74	6,692.80	6,546.76	146.05	45.826		
6,200.00	5,335.09	5,313.09	5,313.09	59.52	91.74	106.17	-5,431.32	3,262.74	6,712.82	6,564.31	148.50	45.203		
6,300.00	5,415.38	5,406.62	5,393.38	60.76	93.38	106.57	-5,431.32	3,262.74	6,733.30	6,582.12	151.18	44.537		
6,400.00	5,495.68	5,473.68	5,473.68	62.01	94.55	106.97	-5,431.32	3,262.74	6,754.24	6,600.85	153.39	44.032		
6,500.00	5,575.97	5,553.97	5,553.97	63.26	95.95	107.37	-5,431.32	3,262.74	6,775.65	6,619.82	155.83	43.482		
6,600.00	5,656.26	5,634.26	5,634.26	64.51	97.35	107.76	-5,431.32	3,262.74	6,797.51	6,639.26	158.25	42.954		
6,700.00	5,736.55	5,714.55	5,714.55	65.76	98.75	108.15	-5,431.32	3,262.74	6,819.82	6,659.16	160.66	42.447		
6,800.00	5,816.85	5,805.15	5,794.85	67.01	100.33	108.55	-5,431.32	3,262.74	6,842.58	6,679.33	163.25	41.914		
6,900.00	5,897.14	5,875.14	5,875.14	68.26	101.55	108.94	-5,431.32	3,262.74	6,865.78	6,700.31	165.47	41.492		
7,000.00	5,977.43	5,955.43	5,955.43	69.50	102.96	109.32	-5,431.32	3,262.74	6,889.42	6,721.56	167.86	41.042		
7,100.00	6,057.72	6,035.72	6,035.72	70.75	104.36	109.71	-5,431.32	3,262.74	6,913.49	6,743.25	170.24	40.609		
7,200.00	6,138.02	6,116.02	6,116.02	72.00	105.76	110.09	-5,431.32	3,262.74	6,937.99	6,765.37	172.62	40.193		
7,300.00	6,218.31	6,203.69	6,196.31	73.25	107.29	110.47	-5,431.32	3,262.74	6,962.92	6,787.80	175.11	39.763		
7,400.00	6,298.60	6,276.60	6,276.60	74.50	108.56	110.86	-5,431.32	3,262.74	6,988.26	6,810.92	177.34	39.406		
7,500.00	6,378.90	6,356.90	6,356.90	75.75	109.96	111.23	-5,431.32	3,262.74	7,014.02	6,834.33	179.69	39.035		
7,600.00	6,459.19	6,437.19	6,437.19	77.00	111.36	111.61	-5,431.32	3,262.74	7,040.19	6,858.16	182.03	38.677		
7,700.00	6,539.48	6,517.48	6,517.48	78.25	112.77	111.98	-5,431.32	3,262.74	7,066.76	6,882.40	184.36	38.332		
7,800.00	6,619.77	6,602.23	6,597.77	79.50	114.24	112.36	-5,431.32	3,262.74	7,093.74	6,906.98	186.76	37.984		
7,900.00	6,700.07	6,678.07	6,678.07	80.75	115.57	112.73	-5,431.32	3,262.74	7,121.11	6,932.12	188.99	37.679		
8,000.00	6,780.36	6,758.36	6,758.36	82.00	116.97	113.10	-5,431.32	3,262.74	7,148.88	6,957.58	191.30	37.370		
8,100.00	6,860.65	6,838.65	6,838.65	83.25	118.37	113.46	-5,431.32	3,262.74	7,177.03	6,983.43	193.60	37.072		
8,200.00	6,940.94	6,918.94	6,918.94	84.50	119.77	113.83	-5,431.32	3,262.74	7,205.56	7,009.68	195.88	36.785		
8,300.00	7,021.24	7,000.76	6,999.24	85.76	121.20	114.19	-5,431.32	3,262.74	7,234.48	7,036.29	198.19	36.503		
8,400.00	7,101.53	7,079.53	7,079.53	87.01	122.57	114.55	-5,431.32	3,262.74	7,263.77	7,063.33	200.44	36.240		
8,500.00	7,181.82	7,159.82	7,159.82	88.26	123.98	114.91	-5,431.32	3,262.74	7,293.43	7,090.73	202.70	35.981		
8,605.60	7,266.61	7,244.61	7,244.61	89.58	125.46	115.28	-5,431.32	3,262.74	7,325.14	7,120.06	205.08	35.718		
8,650.00	7,302.60	7,280.60	7,280.60	90.13	126.08	109.55	-5,431.32	3,262.74	7,336.95	7,130.86	206.09	35.600		
8,700.00	7,343.78	7,321.78	7,321.78	90.72	126.80	102.58	-5,431.32	3,262.74	7,346.33	7,139.08	207.25	35.447		
8,750.00	7,385.32	7,363.32	7,363.32	91.28	127.53	95.29	-5,431.32	3,262.74	7,351.51	7,143.09	208.42	35.273		
8,800.00	7,426.92	7,404.92	7,404.92	91.81	128.25	87.98	-5,431.32	3,262.74	7,352.45	7,142.86	209.59	35.081		
8,850.00	7,468.27	7,446.27	7,446.27	92.29	128.98	80.94	-5,431.32	3,262.74	7,349.14	7,138.40	210.74	34.873		
8,900.00	7,509.04	7,487.04	7,487.04	92.72	129.69	74.44	-5,431.32	3,262.74	7,341.62	7,129.75	211.87	34.651		
8,950.00	7,548.93	7,526.93	7,526.93	93.10	130.38	68.64	-5,431.32	3,262.74	7,329.94	7,116.97	212.97	34.417		
9,000.00	7,587.63	7,565.63	7,565.63	93.43	131.06	63.61	-5,431.32	3,262.74	7,314.19	7,100.16	214.03	34.173		
9,050.00	7,624.85	7,602.85	7,602.85	93.71	131.71	59.37	-5,431.32	3,262.74	7,294.47	7,079.44	215.04	33.922		
9,100.00	7,660.30	7,638.30	7,638.30	93.93	132.33	55.87	-5,431.32	3,262.74	7,270.94	7,054.96	215.99	33.664		
9,150.00	7,693.72	7,671.72	7,671.72	94.10	132.91	53.06	-5,431.32	3,262.74	7,243.77	7,026.90	216.87	33.401		
9,200.00	7,724.85	7,702.85	7,702.85	94.23	133.45	50.90	-5,431.32	3,262.74	7,213.15	6,995.46	217.69	33.135		
9,250.00	7,753.45	7,731.45	7,731.45	94.30	133.95	49.34	-5,431.32	3,262.74	7,179.30	6,960.86	218.44	32.867		
9,300.00	7,779.31	7,757.31	7,757.31	94.34	134.40	48.39	-5,431.32	3,262.74	7,142.47	6,923.37	219.10	32.599		
9,350.00	7,802.23	7,780.23	7,780.23	94.33	134.80	48.06	-5,431.32	3,262.74	7,102.93	6,883.23	219.69	32.331		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,400.00	7,822.03	7,800.03	7,800.03	94.28	135.15	48.45	-5,431.32	3,262.74	7,060.96	6,840.76	220.20	32.066		
9,450.00	7,838.57	7,816.57	7,816.57	94.20	135.44	49.75	-5,431.32	3,262.74	7,016.87	6,796.24	220.62	31.805		
9,500.00	7,851.72	7,829.72	7,829.72	94.10	135.67	52.36	-5,431.32	3,262.74	6,970.98	6,750.02	220.96	31.548		
9,550.00	7,861.37	7,839.37	7,839.37	93.96	135.84	57.15	-5,431.32	3,262.74	6,923.63	6,702.41	221.22	31.297		
9,600.00	7,867.46	7,845.46	7,845.46	93.81	135.94	66.18	-5,431.32	3,262.74	6,875.16	6,653.77	221.40	31.054		
9,650.00	7,869.94	7,847.94	7,847.94	93.64	135.99	84.79	-5,431.32	3,262.74	6,825.95	6,604.45	221.49	30.818		
9,659.14	7,870.00	7,848.00	7,848.00	93.60	135.99	90.00	-5,431.32	3,262.74	6,816.90	6,595.40	221.50	30.776		
9,700.00	7,870.00	7,848.00	7,848.00	93.46	135.99	90.00	-5,431.32	3,262.74	6,776.42	6,554.88	221.54	30.588		
9,800.00	7,870.00	7,848.00	7,848.00	93.11	135.99	90.00	-5,431.32	3,262.74	6,677.36	6,455.74	221.62	30.130		
9,900.00	7,870.00	7,848.00	7,848.00	92.77	135.99	90.00	-5,431.32	3,262.74	6,578.34	6,356.63	221.71	29.671		
10,000.00	7,870.00	7,848.00	7,848.00	92.46	135.99	90.00	-5,431.32	3,262.74	6,479.35	6,257.55	221.80	29.213		
10,100.00	7,870.00	7,848.00	7,848.00	92.16	135.99	90.00	-5,431.32	3,262.74	6,380.39	6,158.49	221.90	28.754		
10,200.00	7,870.00	7,848.00	7,848.00	91.87	135.99	90.00	-5,431.32	3,262.74	6,281.46	6,059.47	221.99	28.296		
10,300.00	7,870.00	7,848.00	7,848.00	91.60	135.99	90.00	-5,431.32	3,262.74	6,182.57	5,960.47	222.10	27.837		
10,400.00	7,870.00	7,848.00	7,848.00	91.34	135.99	90.00	-5,431.32	3,262.74	6,083.71	5,861.51	222.20	27.379		
10,500.00	7,870.00	7,848.00	7,848.00	91.11	135.99	90.00	-5,431.32	3,262.74	5,984.89	5,762.58	222.31	26.921		
10,600.00	7,870.00	7,848.00	7,848.00	90.88	135.99	90.00	-5,431.32	3,262.74	5,886.11	5,663.68	222.43	26.463		
10,700.00	7,870.00	7,848.00	7,848.00	90.67	135.99	90.00	-5,431.32	3,262.74	5,787.37	5,564.83	222.55	26.005		
10,800.00	7,870.00	7,848.00	7,848.00	90.48	135.99	90.00	-5,431.32	3,262.74	5,688.68	5,466.01	222.67	25.548		
10,900.00	7,870.00	7,848.00	7,848.00	90.31	135.99	90.00	-5,431.32	3,262.74	5,590.03	5,367.23	222.80	25.090		
11,000.00	7,870.00	7,848.00	7,848.00	90.15	135.99	90.00	-5,431.32	3,262.74	5,491.43	5,268.50	222.93	24.633		
11,100.00	7,870.00	7,848.00	7,848.00	90.00	135.99	90.00	-5,431.32	3,262.74	5,392.88	5,169.81	223.07	24.176		
11,200.00	7,870.00	7,848.00	7,848.00	89.88	135.99	90.00	-5,431.32	3,262.74	5,294.39	5,071.18	223.22	23.719		
11,300.00	7,870.00	7,848.00	7,848.00	89.77	135.99	90.00	-5,431.32	3,262.74	5,195.96	4,972.59	223.37	23.262		
11,400.00	7,870.00	7,848.00	7,848.00	89.68	135.99	90.00	-5,431.32	3,262.74	5,097.58	4,874.06	223.52	22.806		
11,500.00	7,870.00	7,848.00	7,848.00	89.60	135.99	90.00	-5,431.32	3,262.74	4,999.27	4,775.59	223.69	22.349		
11,600.00	7,870.00	7,848.00	7,848.00	89.55	135.99	90.00	-5,431.32	3,262.74	4,901.03	4,677.18	223.86	21.894		
11,700.00	7,870.00	7,848.00	7,848.00	89.52	135.99	90.00	-5,431.32	3,262.74	4,802.87	4,578.83	224.04	21.438		
11,800.00	7,870.00	7,848.00	7,848.00	89.50	135.99	90.00	-5,431.32	3,262.74	4,704.77	4,480.55	224.22	20.983		
11,900.00	7,870.00	7,848.00	7,848.00	89.51	135.99	90.00	-5,431.32	3,262.74	4,606.77	4,382.35	224.42	20.528		
12,000.00	7,870.00	7,848.00	7,848.00	89.54	135.99	90.00	-5,431.32	3,262.74	4,508.84	4,284.22	224.62	20.073		
12,100.00	7,870.00	7,848.00	7,848.00	89.59	135.99	90.00	-5,431.32	3,262.74	4,411.02	4,186.18	224.83	19.619		
12,200.00	7,870.00	7,848.00	7,848.00	89.66	135.99	90.00	-5,431.32	3,262.74	4,313.29	4,088.23	225.06	19.165		
12,300.00	7,870.00	7,848.00	7,848.00	89.77	135.99	90.00	-5,431.32	3,262.74	4,215.67	3,990.37	225.29	18.712		
12,400.00	7,870.00	7,848.00	7,848.00	89.89	135.99	90.00	-5,431.32	3,262.74	4,118.16	3,892.62	225.54	18.259		
12,500.00	7,870.00	7,848.00	7,848.00	90.05	135.99	90.00	-5,431.32	3,262.74	4,020.77	3,794.98	225.79	17.807		
12,600.00	7,870.00	7,848.00	7,848.00	90.24	135.99	90.00	-5,431.32	3,262.74	3,923.52	3,697.45	226.07	17.356		
12,700.00	7,870.00	7,848.00	7,848.00	90.46	135.99	90.00	-5,431.32	3,262.74	3,826.40	3,600.05	226.35	16.905		
12,800.00	7,870.00	7,848.00	7,848.00	90.71	135.99	90.00	-5,431.32	3,262.74	3,729.45	3,502.79	226.65	16.455		
12,900.00	7,870.00	7,848.00	7,848.00	90.99	135.99	90.00	-5,431.32	3,262.74	3,632.65	3,405.68	226.97	16.005		
13,000.00	7,870.00	7,848.00	7,848.00	91.32	135.99	90.00	-5,431.32	3,262.74	3,536.03	3,308.73	227.30	15.556		
13,100.00	7,870.00	7,848.00	7,848.00	91.68	135.99	90.00	-5,431.32	3,262.74	3,439.61	3,211.95	227.66	15.109		
13,200.00	7,870.00	7,848.00	7,848.00	92.08	135.99	90.00	-5,431.32	3,262.74	3,343.40	3,115.37	228.03	14.662		
13,300.00	7,870.00	7,848.00	7,848.00	92.52	135.99	90.00	-5,431.32	3,262.74	3,247.41	3,018.99	228.43	14.217		
13,400.00	7,870.00	7,848.00	7,848.00	93.00	135.99	90.00	-5,431.32	3,262.74	3,151.68	2,922.83	228.84	13.772		
13,500.00	7,870.00	7,848.00	7,848.00	93.53	135.99	90.00	-5,431.32	3,262.74	3,056.22	2,826.93	229.29	13.329		
13,600.00	7,870.00	7,848.00	7,848.00	94.10	135.99	90.00	-5,431.32	3,262.74	2,961.05	2,731.29	229.76	12.887		
13,700.00	7,870.00	7,848.00	7,848.00	94.72	135.99	90.00	-5,431.32	3,262.74	2,866.22	2,635.95	230.27	12.447		
13,800.00	7,870.00	7,848.00	7,848.00	95.38	135.99	90.00	-5,431.32	3,262.74	2,771.75	2,540.95	230.80	12.009		
13,900.00	7,870.00	7,848.00	7,848.00	96.09	135.99	90.00	-5,431.32	3,262.74	2,677.69	2,446.31	231.38	11.573		
14,000.00	7,870.00	7,848.00	7,848.00	96.84	135.99	90.00	-5,431.32	3,262.74	2,584.06	2,352.07	231.99	11.139		
14,100.00	7,870.00	7,848.00	7,848.00	97.64	135.99	90.00	-5,431.32	3,262.74	2,490.94	2,258.29	232.65	10.707		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,200.00	7,870.00	7,848.00	7,848.00	98.48	135.99	90.00	-5,431.32	3,262.74	2,398.37	2,165.02	233.35	10.278		
14,300.00	7,870.00	7,848.00	7,848.00	99.37	135.99	90.00	-5,431.32	3,262.74	2,306.41	2,072.31	234.10	9.852		
14,400.00	7,870.00	7,848.00	7,848.00	100.30	135.99	90.00	-5,431.32	3,262.74	2,215.16	1,980.25	234.91	9.430		
14,500.00	7,870.00	7,848.00	7,848.00	101.26	135.99	90.00	-5,431.32	3,262.74	2,124.69	1,888.92	235.77	9.012		
14,600.00	7,870.00	7,848.00	7,848.00	102.27	135.99	90.00	-5,431.32	3,262.74	2,035.12	1,798.41	236.70	8.598		
14,700.00	7,870.00	7,848.00	7,848.00	103.31	135.99	90.00	-5,431.32	3,262.74	1,946.56	1,708.85	237.71	8.189		
14,800.00	7,870.00	7,848.00	7,848.00	104.38	135.99	90.00	-5,431.32	3,262.74	1,859.16	1,620.38	238.78	7.786		
14,900.00	7,870.00	7,848.00	7,848.00	105.49	135.99	90.00	-5,431.32	3,262.74	1,773.09	1,533.16	239.93	7.390		
15,000.00	7,870.00	7,848.00	7,848.00	106.63	135.99	90.00	-5,431.32	3,262.74	1,688.56	1,447.40	241.16	7.002		
15,100.00	7,870.00	7,848.00	7,848.00	107.80	135.99	90.00	-5,431.32	3,262.74	1,605.81	1,363.33	242.48	6.623		
15,200.00	7,870.00	7,848.00	7,848.00	109.00	135.99	90.00	-5,431.32	3,262.74	1,525.13	1,281.26	243.87	6.254		
15,300.00	7,870.00	7,848.00	7,848.00	110.22	135.99	90.00	-5,431.32	3,262.74	1,446.86	1,201.53	245.32	5.898		
15,400.00	7,870.00	7,848.00	7,848.00	111.47	135.99	90.00	-5,431.32	3,262.74	1,371.42	1,124.58	246.84	5.556		
15,500.00	7,870.00	7,848.00	7,848.00	112.74	135.99	90.00	-5,431.32	3,262.74	1,299.30	1,050.92	248.37	5.231		
15,600.00	7,870.00	7,848.00	7,848.00	114.03	135.99	90.00	-5,431.32	3,262.74	1,231.08	981.19	249.89	4.926		
15,700.00	7,870.00	7,848.00	7,848.00	115.34	135.99	90.00	-5,431.32	3,262.74	1,167.45	916.12	251.33	4.645		
15,800.00	7,870.00	7,848.00	7,848.00	116.68	135.99	90.00	-5,431.32	3,262.74	1,109.20	856.61	252.59	4.391		
15,900.00	7,870.00	7,848.00	7,848.00	118.02	135.99	90.00	-5,431.32	3,262.74	1,057.22	803.64	253.57	4.169		
16,000.00	7,870.00	7,848.00	7,848.00	119.39	135.99	90.00	-5,431.32	3,262.74	1,012.47	758.34	254.13	3.984		
16,100.00	7,870.00	7,848.00	7,848.00	120.77	135.99	90.00	-5,431.32	3,262.74	975.95	721.83	254.12	3.841		
16,200.00	7,870.00	7,848.00	7,848.00	122.17	135.99	90.00	-5,431.32	3,262.74	948.61	695.22	253.39	3.744		
16,300.00	7,870.00	7,848.00	7,848.00	123.58	135.99	90.00	-5,431.32	3,262.74	931.26	679.40	251.86	3.697 SF		
16,400.00	7,870.00	7,848.00	7,848.00	125.00	135.99	90.00	-5,431.32	3,262.74	924.47	674.95	249.52	3.705 ES		
16,413.07	7,870.00	7,848.00	7,848.00	125.19	135.99	90.00	-5,431.32	3,262.74	924.37	675.22	249.15	3.710 CC		
16,500.00	7,870.00	7,848.00	7,848.00	126.43	135.99	90.00	-5,431.32	3,262.74	928.45	682.02	246.43	3.768		
16,600.00	7,870.00	7,848.00	7,848.00	127.88	135.99	90.00	-5,431.32	3,262.74	943.08	700.30	242.79	3.884		
16,700.00	7,870.00	7,848.00	7,848.00	129.34	135.99	90.00	-5,431.32	3,262.74	967.88	729.07	238.81	4.053		
16,800.00	7,870.00	7,848.00	7,848.00	130.81	135.99	90.00	-5,431.32	3,262.74	1,002.09	767.34	234.75	4.269		
16,900.00	7,870.00	7,848.00	7,848.00	132.28	135.99	90.00	-5,431.32	3,262.74	1,044.78	813.97	230.81	4.527		
17,000.00	7,870.00	7,848.00	7,848.00	133.77	135.99	90.00	-5,431.32	3,262.74	1,094.97	867.81	227.15	4.820		
17,100.00	7,870.00	7,848.00	7,848.00	135.27	135.99	90.00	-5,431.32	3,262.74	1,151.67	927.79	223.88	5.144		
17,200.00	7,870.00	7,848.00	7,848.00	136.77	135.99	90.00	-5,431.32	3,262.74	1,213.97	992.94	221.03	5.492		
17,300.00	7,870.00	7,848.00	7,848.00	138.28	135.99	90.00	-5,431.32	3,262.74	1,281.06	1,062.46	218.60	5.860		
17,400.00	7,870.00	7,848.00	7,848.00	139.80	135.99	90.00	-5,431.32	3,262.74	1,352.22	1,135.64	216.57	6.244		
17,500.00	7,870.00	7,848.00	7,848.00	141.33	135.99	90.00	-5,431.32	3,262.74	1,426.84	1,211.93	214.91	6.639		
17,600.00	7,870.00	7,848.00	7,848.00	142.86	135.99	90.00	-5,431.32	3,262.74	1,504.41	1,290.86	213.56	7.045		
17,700.00	7,870.00	7,848.00	7,848.00	144.40	135.99	90.00	-5,431.32	3,262.74	1,584.50	1,372.03	212.47	7.457		
17,800.00	7,870.00	7,848.00	7,848.00	145.95	135.99	90.00	-5,431.32	3,262.74	1,666.74	1,455.13	211.62	7.876		
17,900.00	7,870.00	7,848.00	7,848.00	147.50	135.99	90.00	-5,431.32	3,262.74	1,750.83	1,539.89	210.95	8.300		
18,000.00	7,870.00	7,848.00	7,848.00	149.06	135.99	90.00	-5,431.32	3,262.74	1,836.52	1,626.09	210.43	8.727		
18,100.00	7,870.00	7,848.00	7,848.00	150.63	135.99	90.00	-5,431.32	3,262.74	1,923.59	1,713.55	210.04	9.158		
18,200.00	7,870.00	7,848.00	7,848.00	152.20	135.99	90.00	-5,431.32	3,262.74	2,011.86	1,802.10	209.76	9.591		
18,300.00	7,870.00	7,848.00	7,848.00	153.77	135.99	90.00	-5,431.32	3,262.74	2,101.18	1,891.63	209.55	10.027		
18,400.00	7,870.00	7,848.00	7,848.00	155.35	135.99	90.00	-5,431.32	3,262.74	2,191.43	1,982.01	209.42	10.464		
18,500.00	7,870.00	7,848.00	7,848.00	156.93	135.99	90.00	-5,431.32	3,262.74	2,282.48	2,073.14	209.34	10.903		
18,600.00	7,870.00	7,848.00	7,848.00	158.52	135.99	90.00	-5,431.32	3,262.74	2,374.26	2,164.96	209.31	11.344		
18,700.00	7,870.00	7,848.00	7,848.00	160.11	135.99	90.00	-5,431.32	3,262.74	2,466.68	2,257.37	209.31	11.785		
18,800.00	7,870.00	7,848.00	7,848.00	161.71	135.99	90.00	-5,431.32	3,262.74	2,559.67	2,350.33	209.34	12.228		
18,900.00	7,870.00	7,848.00	7,848.00	163.31	135.99	90.00	-5,431.32	3,262.74	2,653.16	2,443.78	209.39	12.671		
19,000.00	7,870.00	7,848.00	7,848.00	164.91	135.99	90.00	-5,431.32	3,262.74	2,747.12	2,537.66	209.46	13.115		
19,100.00	7,870.00	7,848.00	7,848.00	166.52	135.99	90.00	-5,431.32	3,262.74	2,841.49	2,631.94	209.54	13.560		
19,200.00	7,870.00	7,848.00	7,848.00	168.13	135.99	90.00	-5,431.32	3,262.74	2,936.23	2,726.59	209.64	14.006		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,848.00	7,848.00	169.75	135.99	90.00	-5,431.32	3,262.74	3,031.31	2,821.56	209.75	14.452	
19,383.51	7,870.00	7,848.00	7,848.00	171.10	135.99	90.00	-5,431.32	3,262.74	3,110.94	2,901.10	209.84	14.825	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.36	-5,559.11	5,684.21	7,950.81					
100.00	100.00	61.00	61.00	0.13	0.51	134.36	-5,559.11	5,684.21	7,950.72	7,950.08	0.64	N/A		
200.00	200.00	161.00	161.00	0.49	1.89	134.36	-5,559.11	5,684.21	7,950.72	7,948.33	2.39	3,331.425		
300.00	300.00	261.00	261.00	0.85	3.64	134.36	-5,559.11	5,684.21	7,950.72	7,946.23	4.49	1,770.611		
400.00	400.00	361.00	361.00	1.21	5.38	134.36	-5,559.11	5,684.21	7,950.72	7,944.13	6.59	1,205.717		
500.00	500.00	461.00	461.00	1.57	7.13	134.36	-5,559.11	5,684.21	7,950.72	7,942.02	8.70	914.088		
600.00	600.00	561.00	561.00	1.93	8.88	134.36	-5,559.11	5,684.21	7,950.72	7,939.92	10.80	736.056		
700.00	699.98	660.98	660.98	2.28	10.62	70.57	-5,559.11	5,684.21	7,950.14	7,937.24	12.90	616.257		
800.00	799.84	760.84	760.84	2.64	12.36	70.63	-5,559.11	5,684.21	7,948.40	7,933.40	15.00	530.017		
900.00	899.45	860.45	860.45	3.00	14.10	70.75	-5,559.11	5,684.21	7,945.51	7,928.41	17.10	464.783		
1,000.00	998.70	959.70	959.70	3.37	15.83	70.91	-5,559.11	5,684.21	7,941.48	7,922.28	19.20	413.653		
1,100.00	1,097.47	1,058.47	1,058.47	3.76	17.56	71.11	-5,559.11	5,684.21	7,936.33	7,915.02	21.31	372.433		
1,200.00	1,195.62	1,156.62	1,156.62	4.18	19.27	71.36	-5,559.11	5,684.21	7,930.09	7,906.65	23.43	338.438		
1,300.00	1,293.06	1,254.06	1,254.06	4.63	20.97	71.65	-5,559.11	5,684.21	7,922.78	7,897.21	25.57	309.869		
1,400.00	1,389.64	1,350.64	1,350.64	5.11	22.66	71.98	-5,559.11	5,684.21	7,914.44	7,886.72	27.72	285.482		
1,500.00	1,485.27	1,446.27	1,446.27	5.63	24.33	72.35	-5,559.11	5,684.21	7,905.12	7,875.22	29.90	264.387		
1,600.00	1,579.82	1,540.82	1,540.82	6.20	25.98	72.76	-5,559.11	5,684.21	7,894.85	7,862.75	32.10	245.933		
1,700.00	1,673.17	1,634.17	1,634.17	6.83	27.61	73.21	-5,559.11	5,684.21	7,883.69	7,849.35	34.33	229.635		
1,800.00	1,765.21	1,726.21	1,726.21	7.51	29.21	73.69	-5,559.11	5,684.21	7,871.68	7,835.09	36.59	215.122		
1,900.00	1,855.84	1,816.84	1,816.84	8.24	30.79	74.21	-5,559.11	5,684.21	7,858.90	7,820.01	38.88	202.106		
2,000.00	1,944.94	1,905.94	1,905.94	9.05	32.35	74.76	-5,559.11	5,684.21	7,845.39	7,804.18	41.21	190.363		
2,100.00	2,032.39	2,006.61	1,993.39	9.91	34.11	75.34	-5,559.11	5,684.21	7,831.24	7,787.43	43.81	178.766		
2,200.00	2,118.11	2,079.11	2,079.11	10.85	35.37	75.94	-5,559.11	5,684.21	7,816.50	7,770.52	45.98	170.007		
2,300.00	2,201.97	2,162.97	2,162.97	11.85	36.83	76.57	-5,559.11	5,684.21	7,801.25	7,752.84	48.42	161.129		
2,400.00	2,283.88	2,244.88	2,244.88	12.93	38.26	77.22	-5,559.11	5,684.21	7,785.58	7,734.68	50.89	152.980		
2,429.47	2,307.63	2,268.63	2,268.63	13.26	38.68	77.42	-5,559.11	5,684.21	7,780.89	7,729.26	51.63	150.707		
2,500.00	2,364.26	2,325.26	2,325.26	14.06	39.67	77.66	-5,559.11	5,684.21	7,769.73	7,716.33	53.40	145.495		
2,600.00	2,444.56	2,405.56	2,405.56	15.22	41.07	78.01	-5,559.11	5,684.21	7,754.28	7,698.35	55.94	138.628		
2,700.00	2,524.85	2,485.85	2,485.85	16.39	42.47	78.36	-5,559.11	5,684.21	7,739.26	7,680.77	58.49	132.321		
2,800.00	2,605.14	2,566.14	2,566.14	17.57	43.87	78.72	-5,559.11	5,684.21	7,724.67	7,663.61	61.06	126.518		
2,900.00	2,685.43	2,646.43	2,646.43	18.76	45.27	79.07	-5,559.11	5,684.21	7,710.51	7,646.87	63.64	121.164		
3,000.00	2,765.73	2,726.73	2,726.73	19.96	46.67	79.42	-5,559.11	5,684.21	7,696.78	7,630.56	66.23	116.215		
3,100.00	2,846.02	2,807.02	2,807.02	21.16	48.08	79.77	-5,559.11	5,684.21	7,683.50	7,614.67	68.83	111.629		
3,200.00	2,926.31	2,887.31	2,887.31	22.37	49.48	80.13	-5,559.11	5,684.21	7,670.65	7,599.21	71.44	107.371		
3,300.00	3,006.60	2,967.60	2,967.60	23.59	50.88	80.48	-5,559.11	5,684.21	7,658.25	7,584.19	74.06	103.408		
3,400.00	3,086.90	3,047.90	3,047.90	24.81	52.28	80.84	-5,559.11	5,684.21	7,646.29	7,569.61	76.68	99.713		
3,500.00	3,167.19	3,128.19	3,128.19	26.03	53.68	81.20	-5,559.11	5,684.21	7,634.78	7,555.47	79.31	96.261		
3,600.00	3,247.48	3,208.48	3,208.48	27.25	55.08	81.56	-5,559.11	5,684.21	7,623.72	7,541.77	81.95	93.030		
3,700.00	3,327.77	3,288.77	3,288.77	28.48	56.48	81.91	-5,559.11	5,684.21	7,613.11	7,528.52	84.59	90.001		
3,800.00	3,408.07	3,369.07	3,369.07	29.71	57.89	82.27	-5,559.11	5,684.21	7,602.95	7,515.71	87.23	87.157		
3,900.00	3,488.36	3,449.36	3,449.36	30.94	59.29	82.63	-5,559.11	5,684.21	7,593.24	7,503.36	89.88	84.481		
4,000.00	3,568.65	3,529.65	3,529.65	32.17	60.69	82.99	-5,559.11	5,684.21	7,583.99	7,491.46	92.53	81.961		
4,100.00	3,648.95	3,609.95	3,609.95	33.41	62.09	83.35	-5,559.11	5,684.21	7,575.20	7,480.01	95.19	79.583		
4,200.00	3,729.24	3,709.76	3,690.24	34.64	63.83	83.71	-5,559.11	5,684.21	7,566.87	7,468.69	98.18	77.069		
4,300.00	3,809.53	3,770.53	3,770.53	35.88	64.89	84.08	-5,559.11	5,684.21	7,559.00	7,458.50	100.50	75.213		
4,400.00	3,889.82	3,850.82	3,850.82	37.12	66.29	84.44	-5,559.11	5,684.21	7,551.59	7,448.43	103.16	73.202		
4,500.00	3,970.12	3,931.12	3,931.12	38.36	67.69	84.80	-5,559.11	5,684.21	7,544.64	7,438.82	105.82	71.295		
4,600.00	4,050.41	4,011.41	4,011.41	39.60	69.10	85.16	-5,559.11	5,684.21	7,538.16	7,429.68	108.49	69.485		
4,700.00	4,130.70	4,108.30	4,091.70	40.84	70.79	85.53	-5,559.11	5,684.21	7,532.15	7,420.71	111.44	67.590		
4,800.00	4,210.99	4,171.99	4,171.99	42.08	71.90	85.89	-5,559.11	5,684.21	7,526.60	7,412.79	113.81	66.131		
4,900.00	4,291.29	4,252.29	4,252.29	43.32	73.30	86.25	-5,559.11	5,684.21	7,521.52	7,405.04	116.48	64.574		
5,000.00	4,371.58	4,332.58	4,332.58	44.57	74.70	86.62	-5,559.11	5,684.21	7,516.91	7,397.77	119.14	63.091		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,412.87	4,412.87	45.81	76.10	86.98	-5,559.11	5,684.21	7,512.77	7,390.97	121.81	61.677		
5,200.00	4,532.16	4,506.84	4,493.16	47.05	77.74	87.35	-5,559.11	5,684.21	7,509.11	7,384.40	124.71	60.212		
5,300.00	4,612.46	4,573.46	4,573.46	48.30	78.91	87.71	-5,559.11	5,684.21	7,505.91	7,378.77	127.14	59.039		
5,400.00	4,692.75	4,653.75	4,653.75	49.54	80.31	88.08	-5,559.11	5,684.21	7,503.18	7,373.39	129.80	57.807		
5,500.00	4,773.04	4,734.04	4,734.04	50.79	81.71	88.44	-5,559.11	5,684.21	7,500.93	7,368.47	132.46	56.629		
5,600.00	4,853.34	4,814.34	4,814.34	52.03	83.11	88.81	-5,559.11	5,684.21	7,499.15	7,364.04	135.12	55.501		
5,700.00	4,933.63	4,905.37	4,894.63	53.28	84.70	89.18	-5,559.11	5,684.21	7,497.85	7,359.89	137.96	54.347		
5,800.00	5,013.92	4,974.92	4,974.92	54.53	85.91	89.54	-5,559.11	5,684.21	7,497.02	7,356.59	140.43	53.386		
5,900.00	5,094.21	5,055.21	5,055.21	55.77	87.31	89.91	-5,559.11	5,684.21	7,496.66	7,353.58	143.08	52.393		
5,925.44	5,114.64	5,075.64	5,075.64	56.09	87.67	90.00	-5,559.11	5,684.21	7,496.64	7,352.89	143.76	52.147		
6,000.00	5,174.51	5,135.51	5,135.51	57.02	88.72	90.27	-5,559.11	5,684.21	7,496.78	7,351.04	145.74	51.441		
6,100.00	5,254.80	5,215.80	5,215.80	58.27	90.12	90.64	-5,559.11	5,684.21	7,497.37	7,348.98	148.38	50.527		
6,200.00	5,335.09	5,303.91	5,296.09	59.52	91.65	91.00	-5,559.11	5,684.21	7,498.43	7,347.26	151.17	49.604		
6,300.00	5,415.38	5,376.38	5,376.38	60.76	92.92	91.37	-5,559.11	5,684.21	7,499.97	7,346.30	153.67	48.805		
6,400.00	5,495.68	5,425.00	5,425.00	62.01	93.77	91.59	-5,559.11	5,684.21	7,502.05	7,346.29	155.75	48.166		
6,500.00	5,575.97	5,425.00	5,425.00	63.26	93.77	91.59	-5,559.11	5,684.21	7,505.30	7,348.33	156.97	47.814		
6,600.00	5,656.26	5,425.00	5,425.00	64.51	93.77	91.59	-5,559.11	5,684.21	7,509.88	7,351.72	158.16	47.483		
6,700.00	5,736.55	5,425.00	5,425.00	65.76	93.77	91.59	-5,559.11	5,684.21	7,515.79	7,356.47	159.33	47.173		
6,800.00	5,816.85	5,425.00	5,425.00	67.01	93.77	91.59	-5,559.11	5,684.21	7,523.03	7,362.56	160.47	46.881		
6,900.00	5,897.14	5,425.00	5,425.00	68.26	93.77	91.59	-5,559.11	5,684.21	7,531.58	7,369.99	161.59	46.609		
7,000.00	5,977.43	5,425.00	5,425.00	69.50	93.77	91.59	-5,559.11	5,684.21	7,541.46	7,378.77	162.69	46.356		
7,100.00	6,057.72	5,425.00	5,425.00	70.75	93.77	91.59	-5,559.11	5,684.21	7,552.64	7,388.88	163.76	46.121		
7,200.00	6,138.02	5,425.00	5,425.00	72.00	93.77	91.59	-5,559.11	5,684.21	7,565.13	7,400.33	164.80	45.904		
7,300.00	6,218.31	5,425.00	5,425.00	73.25	93.77	91.59	-5,559.11	5,684.21	7,578.92	7,413.09	165.83	45.704		
7,400.00	6,298.60	5,425.00	5,425.00	74.50	93.77	91.59	-5,559.11	5,684.21	7,594.00	7,427.18	166.82	45.522		
7,500.00	6,378.90	5,425.00	5,425.00	75.75	93.77	91.59	-5,559.11	5,684.21	7,610.36	7,442.57	167.79	45.356		
7,600.00	6,459.19	5,425.00	5,425.00	77.00	93.77	91.59	-5,559.11	5,684.21	7,628.00	7,459.27	168.74	45.207		
7,700.00	6,539.48	5,425.00	5,425.00	78.25	93.77	91.59	-5,559.11	5,684.21	7,646.91	7,477.26	169.65	45.074		
7,800.00	6,619.77	5,425.00	5,425.00	79.50	93.77	91.59	-5,559.11	5,684.21	7,667.08	7,496.53	170.55	44.956		
7,900.00	6,700.07	5,425.00	5,425.00	80.75	93.77	91.59	-5,559.11	5,684.21	7,688.49	7,517.07	171.41	44.854		
8,000.00	6,780.36	5,425.00	5,425.00	82.00	93.77	91.59	-5,559.11	5,684.21	7,711.14	7,538.88	172.25	44.766		
8,100.00	6,860.65	5,425.00	5,425.00	83.25	93.77	91.59	-5,559.11	5,684.21	7,735.02	7,561.95	173.07	44.693		
8,200.00	6,940.94	5,425.00	5,425.00	84.50	93.77	91.59	-5,559.11	5,684.21	7,760.11	7,586.25	173.86	44.635		
8,300.00	7,021.24	5,425.00	5,425.00	85.76	93.77	91.59	-5,559.11	5,684.21	7,786.40	7,611.78	174.62	44.590		
8,400.00	7,101.53	5,425.00	5,425.00	87.01	93.77	91.59	-5,559.11	5,684.21	7,813.89	7,638.53	175.36	44.559		
8,500.00	7,181.82	5,425.00	5,425.00	88.26	93.77	91.59	-5,559.11	5,684.21	7,842.56	7,666.49	176.07	44.542		
8,605.60	7,266.61	5,425.00	5,425.00	89.58	93.77	91.59	-5,559.11	5,684.21	7,874.09	7,697.30	176.80	44.538		
8,650.00	7,302.60	5,425.00	5,425.00	90.13	93.77	86.20	-5,559.11	5,684.21	7,886.19	7,709.10	177.09	44.532		
8,700.00	7,343.78	5,425.00	5,425.00	90.72	93.77	79.46	-5,559.11	5,684.21	7,896.33	7,718.93	177.40	44.512		
8,750.00	7,385.32	5,425.00	5,425.00	91.28	93.77	72.24	-5,559.11	5,684.21	7,902.71	7,725.03	177.68	44.477		
8,800.00	7,426.92	5,425.00	5,425.00	91.81	93.77	64.84	-5,559.11	5,684.21	7,905.31	7,727.37	177.94	44.428		
8,850.00	7,468.27	5,425.00	5,425.00	92.29	93.77	57.56	-5,559.11	5,684.21	7,904.10	7,725.95	178.15	44.367		
8,900.00	7,509.04	5,425.00	5,425.00	92.72	93.77	50.65	-5,559.11	5,684.21	7,899.09	7,720.76	178.33	44.294		
8,950.00	7,548.93	5,425.00	5,425.00	93.10	93.77	44.27	-5,559.11	5,684.21	7,890.32	7,711.84	178.47	44.210		
9,000.00	7,587.63	5,425.00	5,425.00	93.43	93.77	38.48	-5,559.11	5,684.21	7,877.83	7,699.26	178.57	44.116		
9,050.00	7,624.85	5,425.00	5,425.00	93.71	93.77	33.26	-5,559.11	5,684.21	7,861.70	7,683.08	178.62	44.013		
9,100.00	7,660.30	5,425.00	5,425.00	93.93	93.77	28.54	-5,559.11	5,684.21	7,842.04	7,663.41	178.64	43.899		
9,150.00	7,693.72	5,425.00	5,425.00	94.10	93.77	24.22	-5,559.11	5,684.21	7,818.97	7,640.36	178.61	43.776		
9,200.00	7,724.85	5,425.00	5,425.00	94.23	93.77	20.20	-5,559.11	5,684.21	7,792.64	7,614.09	178.55	43.645		
9,250.00	7,753.45	5,425.00	5,425.00	94.30	93.77	16.34	-5,559.11	5,684.21	7,763.21	7,584.76	178.45	43.504		
9,300.00	7,779.31	5,425.00	5,425.00	94.34	93.77	12.53	-5,559.11	5,684.21	7,730.87	7,552.54	178.32	43.354		
9,350.00	7,802.23	5,425.00	5,425.00	94.33	93.77	8.61	-5,559.11	5,684.21	7,695.83	7,517.67	178.16	43.195		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	5,425.00	5,425.00	94.28	93.77	4.42	-5,559.11	5,684.21	7,658.33	7,480.35	177.99	43.028		
9,450.00	7,838.57	5,425.00	5,425.00	94.20	93.77	-0.26	-5,559.11	5,684.21	7,618.62	7,440.83	177.79	42.852		
9,500.00	7,851.72	5,425.00	5,425.00	94.10	93.77	-5.69	-5,559.11	5,684.21	7,576.96	7,399.39	177.58	42.669		
9,550.00	7,861.37	5,425.00	5,425.00	93.96	93.77	-12.19	-5,559.11	5,684.21	7,533.65	7,356.30	177.36	42.477		
9,600.00	7,867.46	5,425.00	5,425.00	93.81	93.77	-20.16	-5,559.11	5,684.21	7,488.99	7,311.86	177.13	42.279		
9,650.00	7,869.94	5,425.00	5,425.00	93.64	93.77	-29.91	-5,559.11	5,684.21	7,443.29	7,266.39	176.91	42.074		
9,659.14	7,870.00	5,425.00	5,425.00	93.60	93.77	-31.90	-5,559.11	5,684.21	7,434.86	7,257.99	176.87	42.036		
9,700.00	7,870.00	5,425.00	5,425.00	93.46	93.77	-31.90	-5,559.11	5,684.21	7,397.10	7,220.41	176.69	41.865		
9,800.00	7,870.00	5,425.00	5,425.00	93.11	93.77	-31.90	-5,559.11	5,684.21	7,304.83	7,128.59	176.24	41.449		
9,900.00	7,870.00	5,425.00	5,425.00	92.77	93.77	-31.90	-5,559.11	5,684.21	7,212.76	7,036.99	175.77	41.034		
10,000.00	7,870.00	5,425.00	5,425.00	92.46	93.77	-31.90	-5,559.11	5,684.21	7,120.91	6,945.62	175.30	40.622		
10,100.00	7,870.00	5,425.00	5,425.00	92.16	93.77	-31.90	-5,559.11	5,684.21	7,029.29	6,854.48	174.81	40.211		
10,200.00	7,870.00	5,425.00	5,425.00	91.87	93.77	-31.90	-5,559.11	5,684.21	6,937.89	6,763.58	174.31	39.802		
10,300.00	7,870.00	5,425.00	5,425.00	91.60	93.77	-31.90	-5,559.11	5,684.21	6,846.74	6,672.94	173.80	39.394		
10,400.00	7,870.00	5,425.00	5,425.00	91.34	93.77	-31.90	-5,559.11	5,684.21	6,755.83	6,582.56	173.27	38.990		
10,500.00	7,870.00	5,425.00	5,425.00	91.11	93.77	-31.90	-5,559.11	5,684.21	6,665.19	6,492.46	172.73	38.587		
10,600.00	7,870.00	5,425.00	5,425.00	90.88	93.77	-31.90	-5,559.11	5,684.21	6,574.82	6,402.64	172.18	38.186		
10,700.00	7,870.00	5,425.00	5,425.00	90.67	93.77	-31.90	-5,559.11	5,684.21	6,484.73	6,313.12	171.61	37.788		
10,800.00	7,870.00	5,425.00	5,425.00	90.48	93.77	-31.90	-5,559.11	5,684.21	6,394.93	6,223.90	171.02	37.392		
10,900.00	7,870.00	5,425.00	5,425.00	90.31	93.77	-31.90	-5,559.11	5,684.21	6,305.44	6,135.02	170.42	36.998		
11,000.00	7,870.00	5,425.00	5,425.00	90.15	93.77	-31.90	-5,559.11	5,684.21	6,216.27	6,046.46	169.81	36.607		
11,100.00	7,870.00	5,425.00	5,425.00	90.00	93.77	-31.90	-5,559.11	5,684.21	6,127.44	5,958.26	169.18	36.219		
11,200.00	7,870.00	5,425.00	5,425.00	89.88	93.77	-31.90	-5,559.11	5,684.21	6,038.95	5,870.43	168.53	35.834		
11,300.00	7,870.00	5,425.00	5,425.00	89.77	93.77	-31.90	-5,559.11	5,684.21	5,950.83	5,782.97	167.86	35.451		
11,400.00	7,870.00	5,425.00	5,425.00	89.68	93.77	-31.90	-5,559.11	5,684.21	5,863.10	5,695.92	167.18	35.071		
11,500.00	7,870.00	5,425.00	5,425.00	89.60	93.77	-31.90	-5,559.11	5,684.21	5,775.76	5,609.28	166.47	34.695		
11,600.00	7,870.00	5,425.00	5,425.00	89.55	93.77	-31.90	-5,559.11	5,684.21	5,688.83	5,523.08	165.75	34.321		
11,700.00	7,870.00	5,425.00	5,425.00	89.52	93.77	-31.90	-5,559.11	5,684.21	5,602.35	5,437.33	165.01	33.951		
11,800.00	7,870.00	5,425.00	5,425.00	89.50	93.77	-31.90	-5,559.11	5,684.21	5,516.32	5,352.06	164.25	33.584		
11,900.00	7,870.00	5,425.00	5,425.00	89.51	93.77	-31.90	-5,559.11	5,684.21	5,430.76	5,267.29	163.47	33.221		
12,000.00	7,870.00	5,425.00	5,425.00	89.54	93.77	-31.90	-5,559.11	5,684.21	5,345.71	5,183.04	162.68	32.861		
12,100.00	7,870.00	5,425.00	5,425.00	89.59	93.77	-31.90	-5,559.11	5,684.21	5,261.19	5,099.33	161.86	32.505		
12,200.00	7,870.00	5,425.00	5,425.00	89.66	93.77	-31.90	-5,559.11	5,684.21	5,177.22	5,016.19	161.02	32.152		
12,300.00	7,870.00	5,425.00	5,425.00	89.77	93.77	-31.90	-5,559.11	5,684.21	5,093.82	4,933.66	160.17	31.803		
12,400.00	7,870.00	5,425.00	5,425.00	89.89	93.77	-31.90	-5,559.11	5,684.21	5,011.04	4,851.75	159.29	31.458		
12,500.00	7,870.00	5,425.00	5,425.00	90.05	93.77	-31.90	-5,559.11	5,684.21	4,928.89	4,770.49	158.40	31.117		
12,600.00	7,870.00	5,425.00	5,425.00	90.24	93.77	-31.90	-5,559.11	5,684.21	4,847.41	4,689.93	157.48	30.780		
12,700.00	7,870.00	5,425.00	5,425.00	90.46	93.77	-31.90	-5,559.11	5,684.21	4,766.64	4,610.09	156.55	30.447		
12,800.00	7,870.00	5,425.00	5,425.00	90.71	93.77	-31.90	-5,559.11	5,684.21	4,686.61	4,531.01	155.61	30.118		
12,900.00	7,870.00	5,425.00	5,425.00	90.99	93.77	-31.90	-5,559.11	5,684.21	4,607.37	4,452.72	154.64	29.793		
13,000.00	7,870.00	5,425.00	5,425.00	91.32	93.77	-31.90	-5,559.11	5,684.21	4,528.94	4,375.27	153.67	29.472		
13,100.00	7,870.00	5,425.00	5,425.00	91.68	93.77	-31.90	-5,559.11	5,684.21	4,451.37	4,298.70	152.68	29.155		
13,200.00	7,870.00	5,425.00	5,425.00	92.08	93.77	-31.90	-5,559.11	5,684.21	4,374.72	4,223.04	151.68	28.842		
13,300.00	7,870.00	5,425.00	5,425.00	92.52	93.77	-31.90	-5,559.11	5,684.21	4,299.03	4,148.35	150.68	28.532		
13,400.00	7,870.00	5,425.00	5,425.00	93.00	93.77	-31.90	-5,559.11	5,684.21	4,224.35	4,074.68	149.67	28.225		
13,500.00	7,870.00	5,425.00	5,425.00	93.53	93.77	-31.90	-5,559.11	5,684.21	4,150.73	4,002.08	148.66	27.922		
13,600.00	7,870.00	5,425.00	5,425.00	94.10	93.77	-31.90	-5,559.11	5,684.21	4,078.24	3,930.59	147.65	27.621		
13,700.00	7,870.00	5,425.00	5,425.00	94.72	93.77	-31.90	-5,559.11	5,684.21	4,006.93	3,860.28	146.65	27.323		
13,800.00	7,870.00	5,425.00	5,425.00	95.38	93.77	-31.90	-5,559.11	5,684.21	3,936.87	3,791.20	145.67	27.026		
13,900.00	7,870.00	5,425.00	5,425.00	96.09	93.77	-31.90	-5,559.11	5,684.21	3,868.13	3,723.43	144.70	26.731		
14,000.00	7,870.00	5,425.00	5,425.00	96.84	93.77	-31.90	-5,559.11	5,684.21	3,800.77	3,657.01	143.77	26.437		
14,100.00	7,870.00	5,425.00	5,425.00	97.64	93.77	-31.90	-5,559.11	5,684.21	3,734.88	3,592.02	142.86	26.144		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,425.00	5,425.00	98.48	93.77	-31.90	-5,559.11	5,684.21	3,670.53	3,528.54	141.99	25.850		
14,300.00	7,870.00	5,425.00	5,425.00	99.37	93.77	-31.90	-5,559.11	5,684.21	3,607.81	3,466.63	141.18	25.555		
14,400.00	7,870.00	5,425.00	5,425.00	100.30	93.77	-31.90	-5,559.11	5,684.21	3,546.79	3,406.37	140.42	25.258		
14,500.00	7,870.00	5,425.00	5,425.00	101.26	93.77	-31.90	-5,559.11	5,684.21	3,487.58	3,347.84	139.73	24.959		
14,600.00	7,870.00	5,425.00	5,425.00	102.27	93.77	-31.90	-5,559.11	5,684.21	3,430.26	3,291.14	139.12	24.657		
14,700.00	7,870.00	5,425.00	5,425.00	103.31	93.77	-31.90	-5,559.11	5,684.21	3,374.93	3,236.33	138.59	24.351		
14,800.00	7,870.00	5,425.00	5,425.00	104.38	93.77	-31.90	-5,559.11	5,684.21	3,321.68	3,183.52	138.16	24.041		
14,900.00	7,870.00	5,425.00	5,425.00	105.49	93.77	-31.90	-5,559.11	5,684.21	3,270.63	3,132.79	137.84	23.728		
15,000.00	7,870.00	5,425.00	5,425.00	106.63	93.77	-31.90	-5,559.11	5,684.21	3,221.88	3,084.25	137.63	23.409		
15,100.00	7,870.00	5,425.00	5,425.00	107.80	93.77	-31.90	-5,559.11	5,684.21	3,175.53	3,037.98	137.55	23.086		
15,200.00	7,870.00	5,425.00	5,425.00	109.00	93.77	-31.90	-5,559.11	5,684.21	3,131.68	2,994.08	137.60	22.759		
15,300.00	7,870.00	5,425.00	5,425.00	110.22	93.77	-31.90	-5,559.11	5,684.21	3,090.45	2,952.66	137.79	22.429		
15,400.00	7,870.00	5,425.00	5,425.00	111.47	93.77	-31.90	-5,559.11	5,684.21	3,051.94	2,913.81	138.13	22.095		
15,500.00	7,870.00	5,425.00	5,425.00	112.74	93.77	-31.90	-5,559.11	5,684.21	3,016.26	2,877.63	138.62	21.759		
15,600.00	7,870.00	5,425.00	5,425.00	114.03	93.77	-31.90	-5,559.11	5,684.21	2,983.50	2,844.22	139.28	21.421		
15,700.00	7,870.00	5,425.00	5,425.00	115.34	93.77	-31.90	-5,559.11	5,684.21	2,953.77	2,813.67	140.10	21.084		
15,800.00	7,870.00	5,425.00	5,425.00	116.68	93.77	-31.90	-5,559.11	5,684.21	2,927.15	2,786.07	141.08	20.748		
15,900.00	7,870.00	5,425.00	5,425.00	118.02	93.77	-31.90	-5,559.11	5,684.21	2,903.73	2,761.49	142.24	20.415		
16,000.00	7,870.00	5,425.00	5,425.00	119.39	93.77	-31.90	-5,559.11	5,684.21	2,883.59	2,740.03	143.57	20.085		
16,100.00	7,870.00	5,425.00	5,425.00	120.77	93.77	-31.90	-5,559.11	5,684.21	2,866.81	2,721.74	145.07	19.762		
16,200.00	7,870.00	5,425.00	5,425.00	122.17	93.77	-31.90	-5,559.11	5,684.21	2,853.43	2,706.69	146.73	19.447		
16,300.00	7,870.00	5,425.00	5,425.00	123.58	93.77	-31.90	-5,559.11	5,684.21	2,843.50	2,694.94	148.56	19.140		
16,400.00	7,870.00	5,425.00	5,425.00	125.00	93.77	-31.90	-5,559.11	5,684.21	2,837.07	2,686.52	150.55	18.845		
16,500.00	7,870.00	5,425.00	5,425.00	126.43	93.77	-31.90	-5,559.11	5,684.21	2,834.15	2,681.48	152.67	18.563		
16,532.69	7,870.00	5,425.00	5,425.00	126.91	93.77	-31.90	-5,559.11	5,684.21	2,833.96	2,680.56	153.40	18.474 CC		
16,600.00	7,870.00	5,425.00	5,425.00	127.88	93.77	-31.90	-5,559.11	5,684.21	2,834.76	2,679.83	154.94	18.296 ES		
16,700.00	7,870.00	5,425.00	5,425.00	129.34	93.77	-31.90	-5,559.11	5,684.21	2,838.90	2,681.59	157.31	18.046		
16,800.00	7,870.00	5,425.00	5,425.00	130.81	93.77	-31.90	-5,559.11	5,684.21	2,846.54	2,686.76	159.79	17.814		
16,900.00	7,870.00	5,425.00	5,425.00	132.28	93.77	-31.90	-5,559.11	5,684.21	2,857.67	2,695.33	162.34	17.603		
17,000.00	7,870.00	5,425.00	5,425.00	133.77	93.77	-31.90	-5,559.11	5,684.21	2,872.23	2,707.28	164.95	17.412		
17,100.00	7,870.00	5,425.00	5,425.00	135.27	93.77	-31.90	-5,559.11	5,684.21	2,890.19	2,722.59	167.60	17.245		
17,200.00	7,870.00	5,425.00	5,425.00	136.77	93.77	-31.90	-5,559.11	5,684.21	2,911.47	2,741.21	170.26	17.100		
17,300.00	7,870.00	5,425.00	5,425.00	138.28	93.77	-31.90	-5,559.11	5,684.21	2,936.00	2,763.09	172.92	16.979		
17,400.00	7,870.00	5,425.00	5,425.00	139.80	93.77	-31.90	-5,559.11	5,684.21	2,963.71	2,788.16	175.55	16.883		
17,500.00	7,870.00	5,425.00	5,425.00	141.33	93.77	-31.90	-5,559.11	5,684.21	2,994.50	2,816.37	178.14	16.810		
17,600.00	7,870.00	5,425.00	5,425.00	142.86	93.77	-31.90	-5,559.11	5,684.21	3,028.28	2,847.62	180.66	16.762		
17,700.00	7,870.00	5,425.00	5,425.00	144.40	93.77	-31.90	-5,559.11	5,684.21	3,064.96	2,881.83	183.12	16.737		
17,800.00	7,870.00	5,425.00	5,425.00	145.95	93.77	-31.90	-5,559.11	5,684.21	3,104.42	2,918.92	185.50	16.735 SF		
17,900.00	7,870.00	5,425.00	5,425.00	147.50	93.77	-31.90	-5,559.11	5,684.21	3,146.57	2,958.78	187.79	16.756		
18,000.00	7,870.00	5,425.00	5,425.00	149.06	93.77	-31.90	-5,559.11	5,684.21	3,191.29	3,001.32	189.98	16.798		
18,100.00	7,870.00	5,425.00	5,425.00	150.63	93.77	-31.90	-5,559.11	5,684.21	3,238.49	3,046.42	192.07	16.861		
18,200.00	7,870.00	5,425.00	5,425.00	152.20	93.77	-31.90	-5,559.11	5,684.21	3,288.05	3,094.00	194.05	16.944		
18,300.00	7,870.00	5,425.00	5,425.00	153.77	93.77	-31.90	-5,559.11	5,684.21	3,339.87	3,143.94	195.93	17.046		
18,400.00	7,870.00	5,425.00	5,425.00	155.35	93.77	-31.90	-5,559.11	5,684.21	3,393.85	3,196.14	197.71	17.166		
18,500.00	7,870.00	5,425.00	5,425.00	156.93	93.77	-31.90	-5,559.11	5,684.21	3,449.88	3,250.49	199.38	17.303		
18,600.00	7,870.00	5,425.00	5,425.00	158.52	93.77	-31.90	-5,559.11	5,684.21	3,507.87	3,306.91	200.95	17.456		
18,700.00	7,870.00	5,425.00	5,425.00	160.11	93.77	-31.90	-5,559.11	5,684.21	3,567.71	3,365.28	202.43	17.625		
18,800.00	7,870.00	5,425.00	5,425.00	161.71	93.77	-31.90	-5,559.11	5,684.21	3,629.33	3,425.52	203.81	17.808		
18,900.00	7,870.00	5,425.00	5,425.00	163.31	93.77	-31.90	-5,559.11	5,684.21	3,692.63	3,487.53	205.09	18.004		
19,000.00	7,870.00	5,425.00	5,425.00	164.91	93.77	-31.90	-5,559.11	5,684.21	3,757.52	3,551.23	206.30	18.214		
19,100.00	7,870.00	5,425.00	5,425.00	166.52	93.77	-31.90	-5,559.11	5,684.21	3,823.93	3,616.52	207.41	18.436		
19,200.00	7,870.00	5,425.00	5,425.00	168.13	93.77	-31.90	-5,559.11	5,684.21	3,891.77	3,683.32	208.45	18.670		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,425.00	5,425.00	169.75	93.77	-31.90	-5,559.11	5,684.21	3,960.98	3,751.56	209.42	18.914	
19,383.51	7,870.00	5,425.00	5,425.00	171.10	93.77	-31.90	-5,559.11	5,684.21	4,019.76	3,809.60	210.17	19.126	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.15	-4,237.02	4,364.59	6,083.02					
100.00	100.00	65.00	65.00	0.13	0.51	134.15	-4,237.02	4,364.59	6,082.92	6,082.28	0.64	9,431.816		
200.00	200.00	165.00	165.00	0.49	1.92	134.15	-4,237.02	4,364.59	6,082.92	6,080.51	2.41	2,521.145		
300.00	300.00	265.00	265.00	0.85	3.67	134.15	-4,237.02	4,364.59	6,082.92	6,078.41	4.52	1,346.803		
400.00	400.00	365.00	365.00	1.21	5.41	134.15	-4,237.02	4,364.59	6,082.92	6,076.30	6.62	918.820		
500.00	500.00	465.00	465.00	1.57	7.16	134.15	-4,237.02	4,364.59	6,082.92	6,074.20	8.72	697.250		
600.00	600.00	565.00	565.00	1.93	8.90	134.15	-4,237.02	4,364.59	6,082.92	6,072.09	10.83	561.779		
700.00	699.98	664.98	664.98	2.28	10.65	70.36	-4,237.02	4,364.59	6,082.33	6,069.41	12.93	470.519		
800.00	799.84	764.84	764.84	2.64	12.39	70.44	-4,237.02	4,364.59	6,080.58	6,065.55	15.02	404.760		
900.00	899.45	864.45	864.45	3.00	14.13	70.57	-4,237.02	4,364.59	6,077.66	6,060.54	17.12	354.978		
1,000.00	998.70	963.70	963.70	3.37	15.86	70.75	-4,237.02	4,364.59	6,073.59	6,054.37	19.22	315.929		
1,100.00	1,097.47	1,062.47	1,062.47	3.76	17.58	70.99	-4,237.02	4,364.59	6,068.41	6,047.07	21.34	284.428		
1,200.00	1,195.62	1,160.62	1,160.62	4.18	19.30	71.28	-4,237.02	4,364.59	6,062.14	6,038.68	23.46	258.430		
1,300.00	1,293.06	1,258.06	1,258.06	4.63	21.00	71.61	-4,237.02	4,364.59	6,054.81	6,029.21	25.59	236.569		
1,400.00	1,389.64	1,354.64	1,354.64	5.11	22.68	72.00	-4,237.02	4,364.59	6,046.47	6,018.72	27.75	217.896		
1,500.00	1,485.27	1,450.27	1,450.27	5.63	24.35	72.43	-4,237.02	4,364.59	6,037.17	6,007.24	29.93	201.734		
1,600.00	1,579.82	1,544.82	1,544.82	6.20	26.00	72.90	-4,237.02	4,364.59	6,026.96	5,994.84	32.13	187.587		
1,700.00	1,673.17	1,638.17	1,638.17	6.83	27.63	73.42	-4,237.02	4,364.59	6,015.91	5,981.55	34.36	175.086		
1,800.00	1,765.21	1,730.21	1,730.21	7.51	29.24	73.98	-4,237.02	4,364.59	6,004.09	5,967.46	36.62	163.948		
1,900.00	1,855.84	1,820.84	1,820.84	8.24	30.82	74.58	-4,237.02	4,364.59	5,991.55	5,952.64	38.92	153.956		
2,000.00	1,944.94	1,909.94	1,909.94	9.05	32.37	75.22	-4,237.02	4,364.59	5,978.39	5,937.15	41.25	144.936		
2,100.00	2,032.39	2,002.61	1,997.39	9.91	33.99	75.88	-4,237.02	4,364.59	5,964.69	5,920.98	43.71	136.468		
2,200.00	2,118.11	2,083.11	2,083.11	10.85	35.40	76.58	-4,237.02	4,364.59	5,950.53	5,904.51	46.02	129.295		
2,300.00	2,201.97	2,166.97	2,166.97	11.85	36.86	77.29	-4,237.02	4,364.59	5,936.01	5,887.54	48.47	122.472		
2,400.00	2,283.88	2,248.88	2,248.88	12.93	38.29	78.04	-4,237.02	4,364.59	5,921.22	5,870.26	50.95	116.210		
2,429.47	2,307.63	2,272.63	2,272.63	13.26	38.71	78.26	-4,237.02	4,364.59	5,916.82	5,865.13	51.69	114.464		
2,500.00	2,364.26	2,329.26	2,329.26	14.06	39.69	78.58	-4,237.02	4,364.59	5,906.42	5,852.95	53.47	110.460		
2,600.00	2,444.56	2,409.56	2,409.56	15.22	41.09	79.04	-4,237.02	4,364.59	5,892.17	5,836.15	56.01	105.189		
2,700.00	2,524.85	2,489.85	2,489.85	16.39	42.50	79.50	-4,237.02	4,364.59	5,878.48	5,819.90	58.58	100.353		
2,800.00	2,605.14	2,570.14	2,570.14	17.57	43.90	79.97	-4,237.02	4,364.59	5,865.36	5,804.21	61.16	95.907		
2,900.00	2,685.43	2,650.43	2,650.43	18.76	45.30	80.43	-4,237.02	4,364.59	5,852.83	5,789.08	63.75	91.810		
3,000.00	2,765.73	2,730.73	2,730.73	19.96	46.70	80.90	-4,237.02	4,364.59	5,840.87	5,774.52	66.35	88.028		
3,100.00	2,846.02	2,811.02	2,811.02	21.16	48.10	81.37	-4,237.02	4,364.59	5,829.50	5,760.54	68.97	84.527		
3,200.00	2,926.31	2,908.69	2,891.31	22.37	49.81	81.83	-4,237.02	4,364.59	5,818.72	5,746.83	71.89	80.938		
3,300.00	3,006.60	2,971.60	2,971.60	23.59	50.90	82.30	-4,237.02	4,364.59	5,808.53	5,734.31	74.22	78.264		
3,400.00	3,086.90	3,051.90	3,051.90	24.81	52.31	82.77	-4,237.02	4,364.59	5,798.94	5,722.08	76.85	75.456		
3,500.00	3,167.19	3,132.19	3,132.19	26.03	53.71	83.25	-4,237.02	4,364.59	5,789.94	5,710.45	79.49	72.837		
3,600.00	3,247.48	3,212.48	3,212.48	27.25	55.11	83.72	-4,237.02	4,364.59	5,781.54	5,699.41	82.14	70.389		
3,700.00	3,327.77	3,307.23	3,292.77	28.48	56.76	84.19	-4,237.02	4,364.59	5,773.75	5,688.71	85.04	67.896		
3,800.00	3,408.07	3,373.07	3,373.07	29.71	57.91	84.67	-4,237.02	4,364.59	5,766.56	5,679.12	87.44	65.951		
3,900.00	3,488.36	3,453.36	3,453.36	30.94	59.31	85.14	-4,237.02	4,364.59	5,759.98	5,669.89	90.09	63.935		
4,000.00	3,568.65	3,533.65	3,533.65	32.17	60.71	85.62	-4,237.02	4,364.59	5,754.01	5,661.26	92.75	62.040		
4,100.00	3,648.95	3,613.95	3,613.95	33.41	62.12	86.09	-4,237.02	4,364.59	5,748.65	5,653.25	95.40	60.256		
4,200.00	3,729.24	3,705.76	3,694.24	34.64	63.72	86.57	-4,237.02	4,364.59	5,743.91	5,645.65	98.26	58.454		
4,300.00	3,809.53	3,774.53	3,774.53	35.88	64.92	87.05	-4,237.02	4,364.59	5,739.78	5,639.06	100.72	56.987		
4,400.00	3,889.82	3,854.82	3,854.82	37.12	66.32	87.53	-4,237.02	4,364.59	5,736.27	5,632.89	103.38	55.488		
4,500.00	3,970.12	3,935.12	3,935.12	38.36	67.72	88.00	-4,237.02	4,364.59	5,733.37	5,627.34	106.04	54.071		
4,600.00	4,050.41	4,015.41	4,015.41	39.60	69.12	88.48	-4,237.02	4,364.59	5,731.10	5,622.40	108.69	52.728		
4,700.00	4,130.70	4,104.30	4,095.70	40.84	70.67	88.96	-4,237.02	4,364.59	5,729.44	5,617.94	111.50	51.387		
4,800.00	4,210.99	4,175.99	4,175.99	42.08	71.92	89.44	-4,237.02	4,364.59	5,728.40	5,614.40	114.00	50.250		
4,900.00	4,291.29	4,256.29	4,256.29	43.32	73.33	89.92	-4,237.02	4,364.59	5,727.98	5,611.34	116.65	49.105		
4,917.27	4,305.16	4,270.16	4,270.16	43.54	73.57	90.00	-4,237.02	4,364.59	5,727.97	5,610.87	117.10	48.913		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,371.58	4,336.58	4,336.58	44.57	74.73	90.40	-4,237.02	4,364.59	5,728.19	5,608.89	119.29	48.018		
5,100.00	4,451.87	4,416.87	4,416.87	45.81	76.13	90.87	-4,237.02	4,364.59	5,729.01	5,607.07	121.94	46.983		
5,200.00	4,532.16	4,502.84	4,497.16	47.05	77.63	91.35	-4,237.02	4,364.59	5,730.45	5,605.78	124.68	45.963		
5,300.00	4,612.46	4,577.46	4,577.46	48.30	78.93	91.83	-4,237.02	4,364.59	5,732.52	5,605.30	127.21	45.063		
5,400.00	4,692.75	4,657.75	4,657.75	49.54	80.33	92.31	-4,237.02	4,364.59	5,735.20	5,605.35	129.84	44.170		
5,500.00	4,773.04	4,738.04	4,738.04	50.79	81.73	92.79	-4,237.02	4,364.59	5,738.50	5,606.03	132.47	43.320		
5,600.00	4,853.34	4,818.34	4,818.34	52.03	83.14	93.26	-4,237.02	4,364.59	5,742.41	5,607.32	135.09	42.508		
5,700.00	4,933.63	4,901.37	4,898.63	53.28	84.59	93.74	-4,237.02	4,364.59	5,746.94	5,609.19	137.75	41.719		
5,800.00	5,013.92	4,978.92	4,978.92	54.53	85.94	94.22	-4,237.02	4,364.59	5,752.09	5,611.78	140.31	40.995		
5,900.00	5,094.21	5,059.21	5,059.21	55.77	87.34	94.69	-4,237.02	4,364.59	5,757.85	5,614.93	142.92	40.288		
6,000.00	5,174.51	5,139.51	5,139.51	57.02	88.74	95.17	-4,237.02	4,364.59	5,764.22	5,618.71	145.51	39.613		
6,100.00	5,254.80	5,219.80	5,219.80	58.27	90.14	95.64	-4,237.02	4,364.59	5,771.20	5,623.09	148.10	38.968		
6,200.00	5,335.09	5,300.09	5,300.09	59.52	91.54	96.12	-4,237.02	4,364.59	5,778.78	5,628.10	150.68	38.350		
6,300.00	5,415.38	5,380.38	5,380.38	60.76	92.95	96.59	-4,237.02	4,364.59	5,786.97	5,633.71	153.26	37.759		
6,400.00	5,495.68	5,450.00	5,450.00	62.01	94.16	97.00	-4,237.02	4,364.59	5,795.77	5,640.13	155.64	37.239		
6,500.00	5,575.97	5,450.00	5,450.00	63.26	94.16	97.00	-4,237.02	4,364.59	5,805.86	5,649.10	156.76	37.037		
6,600.00	5,656.26	5,450.00	5,450.00	64.51	94.16	97.00	-4,237.02	4,364.59	5,817.65	5,659.81	157.84	36.857		
6,700.00	5,736.55	5,450.00	5,450.00	65.76	94.16	97.00	-4,237.02	4,364.59	5,831.14	5,672.25	158.89	36.700		
6,800.00	5,816.85	5,450.00	5,450.00	67.01	94.16	97.00	-4,237.02	4,364.59	5,846.30	5,686.41	159.89	36.564		
6,900.00	5,897.14	5,450.00	5,450.00	68.26	94.16	97.00	-4,237.02	4,364.59	5,863.13	5,702.28	160.85	36.450		
7,000.00	5,977.43	5,450.00	5,450.00	69.50	94.16	97.00	-4,237.02	4,364.59	5,881.62	5,719.84	161.78	36.356		
7,100.00	6,057.72	5,450.00	5,450.00	70.75	94.16	97.00	-4,237.02	4,364.59	5,901.74	5,739.08	162.66	36.282		
7,200.00	6,138.02	5,450.00	5,450.00	72.00	94.16	97.00	-4,237.02	4,364.59	5,923.48	5,759.97	163.50	36.228		
7,300.00	6,218.31	5,450.00	5,450.00	73.25	94.16	97.00	-4,237.02	4,364.59	5,946.82	5,782.51	164.31	36.193		
7,400.00	6,298.60	5,450.00	5,450.00	74.50	94.16	97.00	-4,237.02	4,364.59	5,971.75	5,806.68	165.07	36.177		
7,500.00	6,378.90	5,450.00	5,450.00	75.75	94.16	97.00	-4,237.02	4,364.59	5,998.23	5,832.44	165.79	36.179		
7,600.00	6,459.19	5,450.00	5,450.00	77.00	94.16	97.00	-4,237.02	4,364.59	6,026.27	5,859.79	166.48	36.198		
7,700.00	6,539.48	5,450.00	5,450.00	78.25	94.16	97.00	-4,237.02	4,364.59	6,055.82	5,888.70	167.13	36.235		
7,800.00	6,619.77	5,450.00	5,450.00	79.50	94.16	97.00	-4,237.02	4,364.59	6,086.88	5,919.14	167.74	36.289		
7,900.00	6,700.07	5,450.00	5,450.00	80.75	94.16	97.00	-4,237.02	4,364.59	6,119.41	5,951.10	168.31	36.359		
8,000.00	6,780.36	5,450.00	5,450.00	82.00	94.16	97.00	-4,237.02	4,364.59	6,153.39	5,984.55	168.84	36.444		
8,100.00	6,860.65	5,450.00	5,450.00	83.25	94.16	97.00	-4,237.02	4,364.59	6,188.80	6,019.46	169.34	36.546		
8,200.00	6,940.94	5,450.00	5,450.00	84.50	94.16	97.00	-4,237.02	4,364.59	6,225.62	6,055.81	169.81	36.662		
8,300.00	7,021.24	5,450.00	5,450.00	85.76	94.16	97.00	-4,237.02	4,364.59	6,263.82	6,093.58	170.24	36.793		
8,400.00	7,101.53	5,450.00	5,450.00	87.01	94.16	97.00	-4,237.02	4,364.59	6,303.38	6,132.73	170.64	36.939		
8,500.00	7,181.82	5,450.00	5,450.00	88.26	94.16	97.00	-4,237.02	4,364.59	6,344.26	6,173.25	171.01	37.098		
8,605.60	7,266.61	5,450.00	5,450.00	89.58	94.16	97.00	-4,237.02	4,364.59	6,388.84	6,217.48	171.37	37.281		
8,650.00	7,302.60	5,450.00	5,450.00	90.13	94.16	91.66	-4,237.02	4,364.59	6,406.50	6,235.00	171.51	37.354		
8,700.00	7,343.78	5,450.00	5,450.00	90.72	94.16	85.00	-4,237.02	4,364.59	6,422.99	6,251.35	171.64	37.421		
8,750.00	7,385.32	5,450.00	5,450.00	91.28	94.16	77.88	-4,237.02	4,364.59	6,435.78	6,264.02	171.76	37.470		
8,800.00	7,426.92	5,450.00	5,450.00	91.81	94.16	70.61	-4,237.02	4,364.59	6,444.80	6,272.96	171.85	37.503		
8,850.00	7,468.27	5,450.00	5,450.00	92.29	94.16	63.48	-4,237.02	4,364.59	6,450.00	6,278.10	171.91	37.520		
8,900.00	7,509.04	5,450.00	5,450.00	92.72	94.16	56.77	-4,237.02	4,364.59	6,451.35	6,279.42	171.93	37.522		
8,950.00	7,548.93	5,450.00	5,450.00	93.10	94.16	50.63	-4,237.02	4,364.59	6,448.84	6,276.92	171.93	37.510		
9,000.00	7,587.63	5,450.00	5,450.00	93.43	94.16	45.13	-4,237.02	4,364.59	6,442.49	6,270.61	171.88	37.482		
9,050.00	7,624.85	5,450.00	5,450.00	93.71	94.16	40.26	-4,237.02	4,364.59	6,432.33	6,260.52	171.80	37.440		
9,100.00	7,660.30	5,450.00	5,450.00	93.93	94.16	35.96	-4,237.02	4,364.59	6,418.41	6,246.73	171.69	37.384		
9,150.00	7,693.72	5,450.00	5,450.00	94.10	94.16	32.15	-4,237.02	4,364.59	6,400.84	6,229.29	171.54	37.313		
9,200.00	7,724.85	5,450.00	5,450.00	94.23	94.16	28.74	-4,237.02	4,364.59	6,379.70	6,208.33	171.37	37.228		
9,250.00	7,753.45	5,450.00	5,450.00	94.30	94.16	25.64	-4,237.02	4,364.59	6,355.12	6,183.95	171.16	37.129		
9,300.00	7,779.31	5,450.00	5,450.00	94.34	94.16	22.74	-4,237.02	4,364.59	6,327.25	6,156.32	170.94	37.015		
9,350.00	7,802.23	5,450.00	5,450.00	94.33	94.16	19.96	-4,237.02	4,364.59	6,296.27	6,125.58	170.69	36.887		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,400.00	7,822.03	5,450.00	5,450.00	94.28	94.16	17.19	-4,237.02	4,364.59	6,262.36	6,091.93	170.43	36.744		
9,450.00	7,838.57	5,450.00	5,450.00	94.20	94.16	14.30	-4,237.02	4,364.59	6,225.73	6,055.58	170.16	36.588		
9,500.00	7,851.72	5,450.00	5,450.00	94.10	94.16	11.12	-4,237.02	4,364.59	6,186.63	6,016.74	169.88	36.417		
9,550.00	7,861.37	5,450.00	5,450.00	93.96	94.16	7.45	-4,237.02	4,364.59	6,145.30	5,975.68	169.61	36.232		
9,600.00	7,867.46	5,450.00	5,450.00	93.81	94.16	2.94	-4,237.02	4,364.59	6,102.01	5,932.66	169.34	36.033		
9,650.00	7,869.94	5,450.00	5,450.00	93.64	94.16	-2.89	-4,237.02	4,364.59	6,057.05	5,887.96	169.09	35.821		
9,659.14	7,870.00	5,450.00	5,450.00	93.60	94.16	-4.16	-4,237.02	4,364.59	6,048.68	5,879.64	169.05	35.781		
9,700.00	7,870.00	5,450.00	5,450.00	93.46	94.16	-4.16	-4,237.02	4,364.59	6,011.17	5,842.33	168.84	35.602		
9,800.00	7,870.00	5,450.00	5,450.00	93.11	94.16	-4.16	-4,237.02	4,364.59	5,919.56	5,751.22	168.34	35.165		
9,900.00	7,870.00	5,450.00	5,450.00	92.77	94.16	-4.16	-4,237.02	4,364.59	5,828.22	5,660.41	167.81	34.731		
10,000.00	7,870.00	5,450.00	5,450.00	92.46	94.16	-4.16	-4,237.02	4,364.59	5,737.17	5,569.91	167.26	34.300		
10,100.00	7,870.00	5,450.00	5,450.00	92.16	94.16	-4.16	-4,237.02	4,364.59	5,646.42	5,479.73	166.69	33.873		
10,200.00	7,870.00	5,450.00	5,450.00	91.87	94.16	-4.16	-4,237.02	4,364.59	5,556.00	5,389.90	166.10	33.450		
10,300.00	7,870.00	5,450.00	5,450.00	91.60	94.16	-4.16	-4,237.02	4,364.59	5,465.90	5,300.42	165.48	33.030		
10,400.00	7,870.00	5,450.00	5,450.00	91.34	94.16	-4.16	-4,237.02	4,364.59	5,376.16	5,211.32	164.84	32.614		
10,500.00	7,870.00	5,450.00	5,450.00	91.11	94.16	-4.16	-4,237.02	4,364.59	5,286.78	5,122.61	164.17	32.203		
10,600.00	7,870.00	5,450.00	5,450.00	90.88	94.16	-4.16	-4,237.02	4,364.59	5,197.79	5,034.32	163.47	31.796		
10,700.00	7,870.00	5,450.00	5,450.00	90.67	94.16	-4.16	-4,237.02	4,364.59	5,109.21	4,946.46	162.75	31.393		
10,800.00	7,870.00	5,450.00	5,450.00	90.48	94.16	-4.16	-4,237.02	4,364.59	5,021.06	4,859.07	161.99	30.996		
10,900.00	7,870.00	5,450.00	5,450.00	90.31	94.16	-4.16	-4,237.02	4,364.59	4,933.36	4,772.16	161.20	30.605		
11,000.00	7,870.00	5,450.00	5,450.00	90.15	94.16	-4.16	-4,237.02	4,364.59	4,846.13	4,685.76	160.37	30.219		
11,100.00	7,870.00	5,450.00	5,450.00	90.00	94.16	-4.16	-4,237.02	4,364.59	4,759.41	4,599.91	159.50	29.839		
11,200.00	7,870.00	5,450.00	5,450.00	89.88	94.16	-4.16	-4,237.02	4,364.59	4,673.22	4,514.62	158.60	29.465		
11,300.00	7,870.00	5,450.00	5,450.00	89.77	94.16	-4.16	-4,237.02	4,364.59	4,587.59	4,429.93	157.66	29.099		
11,400.00	7,870.00	5,450.00	5,450.00	89.68	94.16	-4.16	-4,237.02	4,364.59	4,502.55	4,345.88	156.67	28.739		
11,500.00	7,870.00	5,450.00	5,450.00	89.60	94.16	-4.16	-4,237.02	4,364.59	4,418.14	4,262.50	155.63	28.388		
11,600.00	7,870.00	5,450.00	5,450.00	89.55	94.16	-4.16	-4,237.02	4,364.59	4,334.39	4,179.84	154.55	28.045		
11,700.00	7,870.00	5,450.00	5,450.00	89.52	94.16	-4.16	-4,237.02	4,364.59	4,251.34	4,097.92	153.42	27.710		
11,800.00	7,870.00	5,450.00	5,450.00	89.50	94.16	-4.16	-4,237.02	4,364.59	4,169.04	4,016.81	152.23	27.386		
11,900.00	7,870.00	5,450.00	5,450.00	89.51	94.16	-4.16	-4,237.02	4,364.59	4,087.53	3,936.54	150.99	27.071		
12,000.00	7,870.00	5,450.00	5,450.00	89.54	94.16	-4.16	-4,237.02	4,364.59	4,006.86	3,857.16	149.69	26.767		
12,100.00	7,870.00	5,450.00	5,450.00	89.59	94.16	-4.16	-4,237.02	4,364.59	3,927.07	3,778.74	148.33	26.475		
12,200.00	7,870.00	5,450.00	5,450.00	89.66	94.16	-4.16	-4,237.02	4,364.59	3,848.23	3,701.33	146.90	26.196		
12,300.00	7,870.00	5,450.00	5,450.00	89.77	94.16	-4.16	-4,237.02	4,364.59	3,770.39	3,624.98	145.41	25.930		
12,400.00	7,870.00	5,450.00	5,450.00	89.89	94.16	-4.16	-4,237.02	4,364.59	3,693.62	3,549.78	143.85	25.678		
12,500.00	7,870.00	5,450.00	5,450.00	90.05	94.16	-4.16	-4,237.02	4,364.59	3,617.99	3,475.78	142.21	25.441		
12,600.00	7,870.00	5,450.00	5,450.00	90.24	94.16	-4.16	-4,237.02	4,364.59	3,543.56	3,403.06	140.50	25.221		
12,700.00	7,870.00	5,450.00	5,450.00	90.46	94.16	-4.16	-4,237.02	4,364.59	3,470.42	3,331.70	138.72	25.018		
12,800.00	7,870.00	5,450.00	5,450.00	90.71	94.16	-4.16	-4,237.02	4,364.59	3,398.65	3,261.80	136.85	24.834		
12,900.00	7,870.00	5,450.00	5,450.00	90.99	94.16	-4.16	-4,237.02	4,364.59	3,328.33	3,193.42	134.91	24.671		
13,000.00	7,870.00	5,450.00	5,450.00	91.32	94.16	-4.16	-4,237.02	4,364.59	3,259.57	3,126.68	132.89	24.529		
13,100.00	7,870.00	5,450.00	5,450.00	91.68	94.16	-4.16	-4,237.02	4,364.59	3,192.46	3,061.67	130.79	24.410		
13,200.00	7,870.00	5,450.00	5,450.00	92.08	94.16	-4.16	-4,237.02	4,364.59	3,127.10	2,998.49	128.61	24.315		
13,300.00	7,870.00	5,450.00	5,450.00	92.52	94.16	-4.16	-4,237.02	4,364.59	3,063.62	2,937.27	126.35	24.247		
13,400.00	7,870.00	5,450.00	5,450.00	93.00	94.16	-4.16	-4,237.02	4,364.59	3,002.12	2,878.10	124.03	24.206		
13,500.00	7,870.00	5,450.00	5,450.00	93.53	94.16	-4.16	-4,237.02	4,364.59	2,942.74	2,821.11	121.63	24.194		
13,600.00	7,870.00	5,450.00	5,450.00	94.10	94.16	-4.16	-4,237.02	4,364.59	2,885.60	2,766.42	119.18	24.212		
13,700.00	7,870.00	5,450.00	5,450.00	94.72	94.16	-4.16	-4,237.02	4,364.59	2,830.85	2,714.17	116.68	24.262		
13,800.00	7,870.00	5,450.00	5,450.00	95.38	94.16	-4.16	-4,237.02	4,364.59	2,778.61	2,664.47	114.14	24.344		
13,900.00	7,870.00	5,450.00	5,450.00	96.09	94.16	-4.16	-4,237.02	4,364.59	2,729.04	2,617.47	111.57	24.460		
14,000.00	7,870.00	5,450.00	5,450.00	96.84	94.16	-4.16	-4,237.02	4,364.59	2,682.29	2,573.29	109.00	24.609		
14,100.00	7,870.00	5,450.00	5,450.00	97.64	94.16	-4.16	-4,237.02	4,364.59	2,638.50	2,532.06	106.43	24.791		

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 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,200.00	7,870.00	5,450.00	5,450.00	98.48	94.16	-4.16	-4,237.02	4,364.59	2,597.82	2,493.92	103.90	25.004		
14,300.00	7,870.00	5,450.00	5,450.00	99.37	94.16	-4.16	-4,237.02	4,364.59	2,560.40	2,458.98	101.42	25.246		
14,400.00	7,870.00	5,450.00	5,450.00	100.30	94.16	-4.16	-4,237.02	4,364.59	2,526.39	2,427.36	99.03	25.512		
14,500.00	7,870.00	5,450.00	5,450.00	101.26	94.16	-4.16	-4,237.02	4,364.59	2,495.92	2,399.16	96.76	25.794		
14,600.00	7,870.00	5,450.00	5,450.00	102.27	94.16	-4.16	-4,237.02	4,364.59	2,469.13	2,374.46	94.66	26.083		
14,700.00	7,870.00	5,450.00	5,450.00	103.31	94.16	-4.16	-4,237.02	4,364.59	2,446.14	2,353.34	92.80	26.360		
14,800.00	7,870.00	5,450.00	5,450.00	104.38	94.16	-4.16	-4,237.02	4,364.59	2,427.05	2,335.82	91.23	26.603		
14,900.00	7,870.00	5,450.00	5,450.00	105.49	94.16	-4.16	-4,237.02	4,364.59	2,411.96	2,321.88	90.08	26.776		
15,000.00	7,870.00	5,450.00	5,450.00	106.63	94.16	-4.16	-4,237.02	4,364.59	2,400.95	2,311.48	89.47	26.836		
15,100.00	7,870.00	5,450.00	5,450.00	107.80	94.16	-4.16	-4,237.02	4,364.59	2,394.06	2,304.52	89.54	26.737		
15,200.00	7,870.00	5,450.00	5,450.00	109.00	94.16	-4.16	-4,237.02	4,364.59	2,391.34	2,300.91	90.44	26.442		
15,215.06	7,870.00	5,450.00	5,450.00	109.18	94.16	-4.16	-4,237.02	4,364.59	2,391.30	2,300.65	90.65	26.381	CC	
15,300.00	7,870.00	5,450.00	5,450.00	110.22	94.16	-4.16	-4,237.02	4,364.59	2,392.81	2,300.61	92.20	25.952	ES	
15,400.00	7,870.00	5,450.00	5,450.00	111.47	94.16	-4.16	-4,237.02	4,364.59	2,398.44	2,303.66	94.78	25.306		
15,500.00	7,870.00	5,450.00	5,450.00	112.74	94.16	-4.16	-4,237.02	4,364.59	2,408.21	2,310.20	98.02	24.570		
15,600.00	7,870.00	5,450.00	5,450.00	114.03	94.16	-4.16	-4,237.02	4,364.59	2,422.08	2,320.35	101.73	23.808		
15,700.00	7,870.00	5,450.00	5,450.00	115.34	94.16	-4.16	-4,237.02	4,364.59	2,439.97	2,334.21	105.76	23.070		
15,800.00	7,870.00	5,450.00	5,450.00	116.68	94.16	-4.16	-4,237.02	4,364.59	2,461.80	2,351.83	109.97	22.386		
15,900.00	7,870.00	5,450.00	5,450.00	118.02	94.16	-4.16	-4,237.02	4,364.59	2,487.46	2,373.21	114.25	21.773		
16,000.00	7,870.00	5,450.00	5,450.00	119.39	94.16	-4.16	-4,237.02	4,364.59	2,516.83	2,398.32	118.51	21.237		
16,100.00	7,870.00	5,450.00	5,450.00	120.77	94.16	-4.16	-4,237.02	4,364.59	2,549.79	2,427.07	122.72	20.778		
16,200.00	7,870.00	5,450.00	5,450.00	122.17	94.16	-4.16	-4,237.02	4,364.59	2,586.20	2,459.38	126.81	20.394		
16,300.00	7,870.00	5,450.00	5,450.00	123.58	94.16	-4.16	-4,237.02	4,364.59	2,625.91	2,495.14	130.77	20.080		
16,400.00	7,870.00	5,450.00	5,450.00	125.00	94.16	-4.16	-4,237.02	4,364.59	2,668.78	2,534.21	134.58	19.831		
16,500.00	7,870.00	5,450.00	5,450.00	126.43	94.16	-4.16	-4,237.02	4,364.59	2,714.66	2,576.45	138.21	19.642		
16,600.00	7,870.00	5,450.00	5,450.00	127.88	94.16	-4.16	-4,237.02	4,364.59	2,763.40	2,621.74	141.66	19.507		
16,700.00	7,870.00	5,450.00	5,450.00	129.34	94.16	-4.16	-4,237.02	4,364.59	2,814.85	2,669.91	144.93	19.422		
16,800.00	7,870.00	5,450.00	5,450.00	130.81	94.16	-4.16	-4,237.02	4,364.59	2,868.86	2,720.84	148.02	19.381	SF	
16,900.00	7,870.00	5,450.00	5,450.00	132.28	94.16	-4.16	-4,237.02	4,364.59	2,925.29	2,774.36	150.93	19.382		
17,000.00	7,870.00	5,450.00	5,450.00	133.77	94.16	-4.16	-4,237.02	4,364.59	2,984.01	2,830.35	153.66	19.419		
17,100.00	7,870.00	5,450.00	5,450.00	135.27	94.16	-4.16	-4,237.02	4,364.59	3,044.88	2,888.66	156.23	19.490		
17,200.00	7,870.00	5,450.00	5,450.00	136.77	94.16	-4.16	-4,237.02	4,364.59	3,107.78	2,949.16	158.63	19.592		
17,300.00	7,870.00	5,450.00	5,450.00	138.28	94.16	-4.16	-4,237.02	4,364.59	3,172.58	3,011.71	160.87	19.721		
17,400.00	7,870.00	5,450.00	5,450.00	139.80	94.16	-4.16	-4,237.02	4,364.59	3,239.18	3,076.21	162.97	19.876		
17,500.00	7,870.00	5,450.00	5,450.00	141.33	94.16	-4.16	-4,237.02	4,364.59	3,307.46	3,142.53	164.93	20.054		
17,600.00	7,870.00	5,450.00	5,450.00	142.86	94.16	-4.16	-4,237.02	4,364.59	3,377.32	3,210.56	166.76	20.253		
17,700.00	7,870.00	5,450.00	5,450.00	144.40	94.16	-4.16	-4,237.02	4,364.59	3,448.66	3,280.20	168.46	20.471		
17,800.00	7,870.00	5,450.00	5,450.00	145.95	94.16	-4.16	-4,237.02	4,364.59	3,521.40	3,351.34	170.05	20.707		
17,900.00	7,870.00	5,450.00	5,450.00	147.50	94.16	-4.16	-4,237.02	4,364.59	3,595.44	3,423.91	171.54	20.960		
18,000.00	7,870.00	5,450.00	5,450.00	149.06	94.16	-4.16	-4,237.02	4,364.59	3,670.72	3,497.80	172.92	21.227		
18,100.00	7,870.00	5,450.00	5,450.00	150.63	94.16	-4.16	-4,237.02	4,364.59	3,747.16	3,572.94	174.22	21.509		
18,200.00	7,870.00	5,450.00	5,450.00	152.20	94.16	-4.16	-4,237.02	4,364.59	3,824.68	3,649.26	175.42	21.803		
18,300.00	7,870.00	5,450.00	5,450.00	153.77	94.16	-4.16	-4,237.02	4,364.59	3,903.23	3,726.68	176.55	22.109		
18,400.00	7,870.00	5,450.00	5,450.00	155.35	94.16	-4.16	-4,237.02	4,364.59	3,982.73	3,805.14	177.60	22.426		
18,500.00	7,870.00	5,450.00	5,450.00	156.93	94.16	-4.16	-4,237.02	4,364.59	4,063.15	3,884.57	178.58	22.753		
18,600.00	7,870.00	5,450.00	5,450.00	158.52	94.16	-4.16	-4,237.02	4,364.59	4,144.41	3,964.92	179.49	23.089		
18,700.00	7,870.00	5,450.00	5,450.00	160.11	94.16	-4.16	-4,237.02	4,364.59	4,226.48	4,046.13	180.35	23.435		
18,800.00	7,870.00	5,450.00	5,450.00	161.71	94.16	-4.16	-4,237.02	4,364.59	4,309.31	4,128.15	181.16	23.788		
18,900.00	7,870.00	5,450.00	5,450.00	163.31	94.16	-4.16	-4,237.02	4,364.59	4,392.85	4,210.94	181.91	24.149		
19,000.00	7,870.00	5,450.00	5,450.00	164.91	94.16	-4.16	-4,237.02	4,364.59	4,477.06	4,294.45	182.61	24.517		
19,100.00	7,870.00	5,450.00	5,450.00	166.52	94.16	-4.16	-4,237.02	4,364.59	4,561.92	4,378.65	183.27	24.892		
19,200.00	7,870.00	5,450.00	5,450.00	168.13	94.16	-4.16	-4,237.02	4,364.59	4,647.37	4,463.48	183.89	25.273		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,450.00	5,450.00	169.75	94.16	-4.16	-4,237.02	4,364.59	4,733.40	4,548.93	184.47	25.659	
19,383.51	7,870.00	5,450.00	5,450.00	171.10	94.16	-4.16	-4,237.02	4,364.59	4,805.65	4,620.72	184.93	25.987	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	141.86	-5,559.38	4,364.82	7,068.21					
100.00	100.00	66.00	66.00	0.13	0.52	141.86	-5,559.38	4,364.82	7,068.13	7,067.47	0.65	N/A		
200.00	200.00	166.00	166.00	0.49	1.94	141.86	-5,559.38	4,364.82	7,068.13	7,065.69	2.43	2,908.436		
300.00	300.00	266.00	266.00	0.85	3.68	141.86	-5,559.38	4,364.82	7,068.13	7,063.59	4.53	1,558.911		
400.00	400.00	366.00	366.00	1.21	5.43	141.86	-5,559.38	4,364.82	7,068.13	7,061.49	6.64	1,064.827		
500.00	500.00	466.00	466.00	1.57	7.17	141.86	-5,559.38	4,364.82	7,068.13	7,059.38	8.74	808.560		
600.00	600.00	566.00	566.00	1.93	8.92	141.86	-5,559.38	4,364.82	7,068.13	7,057.28	10.85	651.715		
700.00	699.98	665.98	665.98	2.28	10.66	78.06	-5,559.38	4,364.82	7,067.76	7,054.82	12.94	546.010		
800.00	799.84	765.84	765.84	2.64	12.41	78.13	-5,559.38	4,364.82	7,066.68	7,051.64	15.04	469.847		
900.00	899.45	865.45	865.45	3.00	14.15	78.23	-5,559.38	4,364.82	7,064.89	7,047.75	17.14	412.196		
1,000.00	998.70	964.70	964.70	3.37	15.88	78.38	-5,559.38	4,364.82	7,062.40	7,043.16	19.24	366.984		
1,100.00	1,097.47	1,063.47	1,063.47	3.76	17.60	78.56	-5,559.38	4,364.82	7,059.24	7,037.88	21.36	330.517		
1,200.00	1,195.62	1,161.62	1,161.62	4.18	19.31	78.78	-5,559.38	4,364.82	7,055.42	7,031.94	23.48	300.430		
1,300.00	1,293.06	1,259.06	1,259.06	4.63	21.01	79.05	-5,559.38	4,364.82	7,050.99	7,025.36	25.63	275.137		
1,400.00	1,389.64	1,355.64	1,355.64	5.11	22.70	79.35	-5,559.38	4,364.82	7,045.97	7,018.18	27.79	253.541		
1,500.00	1,485.27	1,451.27	1,451.27	5.63	24.37	79.68	-5,559.38	4,364.82	7,040.41	7,010.44	29.98	234.858		
1,600.00	1,579.82	1,545.82	1,545.82	6.20	26.02	80.05	-5,559.38	4,364.82	7,034.36	7,002.17	32.19	218.514		
1,700.00	1,673.17	1,639.17	1,639.17	6.83	27.65	80.44	-5,559.38	4,364.82	7,027.87	6,993.44	34.44	204.081		
1,800.00	1,765.21	1,731.21	1,731.21	7.51	29.26	80.87	-5,559.38	4,364.82	7,021.00	6,984.28	36.71	191.232		
1,900.00	1,855.84	1,821.84	1,821.84	8.24	30.84	81.32	-5,559.38	4,364.82	7,013.80	6,974.77	39.03	179.716		
2,000.00	1,944.94	1,910.94	1,910.94	9.05	32.39	81.80	-5,559.38	4,364.82	7,006.34	6,964.96	41.38	169.331		
2,100.00	2,032.39	2,001.61	1,998.39	9.91	33.97	82.29	-5,559.38	4,364.82	6,998.69	6,954.87	43.82	159.716		
2,200.00	2,118.11	2,084.11	2,084.11	10.85	35.41	82.81	-5,559.38	4,364.82	6,990.93	6,944.74	46.19	151.355		
2,300.00	2,201.97	2,167.97	2,167.97	11.85	36.88	83.34	-5,559.38	4,364.82	6,983.12	6,934.46	48.65	143.529		
2,400.00	2,283.88	2,249.88	2,249.88	12.93	38.31	83.88	-5,559.38	4,364.82	6,975.34	6,924.19	51.16	136.355		
2,429.47	2,307.63	2,273.63	2,273.63	13.26	38.72	84.04	-5,559.38	4,364.82	6,973.07	6,921.17	51.90	134.357		
2,500.00	2,364.26	2,330.26	2,330.26	14.06	39.71	84.31	-5,559.38	4,364.82	6,967.77	6,914.08	53.69	129.776		
2,600.00	2,444.56	2,410.56	2,410.56	15.22	41.11	84.71	-5,559.38	4,364.82	6,960.69	6,904.44	56.25	123.749		
2,700.00	2,524.85	2,509.15	2,490.85	16.39	42.83	85.10	-5,559.38	4,364.82	6,954.10	6,894.96	59.14	117.583		
2,800.00	2,605.14	2,571.14	2,571.14	17.57	43.91	85.49	-5,559.38	4,364.82	6,948.03	6,886.62	61.41	113.142		
2,900.00	2,685.43	2,651.43	2,651.43	18.76	45.32	85.89	-5,559.38	4,364.82	6,942.46	6,878.45	64.01	108.464		
3,000.00	2,765.73	2,731.73	2,731.73	19.96	46.72	86.28	-5,559.38	4,364.82	6,937.39	6,870.78	66.61	104.144		
3,100.00	2,846.02	2,812.02	2,812.02	21.16	48.12	86.68	-5,559.38	4,364.82	6,932.84	6,863.61	69.23	100.147		
3,200.00	2,926.31	2,907.69	2,892.31	22.37	49.79	87.07	-5,559.38	4,364.82	6,928.80	6,856.68	72.11	96.081		
3,300.00	3,006.60	2,972.60	2,972.60	23.59	50.92	87.47	-5,559.38	4,364.82	6,925.26	6,850.79	74.47	92.995		
3,400.00	3,086.90	3,052.90	3,052.90	24.81	52.32	87.86	-5,559.38	4,364.82	6,922.24	6,845.14	77.10	89.786		
3,500.00	3,167.19	3,133.19	3,133.19	26.03	53.72	88.26	-5,559.38	4,364.82	6,919.73	6,840.00	79.73	86.792		
3,600.00	3,247.48	3,213.48	3,213.48	27.25	55.13	88.66	-5,559.38	4,364.82	6,917.73	6,835.37	82.36	83.993		
3,700.00	3,327.77	3,306.23	3,293.77	28.48	56.74	89.05	-5,559.38	4,364.82	6,916.25	6,831.04	85.21	81.165		
3,800.00	3,408.07	3,374.07	3,374.07	29.71	57.93	89.45	-5,559.38	4,364.82	6,915.28	6,827.65	87.63	78.914		
3,900.00	3,488.36	3,454.36	3,454.36	30.94	59.33	89.85	-5,559.38	4,364.82	6,914.82	6,824.56	90.27	76.604		
3,938.87	3,519.57	3,485.57	3,485.57	31.42	59.87	90.00	-5,559.38	4,364.82	6,914.79	6,823.49	91.29	75.744		
4,000.00	3,568.65	3,534.65	3,534.65	32.17	60.73	90.24	-5,559.38	4,364.82	6,914.88	6,821.98	92.90	74.431		
4,100.00	3,648.95	3,614.95	3,614.95	33.41	62.13	90.64	-5,559.38	4,364.82	6,915.45	6,819.91	95.54	72.383		
4,200.00	3,729.24	3,704.76	3,695.24	34.64	63.70	91.04	-5,559.38	4,364.82	6,916.54	6,818.20	98.34	70.332		
4,300.00	3,809.53	3,775.53	3,775.53	35.88	64.94	91.43	-5,559.38	4,364.82	6,918.13	6,817.33	100.81	68.626		
4,400.00	3,889.82	3,855.82	3,855.82	37.12	66.34	91.83	-5,559.38	4,364.82	6,920.25	6,816.80	103.44	66.899		
4,500.00	3,970.12	3,936.12	3,936.12	38.36	67.74	92.22	-5,559.38	4,364.82	6,922.87	6,816.80	106.07	65.265		
4,600.00	4,050.41	4,016.41	4,016.41	39.60	69.14	92.62	-5,559.38	4,364.82	6,926.01	6,817.30	108.70	63.715		
4,700.00	4,130.70	4,103.30	4,096.70	40.84	70.66	93.02	-5,559.38	4,364.82	6,929.65	6,818.21	111.44	62.180		
4,800.00	4,210.99	4,176.99	4,176.99	42.08	71.94	93.41	-5,559.38	4,364.82	6,933.81	6,819.86	113.95	60.848		
4,900.00	4,291.29	4,257.29	4,257.29	43.32	73.34	93.81	-5,559.38	4,364.82	6,938.48	6,821.90	116.57	59.520		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,371.58	4,337.58	4,337.58	44.57	74.75	94.20	-5,559.38	4,364.82	6,943.65	6,824.46	119.19	58.256		
5,100.00	4,451.87	4,417.87	4,417.87	45.81	76.15	94.59	-5,559.38	4,364.82	6,949.34	6,827.53	121.80	57.053		
5,200.00	4,532.16	4,501.84	4,498.16	47.05	77.61	94.99	-5,559.38	4,364.82	6,955.53	6,831.05	124.48	55.877		
5,300.00	4,612.46	4,578.46	4,578.46	48.30	78.95	95.38	-5,559.38	4,364.82	6,962.22	6,835.20	127.02	54.812		
5,400.00	4,692.75	4,658.75	4,658.75	49.54	80.35	95.77	-5,559.38	4,364.82	6,969.42	6,839.80	129.62	53.767		
5,500.00	4,773.04	4,739.04	4,739.04	50.79	81.75	96.17	-5,559.38	4,364.82	6,977.12	6,844.90	132.22	52.769		
5,600.00	4,853.34	4,819.34	4,819.34	52.03	83.15	96.56	-5,559.38	4,364.82	6,985.32	6,850.51	134.81	51.815		
5,700.00	4,933.63	4,900.37	4,899.63	53.28	84.57	96.95	-5,559.38	4,364.82	6,994.02	6,856.60	137.41	50.898		
5,800.00	5,013.92	4,979.92	4,979.92	54.53	85.96	97.34	-5,559.38	4,364.82	7,003.21	6,863.23	139.98	50.030		
5,900.00	5,094.21	5,060.21	5,060.21	55.77	87.36	97.73	-5,559.38	4,364.82	7,012.90	6,870.34	142.56	49.193		
6,000.00	5,174.51	5,140.51	5,140.51	57.02	88.76	98.12	-5,559.38	4,364.82	7,023.08	6,877.95	145.13	48.392		
6,100.00	5,254.80	5,220.80	5,220.80	58.27	90.16	98.51	-5,559.38	4,364.82	7,033.76	6,886.06	147.69	47.624		
6,200.00	5,335.09	5,301.09	5,301.09	59.52	91.56	98.89	-5,559.38	4,364.82	7,044.92	6,894.66	150.25	46.887		
6,300.00	5,415.38	5,381.38	5,381.38	60.76	92.96	99.28	-5,559.38	4,364.82	7,056.56	6,903.76	152.81	46.180		
6,400.00	5,495.68	5,460.00	5,460.00	62.01	94.16	99.61	-5,559.38	4,364.82	7,068.70	6,913.56	155.15	45.561		
6,500.00	5,575.97	5,450.00	5,450.00	63.26	94.16	99.61	-5,559.38	4,364.82	7,081.90	6,925.65	156.26	45.322		
6,600.00	5,656.26	5,450.00	5,450.00	64.51	94.16	99.61	-5,559.38	4,364.82	7,096.48	6,939.15	157.34	45.104		
6,700.00	5,736.55	5,450.00	5,450.00	65.76	94.16	99.61	-5,559.38	4,364.82	7,112.44	6,954.05	158.39	44.904		
6,800.00	5,816.85	5,450.00	5,450.00	67.01	94.16	99.61	-5,559.38	4,364.82	7,129.77	6,970.35	159.42	44.724		
6,900.00	5,897.14	5,450.00	5,450.00	68.26	94.16	99.61	-5,559.38	4,364.82	7,148.45	6,988.04	160.41	44.563		
7,000.00	5,977.43	5,450.00	5,450.00	69.50	94.16	99.61	-5,559.38	4,364.82	7,168.48	7,007.10	161.38	44.419		
7,100.00	6,057.72	5,450.00	5,450.00	70.75	94.16	99.61	-5,559.38	4,364.82	7,189.85	7,027.53	162.32	44.294		
7,200.00	6,138.02	5,450.00	5,450.00	72.00	94.16	99.61	-5,559.38	4,364.82	7,212.54	7,049.30	163.23	44.185		
7,300.00	6,218.31	5,450.00	5,450.00	73.25	94.16	99.61	-5,559.38	4,364.82	7,236.54	7,072.42	164.12	44.093		
7,400.00	6,298.60	5,450.00	5,450.00	74.50	94.16	99.61	-5,559.38	4,364.82	7,261.83	7,096.86	164.97	44.018		
7,500.00	6,378.90	5,450.00	5,450.00	75.75	94.16	99.61	-5,559.38	4,364.82	7,288.42	7,122.62	165.80	43.959		
7,600.00	6,459.19	5,450.00	5,450.00	77.00	94.16	99.61	-5,559.38	4,364.82	7,316.27	7,149.67	166.60	43.915		
7,700.00	6,539.48	5,450.00	5,450.00	78.25	94.16	99.61	-5,559.38	4,364.82	7,345.38	7,178.01	167.37	43.887		
7,800.00	6,619.77	5,450.00	5,450.00	79.50	94.16	99.61	-5,559.38	4,364.82	7,375.72	7,207.61	168.11	43.874		
7,900.00	6,700.07	5,450.00	5,450.00	80.75	94.16	99.61	-5,559.38	4,364.82	7,407.30	7,238.47	168.83	43.875		
8,000.00	6,780.36	5,450.00	5,450.00	82.00	94.16	99.61	-5,559.38	4,364.82	7,440.08	7,270.57	169.52	43.890		
8,100.00	6,860.65	5,450.00	5,450.00	83.25	94.16	99.61	-5,559.38	4,364.82	7,474.06	7,303.88	170.18	43.918		
8,200.00	6,940.94	5,450.00	5,450.00	84.50	94.16	99.61	-5,559.38	4,364.82	7,509.22	7,338.40	170.82	43.961		
8,300.00	7,021.24	5,450.00	5,450.00	85.76	94.16	99.61	-5,559.38	4,364.82	7,545.54	7,374.11	171.43	44.016		
8,400.00	7,101.53	5,450.00	5,450.00	87.01	94.16	99.61	-5,559.38	4,364.82	7,583.00	7,410.99	172.01	44.084		
8,500.00	7,181.82	5,450.00	5,450.00	88.26	94.16	99.61	-5,559.38	4,364.82	7,621.59	7,449.02	172.57	44.165		
8,605.60	7,266.61	5,450.00	5,450.00	89.58	94.16	99.61	-5,559.38	4,364.82	7,663.55	7,490.41	173.14	44.263		
8,650.00	7,302.60	5,450.00	5,450.00	90.13	94.16	94.16	-5,559.38	4,364.82	7,680.00	7,506.64	173.36	44.300		
8,700.00	7,343.78	5,450.00	5,450.00	90.72	94.16	87.39	-5,559.38	4,364.82	7,695.01	7,521.40	173.61	44.323		
8,750.00	7,385.32	5,450.00	5,450.00	91.28	94.16	80.18	-5,559.38	4,364.82	7,706.19	7,532.34	173.85	44.328		
8,800.00	7,426.92	5,450.00	5,450.00	91.81	94.16	72.84	-5,559.38	4,364.82	7,713.48	7,539.42	174.06	44.315		
8,850.00	7,468.27	5,450.00	5,450.00	92.29	94.16	65.66	-5,559.38	4,364.82	7,716.83	7,542.58	174.25	44.286		
8,900.00	7,509.04	5,450.00	5,450.00	92.72	94.16	58.91	-5,559.38	4,364.82	7,716.22	7,541.81	174.41	44.241		
8,950.00	7,548.93	5,450.00	5,450.00	93.10	94.16	52.74	-5,559.38	4,364.82	7,711.67	7,537.13	174.54	44.182		
9,000.00	7,587.63	5,450.00	5,450.00	93.43	94.16	47.22	-5,559.38	4,364.82	7,703.19	7,528.55	174.64	44.108		
9,050.00	7,624.85	5,450.00	5,450.00	93.71	94.16	42.34	-5,559.38	4,364.82	7,690.84	7,516.13	174.71	44.021		
9,100.00	7,660.30	5,450.00	5,450.00	93.93	94.16	38.04	-5,559.38	4,364.82	7,674.68	7,499.94	174.74	43.920		
9,150.00	7,693.72	5,450.00	5,450.00	94.10	94.16	34.23	-5,559.38	4,364.82	7,654.84	7,480.09	174.74	43.806		
9,200.00	7,724.85	5,450.00	5,450.00	94.23	94.16	30.83	-5,559.38	4,364.82	7,631.41	7,456.70	174.72	43.679		
9,250.00	7,753.45	5,450.00	5,450.00	94.30	94.16	27.74	-5,559.38	4,364.82	7,604.56	7,429.90	174.66	43.539		
9,300.00	7,779.31	5,450.00	5,450.00	94.34	94.16	24.87	-5,559.38	4,364.82	7,574.45	7,399.87	174.58	43.388		
9,350.00	7,802.23	5,450.00	5,450.00	94.33	94.16	22.10	-5,559.38	4,364.82	7,541.26	7,366.79	174.47	43.223		

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 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	5,450.00	5,450.00	94.28	94.16	19.33	-5,559.38	4,364.82	7,505.23	7,330.88	174.35	43.047		
9,450.00	7,838.57	5,450.00	5,450.00	94.20	94.16	16.40	-5,559.38	4,364.82	7,466.57	7,292.36	174.21	42.860		
9,500.00	7,851.72	5,450.00	5,450.00	94.10	94.16	13.13	-5,559.38	4,364.82	7,425.55	7,251.49	174.06	42.660		
9,550.00	7,861.37	5,450.00	5,450.00	93.96	94.16	9.21	-5,559.38	4,364.82	7,382.44	7,208.54	173.91	42.451		
9,600.00	7,867.46	5,450.00	5,450.00	93.81	94.16	4.19	-5,559.38	4,364.82	7,337.54	7,163.79	173.75	42.230		
9,650.00	7,869.94	5,450.00	5,450.00	93.64	94.16	-2.71	-5,559.38	4,364.82	7,291.15	7,117.56	173.60	42.001		
9,659.14	7,870.00	5,450.00	5,450.00	93.60	94.16	-4.27	-5,559.38	4,364.82	7,282.54	7,108.97	173.57	41.958		
9,700.00	7,870.00	5,450.00	5,450.00	93.46	94.16	-4.27	-5,559.38	4,364.82	7,243.96	7,070.52	173.45	41.765		
9,800.00	7,870.00	5,450.00	5,450.00	93.11	94.16	-4.27	-5,559.38	4,364.82	7,149.65	6,976.51	173.13	41.295		
9,900.00	7,870.00	5,450.00	5,450.00	92.77	94.16	-4.27	-5,559.38	4,364.82	7,055.49	6,882.68	172.81	40.827		
10,000.00	7,870.00	5,450.00	5,450.00	92.46	94.16	-4.27	-5,559.38	4,364.82	6,961.50	6,789.02	172.48	40.361		
10,100.00	7,870.00	5,450.00	5,450.00	92.16	94.16	-4.27	-5,559.38	4,364.82	6,867.68	6,695.54	172.14	39.896		
10,200.00	7,870.00	5,450.00	5,450.00	91.87	94.16	-4.27	-5,559.38	4,364.82	6,774.03	6,602.25	171.79	39.432		
10,300.00	7,870.00	5,450.00	5,450.00	91.60	94.16	-4.27	-5,559.38	4,364.82	6,680.57	6,509.15	171.43	38.971		
10,400.00	7,870.00	5,450.00	5,450.00	91.34	94.16	-4.27	-5,559.38	4,364.82	6,587.30	6,416.25	171.05	38.511		
10,500.00	7,870.00	5,450.00	5,450.00	91.11	94.16	-4.27	-5,559.38	4,364.82	6,494.24	6,323.57	170.66	38.053		
10,600.00	7,870.00	5,450.00	5,450.00	90.88	94.16	-4.27	-5,559.38	4,364.82	6,401.38	6,231.12	170.26	37.598		
10,700.00	7,870.00	5,450.00	5,450.00	90.67	94.16	-4.27	-5,559.38	4,364.82	6,308.73	6,138.89	169.84	37.145		
10,800.00	7,870.00	5,450.00	5,450.00	90.48	94.16	-4.27	-5,559.38	4,364.82	6,216.32	6,046.91	169.41	36.693		
10,900.00	7,870.00	5,450.00	5,450.00	90.31	94.16	-4.27	-5,559.38	4,364.82	6,124.15	5,955.18	168.97	36.245		
11,000.00	7,870.00	5,450.00	5,450.00	90.15	94.16	-4.27	-5,559.38	4,364.82	6,032.22	5,863.72	168.50	35.799		
11,100.00	7,870.00	5,450.00	5,450.00	90.00	94.16	-4.27	-5,559.38	4,364.82	5,940.56	5,772.53	168.03	35.355		
11,200.00	7,870.00	5,450.00	5,450.00	89.88	94.16	-4.27	-5,559.38	4,364.82	5,849.16	5,681.63	167.53	34.914		
11,300.00	7,870.00	5,450.00	5,450.00	89.77	94.16	-4.27	-5,559.38	4,364.82	5,758.06	5,591.04	167.01	34.476		
11,400.00	7,870.00	5,450.00	5,450.00	89.68	94.16	-4.27	-5,559.38	4,364.82	5,667.25	5,500.77	166.48	34.042		
11,500.00	7,870.00	5,450.00	5,450.00	89.60	94.16	-4.27	-5,559.38	4,364.82	5,576.76	5,410.84	165.92	33.610		
11,600.00	7,870.00	5,450.00	5,450.00	89.55	94.16	-4.27	-5,559.38	4,364.82	5,486.60	5,321.25	165.35	33.182		
11,700.00	7,870.00	5,450.00	5,450.00	89.52	94.16	-4.27	-5,559.38	4,364.82	5,396.79	5,232.04	164.75	32.758		
11,800.00	7,870.00	5,450.00	5,450.00	89.50	94.16	-4.27	-5,559.38	4,364.82	5,307.34	5,143.21	164.13	32.337		
11,900.00	7,870.00	5,450.00	5,450.00	89.51	94.16	-4.27	-5,559.38	4,364.82	5,218.27	5,054.79	163.48	31.920		
12,000.00	7,870.00	5,450.00	5,450.00	89.54	94.16	-4.27	-5,559.38	4,364.82	5,129.61	4,966.80	162.80	31.508		
12,100.00	7,870.00	5,450.00	5,450.00	89.59	94.16	-4.27	-5,559.38	4,364.82	5,041.37	4,879.26	162.10	31.100		
12,200.00	7,870.00	5,450.00	5,450.00	89.66	94.16	-4.27	-5,559.38	4,364.82	4,953.57	4,792.20	161.37	30.697		
12,300.00	7,870.00	5,450.00	5,450.00	89.77	94.16	-4.27	-5,559.38	4,364.82	4,866.25	4,705.64	160.61	30.299		
12,400.00	7,870.00	5,450.00	5,450.00	89.89	94.16	-4.27	-5,559.38	4,364.82	4,779.43	4,619.61	159.82	29.906		
12,500.00	7,870.00	5,450.00	5,450.00	90.05	94.16	-4.27	-5,559.38	4,364.82	4,693.13	4,534.14	158.99	29.518		
12,600.00	7,870.00	5,450.00	5,450.00	90.24	94.16	-4.27	-5,559.38	4,364.82	4,607.38	4,449.25	158.13	29.137		
12,700.00	7,870.00	5,450.00	5,450.00	90.46	94.16	-4.27	-5,559.38	4,364.82	4,522.22	4,364.99	157.23	28.762		
12,800.00	7,870.00	5,450.00	5,450.00	90.71	94.16	-4.27	-5,559.38	4,364.82	4,437.68	4,281.39	156.29	28.394		
12,900.00	7,870.00	5,450.00	5,450.00	90.99	94.16	-4.27	-5,559.38	4,364.82	4,353.79	4,198.48	155.31	28.033		
13,000.00	7,870.00	5,450.00	5,450.00	91.32	94.16	-4.27	-5,559.38	4,364.82	4,270.60	4,116.31	154.29	27.679		
13,100.00	7,870.00	5,450.00	5,450.00	91.68	94.16	-4.27	-5,559.38	4,364.82	4,188.14	4,034.92	153.22	27.334		
13,200.00	7,870.00	5,450.00	5,450.00	92.08	94.16	-4.27	-5,559.38	4,364.82	4,106.47	3,954.36	152.11	26.997		
13,300.00	7,870.00	5,450.00	5,450.00	92.52	94.16	-4.27	-5,559.38	4,364.82	4,025.62	3,874.67	150.95	26.669		
13,400.00	7,870.00	5,450.00	5,450.00	93.00	94.16	-4.27	-5,559.38	4,364.82	3,945.64	3,795.90	149.74	26.350		
13,500.00	7,870.00	5,450.00	5,450.00	93.53	94.16	-4.27	-5,559.38	4,364.82	3,866.60	3,718.13	148.47	26.042		
13,600.00	7,870.00	5,450.00	5,450.00	94.10	94.16	-4.27	-5,559.38	4,364.82	3,788.55	3,641.40	147.16	25.745		
13,700.00	7,870.00	5,450.00	5,450.00	94.72	94.16	-4.27	-5,559.38	4,364.82	3,711.56	3,565.77	145.78	25.460		
13,800.00	7,870.00	5,450.00	5,450.00	95.38	94.16	-4.27	-5,559.38	4,364.82	3,635.68	3,491.33	144.35	25.186		
13,900.00	7,870.00	5,450.00	5,450.00	96.09	94.16	-4.27	-5,559.38	4,364.82	3,560.99	3,418.13	142.86	24.926		
14,000.00	7,870.00	5,450.00	5,450.00	96.84	94.16	-4.27	-5,559.38	4,364.82	3,487.58	3,346.27	141.31	24.680		
14,100.00	7,870.00	5,450.00	5,450.00	97.64	94.16	-4.27	-5,559.38	4,364.82	3,415.51	3,275.81	139.70	24.449		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,450.00	5,450.00	98.48	94.16	-4.27	-5,559.38	4,364.82	3,344.88	3,206.85	138.03	24.233		
14,300.00	7,870.00	5,450.00	5,450.00	99.37	94.16	-4.27	-5,559.38	4,364.82	3,275.78	3,139.49	136.30	24.034		
14,400.00	7,870.00	5,450.00	5,450.00	100.30	94.16	-4.27	-5,559.38	4,364.82	3,208.31	3,073.81	134.50	23.853		
14,500.00	7,870.00	5,450.00	5,450.00	101.26	94.16	-4.27	-5,559.38	4,364.82	3,142.58	3,009.92	132.65	23.690		
14,600.00	7,870.00	5,450.00	5,450.00	102.27	94.16	-4.27	-5,559.38	4,364.82	3,078.68	2,947.94	130.75	23.547		
14,700.00	7,870.00	5,450.00	5,450.00	103.31	94.16	-4.27	-5,559.38	4,364.82	3,016.76	2,887.97	128.79	23.425		
14,800.00	7,870.00	5,450.00	5,450.00	104.38	94.16	-4.27	-5,559.38	4,364.82	2,956.91	2,830.14	126.78	23.324		
14,900.00	7,870.00	5,450.00	5,450.00	105.49	94.16	-4.27	-5,559.38	4,364.82	2,899.28	2,774.56	124.72	23.245		
15,000.00	7,870.00	5,450.00	5,450.00	106.63	94.16	-4.27	-5,559.38	4,364.82	2,844.01	2,721.37	122.64	23.191		
15,100.00	7,870.00	5,450.00	5,450.00	107.80	94.16	-4.27	-5,559.38	4,364.82	2,791.22	2,670.70	120.52	23.160		
15,200.00	7,870.00	5,450.00	5,450.00	109.00	94.16	-4.27	-5,559.38	4,364.82	2,741.06	2,622.68	118.38	23.154		
15,300.00	7,870.00	5,450.00	5,450.00	110.22	94.16	-4.27	-5,559.38	4,364.82	2,693.68	2,577.44	116.24	23.174		
15,400.00	7,870.00	5,450.00	5,450.00	111.47	94.16	-4.27	-5,559.38	4,364.82	2,649.23	2,535.14	114.10	23.219		
15,500.00	7,870.00	5,450.00	5,450.00	112.74	94.16	-4.27	-5,559.38	4,364.82	2,607.86	2,495.89	111.98	23.289		
15,600.00	7,870.00	5,450.00	5,450.00	114.03	94.16	-4.27	-5,559.38	4,364.82	2,569.72	2,459.82	109.90	23.383		
15,700.00	7,870.00	5,450.00	5,450.00	115.34	94.16	-4.27	-5,559.38	4,364.82	2,534.95	2,427.07	107.88	23.498		
15,800.00	7,870.00	5,450.00	5,450.00	116.68	94.16	-4.27	-5,559.38	4,364.82	2,503.70	2,397.74	105.95	23.630		
15,900.00	7,870.00	5,450.00	5,450.00	118.02	94.16	-4.27	-5,559.38	4,364.82	2,476.09	2,371.93	104.16	23.773		
16,000.00	7,870.00	5,450.00	5,450.00	119.39	94.16	-4.27	-5,559.38	4,364.82	2,452.25	2,349.71	102.54	23.916		
16,100.00	7,870.00	5,450.00	5,450.00	120.77	94.16	-4.27	-5,559.38	4,364.82	2,432.29	2,331.13	101.17	24.043		
16,200.00	7,870.00	5,450.00	5,450.00	122.17	94.16	-4.27	-5,559.38	4,364.82	2,416.31	2,316.18	100.14	24.130		
16,300.00	7,870.00	5,450.00	5,450.00	123.58	94.16	-4.27	-5,559.38	4,364.82	2,404.39	2,304.82	99.57	24.148		
16,400.00	7,870.00	5,450.00	5,450.00	125.00	94.16	-4.27	-5,559.38	4,364.82	2,396.58	2,296.97	99.61	24.059		
16,500.00	7,870.00	5,450.00	5,450.00	126.43	94.16	-4.27	-5,559.38	4,364.82	2,392.93	2,292.53	100.40	23.833		
16,537.41	7,870.00	5,450.00	5,450.00	126.97	94.16	-4.27	-5,559.38	4,364.82	2,392.64	2,291.73	100.91	23.711 CC		
16,600.00	7,870.00	5,450.00	5,450.00	127.88	94.16	-4.27	-5,559.38	4,364.82	2,393.46	2,291.45	102.01	23.462 ES		
16,700.00	7,870.00	5,450.00	5,450.00	129.34	94.16	-4.27	-5,559.38	4,364.82	2,398.16	2,293.75	104.41	22.968		
16,800.00	7,870.00	5,450.00	5,450.00	130.81	94.16	-4.27	-5,559.38	4,364.82	2,407.01	2,299.53	107.47	22.396		
16,900.00	7,870.00	5,450.00	5,450.00	132.28	94.16	-4.27	-5,559.38	4,364.82	2,419.96	2,308.94	111.02	21.798		
17,000.00	7,870.00	5,450.00	5,450.00	133.77	94.16	-4.27	-5,559.38	4,364.82	2,436.95	2,322.07	114.88	21.213		
17,100.00	7,870.00	5,450.00	5,450.00	135.27	94.16	-4.27	-5,559.38	4,364.82	2,457.89	2,338.97	118.92	20.668		
17,200.00	7,870.00	5,450.00	5,450.00	136.77	94.16	-4.27	-5,559.38	4,364.82	2,482.69	2,359.66	123.03	20.180		
17,300.00	7,870.00	5,450.00	5,450.00	138.28	94.16	-4.27	-5,559.38	4,364.82	2,511.23	2,384.10	127.12	19.754		
17,400.00	7,870.00	5,450.00	5,450.00	139.80	94.16	-4.27	-5,559.38	4,364.82	2,543.38	2,412.23	131.15	19.392		
17,500.00	7,870.00	5,450.00	5,450.00	141.33	94.16	-4.27	-5,559.38	4,364.82	2,579.01	2,443.94	135.07	19.094		
17,600.00	7,870.00	5,450.00	5,450.00	142.86	94.16	-4.27	-5,559.38	4,364.82	2,617.98	2,479.13	138.85	18.854		
17,700.00	7,870.00	5,450.00	5,450.00	144.40	94.16	-4.27	-5,559.38	4,364.82	2,660.14	2,517.66	142.47	18.671		
17,800.00	7,870.00	5,450.00	5,450.00	145.95	94.16	-4.27	-5,559.38	4,364.82	2,705.34	2,559.41	145.92	18.540		
17,900.00	7,870.00	5,450.00	5,450.00	147.50	94.16	-4.27	-5,559.38	4,364.82	2,753.43	2,604.23	149.19	18.455		
18,000.00	7,870.00	5,450.00	5,450.00	149.06	94.16	-4.27	-5,559.38	4,364.82	2,804.26	2,651.98	152.28	18.415		
18,100.00	7,870.00	5,450.00	5,450.00	150.63	94.16	-4.27	-5,559.38	4,364.82	2,857.69	2,702.50	155.19	18.414 SF		
18,200.00	7,870.00	5,450.00	5,450.00	152.20	94.16	-4.27	-5,559.38	4,364.82	2,913.57	2,755.65	157.92	18.450		
18,300.00	7,870.00	5,450.00	5,450.00	153.77	94.16	-4.27	-5,559.38	4,364.82	2,971.77	2,811.30	160.48	18.518		
18,400.00	7,870.00	5,450.00	5,450.00	155.35	94.16	-4.27	-5,559.38	4,364.82	3,032.15	2,869.28	162.87	18.617		
18,500.00	7,870.00	5,450.00	5,450.00	156.93	94.16	-4.27	-5,559.38	4,364.82	3,094.59	2,929.49	165.10	18.744		
18,600.00	7,870.00	5,450.00	5,450.00	158.52	94.16	-4.27	-5,559.38	4,364.82	3,158.95	2,991.77	167.18	18.895		
18,700.00	7,870.00	5,450.00	5,450.00	160.11	94.16	-4.27	-5,559.38	4,364.82	3,225.14	3,056.02	169.12	19.070		
18,800.00	7,870.00	5,450.00	5,450.00	161.71	94.16	-4.27	-5,559.38	4,364.82	3,293.03	3,122.10	170.92	19.266		
18,900.00	7,870.00	5,450.00	5,450.00	163.31	94.16	-4.27	-5,559.38	4,364.82	3,362.52	3,189.92	172.60	19.482		
19,000.00	7,870.00	5,450.00	5,450.00	164.91	94.16	-4.27	-5,559.38	4,364.82	3,433.52	3,259.36	174.16	19.715		
19,100.00	7,870.00	5,450.00	5,450.00	166.52	94.16	-4.27	-5,559.38	4,364.82	3,505.93	3,330.33	175.61	19.965		
19,200.00	7,870.00	5,450.00	5,450.00	168.13	94.16	-4.27	-5,559.38	4,364.82	3,579.68	3,402.72	176.95	20.229		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,450.00	5,450.00	169.75	94.16	-4.27	-5,559.38	4,364.82	3,654.67	3,476.46	178.21	20.508	
19,383.51	7,870.00	5,450.00	5,450.00	171.10	94.16	-4.27	-5,559.38	4,364.82	3,718.19	3,539.01	179.18	20.751	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	126.70	-4,236.75	5,683.62	7,089.25					
100.00	100.00	38.00	38.00	0.13	0.31	126.70	-4,236.75	5,683.62	7,088.98	7,088.54	0.44	N/A		
200.00	200.00	138.00	138.00	0.49	1.47	126.70	-4,236.75	5,683.62	7,088.98	7,087.02	1.96	3,618.717		
300.00	300.00	238.00	238.00	0.85	3.21	126.70	-4,236.75	5,683.62	7,088.98	7,084.92	4.06	1,744.861		
400.00	400.00	338.00	338.00	1.21	4.96	126.70	-4,236.75	5,683.62	7,088.98	7,082.81	6.17	1,149.581		
500.00	500.00	438.00	438.00	1.57	6.70	126.70	-4,236.75	5,683.62	7,088.98	7,080.71	8.27	857.153		
600.00	600.00	538.00	538.00	1.93	8.45	126.70	-4,236.75	5,683.62	7,088.98	7,078.61	10.37	683.329		
700.00	699.98	637.98	637.98	2.28	10.19	62.91	-4,236.75	5,683.62	7,088.18	7,075.71	12.47	568.281		
800.00	799.84	737.84	737.84	2.64	11.94	62.99	-4,236.75	5,683.62	7,085.80	7,071.23	14.57	486.371		
900.00	899.45	837.45	837.45	3.00	13.67	63.12	-4,236.75	5,683.62	7,081.84	7,065.17	16.67	424.913		
1,000.00	998.70	936.70	936.70	3.37	15.41	63.31	-4,236.75	5,683.62	7,076.32	7,057.55	18.77	377.041		
1,100.00	1,097.47	1,035.47	1,035.47	3.76	17.13	63.55	-4,236.75	5,683.62	7,069.25	7,048.37	20.88	338.637		
1,200.00	1,195.62	1,133.62	1,133.62	4.18	18.84	63.84	-4,236.75	5,683.62	7,060.66	7,037.67	22.99	307.092		
1,300.00	1,293.06	1,231.06	1,231.06	4.63	20.54	64.18	-4,236.75	5,683.62	7,050.60	7,025.48	25.12	280.670		
1,400.00	1,389.64	1,327.64	1,327.64	5.11	22.23	64.57	-4,236.75	5,683.62	7,039.09	7,011.82	27.26	258.178		
1,500.00	1,485.27	1,423.27	1,423.27	5.63	23.90	65.02	-4,236.75	5,683.62	7,026.18	6,996.75	29.43	238.766		
1,600.00	1,579.82	1,517.82	1,517.82	6.20	25.55	65.51	-4,236.75	5,683.62	7,011.91	6,980.30	31.61	221.818		
1,700.00	1,673.17	1,611.17	1,611.17	6.83	27.18	66.05	-4,236.75	5,683.62	6,996.36	6,962.54	33.82	206.871		
1,800.00	1,765.21	1,703.21	1,703.21	7.51	28.78	66.64	-4,236.75	5,683.62	6,979.57	6,943.51	36.06	193.577		
1,900.00	1,855.84	1,806.16	1,793.84	8.24	30.58	67.27	-4,236.75	5,683.62	6,961.61	6,923.07	38.54	180.650		
2,000.00	1,944.94	1,882.94	1,882.94	9.05	31.92	67.94	-4,236.75	5,683.62	6,942.55	6,901.93	40.62	170.920		
2,100.00	2,032.39	1,970.39	1,970.39	9.91	33.45	68.65	-4,236.75	5,683.62	6,922.46	6,879.52	42.95	161.178		
2,200.00	2,118.11	2,056.11	2,056.11	10.85	34.94	69.40	-4,236.75	5,683.62	6,901.44	6,856.12	45.31	152.301		
2,300.00	2,201.97	2,139.97	2,139.97	11.85	36.41	70.19	-4,236.75	5,683.62	6,879.56	6,831.84	47.72	144.178		
2,400.00	2,283.88	2,221.88	2,221.88	12.93	37.84	71.01	-4,236.75	5,683.62	6,856.90	6,806.75	50.15	136.719		
2,429.47	2,307.63	2,245.63	2,245.63	13.26	38.25	71.26	-4,236.75	5,683.62	6,850.09	6,799.21	50.88	134.637		
2,500.00	2,364.26	2,302.26	2,302.26	14.06	39.24	71.53	-4,236.75	5,683.62	6,833.83	6,781.21	52.62	129.862		
2,600.00	2,444.56	2,382.56	2,382.56	15.22	40.64	71.92	-4,236.75	5,683.62	6,811.16	6,756.04	55.12	123.569		
2,700.00	2,524.85	2,462.85	2,462.85	16.39	42.04	72.32	-4,236.75	5,683.62	6,788.94	6,731.30	57.64	117.786		
2,800.00	2,605.14	2,543.14	2,543.14	17.57	43.44	72.71	-4,236.75	5,683.62	6,767.17	6,706.99	60.17	112.460		
2,900.00	2,685.43	2,623.43	2,623.43	18.76	44.85	73.11	-4,236.75	5,683.62	6,745.85	6,683.12	62.73	107.545		
3,000.00	2,765.73	2,703.73	2,703.73	19.96	46.25	73.51	-4,236.75	5,683.62	6,725.00	6,659.70	65.29	103.000		
3,100.00	2,846.02	2,784.02	2,784.02	21.16	47.65	73.91	-4,236.75	5,683.62	6,704.61	6,636.74	67.87	98.787		
3,200.00	2,926.31	2,864.31	2,864.31	22.37	49.05	74.31	-4,236.75	5,683.62	6,684.69	6,614.23	70.46	94.874		
3,300.00	3,006.60	2,944.60	2,944.60	23.59	50.45	74.71	-4,236.75	5,683.62	6,665.24	6,592.18	73.06	91.232		
3,400.00	3,086.90	3,024.90	3,024.90	24.81	51.85	75.12	-4,236.75	5,683.62	6,646.27	6,570.60	75.67	87.836		
3,500.00	3,167.19	3,105.19	3,105.19	26.03	53.25	75.53	-4,236.75	5,683.62	6,627.78	6,549.50	78.28	84.663		
3,600.00	3,247.48	3,185.48	3,185.48	27.25	54.65	75.93	-4,236.75	5,683.62	6,609.78	6,528.87	80.91	81.694		
3,700.00	3,327.77	3,265.77	3,265.77	28.48	56.06	76.34	-4,236.75	5,683.62	6,592.27	6,508.73	83.54	78.910		
3,800.00	3,408.07	3,346.07	3,346.07	29.71	57.46	76.75	-4,236.75	5,683.62	6,575.25	6,489.07	86.18	76.296		
3,900.00	3,488.36	3,426.36	3,426.36	30.94	58.86	77.17	-4,236.75	5,683.62	6,558.73	6,469.91	88.83	73.838		
4,000.00	3,568.65	3,506.65	3,506.65	32.17	60.26	77.58	-4,236.75	5,683.62	6,542.71	6,451.24	91.48	71.523		
4,100.00	3,648.95	3,586.95	3,586.95	33.41	61.66	78.00	-4,236.75	5,683.62	6,527.20	6,433.07	94.13	69.340		
4,200.00	3,729.24	3,667.24	3,667.24	34.64	63.06	78.41	-4,236.75	5,683.62	6,512.20	6,415.40	96.79	67.279		
4,300.00	3,809.53	3,747.53	3,747.53	35.88	64.46	78.83	-4,236.75	5,683.62	6,497.70	6,398.24	99.46	65.330		
4,400.00	3,889.82	3,827.82	3,827.82	37.12	65.87	79.25	-4,236.75	5,683.62	6,483.73	6,381.60	102.13	63.486		
4,500.00	3,970.12	3,908.12	3,908.12	38.36	67.27	79.67	-4,236.75	5,683.62	6,470.27	6,365.46	104.80	61.738		
4,600.00	4,050.41	3,988.41	3,988.41	39.60	68.67	80.09	-4,236.75	5,683.62	6,457.33	6,349.85	107.48	60.080		
4,700.00	4,130.70	4,068.70	4,068.70	40.84	70.07	80.51	-4,236.75	5,683.62	6,444.92	6,334.76	110.16	58.506		
4,800.00	4,210.99	4,148.99	4,148.99	42.08	71.47	80.94	-4,236.75	5,683.62	6,433.04	6,320.20	112.84	57.010		
4,900.00	4,291.29	4,229.29	4,229.29	43.32	72.87	81.36	-4,236.75	5,683.62	6,421.69	6,306.16	115.52	55.587		
5,000.00	4,371.58	4,309.58	4,309.58	44.57	74.27	81.78	-4,236.75	5,683.62	6,410.87	6,292.66	118.21	54.232		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,451.87	4,389.87	4,389.87	45.81	75.68	82.21	-4,236.75	5,683.62	6,400.59	6,279.69	120.90	52.942		
5,200.00	4,532.16	4,470.16	4,470.16	47.05	77.08	82.64	-4,236.75	5,683.62	6,390.85	6,267.26	123.59	51.711		
5,300.00	4,612.46	4,550.46	4,550.46	48.30	78.48	83.07	-4,236.75	5,683.62	6,381.65	6,255.37	126.28	50.537		
5,400.00	4,692.75	4,630.75	4,630.75	49.54	79.88	83.49	-4,236.75	5,683.62	6,373.00	6,244.03	128.97	49.415		
5,500.00	4,773.04	4,711.04	4,711.04	50.79	81.28	83.92	-4,236.75	5,683.62	6,364.89	6,233.23	131.66	48.344		
5,600.00	4,853.34	4,808.67	4,791.34	52.03	82.98	84.35	-4,236.75	5,683.62	6,357.33	6,222.68	134.65	47.213		
5,700.00	4,933.63	4,871.63	4,871.63	53.28	84.08	84.78	-4,236.75	5,683.62	6,350.32	6,213.28	137.04	46.340		
5,800.00	5,013.92	4,951.92	4,951.92	54.53	85.48	85.22	-4,236.75	5,683.62	6,343.87	6,204.14	139.73	45.402		
5,900.00	5,094.21	5,032.21	5,032.21	55.77	86.89	85.65	-4,236.75	5,683.62	6,337.96	6,195.55	142.41	44.504		
6,000.00	5,174.51	5,112.51	5,112.51	57.02	88.29	86.08	-4,236.75	5,683.62	6,332.62	6,187.52	145.10	43.643		
6,100.00	5,254.80	5,207.20	5,192.80	58.27	89.94	86.51	-4,236.75	5,683.62	6,327.83	6,179.79	148.04	42.745		
6,200.00	5,335.09	5,273.09	5,273.09	59.52	91.09	86.95	-4,236.75	5,683.62	6,323.60	6,173.13	150.47	42.026		
6,300.00	5,415.38	5,353.38	5,353.38	60.76	92.49	87.38	-4,236.75	5,683.62	6,319.92	6,166.78	153.15	41.267		
6,400.00	5,495.68	5,400.00	5,400.00	62.01	93.31	87.63	-4,236.75	5,683.62	6,316.90	6,161.67	155.23	40.693		
6,500.00	5,575.97	5,400.00	5,400.00	63.26	93.31	87.63	-4,236.75	5,683.62	6,315.29	6,158.81	156.48	40.358		
6,551.80	5,617.56	5,400.00	5,400.00	63.91	93.31	87.63	-4,236.75	5,683.62	6,315.08	6,157.96	157.12	40.193		
6,600.00	5,656.26	5,400.00	5,400.00	64.51	93.31	87.63	-4,236.75	5,683.62	6,315.26	6,157.56	157.70	40.046		
6,700.00	5,736.55	5,400.00	5,400.00	65.76	93.31	87.63	-4,236.75	5,683.62	6,316.82	6,157.93	158.89	39.756		
6,800.00	5,816.85	5,400.00	5,400.00	67.01	93.31	87.63	-4,236.75	5,683.62	6,319.95	6,159.91	160.05	39.488		
6,900.00	5,897.14	5,400.00	5,400.00	68.26	93.31	87.63	-4,236.75	5,683.62	6,324.67	6,163.50	161.17	39.241		
7,000.00	5,977.43	5,400.00	5,400.00	69.50	93.31	87.63	-4,236.75	5,683.62	6,330.96	6,168.70	162.27	39.016		
7,100.00	6,057.72	5,400.00	5,400.00	70.75	93.31	87.63	-4,236.75	5,683.62	6,338.83	6,175.50	163.33	38.811		
7,200.00	6,138.02	5,400.00	5,400.00	72.00	93.31	87.63	-4,236.75	5,683.62	6,348.26	6,183.90	164.35	38.626		
7,300.00	6,218.31	5,400.00	5,400.00	73.25	93.31	87.63	-4,236.75	5,683.62	6,359.25	6,193.90	165.35	38.460		
7,400.00	6,298.60	5,400.00	5,400.00	74.50	93.31	87.63	-4,236.75	5,683.62	6,371.79	6,205.48	166.30	38.314		
7,500.00	6,378.90	5,400.00	5,400.00	75.75	93.31	87.63	-4,236.75	5,683.62	6,385.87	6,218.64	167.22	38.187		
7,600.00	6,459.19	5,400.00	5,400.00	77.00	93.31	87.63	-4,236.75	5,683.62	6,401.48	6,233.37	168.11	38.079		
7,700.00	6,539.48	5,400.00	5,400.00	78.25	93.31	87.63	-4,236.75	5,683.62	6,418.61	6,249.65	168.97	37.988		
7,800.00	6,619.77	5,400.00	5,400.00	79.50	93.31	87.63	-4,236.75	5,683.62	6,437.25	6,267.47	169.78	37.915		
7,900.00	6,700.07	5,400.00	5,400.00	80.75	93.31	87.63	-4,236.75	5,683.62	6,457.39	6,286.82	170.57	37.859		
8,000.00	6,780.36	5,400.00	5,400.00	82.00	93.31	87.63	-4,236.75	5,683.62	6,479.01	6,307.69	171.31	37.820		
8,100.00	6,860.65	5,400.00	5,400.00	83.25	93.31	87.63	-4,236.75	5,683.62	6,502.09	6,330.06	172.03	37.797		
8,200.00	6,940.94	5,400.00	5,400.00	84.50	93.31	87.63	-4,236.75	5,683.62	6,526.62	6,353.92	172.71	37.790		
8,300.00	7,021.24	5,400.00	5,400.00	85.76	93.31	87.63	-4,236.75	5,683.62	6,552.59	6,379.24	173.35	37.799		
8,400.00	7,101.53	5,400.00	5,400.00	87.01	93.31	87.63	-4,236.75	5,683.62	6,579.98	6,406.01	173.96	37.824		
8,500.00	7,181.82	5,400.00	5,400.00	88.26	93.31	87.63	-4,236.75	5,683.62	6,608.76	6,434.22	174.54	37.863		
8,605.60	7,266.61	5,400.00	5,400.00	89.58	93.31	87.63	-4,236.75	5,683.62	6,640.66	6,465.54	175.12	37.921		
8,650.00	7,302.60	5,400.00	5,400.00	90.13	93.31	82.33	-4,236.75	5,683.62	6,653.02	6,477.68	175.34	37.943		
8,700.00	7,343.78	5,400.00	5,400.00	90.72	93.31	75.68	-4,236.75	5,683.62	6,663.61	6,488.05	175.56	37.955		
8,750.00	7,385.32	5,400.00	5,400.00	91.28	93.31	68.52	-4,236.75	5,683.62	6,670.62	6,494.87	175.75	37.954		
8,800.00	7,426.92	5,400.00	5,400.00	91.81	93.31	61.17	-4,236.75	5,683.62	6,674.01	6,498.10	175.90	37.941		
8,850.00	7,468.27	5,400.00	5,400.00	92.29	93.31	53.91	-4,236.75	5,683.62	6,673.74	6,497.73	176.01	37.916		
8,900.00	7,509.04	5,400.00	5,400.00	92.72	93.31	47.02	-4,236.75	5,683.62	6,669.83	6,493.76	176.07	37.881		
8,950.00	7,548.93	5,400.00	5,400.00	93.10	93.31	40.64	-4,236.75	5,683.62	6,662.30	6,486.21	176.09	37.835		
9,000.00	7,587.63	5,400.00	5,400.00	93.43	93.31	34.84	-4,236.75	5,683.62	6,651.20	6,475.14	176.06	37.779		
9,050.00	7,624.85	5,400.00	5,400.00	93.71	93.31	29.59	-4,236.75	5,683.62	6,636.58	6,460.60	175.98	37.712		
9,100.00	7,660.30	5,400.00	5,400.00	93.93	93.31	24.82	-4,236.75	5,683.62	6,618.54	6,442.68	175.86	37.636		
9,150.00	7,693.72	5,400.00	5,400.00	94.10	93.31	20.45	-4,236.75	5,683.62	6,597.19	6,421.50	175.69	37.550		
9,200.00	7,724.85	5,400.00	5,400.00	94.23	93.31	16.37	-4,236.75	5,683.62	6,572.66	6,397.17	175.49	37.453		
9,250.00	7,753.45	5,400.00	5,400.00	94.30	93.31	12.45	-4,236.75	5,683.62	6,545.10	6,369.85	175.25	37.347		
9,300.00	7,779.31	5,400.00	5,400.00	94.34	93.31	8.58	-4,236.75	5,683.62	6,514.69	6,339.70	174.98	37.230		
9,350.00	7,802.23	5,400.00	5,400.00	94.33	93.31	4.63	-4,236.75	5,683.62	6,481.61	6,306.92	174.69	37.103		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1I-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1I-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,822.03	5,400.00	5,400.00	94.28	93.31	0.46	-4,236.75	5,683.62	6,446.08	6,271.70	174.38	36.966		
9,450.00	7,838.57	5,400.00	5,400.00	94.20	93.31	-4.09	-4,236.75	5,683.62	6,408.34	6,234.28	174.05	36.818		
9,500.00	7,851.72	5,400.00	5,400.00	94.10	93.31	-9.23	-4,236.75	5,683.62	6,368.62	6,194.90	173.72	36.661		
9,550.00	7,861.37	5,400.00	5,400.00	93.96	93.31	-15.15	-4,236.75	5,683.62	6,327.21	6,153.83	173.38	36.493		
9,600.00	7,867.46	5,400.00	5,400.00	93.81	93.31	-22.09	-4,236.75	5,683.62	6,284.38	6,111.33	173.05	36.316		
9,650.00	7,869.94	5,400.00	5,400.00	93.64	93.31	-30.18	-4,236.75	5,683.62	6,240.44	6,067.72	172.72	36.129		
9,659.14	7,870.00	5,400.00	5,400.00	93.60	93.31	-31.79	-4,236.75	5,683.62	6,232.32	6,059.65	172.67	36.094		
9,700.00	7,870.00	5,400.00	5,400.00	93.46	93.31	-31.79	-4,236.75	5,683.62	6,195.95	6,023.54	172.41	35.938		
9,800.00	7,870.00	5,400.00	5,400.00	93.11	93.31	-31.79	-4,236.75	5,683.62	6,107.18	5,935.42	171.76	35.556		
9,900.00	7,870.00	5,400.00	5,400.00	92.77	93.31	-31.79	-4,236.75	5,683.62	6,018.77	5,847.68	171.09	35.179		
10,000.00	7,870.00	5,400.00	5,400.00	92.46	93.31	-31.79	-4,236.75	5,683.62	5,930.73	5,760.33	170.40	34.804		
10,100.00	7,870.00	5,400.00	5,400.00	92.16	93.31	-31.79	-4,236.75	5,683.62	5,843.07	5,673.38	169.69	34.433		
10,200.00	7,870.00	5,400.00	5,400.00	91.87	93.31	-31.79	-4,236.75	5,683.62	5,755.82	5,586.86	168.96	34.066		
10,300.00	7,870.00	5,400.00	5,400.00	91.60	93.31	-31.79	-4,236.75	5,683.62	5,668.98	5,500.78	168.21	33.703		
10,400.00	7,870.00	5,400.00	5,400.00	91.34	93.31	-31.79	-4,236.75	5,683.62	5,582.59	5,415.16	167.43	33.344		
10,500.00	7,870.00	5,400.00	5,400.00	91.11	93.31	-31.79	-4,236.75	5,683.62	5,496.65	5,330.03	166.62	32.989		
10,600.00	7,870.00	5,400.00	5,400.00	90.88	93.31	-31.79	-4,236.75	5,683.62	5,411.21	5,245.41	165.79	32.638		
10,700.00	7,870.00	5,400.00	5,400.00	90.67	93.31	-31.79	-4,236.75	5,683.62	5,326.26	5,161.32	164.94	32.292		
10,800.00	7,870.00	5,400.00	5,400.00	90.48	93.31	-31.79	-4,236.75	5,683.62	5,241.85	5,077.79	164.06	31.951		
10,900.00	7,870.00	5,400.00	5,400.00	90.31	93.31	-31.79	-4,236.75	5,683.62	5,158.00	4,994.85	163.15	31.615		
11,000.00	7,870.00	5,400.00	5,400.00	90.15	93.31	-31.79	-4,236.75	5,683.62	5,074.73	4,912.52	162.21	31.284		
11,100.00	7,870.00	5,400.00	5,400.00	90.00	93.31	-31.79	-4,236.75	5,683.62	4,992.07	4,830.83	161.25	30.959		
11,200.00	7,870.00	5,400.00	5,400.00	89.88	93.31	-31.79	-4,236.75	5,683.62	4,910.06	4,749.81	160.25	30.639		
11,300.00	7,870.00	5,400.00	5,400.00	89.77	93.31	-31.79	-4,236.75	5,683.62	4,828.73	4,669.50	159.23	30.325		
11,400.00	7,870.00	5,400.00	5,400.00	89.68	93.31	-31.79	-4,236.75	5,683.62	4,748.12	4,589.94	158.18	30.017		
11,500.00	7,870.00	5,400.00	5,400.00	89.60	93.31	-31.79	-4,236.75	5,683.62	4,668.25	4,511.15	157.10	29.716		
11,600.00	7,870.00	5,400.00	5,400.00	89.55	93.31	-31.79	-4,236.75	5,683.62	4,589.17	4,433.18	155.99	29.420		
11,700.00	7,870.00	5,400.00	5,400.00	89.52	93.31	-31.79	-4,236.75	5,683.62	4,510.92	4,356.07	154.85	29.132		
11,800.00	7,870.00	5,400.00	5,400.00	89.50	93.31	-31.79	-4,236.75	5,683.62	4,433.55	4,279.87	153.68	28.850		
11,900.00	7,870.00	5,400.00	5,400.00	89.51	93.31	-31.79	-4,236.75	5,683.62	4,357.09	4,204.61	152.48	28.575		
12,000.00	7,870.00	5,400.00	5,400.00	89.54	93.31	-31.79	-4,236.75	5,683.62	4,281.61	4,130.35	151.26	28.307		
12,100.00	7,870.00	5,400.00	5,400.00	89.59	93.31	-31.79	-4,236.75	5,683.62	4,207.15	4,057.14	150.01	28.045		
12,200.00	7,870.00	5,400.00	5,400.00	89.66	93.31	-31.79	-4,236.75	5,683.62	4,133.77	3,985.03	148.74	27.791		
12,300.00	7,870.00	5,400.00	5,400.00	89.77	93.31	-31.79	-4,236.75	5,683.62	4,061.53	3,914.07	147.45	27.544		
12,400.00	7,870.00	5,400.00	5,400.00	89.89	93.31	-31.79	-4,236.75	5,683.62	3,990.48	3,844.33	146.15	27.304		
12,500.00	7,870.00	5,400.00	5,400.00	90.05	93.31	-31.79	-4,236.75	5,683.62	3,920.70	3,775.86	144.83	27.071		
12,600.00	7,870.00	5,400.00	5,400.00	90.24	93.31	-31.79	-4,236.75	5,683.62	3,852.24	3,708.74	143.51	26.844		
12,700.00	7,870.00	5,400.00	5,400.00	90.46	93.31	-31.79	-4,236.75	5,683.62	3,785.20	3,643.02	142.18	26.622		
12,800.00	7,870.00	5,400.00	5,400.00	90.71	93.31	-31.79	-4,236.75	5,683.62	3,719.63	3,578.77	140.86	26.407		
12,900.00	7,870.00	5,400.00	5,400.00	90.99	93.31	-31.79	-4,236.75	5,683.62	3,655.62	3,516.07	139.55	26.196		
13,000.00	7,870.00	5,400.00	5,400.00	91.32	93.31	-31.79	-4,236.75	5,683.62	3,593.26	3,454.99	138.26	25.988		
13,100.00	7,870.00	5,400.00	5,400.00	91.68	93.31	-31.79	-4,236.75	5,683.62	3,532.63	3,395.62	137.01	25.784		
13,200.00	7,870.00	5,400.00	5,400.00	92.08	93.31	-31.79	-4,236.75	5,683.62	3,473.81	3,338.02	135.80	25.581		
13,300.00	7,870.00	5,400.00	5,400.00	92.52	93.31	-31.79	-4,236.75	5,683.62	3,416.91	3,282.28	134.63	25.379		
13,400.00	7,870.00	5,400.00	5,400.00	93.00	93.31	-31.79	-4,236.75	5,683.62	3,362.03	3,228.49	133.54	25.176		
13,500.00	7,870.00	5,400.00	5,400.00	93.53	93.31	-31.79	-4,236.75	5,683.62	3,309.26	3,176.73	132.53	24.971		
13,600.00	7,870.00	5,400.00	5,400.00	94.10	93.31	-31.79	-4,236.75	5,683.62	3,258.70	3,127.09	131.60	24.761		
13,700.00	7,870.00	5,400.00	5,400.00	94.72	93.31	-31.79	-4,236.75	5,683.62	3,210.46	3,079.67	130.79	24.547		
13,800.00	7,870.00	5,400.00	5,400.00	95.38	93.31	-31.79	-4,236.75	5,683.62	3,164.64	3,034.55	130.10	24.325		
13,900.00	7,870.00	5,400.00	5,400.00	96.09	93.31	-31.79	-4,236.75	5,683.62	3,121.36	2,991.82	129.54	24.095		
14,000.00	7,870.00	5,400.00	5,400.00	96.84	93.31	-31.79	-4,236.75	5,683.62	3,080.72	2,951.58	129.14	23.856		
14,100.00	7,870.00	5,400.00	5,400.00	97.64	93.31	-31.79	-4,236.75	5,683.62	3,042.82	2,913.93	128.89	23.607		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,400.00	5,400.00	98.48	93.31	-31.79	-4,236.75	5,683.62	3,007.77	2,878.95	128.83	23.347		
14,300.00	7,870.00	5,400.00	5,400.00	99.37	93.31	-31.79	-4,236.75	5,683.62	2,975.67	2,846.73	128.94	23.077		
14,400.00	7,870.00	5,400.00	5,400.00	100.30	93.31	-31.79	-4,236.75	5,683.62	2,946.62	2,817.36	129.26	22.796		
14,500.00	7,870.00	5,400.00	5,400.00	101.26	93.31	-31.79	-4,236.75	5,683.62	2,920.70	2,790.92	129.78	22.506		
14,600.00	7,870.00	5,400.00	5,400.00	102.27	93.31	-31.79	-4,236.75	5,683.62	2,898.00	2,767.50	130.50	22.207		
14,700.00	7,870.00	5,400.00	5,400.00	103.31	93.31	-31.79	-4,236.75	5,683.62	2,878.60	2,747.17	131.44	21.901		
14,800.00	7,870.00	5,400.00	5,400.00	104.38	93.31	-31.79	-4,236.75	5,683.62	2,862.57	2,729.98	132.59	21.590		
14,900.00	7,870.00	5,400.00	5,400.00	105.49	93.31	-31.79	-4,236.75	5,683.62	2,849.95	2,716.01	133.95	21.277		
15,000.00	7,870.00	5,400.00	5,400.00	106.63	93.31	-31.79	-4,236.75	5,683.62	2,840.80	2,705.29	135.51	20.964		
15,100.00	7,870.00	5,400.00	5,400.00	107.80	93.31	-31.79	-4,236.75	5,683.62	2,835.15	2,697.88	137.27	20.654		
15,200.00	7,870.00	5,400.00	5,400.00	109.00	93.31	-31.79	-4,236.75	5,683.62	2,833.02	2,693.80	139.22	20.350		
15,210.34	7,870.00	5,400.00	5,400.00	109.12	93.31	-31.79	-4,236.75	5,683.62	2,833.00	2,693.57	139.43	20.319 CC		
15,300.00	7,870.00	5,400.00	5,400.00	110.22	93.31	-31.79	-4,236.75	5,683.62	2,834.42	2,693.09	141.34	20.055 ES		
15,400.00	7,870.00	5,400.00	5,400.00	111.47	93.31	-31.79	-4,236.75	5,683.62	2,839.34	2,695.74	143.61	19.772		
15,500.00	7,870.00	5,400.00	5,400.00	112.74	93.31	-31.79	-4,236.75	5,683.62	2,847.77	2,701.77	146.01	19.504		
15,600.00	7,870.00	5,400.00	5,400.00	114.03	93.31	-31.79	-4,236.75	5,683.62	2,859.67	2,711.16	148.52	19.255		
15,700.00	7,870.00	5,400.00	5,400.00	115.34	93.31	-31.79	-4,236.75	5,683.62	2,875.01	2,723.89	151.12	19.025		
15,800.00	7,870.00	5,400.00	5,400.00	116.68	93.31	-31.79	-4,236.75	5,683.62	2,893.72	2,739.94	153.78	18.817		
15,900.00	7,870.00	5,400.00	5,400.00	118.02	93.31	-31.79	-4,236.75	5,683.62	2,915.74	2,759.26	156.48	18.634		
16,000.00	7,870.00	5,400.00	5,400.00	119.39	93.31	-31.79	-4,236.75	5,683.62	2,941.00	2,781.80	159.19	18.474		
16,100.00	7,870.00	5,400.00	5,400.00	120.77	93.31	-31.79	-4,236.75	5,683.62	2,969.41	2,807.51	161.90	18.341		
16,200.00	7,870.00	5,400.00	5,400.00	122.17	93.31	-31.79	-4,236.75	5,683.62	3,000.89	2,836.30	164.59	18.233		
16,300.00	7,870.00	5,400.00	5,400.00	123.58	93.31	-31.79	-4,236.75	5,683.62	3,035.34	2,868.11	167.23	18.151		
16,400.00	7,870.00	5,400.00	5,400.00	125.00	93.31	-31.79	-4,236.75	5,683.62	3,072.65	2,902.84	169.81	18.095		
16,500.00	7,870.00	5,400.00	5,400.00	126.43	93.31	-31.79	-4,236.75	5,683.62	3,112.74	2,940.41	172.32	18.063		
16,600.00	7,870.00	5,400.00	5,400.00	127.88	93.31	-31.79	-4,236.75	5,683.62	3,155.48	2,980.72	174.76	18.056 SF		
16,700.00	7,870.00	5,400.00	5,400.00	129.34	93.31	-31.79	-4,236.75	5,683.62	3,200.78	3,023.68	177.10	18.073		
16,800.00	7,870.00	5,400.00	5,400.00	130.81	93.31	-31.79	-4,236.75	5,683.62	3,248.53	3,069.17	179.35	18.112		
16,900.00	7,870.00	5,400.00	5,400.00	132.28	93.31	-31.79	-4,236.75	5,683.62	3,298.61	3,117.11	181.51	18.174		
17,000.00	7,870.00	5,400.00	5,400.00	133.77	93.31	-31.79	-4,236.75	5,683.62	3,350.94	3,167.38	183.56	18.255		
17,100.00	7,870.00	5,400.00	5,400.00	135.27	93.31	-31.79	-4,236.75	5,683.62	3,405.40	3,219.88	185.51	18.357		
17,200.00	7,870.00	5,400.00	5,400.00	136.77	93.31	-31.79	-4,236.75	5,683.62	3,461.89	3,274.52	187.37	18.477		
17,300.00	7,870.00	5,400.00	5,400.00	138.28	93.31	-31.79	-4,236.75	5,683.62	3,520.31	3,331.19	189.12	18.614		
17,400.00	7,870.00	5,400.00	5,400.00	139.80	93.31	-31.79	-4,236.75	5,683.62	3,580.57	3,389.80	190.77	18.769		
17,500.00	7,870.00	5,400.00	5,400.00	141.33	93.31	-31.79	-4,236.75	5,683.62	3,642.59	3,450.25	192.34	18.939		
17,600.00	7,870.00	5,400.00	5,400.00	142.86	93.31	-31.79	-4,236.75	5,683.62	3,706.26	3,512.46	193.81	19.124		
17,700.00	7,870.00	5,400.00	5,400.00	144.40	93.31	-31.79	-4,236.75	5,683.62	3,771.51	3,576.33	195.19	19.323		
17,800.00	7,870.00	5,400.00	5,400.00	145.95	93.31	-31.79	-4,236.75	5,683.62	3,838.26	3,641.78	196.49	19.535		
17,900.00	7,870.00	5,400.00	5,400.00	147.50	93.31	-31.79	-4,236.75	5,683.62	3,906.43	3,708.72	197.70	19.759		
18,000.00	7,870.00	5,400.00	5,400.00	149.06	93.31	-31.79	-4,236.75	5,683.62	3,975.94	3,777.10	198.84	19.995		
18,100.00	7,870.00	5,400.00	5,400.00	150.63	93.31	-31.79	-4,236.75	5,683.62	4,046.73	3,846.82	199.91	20.242		
18,200.00	7,870.00	5,400.00	5,400.00	152.20	93.31	-31.79	-4,236.75	5,683.62	4,118.73	3,917.82	200.91	20.500		
18,300.00	7,870.00	5,400.00	5,400.00	153.77	93.31	-31.79	-4,236.75	5,683.62	4,191.89	3,990.03	201.85	20.767		
18,400.00	7,870.00	5,400.00	5,400.00	155.35	93.31	-31.79	-4,236.75	5,683.62	4,266.13	4,063.40	202.73	21.044		
18,500.00	7,870.00	5,400.00	5,400.00	156.93	93.31	-31.79	-4,236.75	5,683.62	4,341.40	4,137.86	203.54	21.329		
18,600.00	7,870.00	5,400.00	5,400.00	158.52	93.31	-31.79	-4,236.75	5,683.62	4,417.66	4,213.35	204.31	21.622		
18,700.00	7,870.00	5,400.00	5,400.00	160.11	93.31	-31.79	-4,236.75	5,683.62	4,494.84	4,289.82	205.02	21.923		
18,800.00	7,870.00	5,400.00	5,400.00	161.71	93.31	-31.79	-4,236.75	5,683.62	4,572.92	4,367.22	205.69	22.232		
18,900.00	7,870.00	5,400.00	5,400.00	163.31	93.31	-31.79	-4,236.75	5,683.62	4,651.83	4,445.51	206.32	22.547		
19,000.00	7,870.00	5,400.00	5,400.00	164.91	93.31	-31.79	-4,236.75	5,683.62	4,731.54	4,524.64	206.90	22.869		
19,100.00	7,870.00	5,400.00	5,400.00	166.52	93.31	-31.79	-4,236.75	5,683.62	4,812.00	4,604.56	207.44	23.197		
19,200.00	7,870.00	5,400.00	5,400.00	168.13	93.31	-31.79	-4,236.75	5,683.62	4,893.19	4,685.24	207.95	23.530		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	5,400.00	5,400.00	169.75	93.31	-31.79	-4,236.75	5,683.62	4,975.06	4,766.63	208.43	23.870	
19,383.51	7,870.00	5,400.00	5,400.00	171.10	93.31	-31.79	-4,236.75	5,683.62	5,043.93	4,835.13	208.80	24.157	

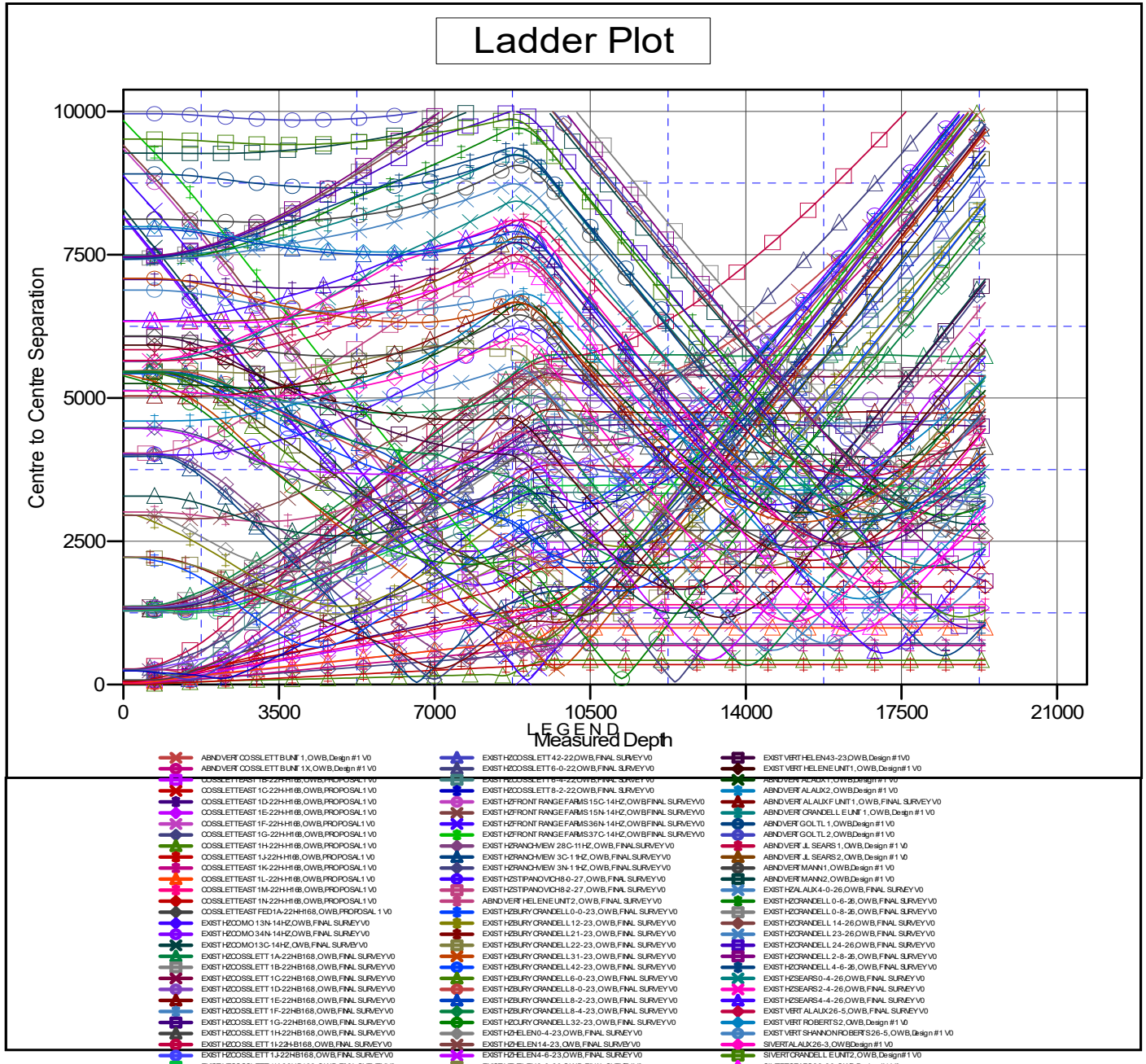
Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1I-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

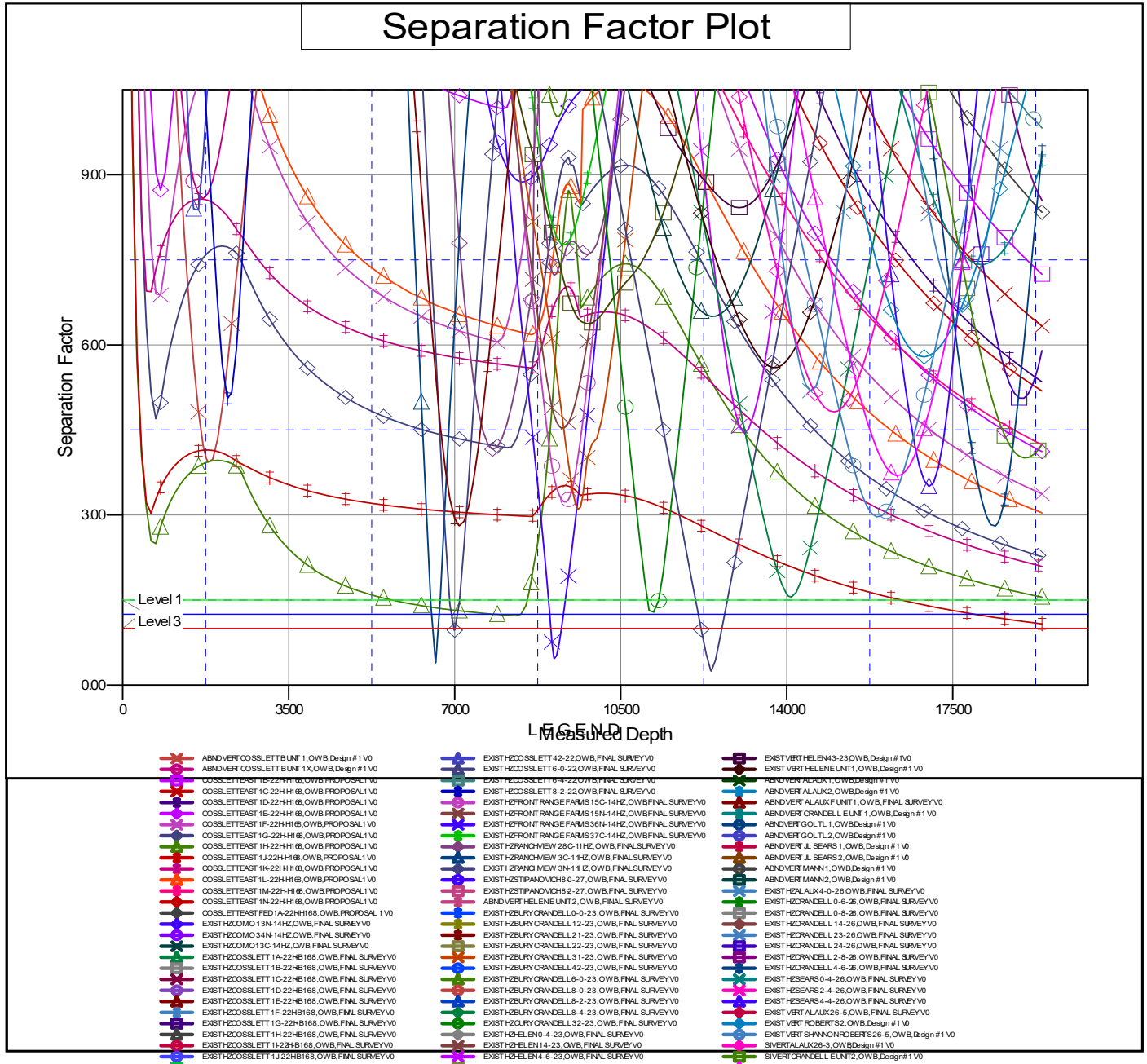
Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 11-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5207.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5207.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 11-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	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 covergent point, SF - min separation factor, ES - min ellipse separation