

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1K-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	19,518.56	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	1,492.45	1,452.17	164.49	133.90	5.377	CC
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,500.00	1,459.17	164.51	133.75	5.348	ES
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,600.00	1,551.21	169.74	136.75	5.146	SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	807.84	806.54	267.90	252.10	16.952	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,000.00	982.62	270.00	250.33	13.726	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,500.00	1,460.17	322.55	292.10	10.595	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	400.00	402.00	89.88	87.46	37.037	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	19,518.56	18,442.67	3,008.68	2,681.67	9.200	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	400.00	402.00	80.08	77.65	32.998	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	19,518.56	18,414.88	2,681.18	2,355.01	8.220	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	400.00	402.00	70.00	67.57	28.845	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	19,518.56	18,448.75	2,329.27	2,004.23	7.166	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	400.00	402.00	59.92	57.49	24.691	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	19,518.56	18,789.07	1,993.69	1,666.13	6.087	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	400.00	402.00	50.12	47.69	20.653	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	19,518.56	18,704.31	1,659.62	1,334.94	5.112	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	400.00	401.00	40.04	37.62	16.524	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	19,518.56	18,936.55	1,343.35	1,016.26	4.107	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	400.00	401.00	29.96	27.54	12.364	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	19,518.56	19,017.56	989.58	664.58	3.045	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	400.00	401.00	20.16	17.74	8.319	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	19,518.56	19,380.87	682.92	357.00	2.095	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	400.00	400.00	10.08	7.66	4.166	CC
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	19,518.56	19,429.03	335.14	7.20	1.022	Level 2, ES, SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	300.00	10.08	8.38	5.920	CC
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	8,850.00	8,818.26	145.07	-28.18	0.837	Level 1, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	8,900.00	8,866.87	139.27	-27.43	0.835	Level 1, SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	200.00	19.88	18.89	20.167	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	19,518.56	19,798.98	715.85	385.65	2.168	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	29.96	29.69	111.445	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	19,518.56	20,189.49	1,064.59	743.67	3.317	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	400.00	402.00	100.24	97.82	41.306	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	19,518.56	18,140.16	3,319.13	2,993.66	10.198	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,789.26	16,236.00	2,286.86	2,104.69	12.554	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,900.00	16,236.00	2,289.54	2,103.14	12.283	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,188.39	2,366.51	2,165.19	11.755	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,498.68	16,659.00	2,849.43	2,667.48	15.661	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,600.00	16,659.00	2,851.23	2,665.97	15.390	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,659.00	2,959.96	2,757.08	14.590	SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,704.36	16,530.00	2,753.74	2,572.51	15.195	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,800.00	16,530.00	2,755.40	2,571.00	14.943	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,500.00	16,530.00	2,866.38	2,664.43	14.193	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,386.25			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	100.00	85.45	1,386.36	1,386.09	5,157.828	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,900.00	18,900.00	6,378.24	6,033.35	18.493	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	414.25	407.88	1,376.44	1,374.01	566.714	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	19,000.00	19,000.00	6,139.07	5,784.45	17.312	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	286.96	277.97	1,369.48	1,368.04	949.958	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	400.00	389.16	1,369.59	1,367.36	611.800	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	19,518.56	17,471.00	6,026.55	5,693.35	18.087	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	0.00	0.00	1,361.69			
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	383.74	1,362.37	1,360.40	690.089	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	19,518.56	17,390.53	5,664.70	5,335.25	17.194	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	326.99	318.00	1,321.49	1,320.54	1,393.500	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	400.00	389.23	1,321.64	1,320.30	987.783	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	19,518.56	17,301.17	5,387.88	5,060.56	16.460	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	90.48	1,345.07	1,344.79	4,798.154	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	400.00	380.97	1,345.84	1,343.72	635.224	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	19,518.56	17,796.00	5,246.51	4,912.41	15.703	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	89.72	1,337.12	1,336.84	4,713.639	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	400.00	386.80	1,337.34	1,335.37	675.895	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	19,518.56	17,487.00	5,149.28	4,816.17	15.459	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	325.43	315.43	1,328.38	1,326.62	752.632	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	400.00	384.88	1,328.52	1,326.25	584.192	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	19,518.56	17,214.39	4,780.43	4,464.90	15.151	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	100.00	89.49	1,320.88	1,320.60	4,661.215	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	400.00	385.96	1,321.25	1,319.26	667.049	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	19,518.56	17,583.00	4,453.60	4,120.90	13.386	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	409.72	401.93	1,312.53	1,310.46	636.087	CC, ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	19,518.56	17,583.72	4,248.75	3,918.43	12.863	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	0.00	0.00	1,304.99			
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	100.00	83.24	1,305.18	1,304.91	4,768.158	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	19,518.56	17,479.00	4,116.00	3,798.11	12.948	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	1,073.71	1,215.14	1,290.63	1,282.81	164.970	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	1,100.00	1,237.94	1,290.72	1,282.66	160.132	ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	19,518.56	17,809.49	3,915.34	3,581.78	11.738	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	450.31	444.21	252.89	250.18	93.505	CC, ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,100.00	1,040.90	353.98	346.34	46.293	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	279.59			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	90.69	279.69	279.41	990.011	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	1,600.00	1,360.40	710.47	699.29	63.587	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	0.00	0.00	267.82			
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	189.97	268.33	267.42	297.104	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	2,300.00	2,199.88	634.43	612.09	28.398	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,291.19	1,317.07	154.39	145.21	16.815	CC
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,300.00	1,325.43	154.42	145.16	16.682	ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,500.00	1,516.22	172.99	161.94	15.654	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	158.80	151.48	274.13	273.54	462.713	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	189.57	274.34	273.44	305.361	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	2,800.00	2,486.97	1,166.95	1,138.79	41.438	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 6-4-22 - OWB - FINAL SURVEY	961.11	985.76	208.16	201.22	30.019	CC, ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,200.00	1,202.69	236.26	227.12	25.844	SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,711.47	1,703.83	150.22	134.72	9.691	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,900.00	1,887.65	156.68	139.24	8.982	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,405.96	15,353.00	472.80	334.98	3.431	CC
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,450.00	15,353.00	475.74	330.12	3.267	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,550.00	15,353.00	503.18	344.55	3.172	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,440.28	15,243.00	344.54	226.98	2.931	CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,450.00	15,243.00	344.76	225.82	2.898	ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,500.00	15,243.00	352.69	227.70	2.822	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,996.81	15,062.31	709.14	541.05	4.219	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,050.00	15,076.74	710.99	537.28	4.093	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,300.00	15,134.00	759.81	565.99	3.920	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,548.71	15,352.00	814.82	671.81	5.698	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,550.00	15,352.00	814.82	671.79	5.697	ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,600.00	15,352.00	818.55	674.47	5.681	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,190.18	5,897.60	136.49	35.11	1.346	Level 3, CC
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,200.00	5,905.05	136.65	34.73	1.341	Level 3, ES, SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	6,239.22	5,256.73	263.30	172.77	2.909	CC, ES, SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	6,569.69	5,470.23	158.94	65.15	1.695	CC, ES, SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	14,746.75	7,728.59	3,779.91	3,666.59	33.354	CC, ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	15,400.00	7,721.85	3,835.94	3,719.11	32.835	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,027.44	7,845.93	3,770.44	3,633.29	27.491	CC, ES
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,200.00	7,841.92	3,774.38	3,636.88	27.450	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	13,211.89	7,604.69	2,788.13	2,697.08	30.622	CC, ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	13,800.00	7,594.70	2,849.46	2,754.96	30.151	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,049.61	3,418.04	649.90	598.91	12.746	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,200.00	3,511.69	659.70	606.56	12.413	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,606.89	4,734.73	1,437.61	1,377.67	23.986	CC, ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	5,100.00	5,004.96	1,483.23	1,417.61	22.603	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	6,470.11	5,464.21	103.71	5.33	1.054	Level 2, CC, ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,693.34	3,781.31	990.59	933.65	17.398	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,700.00	3,785.82	990.60	933.52	17.354	ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	5,500.00	4,425.18	1,098.86	1,024.95	14.869	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,883.77	7,668.54	364.57	287.77	4.747	CC
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,900.00	7,668.60	364.94	285.84	4.614	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	10,100.00	7,669.28	423.88	315.15	3.899	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,700.00	7,664.21	1,160.21	1,054.13	10.937	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,294.79	7,671.63	996.17	917.22	12.618	CC, ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,445.90	7,600.01	165.59	94.62	2.333	CC
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,500.00	7,621.45	174.54	90.62	2.080	ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,550.00	7,638.22	197.26	98.20	1.991	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,250.00	7,535.95	1,610.83	1,524.91	18.749	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,600.00	7,692.93	1,505.36	1,432.36	20.622	ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,624.67	7,698.83	1,504.84	1,432.59	20.829	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,700.00	7,643.06	1,734.16	1,620.90	15.311	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,600.00	7,652.86	1,472.57	1,398.35	19.840	ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,610.51	7,652.93	1,472.53	1,398.58	19.912	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,914.09	7,815.22	1,434.44	1,343.25	15.731	CC, ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,800.00	7,840.32	1,685.76	1,564.32	13.882	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,344.82	7,754.02	536.94	456.45	6.671	CC
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,400.00	7,754.20	539.77	455.48	6.404	ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,600.00	7,754.88	594.49	491.80	5.789	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,714.33	3,966.63	2,037.93	1,989.73	42.280	CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,800.00	4,026.42	2,038.94	1,989.35	41.119	ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	4,800.00	4,619.60	2,204.48	2,142.05	35.312	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	1,815.73	1,378.01	2,848.44	2,834.91	210.505	CC
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	1,900.00	1,409.94	2,849.01	2,834.61	197.814	ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	14,500.00	7,751.55	2,972.84	2,862.85	27.028	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,200.00	7,675.78	1,079.52	982.84	11.166	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,335.76	7,672.10	1,070.96	975.52	11.222	CC, ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,547.07	7,896.73	1,426.28	1,313.97	12.699	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,600.00	7,896.69	1,427.27	1,312.53	12.440	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,200.00	7,896.16	1,568.63	1,425.51	10.960	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,100.00	7,542.00	607.01	403.13	2.977	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,300.00	7,542.00	558.94	377.83	3.086	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,340.10	7,542.00	557.50	380.14	3.143	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	12,559.26	7,573.00	1,883.31	1,695.32	10.018	CC, ES
EXIST VERT HELEN 23-23 - OWB - Design #1	12,700.00	7,573.00	1,888.56	1,699.61	9.995	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	12,551.07	7,606.00	592.45	403.97	3.143	CC, ES, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,100.00	7,585.00	314.81	99.40	1.461	Level 3, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,171.15	7,585.00	306.67	98.36	1.472	Level 3, CC, ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,691.01	7,577.00	1,023.78	834.34	5.404	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	12,700.00	7,577.00	1,023.82	834.17	5.399	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,000.00	7,577.00	1,069.39	867.65	5.301	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,618.81	7,583.00	530.07	329.34	2.641	CC, ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,700.00	7,583.00	536.25	329.67	2.596	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	15,357.18	5,050.00	3,082.08	2,964.48	26.209	CC, ES
ABND VERT ALAUX 1 - OWB - Design #1	16,800.00	5,050.00	3,403.08	3,266.89	24.987	SF
ABND VERT ALAUX 2 - OWB - Design #1	15,361.76	5,450.00	3,729.74	3,577.07	24.430	CC, ES
ABND VERT ALAUX 2 - OWB - Design #1	16,000.00	5,450.00	3,783.95	3,627.52	24.188	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,624.08	7,616.32	2,806.37	2,680.96	22.377	CC, ES
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	17,000.00	17,000.00	3,125.52	2,969.21	19.995	SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,300.00	7,648.00	2,709.12	2,434.41	9.862	ES, SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,303.34	7,648.00	2,709.12	2,434.41	9.862	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,974.53	5,042.00	2,698.54	2,558.70	19.298	CC
ABND VERT GOLTL 1 - OWB - Design #1	18,000.00	5,042.00	2,698.66	2,558.29	19.225	ES
ABND VERT GOLTL 1 - OWB - Design #1	19,300.00	5,042.00	3,006.49	2,828.56	16.897	SF
ABND VERT GOLTL 2 - OWB - Design #1	19,293.26	5,020.00	2,718.11	2,566.90	17.976	CC
ABND VERT GOLTL 2 - OWB - Design #1	19,400.00	5,020.00	2,720.21	2,566.59	17.708	ES
ABND VERT GOLTL 2 - OWB - Design #1	19,518.56	5,020.00	2,727.44	2,570.85	17.419	SF
ABND VERT JL SEARS 1 - OWB - Design #1	16,689.97	5,125.00	3,926.49	3,765.57	24.400	CC
ABND VERT JL SEARS 1 - OWB - Design #1	16,700.00	5,125.00	3,926.50	3,765.54	24.394	ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,200.00	5,125.00	3,959.47	3,796.21	24.252	SF
ABND VERT JL SEARS 2 - OWB - Design #1	16,656.97	5,148.00	2,997.87	2,863.04	22.235	CC, ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,400.00	5,148.00	3,088.58	2,948.55	22.057	SF
ABND VERT MANN 1 - OWB - Design #1	17,957.72	5,050.00	2,596.85	2,484.36	23.085	CC
ABND VERT MANN 1 - OWB - Design #1	18,000.00	5,050.00	2,597.20	2,484.31	23.008	ES
ABND VERT MANN 1 - OWB - Design #1	19,400.00	5,050.00	2,970.49	2,821.40	19.924	SF
ABND VERT MANN 2 - OWB - Design #1	19,297.97	5,048.00	2,591.28	2,467.76	20.979	CC
ABND VERT MANN 2 - OWB - Design #1	19,300.00	5,048.00	2,591.28	2,467.74	20.976	ES
ABND VERT MANN 2 - OWB - Design #1	19,518.56	5,048.00	2,600.65	2,474.31	20.584	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,600.00	7,679.72	1,256.21	1,141.72	10.972	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,759.24	7,677.68	1,246.08	1,133.76	11.095	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,563.95	7,812.00	3,601.88	3,427.04	20.601	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,700.00	7,810.33	3,604.45	3,429.26	20.575	SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	19,518.56	8,037.91	3,704.24	3,498.36	17.992	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,464.33	7,876.53	3,192.47	2,996.13	16.260	CC, ES
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,500.00	7,876.73	3,192.67	2,996.28	16.257	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,800.00	7,797.04	1,748.80	1,583.42	10.574	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,900.00	7,795.89	1,744.58	1,580.14	10.609	ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,923.80	7,795.61	1,744.42	1,580.23	10.625	CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,000.00	7,942.94	1,643.28	1,448.48	8.435	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,200.00	7,945.36	1,630.43	1,438.95	8.515	ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,205.18	7,945.42	1,630.43	1,439.05	8.520	CC
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	19,518.56	7,991.53	2,449.09	2,239.13	11.664	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,400.00	7,951.85	1,168.02	985.49	6.399	SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,587.14	7,951.15	1,152.93	975.71	6.506	CC, ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,214.58	7,819.64	3,620.50	3,465.93	23.422	CC, ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,400.00	7,816.65	3,625.25	3,470.08	23.363	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,400.00	16,400.00	2,535.60	2,355.43	14.073	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,187.82	7,840.52	2,411.06	2,256.48	15.597	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,100.00	7,683.36	1,198.52	1,041.50	7.633	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,200.00	7,681.45	1,191.40	1,036.66	7.699	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,235.09	7,680.78	1,190.88	1,037.06	7.742	CC
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,402.96	7,650.23	3,093.54	2,955.58	22.424	CC, ES
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,500.00	7,650.16	3,095.06	2,957.01	22.420	SF
EXIST VERT ROBERTS 2 - OWB - Design #1	16,728.68	7,603.00	857.98	610.03	3.460	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	16,800.00	7,603.00	860.94	608.07	3.405	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,900.00	7,603.00	874.92	615.83	3.377	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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						
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,937.31	7,584.00	81.89	-153.05	0.349	Level 1, CC, ES, SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,100.00	7,609.00	1,744.38	1,519.56	7.759	SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,200.00	7,609.00	1,741.06	1,516.97	7.769	ES
SI VERT ALAUX 26-3 - OWB - Design #1	15,207.88	7,609.00	1,741.04	1,517.01	7.771	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,978.58	7,606.00	540.90	255.60	1.896	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,000.00	7,606.00	541.32	253.64	1.882	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,100.00	7,606.00	554.36	257.91	1.870	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,400.00	7,609.00	1,571.36	1,324.37	6.362	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,550.76	7,609.00	1,564.11	1,318.94	6.380	CC, ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,670.39	5,425.00	2,330.59	2,193.72	17.027	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,700.00	5,425.00	2,330.78	2,193.23	16.945	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,900.00	5,425.00	2,635.07	2,457.76	14.861	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,352.75	5,450.00	2,196.08	2,100.91	23.076	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,400.00	5,450.00	2,196.58	2,100.90	22.956	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	16,900.00	5,450.00	2,686.40	2,538.55	18.170	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,675.11	5,450.00	2,196.06	2,090.23	20.750	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,700.00	5,450.00	2,196.20	2,090.15	20.708	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	18,100.00	5,450.00	2,617.83	2,467.59	17.424	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,348.04	5,400.00	2,330.60	2,205.95	18.697	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,400.00	5,400.00	2,331.18	2,205.42	18.536	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	16,700.00	5,400.00	2,694.35	2,524.45	15.859	SF

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	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	28.09	232.42	124.04	263.82				
100.00	100.00	86.00	86.00	0.13	0.68	28.09	232.42	124.04	263.45	262.63	0.82	322.306	
200.00	200.00	186.00	186.00	0.49	2.30	28.09	232.42	124.04	263.45	260.66	2.79	94.492	
300.00	300.00	286.00	286.00	0.85	4.04	28.09	232.42	124.04	263.45	258.55	4.89	53.854	
400.00	400.00	386.00	386.00	1.21	5.79	28.09	232.42	124.04	263.45	256.45	7.00	37.659	
500.00	499.98	485.98	485.98	1.56	7.53	-38.89	232.42	124.04	262.08	252.99	9.10	28.816	
600.00	599.84	585.84	585.84	1.92	9.27	-39.67	232.42	124.04	258.03	246.84	11.19	23.050	
700.00	699.45	685.45	685.45	2.29	11.01	-41.03	232.42	124.04	251.38	238.08	13.30	18.906	
800.00	798.70	784.70	784.70	2.67	12.74	-43.04	232.42	124.04	242.29	226.89	15.40	15.732	
900.00	897.47	883.47	883.47	3.07	14.47	-45.83	232.42	124.04	231.05	213.54	17.51	13.193	
1,000.00	995.62	981.62	981.62	3.50	16.18	-49.59	232.42	124.04	218.08	198.44	19.64	11.106	
1,100.00	1,093.06	1,079.06	1,079.06	3.96	17.88	-54.55	232.42	124.04	204.01	182.23	21.78	9.367	
1,200.00	1,189.64	1,175.64	1,175.64	4.46	19.57	-61.01	232.42	124.04	189.85	165.89	23.96	7.924	
1,300.00	1,285.27	1,271.27	1,271.27	5.00	21.24	-69.24	232.42	124.04	177.08	150.89	26.19	6.761	
1,400.00	1,379.82	1,365.82	1,365.82	5.60	22.89	-79.32	232.42	124.04	167.77	139.30	28.47	5.893	
1,492.45	1,466.17	1,452.17	1,452.17	6.20	24.39	-90.00	232.42	124.04	164.49	133.90	30.59	5.377	CC
1,500.00	1,473.17	1,459.17	1,459.17	6.25	24.52	-90.91	232.42	124.04	164.51	133.75	30.76	5.348	ES
1,600.00	1,565.21	1,551.21	1,551.21	6.95	26.12	-103.10	232.42	124.04	169.74	136.75	32.98	5.146	SF
1,700.00	1,655.84	1,641.84	1,641.84	7.72	27.70	-114.69	232.42	124.04	184.76	149.69	35.07	5.268	
1,800.00	1,744.94	1,730.94	1,730.94	8.55	29.26	-124.81	232.42	124.04	209.38	172.36	37.02	5.656	
1,900.00	1,832.39	1,818.39	1,818.39	9.45	30.79	-133.15	232.42	124.04	242.38	203.51	38.87	6.236	
2,000.00	1,918.11	1,904.11	1,904.11	10.41	32.28	-139.80	232.42	124.04	282.38	241.72	40.66	6.945	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
2,100.00	2,001.97	1,987.97	1,987.97	11.45	33.75	-145.06	232.42	124.04	328.18	285.76	42.42	7.736		
2,200.00	2,083.88	2,069.88	2,069.88	12.56	35.18	-149.22	232.42	124.04	378.91	334.74	44.16	8.580		
2,300.00	2,163.74	2,149.74	2,149.74	13.74	36.57	-152.53	232.42	124.04	433.91	388.03	45.88	9.458		
2,400.00	2,241.45	2,227.45	2,227.45	14.99	37.93	-155.19	232.42	124.04	492.72	445.15	47.57	10.359		
2,421.22	2,257.65	2,243.65	2,243.65	15.26	38.21	-155.68	232.42	124.04	505.65	457.73	47.92	10.551		
2,500.00	2,317.63	2,303.63	2,303.63	16.29	39.25	-157.79	232.42	124.04	554.21	504.97	49.23	11.257		
2,600.00	2,393.75	2,379.75	2,379.75	17.62	40.58	-160.01	232.42	124.04	616.43	565.52	50.91	12.109		
2,700.00	2,469.88	2,455.88	2,455.88	18.95	41.91	-161.84	232.42	124.04	679.14	626.55	52.59	12.913		
2,800.00	2,546.01	2,532.01	2,532.01	20.30	43.24	-163.38	232.42	124.04	742.22	687.94	54.29	13.672		
2,900.00	2,622.13	2,608.13	2,608.13	21.65	44.57	-164.68	232.42	124.04	805.58	749.60	55.99	14.389		
3,000.00	2,698.26	2,684.26	2,684.26	23.01	45.90	-165.79	232.42	124.04	869.16	811.47	57.69	15.065		
3,100.00	2,774.38	2,760.38	2,760.38	24.37	47.23	-166.76	232.42	124.04	932.92	873.51	59.41	15.703		
3,200.00	2,850.51	2,836.51	2,836.51	25.74	48.56	-167.60	232.42	124.04	996.81	935.68	61.13	16.307		
3,300.00	2,926.64	2,912.64	2,912.64	27.11	49.88	-168.35	232.42	124.04	1,060.82	997.97	62.85	16.878		
3,400.00	3,002.76	2,988.76	2,988.76	28.49	51.21	-169.01	232.42	124.04	1,124.93	1,060.35	64.58	17.419		
3,500.00	3,078.89	3,064.89	3,064.89	29.87	52.54	-169.60	232.42	124.04	1,189.11	1,122.80	66.31	17.932		
3,600.00	3,155.02	3,141.02	3,141.02	31.25	53.87	-170.14	232.42	124.04	1,253.36	1,185.32	68.05	18.419		
3,700.00	3,231.14	3,217.14	3,217.14	32.63	55.20	-170.62	232.42	124.04	1,317.67	1,247.89	69.79	18.882		
3,800.00	3,307.27	3,306.73	3,293.27	34.01	56.76	-171.05	232.42	124.04	1,382.04	1,310.27	71.76	19.259		
3,900.00	3,383.39	3,369.39	3,369.39	35.40	57.86	-171.45	232.42	124.04	1,446.44	1,373.17	73.27	19.741		
4,000.00	3,459.52	3,445.52	3,445.52	36.79	59.18	-171.81	232.42	124.04	1,510.88	1,435.87	75.02	20.141		
4,100.00	3,535.65	3,521.65	3,521.65	38.18	60.51	-172.15	232.42	124.04	1,575.36	1,498.59	76.76	20.522		
4,200.00	3,611.77	3,602.23	3,597.77	39.57	61.92	-172.46	232.42	124.04	1,639.86	1,561.27	78.59	20.865		
4,300.00	3,687.90	3,673.90	3,673.90	40.96	63.17	-172.74	232.42	124.04	1,704.39	1,624.12	80.27	21.234		
4,400.00	3,764.02	3,750.02	3,750.02	42.35	64.50	-173.01	232.42	124.04	1,768.94	1,686.92	82.02	21.567		
4,500.00	3,840.15	3,826.15	3,826.15	43.74	65.83	-173.25	232.42	124.04	1,833.52	1,749.74	83.78	21.886		
4,600.00	3,916.28	3,902.28	3,902.28	45.13	67.16	-173.48	232.42	124.04	1,898.11	1,812.58	85.53	22.191		
4,700.00	3,992.40	3,978.40	3,978.40	46.53	68.49	-173.70	232.42	124.04	1,962.72	1,875.43	87.29	22.484		
4,800.00	4,068.53	4,054.53	4,054.53	47.92	69.81	-173.90	232.42	124.04	2,027.34	1,938.29	89.05	22.766		
4,900.00	4,144.66	4,130.66	4,130.66	49.32	71.14	-174.08	232.42	124.04	2,091.98	2,001.17	90.81	23.036		
5,000.00	4,220.78	4,206.78	4,206.78	50.71	72.47	-174.26	232.42	124.04	2,156.63	2,064.05	92.58	23.296		
5,100.00	4,296.91	4,282.91	4,282.91	52.11	73.80	-174.43	232.42	124.04	2,221.29	2,126.95	94.34	23.546		
5,200.00	4,373.03	4,359.03	4,359.03	53.51	75.13	-174.59	232.42	124.04	2,285.96	2,189.86	96.10	23.787		
5,300.00	4,449.16	4,435.16	4,435.16	54.90	76.46	-174.74	232.42	124.04	2,350.64	2,252.77	97.87	24.018		
5,400.00	4,525.29	4,511.29	4,511.29	56.30	77.79	-174.88	232.42	124.04	2,415.33	2,315.70	99.64	24.242		
5,500.00	4,601.41	4,553.00	4,553.00	57.70	78.51	-174.95	232.42	124.04	2,480.27	2,379.66	100.61	24.652		
5,600.00	4,677.54	4,553.00	4,553.00	59.10	78.51	-174.95	232.42	124.04	2,547.13	2,446.56	100.57	25.326		
5,700.00	4,753.66	4,553.00	4,553.00	60.49	78.51	-174.95	232.42	124.04	2,616.11	2,515.65	100.46	26.041		
5,800.00	4,829.79	4,553.00	4,553.00	61.89	78.51	-174.95	232.42	124.04	2,687.05	2,586.75	100.29	26.792		
5,900.00	4,905.92	4,553.00	4,553.00	63.29	78.51	-174.95	232.42	124.04	2,759.78	2,659.70	100.08	27.577		
6,000.00	4,982.04	4,553.00	4,553.00	64.69	78.51	-174.95	232.42	124.04	2,834.17	2,734.36	99.82	28.393		
6,100.00	5,058.17	4,553.00	4,553.00	66.09	78.51	-174.95	232.42	124.04	2,910.11	2,810.57	99.53	29.238		
6,200.00	5,134.30	4,553.00	4,553.00	67.49	78.51	-174.95	232.42	124.04	2,987.45	2,888.23	99.22	30.109		
6,300.00	5,210.42	4,553.00	4,553.00	68.89	78.51	-174.95	232.42	124.04	3,066.11	2,967.22	98.89	31.005		
6,400.00	5,286.55	4,553.00	4,553.00	70.29	78.51	-174.95	232.42	124.04	3,145.98	3,047.43	98.55	31.923		
6,500.00	5,362.67	4,553.00	4,553.00	71.69	78.51	-174.95	232.42	124.04	3,226.97	3,128.78	98.20	32.863		
6,600.00	5,438.80	4,553.00	4,553.00	73.09	78.51	-174.95	232.42	124.04	3,309.01	3,211.17	97.84	33.821		
6,700.00	5,514.93	4,553.00	4,553.00	74.49	78.51	-174.95	232.42	124.04	3,392.00	3,294.53	97.48	34.797		
6,800.00	5,591.05	4,553.00	4,553.00	75.89	78.51	-174.95	232.42	124.04	3,475.90	3,378.78	97.12	35.790		
6,900.00	5,667.18	4,553.00	4,553.00	77.29	78.51	-174.95	232.42	124.04	3,560.62	3,463.86	96.76	36.798		
7,000.00	5,743.30	4,553.00	4,553.00	78.69	78.51	-174.95	232.42	124.04	3,646.12	3,549.71	96.41	37.819		
7,100.00	5,819.43	4,553.00	4,553.00	80.09	78.51	-174.95	232.42	124.04	3,732.34	3,636.28	96.06	38.853		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
7,200.00	5,895.56	4,553.00	4,553.00	81.49	78.51	-174.95	232.42	124.04	3,819.23	3,723.51	95.72	39.899		
7,300.00	5,971.68	4,553.00	4,553.00	82.90	78.51	-174.95	232.42	124.04	3,906.75	3,811.36	95.39	40.956		
7,400.00	6,047.81	4,553.00	4,553.00	84.30	78.51	-174.95	232.42	124.04	3,994.85	3,899.79	95.07	42.022		
7,500.00	6,123.94	4,553.00	4,553.00	85.70	78.51	-174.95	232.42	124.04	4,083.50	3,988.75	94.75	43.097		
7,600.00	6,200.06	4,553.00	4,553.00	87.10	78.51	-174.95	232.42	124.04	4,172.67	4,078.22	94.45	44.179		
7,700.00	6,276.19	4,553.00	4,553.00	88.50	78.51	-174.95	232.42	124.04	4,262.31	4,168.16	94.15	45.269		
7,800.00	6,352.31	4,553.00	4,553.00	89.90	78.51	-174.95	232.42	124.04	4,352.41	4,258.54	93.87	46.365		
7,900.00	6,428.44	4,553.00	4,553.00	91.31	78.51	-174.95	232.42	124.04	4,442.93	4,349.33	93.60	47.467		
8,000.00	6,504.57	4,553.00	4,553.00	92.71	78.51	-174.95	232.42	124.04	4,533.85	4,440.51	93.34	48.574		
8,100.00	6,580.69	4,553.00	4,553.00	94.11	78.51	-174.95	232.42	124.04	4,625.15	4,532.06	93.09	49.685		
8,200.00	6,656.82	4,553.00	4,553.00	95.51	78.51	-174.95	232.42	124.04	4,716.79	4,623.94	92.85	50.800		
8,300.00	6,732.95	4,553.00	4,553.00	96.91	78.51	-174.95	232.42	124.04	4,808.77	4,716.15	92.62	51.918		
8,400.00	6,809.07	4,553.00	4,553.00	98.32	78.51	-174.95	232.42	124.04	4,901.07	4,808.66	92.40	53.039		
8,500.00	6,885.20	4,553.00	4,553.00	99.72	78.51	-174.95	232.42	124.04	4,993.66	4,901.46	92.20	54.162		
8,600.00	6,961.32	4,553.00	4,553.00	101.12	78.51	-174.95	232.42	124.04	5,086.53	4,994.53	92.00	55.286		
8,700.00	7,037.45	4,553.00	4,553.00	102.52	78.51	-174.95	232.42	124.04	5,179.67	5,087.85	91.82	56.411		
8,732.15	7,061.92	4,553.00	4,553.00	102.97	78.51	-174.95	232.42	124.04	5,209.67	5,117.90	91.76	56.773		
8,750.00	7,075.57	4,553.00	4,553.00	103.22	78.51	-174.95	232.42	124.04	5,226.31	5,134.58	91.73	56.974		
8,800.00	7,114.27	4,553.00	4,553.00	103.91	78.51	-174.95	232.42	124.04	5,272.58	5,180.95	91.63	57.540		
8,850.00	7,153.47	4,553.00	4,553.00	104.58	78.51	-174.95	232.42	124.04	5,318.11	5,226.58	91.53	58.105		
8,900.00	7,192.85	4,553.00	4,553.00	105.21	78.51	-174.95	232.42	124.04	5,362.55	5,271.15	91.40	58.669		
8,950.00	7,232.12	4,553.00	4,553.00	105.80	78.51	-174.95	232.42	124.04	5,405.61	5,314.34	91.27	59.227		
9,000.00	7,270.99	4,553.00	4,553.00	106.35	78.51	-174.95	232.42	124.04	5,446.99	5,355.87	91.12	59.778		
9,050.00	7,309.16	4,553.00	4,553.00	106.85	78.51	-174.95	232.42	124.04	5,486.42	5,395.46	90.96	60.317		
9,100.00	7,346.32	4,553.00	4,553.00	107.30	78.51	-174.95	232.42	124.04	5,523.64	5,432.86	90.79	60.843		
9,150.00	7,382.22	4,553.00	4,553.00	107.69	78.51	-174.95	232.42	124.04	5,558.42	5,467.82	90.60	61.351		
9,200.00	7,416.56	4,553.00	4,553.00	108.02	78.51	-174.95	232.42	124.04	5,590.55	5,500.14	90.41	61.838		
9,250.00	7,449.09	4,553.00	4,553.00	108.29	78.51	-174.95	232.42	124.04	5,619.81	5,529.61	90.21	62.298		
9,300.00	7,479.56	4,553.00	4,553.00	108.51	78.51	-174.95	232.42	124.04	5,646.05	5,556.04	90.01	62.729		
9,350.00	7,507.74	4,553.00	4,553.00	108.68	78.51	-174.95	232.42	124.04	5,669.09	5,579.29	89.81	63.125		
9,400.00	7,533.41	4,553.00	4,553.00	108.79	78.51	-174.95	232.42	124.04	5,688.81	5,599.20	89.62	63.480		
9,450.00	7,556.39	4,553.00	4,553.00	108.86	78.51	-174.95	232.42	124.04	5,705.10	5,615.66	89.43	63.790		
9,500.00	7,576.48	4,553.00	4,553.00	108.88	78.51	-174.95	232.42	124.04	5,717.84	5,628.57	89.27	64.050		
9,550.00	7,593.55	4,553.00	4,553.00	108.86	78.51	-174.95	232.42	124.04	5,726.99	5,637.86	89.13	64.255		
9,600.00	7,607.46	4,553.00	4,553.00	108.80	78.51	-174.95	232.42	124.04	5,732.47	5,643.45	89.01	64.399		
9,650.00	7,618.11	4,553.00	4,553.00	108.71	78.51	-174.95	232.42	124.04	5,734.26	5,645.33	88.93	64.479		
9,700.00	7,625.41	4,553.00	4,553.00	108.59	78.51	-174.95	232.42	124.04	5,732.35	5,643.47	88.89	64.491		
9,750.00	7,629.30	4,553.00	4,553.00	108.45	78.51	-174.95	232.42	124.04	5,726.76	5,637.88	88.88	64.432		
9,781.81	7,630.00	4,553.00	4,553.00	108.35	78.51	-174.95	232.42	124.04	5,721.29	5,632.39	88.90	64.358		
9,800.00	7,630.00	4,553.00	4,553.00	108.29	78.51	-174.95	232.42	124.04	5,717.77	5,628.85	88.92	64.306		
9,900.00	7,630.00	4,553.00	4,553.00	107.97	78.51	-174.95	232.42	124.04	5,699.42	5,610.35	89.07	63.989		
10,000.00	7,630.00	4,553.00	4,553.00	107.67	78.51	-174.95	232.42	124.04	5,682.77	5,593.44	89.33	63.615		
10,100.00	7,630.00	4,553.00	4,553.00	107.38	78.51	-174.95	232.42	124.04	5,667.83	5,578.14	89.70	63.189		
10,200.00	7,630.00	4,553.00	4,553.00	107.10	78.51	-174.95	232.42	124.04	5,654.63	5,564.47	90.16	62.717		
10,300.00	7,630.00	4,553.00	4,553.00	106.84	78.51	-174.95	232.42	124.04	5,643.17	5,552.45	90.72	62.204		
10,400.00	7,630.00	4,553.00	4,553.00	106.59	78.51	-174.95	232.42	124.04	5,633.45	5,542.09	91.37	61.656		
10,500.00	7,630.00	4,553.00	4,553.00	106.35	78.51	-174.95	232.42	124.04	5,625.50	5,533.41	92.10	61.081		
10,600.00	7,630.00	4,553.00	4,553.00	106.13	78.51	-174.95	232.42	124.04	5,619.32	5,526.42	92.90	60.486		
10,700.00	7,630.00	4,553.00	4,553.00	105.92	78.51	-174.95	232.42	124.04	5,614.91	5,521.14	93.78	59.876		
10,800.00	7,630.00	4,553.00	4,553.00	105.72	78.51	-174.95	232.42	124.04	5,612.29	5,517.58	94.71	59.257		
10,897.57	7,630.00	4,553.00	4,553.00	105.54	78.51	-174.95	232.42	124.04	5,611.44	5,515.76	95.68	58.651		
10,900.00	7,630.00	4,553.00	4,553.00	105.54	78.51	-174.95	232.42	124.04	5,611.44	5,515.74	95.70	58.637		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
11,000.00	7,630.00	4,553.00	4,553.00	105.37	78.51	56.92	232.42	124.04	5,612.37	5,515.64	96.74	58.018		
11,100.00	7,630.00	4,553.00	4,553.00	105.21	78.51	56.92	232.42	124.04	5,615.09	5,517.27	97.82	57.405		
11,200.00	7,630.00	4,553.00	4,553.00	105.06	78.51	56.92	232.42	124.04	5,619.58	5,520.65	98.93	56.803		
11,300.00	7,630.00	4,553.00	4,553.00	104.93	78.51	56.92	232.42	124.04	5,625.85	5,525.77	100.08	56.213		
11,400.00	7,630.00	4,553.00	4,553.00	104.82	78.51	56.92	232.42	124.04	5,633.89	5,532.63	101.26	55.640		
11,500.00	7,630.00	4,553.00	4,553.00	104.72	78.51	56.92	232.42	124.04	5,643.68	5,541.23	102.45	55.085		
11,600.00	7,630.00	4,553.00	4,553.00	104.63	78.51	56.92	232.42	124.04	5,655.23	5,551.56	103.67	54.550		
11,700.00	7,630.00	4,553.00	4,553.00	104.55	78.51	56.92	232.42	124.04	5,668.52	5,563.62	104.90	54.036		
11,800.00	7,630.00	4,553.00	4,553.00	104.50	78.51	56.92	232.42	124.04	5,683.54	5,577.39	106.15	53.544		
11,900.00	7,630.00	4,553.00	4,553.00	104.45	78.51	56.92	232.42	124.04	5,700.27	5,592.87	107.40	53.076		
12,000.00	7,630.00	4,553.00	4,553.00	104.43	78.51	56.92	232.42	124.04	5,718.71	5,610.05	108.65	52.632		
12,100.00	7,630.00	4,553.00	4,553.00	104.42	78.51	56.92	232.42	124.04	5,738.82	5,628.91	109.91	52.213		
12,200.00	7,630.00	4,553.00	4,553.00	104.42	78.51	56.92	232.42	124.04	5,760.60	5,649.43	111.17	51.818		
12,300.00	7,630.00	4,553.00	4,553.00	104.45	78.51	56.92	232.42	124.04	5,784.03	5,671.61	112.43	51.447		
12,400.00	7,630.00	4,553.00	4,553.00	104.49	78.51	56.92	232.42	124.04	5,809.09	5,695.41	113.68	51.102		
12,500.00	7,630.00	4,553.00	4,553.00	104.55	78.51	56.92	232.42	124.04	5,835.75	5,720.83	114.92	50.780		
12,600.00	7,630.00	4,553.00	4,553.00	104.63	78.51	56.92	232.42	124.04	5,864.00	5,747.84	116.16	50.483		
12,700.00	7,630.00	4,553.00	4,553.00	104.73	78.51	56.92	232.42	124.04	5,893.81	5,776.43	117.38	50.210		
12,800.00	7,630.00	4,553.00	4,553.00	104.85	78.51	56.92	232.42	124.04	5,925.16	5,806.56	118.60	49.961		
12,900.00	7,630.00	4,553.00	4,553.00	104.99	78.51	56.92	232.42	124.04	5,958.02	5,838.22	119.80	49.735		
13,000.00	7,630.00	4,553.00	4,553.00	105.15	78.51	56.92	232.42	124.04	5,992.37	5,871.38	120.98	49.531		
13,100.00	7,630.00	4,553.00	4,553.00	105.34	78.51	56.92	232.42	124.04	6,028.18	5,906.03	122.15	49.350		
13,200.00	7,630.00	4,553.00	4,553.00	105.56	78.51	56.92	232.42	124.04	6,065.43	5,942.12	123.31	49.190		
13,300.00	7,630.00	4,553.00	4,553.00	105.80	78.51	56.92	232.42	124.04	6,104.09	5,979.65	124.44	49.052		
13,400.00	7,630.00	4,553.00	4,553.00	106.06	78.51	56.92	232.42	124.04	6,144.13	6,018.57	125.56	48.934		
13,500.00	7,630.00	4,553.00	4,553.00	106.36	78.51	56.92	232.42	124.04	6,185.54	6,058.88	126.66	48.836		
13,600.00	7,630.00	4,553.00	4,553.00	106.68	78.51	56.92	232.42	124.04	6,228.27	6,100.53	127.74	48.757		
13,700.00	7,630.00	4,553.00	4,553.00	107.03	78.51	56.92	232.42	124.04	6,272.31	6,143.51	128.80	48.698		
13,800.00	7,630.00	4,553.00	4,553.00	107.42	78.51	56.92	232.42	124.04	6,317.62	6,187.78	129.84	48.657		
13,900.00	7,630.00	4,553.00	4,553.00	107.83	78.51	56.92	232.42	124.04	6,364.18	6,233.32	130.86	48.633		
14,000.00	7,630.00	4,553.00	4,553.00	108.28	78.51	56.92	232.42	124.04	6,411.97	6,280.11	131.86	48.627		
14,100.00	7,630.00	4,553.00	4,553.00	108.77	78.51	56.92	232.42	124.04	6,460.94	6,328.11	132.84	48.638		
14,200.00	7,630.00	4,553.00	4,553.00	109.29	78.51	56.92	232.42	124.04	6,511.09	6,377.30	133.79	48.665		
14,300.00	7,630.00	4,553.00	4,553.00	109.84	78.51	56.92	232.42	124.04	6,562.38	6,427.65	134.73	48.708		
14,400.00	7,630.00	4,553.00	4,553.00	110.43	78.51	56.92	232.42	124.04	6,614.78	6,479.13	135.64	48.766		
14,500.00	7,630.00	4,553.00	4,553.00	111.06	78.51	56.92	232.42	124.04	6,668.26	6,531.73	136.54	48.838		
14,600.00	7,630.00	4,553.00	4,553.00	111.72	78.51	56.92	232.42	124.04	6,722.81	6,585.40	137.41	48.925		
14,700.00	7,630.00	4,553.00	4,553.00	112.42	78.51	56.92	232.42	124.04	6,778.40	6,640.14	138.26	49.026		
14,800.00	7,630.00	4,553.00	4,553.00	113.16	78.51	56.92	232.42	124.04	6,835.00	6,695.91	139.09	49.140		
14,900.00	7,630.00	4,553.00	4,553.00	113.94	78.51	56.92	232.42	124.04	6,892.58	6,752.68	139.90	49.267		
15,000.00	7,630.00	4,553.00	4,553.00	114.75	78.51	56.92	232.42	124.04	6,951.13	6,810.43	140.69	49.406		
15,100.00	7,630.00	4,553.00	4,553.00	115.60	78.51	56.92	232.42	124.04	7,010.61	6,869.15	141.46	49.557		
15,200.00	7,630.00	4,553.00	4,553.00	116.48	78.51	56.92	232.42	124.04	7,071.01	6,928.79	142.22	49.720		
15,300.00	7,630.00	4,553.00	4,553.00	117.40	78.51	56.92	232.42	124.04	7,132.29	6,989.35	142.95	49.894		
15,400.00	7,630.00	4,553.00	4,553.00	118.35	78.51	56.92	232.42	124.04	7,194.45	7,050.79	143.66	50.080		
15,500.00	7,630.00	4,553.00	4,553.00	119.34	78.51	56.92	232.42	124.04	7,257.45	7,113.10	144.35	50.275		
15,600.00	7,630.00	4,553.00	4,553.00	120.35	78.51	56.92	232.42	124.04	7,321.28	7,176.25	145.03	50.481		
15,700.00	7,630.00	4,553.00	4,553.00	121.40	78.51	56.92	232.42	124.04	7,385.90	7,240.22	145.69	50.697		
15,800.00	7,630.00	4,553.00	4,553.00	122.48	78.51	56.92	232.42	124.04	7,451.31	7,304.98	146.33	50.922		
15,900.00	7,630.00	4,553.00	4,553.00	123.58	78.51	56.92	232.42	124.04	7,517.48	7,370.53	146.95	51.156		
16,000.00	7,630.00	4,553.00	4,553.00	124.71	78.51	56.92	232.42	124.04	7,584.39	7,436.84	147.56	51.399		
16,100.00	7,630.00	4,553.00	4,553.00	125.87	78.51	56.92	232.42	124.04	7,652.03	7,503.88	148.15	51.651		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
16,200.00	7,630.00	4,553.00	4,553.00	127.05	78.51	56.92	232.42	124.04	7,720.36	7,571.64	148.72	51.911		
16,300.00	7,630.00	4,553.00	4,553.00	128.26	78.51	56.92	232.42	124.04	7,789.38	7,640.10	149.28	52.179		
16,400.00	7,630.00	4,553.00	4,553.00	129.48	78.51	56.92	232.42	124.04	7,859.07	7,709.24	149.82	52.455		
16,500.00	7,630.00	4,553.00	4,553.00	130.73	78.51	56.92	232.42	124.04	7,929.41	7,779.05	150.35	52.738		
16,600.00	7,630.00	4,553.00	4,553.00	132.00	78.51	56.92	232.42	124.04	8,000.37	7,849.50	150.87	53.029		
16,700.00	7,630.00	4,553.00	4,553.00	133.29	78.51	56.92	232.42	124.04	8,071.95	7,920.59	151.37	53.327		
16,800.00	7,630.00	4,553.00	4,553.00	134.59	78.51	56.92	232.42	124.04	8,144.13	7,992.28	151.85	53.631		
16,900.00	7,630.00	4,553.00	4,553.00	135.91	78.51	56.92	232.42	124.04	8,216.90	8,064.57	152.33	53.942		
17,000.00	7,630.00	4,553.00	4,553.00	137.25	78.51	56.92	232.42	124.04	8,290.23	8,137.44	152.79	54.260		
17,100.00	7,630.00	4,553.00	4,553.00	138.61	78.51	56.92	232.42	124.04	8,364.11	8,210.88	153.24	54.583		
17,200.00	7,630.00	4,553.00	4,553.00	139.97	78.51	56.92	232.42	124.04	8,438.53	8,284.86	153.67	54.913		
17,300.00	7,630.00	4,553.00	4,553.00	141.36	78.51	56.92	232.42	124.04	8,513.48	8,359.38	154.10	55.248		
17,400.00	7,630.00	4,553.00	4,553.00	142.75	78.51	56.92	232.42	124.04	8,588.94	8,434.43	154.51	55.589		
17,500.00	7,630.00	4,553.00	4,553.00	144.16	78.51	56.92	232.42	124.04	8,664.89	8,509.98	154.91	55.935		
17,600.00	7,630.00	4,553.00	4,553.00	145.58	78.51	56.92	232.42	124.04	8,741.33	8,586.03	155.30	56.286		
17,700.00	7,630.00	4,553.00	4,553.00	147.01	78.51	56.92	232.42	124.04	8,818.24	8,662.56	155.68	56.643		
17,800.00	7,630.00	4,553.00	4,553.00	148.45	78.51	56.92	232.42	124.04	8,895.60	8,739.55	156.05	57.005		
17,900.00	7,630.00	4,553.00	4,553.00	149.91	78.51	56.92	232.42	124.04	8,973.42	8,817.01	156.41	57.371		
18,000.00	7,630.00	4,553.00	4,553.00	151.37	78.51	56.92	232.42	124.04	9,051.67	8,894.91	156.76	57.742		
18,100.00	7,630.00	4,553.00	4,553.00	152.84	78.51	56.92	232.42	124.04	9,130.35	8,973.24	157.10	58.117		
18,200.00	7,630.00	4,553.00	4,553.00	154.32	78.51	56.92	232.42	124.04	9,209.44	9,052.00	157.44	58.497		
18,300.00	7,630.00	4,553.00	4,553.00	155.81	78.51	56.92	232.42	124.04	9,288.93	9,131.17	157.76	58.881		
18,400.00	7,630.00	4,553.00	4,553.00	157.31	78.51	56.92	232.42	124.04	9,368.82	9,210.74	158.07	59.269		
18,500.00	7,630.00	4,553.00	4,553.00	158.81	78.51	56.92	232.42	124.04	9,449.08	9,290.70	158.38	59.660		
18,600.00	7,630.00	4,553.00	4,553.00	160.32	78.51	56.92	232.42	124.04	9,529.73	9,371.05	158.68	60.056		
18,700.00	7,630.00	4,553.00	4,553.00	161.84	78.51	56.92	232.42	124.04	9,610.73	9,451.76	158.97	60.456		
18,800.00	7,630.00	4,553.00	4,553.00	163.37	78.51	56.92	232.42	124.04	9,692.09	9,532.84	159.26	60.859		
18,900.00	7,630.00	4,553.00	4,553.00	164.90	78.51	56.92	232.42	124.04	9,773.80	9,614.27	159.53	61.265		
19,000.00	7,630.00	4,553.00	4,553.00	166.43	78.51	56.92	232.42	124.04	9,855.84	9,696.04	159.80	61.675		
19,100.00	7,630.00	4,553.00	4,553.00	167.98	78.51	56.92	232.42	124.04	9,938.21	9,778.15	160.07	62.088		

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-17.10	257.55	-79.24	269.78				
100.00	100.00	87.00	87.00	0.13	0.68	-17.10	257.55	-79.24	269.47	268.66	0.81	332.620	
200.00	200.00	187.00	187.00	0.49	2.30	-17.10	257.55	-79.24	269.47	266.68	2.79	96.652	
300.00	300.00	287.00	287.00	0.85	4.04	-17.10	257.55	-79.24	269.47	264.57	4.89	55.085	
400.00	400.00	387.00	387.00	1.21	5.79	-17.10	257.55	-79.24	269.47	262.47	7.00	38.519	
500.00	499.98	486.98	486.98	1.56	7.53	-84.20	257.55	-79.24	269.28	260.19	9.09	29.609	
600.00	599.84	586.84	586.84	1.92	9.27	-85.32	257.55	-79.24	268.81	257.61	11.19	24.016	
700.00	699.45	686.45	686.45	2.29	11.01	-87.18	257.55	-79.24	268.23	254.94	13.30	20.173	
800.00	798.70	785.70	785.70	2.67	12.74	-89.77	257.55	-79.24	267.91	252.50	15.41	17.387	
807.84	806.46	806.54	793.46	2.70	13.11	-90.00	257.55	-79.24	267.90	252.10	15.80	16.952 CC	
900.00	897.47	884.47	884.47	3.07	14.47	-93.06	257.55	-79.24	268.30	250.76	17.53	15.302	
1,000.00	995.62	982.62	982.62	3.50	16.18	-97.00	257.55	-79.24	270.00	250.33	19.67	13.726 ES	
1,100.00	1,093.06	1,080.06	1,080.06	3.96	17.88	-101.49	257.55	-79.24	273.72	251.89	21.82	12.542	
1,200.00	1,189.64	1,176.64	1,176.64	4.46	19.57	-106.39	257.55	-79.24	280.17	256.18	23.99	11.680	
1,300.00	1,285.27	1,272.27	1,272.27	5.00	21.24	-111.55	257.55	-79.24	290.08	263.92	26.15	11.092	
1,400.00	1,379.82	1,366.82	1,366.82	5.60	22.89	-116.76	257.55	-79.24	304.05	275.74	28.31	10.741	
1,500.00	1,473.17	1,460.17	1,460.17	6.25	24.52	-121.87	257.55	-79.24	322.55	292.10	30.44	10.595 SF	
1,600.00	1,565.21	1,552.21	1,552.21	6.95	26.12	-126.71	257.55	-79.24	345.83	313.28	32.55	10.626	
1,700.00	1,655.84	1,642.84	1,642.84	7.72	27.70	-131.20	257.55	-79.24	373.99	339.38	34.61	10.806	
1,800.00	1,744.94	1,731.94	1,731.94	8.55	29.26	-135.28	257.55	-79.24	406.97	370.34	36.63	11.110	
1,900.00	1,832.39	1,819.39	1,819.39	9.45	30.79	-138.92	257.55	-79.24	444.61	406.00	38.61	11.516	
2,000.00	1,918.11	1,905.11	1,905.11	10.41	32.28	-142.14	257.55	-79.24	486.70	446.16	40.54	12.005	
2,100.00	2,001.97	1,988.97	1,988.97	11.45	33.75	-144.96	257.55	-79.24	533.01	490.58	42.43	12.562	
2,200.00	2,083.88	2,070.88	2,070.88	12.56	35.18	-147.42	257.55	-79.24	583.31	539.03	44.27	13.175	
2,300.00	2,163.74	2,150.74	2,150.74	13.74	36.57	-149.55	257.55	-79.24	637.36	591.29	46.08	13.833	
2,400.00	2,241.45	2,228.45	2,228.45	14.99	37.93	-151.39	257.55	-79.24	694.97	647.13	47.83	14.529	
2,421.22	2,257.65	2,244.65	2,244.65	15.26	38.21	-151.75	257.55	-79.24	707.63	659.42	48.20	14.680	
2,500.00	2,317.63	2,304.63	2,304.63	16.29	39.25	-153.51	257.55	-79.24	755.16	705.60	49.56	15.238	
2,600.00	2,393.75	2,380.75	2,380.75	17.62	40.58	-155.46	257.55	-79.24	816.11	764.84	51.27	15.917	
2,700.00	2,469.88	2,456.88	2,456.88	18.95	41.91	-157.16	257.55	-79.24	877.62	824.63	52.99	16.563	
2,800.00	2,546.01	2,533.01	2,533.01	20.30	43.24	-158.66	257.55	-79.24	939.57	884.87	54.70	17.177	
2,900.00	2,622.13	2,609.13	2,609.13	21.65	44.57	-159.97	257.55	-79.24	1,001.90	945.48	56.42	17.759	
3,000.00	2,698.26	2,685.26	2,685.26	23.01	45.90	-161.14	257.55	-79.24	1,064.52	1,006.39	58.13	18.311	
3,100.00	2,774.38	2,761.38	2,761.38	24.37	47.23	-162.18	257.55	-79.24	1,127.40	1,067.54	59.85	18.836	
3,200.00	2,850.51	2,837.51	2,837.51	25.74	48.56	-163.12	257.55	-79.24	1,190.48	1,128.91	61.58	19.333	
3,300.00	2,926.64	2,913.64	2,913.64	27.11	49.88	-163.97	257.55	-79.24	1,253.75	1,190.45	63.30	19.806	
3,400.00	3,002.76	2,989.76	2,989.76	28.49	51.21	-164.74	257.55	-79.24	1,317.17	1,252.14	65.03	20.255	
3,500.00	3,078.89	3,065.89	3,065.89	29.87	52.54	-165.44	257.55	-79.24	1,380.72	1,313.97	66.76	20.683	
3,600.00	3,155.02	3,142.02	3,142.02	31.25	53.87	-166.07	257.55	-79.24	1,444.39	1,375.90	68.49	21.089	
3,700.00	3,231.14	3,218.14	3,218.14	32.63	55.20	-166.66	257.55	-79.24	1,508.16	1,437.93	70.22	21.477	
3,800.00	3,307.27	3,305.73	3,294.27	34.01	56.73	-167.20	257.55	-79.24	1,572.01	1,499.85	72.16	21.785	
3,900.00	3,383.39	3,370.39	3,370.39	35.40	57.86	-167.70	257.55	-79.24	1,635.95	1,562.25	73.70	22.198	
4,000.00	3,459.52	3,446.52	3,446.52	36.79	59.18	-168.16	257.55	-79.24	1,699.95	1,624.51	75.44	22.535	
4,100.00	3,535.65	3,522.65	3,522.65	38.18	60.51	-168.59	257.55	-79.24	1,764.01	1,686.83	77.18	22.856	
4,200.00	3,611.77	3,601.23	3,598.77	39.57	61.88	-168.99	257.55	-79.24	1,828.13	1,749.16	78.97	23.151	
4,300.00	3,687.90	3,674.90	3,674.90	40.96	63.17	-169.36	257.55	-79.24	1,892.30	1,811.63	80.67	23.457	
4,400.00	3,764.02	3,751.02	3,751.02	42.35	64.50	-169.71	257.55	-79.24	1,956.51	1,874.09	82.42	23.739	
4,500.00	3,840.15	3,827.15	3,827.15	43.74	65.83	-170.03	257.55	-79.24	2,020.76	1,936.60	84.17	24.009	
4,600.00	3,916.28	3,903.28	3,903.28	45.13	67.16	-170.34	257.55	-79.24	2,085.05	1,999.14	85.92	24.268	
4,700.00	3,992.40	3,979.40	3,979.40	46.53	68.49	-170.63	257.55	-79.24	2,149.38	2,061.71	87.67	24.517	
4,800.00	4,068.53	4,055.53	4,055.53	47.92	69.81	-170.90	257.55	-79.24	2,213.73	2,124.31	89.42	24.756	
4,900.00	4,144.66	4,131.66	4,131.66	49.32	71.14	-171.16	257.55	-79.24	2,278.11	2,186.94	91.18	24.986	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,220.78	4,207.78	4,207.78	50.71	72.47	-171.40	257.55	-79.24	2,342.52	2,249.59	92.93	25.207		
5,100.00	4,296.91	4,283.91	4,283.91	52.11	73.80	-171.63	257.55	-79.24	2,406.95	2,312.26	94.69	25.419		
5,200.00	4,373.03	4,360.03	4,360.03	53.51	75.13	-171.85	257.55	-79.24	2,471.40	2,374.95	96.45	25.624		
5,300.00	4,449.16	4,436.16	4,436.16	54.90	76.46	-172.06	257.55	-79.24	2,535.87	2,437.67	98.21	25.821		
5,400.00	4,525.29	4,512.29	4,512.29	56.30	77.79	-172.25	257.55	-79.24	2,600.37	2,500.40	99.97	26.012		
5,500.00	4,601.41	4,588.41	4,588.41	57.70	79.11	-172.44	257.55	-79.24	2,664.87	2,563.14	101.73	26.195		
5,600.00	4,677.54	4,664.54	4,664.54	59.10	80.44	-172.62	257.55	-79.24	2,729.40	2,625.90	103.49	26.373		
5,700.00	4,753.66	4,740.66	4,740.66	60.49	81.77	-172.79	257.55	-79.24	2,793.94	2,688.68	105.26	26.544		
5,800.00	4,829.79	4,816.79	4,816.79	61.89	83.10	-172.95	257.55	-79.24	2,858.49	2,751.47	107.02	26.709		
5,900.00	4,905.92	4,907.08	4,892.92	63.29	84.68	-173.11	257.55	-79.24	2,923.05	2,814.02	109.03	26.809		
6,000.00	4,982.04	4,969.04	4,969.04	64.69	85.76	-173.26	257.55	-79.24	2,987.63	2,877.08	110.55	27.024		
6,100.00	5,058.17	5,045.17	5,045.17	66.09	87.09	-173.40	257.55	-79.24	3,052.22	2,939.90	112.32	27.174		
6,200.00	5,134.30	5,121.30	5,121.30	67.49	88.41	-173.53	257.55	-79.24	3,116.82	3,002.73	114.09	27.319		
6,300.00	5,210.42	5,202.58	5,197.42	68.89	89.83	-173.67	257.55	-79.24	3,181.43	3,065.48	115.95	27.438		
6,400.00	5,286.55	5,273.55	5,273.55	70.29	91.07	-173.79	257.55	-79.24	3,246.05	3,128.42	117.63	27.596		
6,500.00	5,362.67	5,349.67	5,349.67	71.69	92.40	-173.91	257.55	-79.24	3,310.67	3,191.28	119.40	27.728		
6,600.00	5,438.80	5,425.80	5,425.80	73.09	93.73	-174.03	257.55	-79.24	3,375.31	3,254.14	121.17	27.856		
6,700.00	5,514.93	5,501.93	5,501.93	74.49	95.06	-174.14	257.55	-79.24	3,439.95	3,317.01	122.94	27.981		
6,800.00	5,591.05	5,578.05	5,578.05	75.89	96.39	-174.25	257.55	-79.24	3,504.61	3,379.89	124.71	28.101		
6,900.00	5,667.18	5,654.18	5,654.18	77.29	97.72	-174.35	257.55	-79.24	3,569.26	3,442.78	126.49	28.218		
7,000.00	5,743.30	5,730.30	5,730.30	78.69	99.04	-174.45	257.55	-79.24	3,633.93	3,505.67	128.26	28.332		
7,100.00	5,819.43	5,806.43	5,806.43	80.09	100.37	-174.55	257.55	-79.24	3,698.60	3,568.56	130.04	28.443		
7,200.00	5,895.56	5,882.56	5,882.56	81.49	101.70	-174.64	257.55	-79.24	3,763.28	3,631.47	131.81	28.551		
7,300.00	5,971.68	5,958.68	5,958.68	82.90	103.03	-174.73	257.55	-79.24	3,827.96	3,694.37	133.59	28.655		
7,400.00	6,047.81	6,034.81	6,034.81	84.30	104.36	-174.82	257.55	-79.24	3,892.65	3,757.28	135.36	28.757		
7,500.00	6,123.94	6,110.94	6,110.94	85.70	105.69	-174.91	257.55	-79.24	3,957.34	3,820.20	137.14	28.856		
7,600.00	6,200.06	6,187.06	6,187.06	87.10	107.02	-174.99	257.55	-79.24	4,022.04	3,883.12	138.92	28.952		
7,700.00	6,276.19	6,263.19	6,263.19	88.50	108.34	-175.07	257.55	-79.24	4,086.74	3,946.04	140.70	29.046		
7,800.00	6,352.31	6,339.31	6,339.31	89.90	109.67	-175.14	257.55	-79.24	4,151.45	4,008.97	142.48	29.138		
7,900.00	6,428.44	6,415.44	6,415.44	91.31	111.00	-175.22	257.55	-79.24	4,216.16	4,071.90	144.26	29.227		
8,000.00	6,504.57	6,508.43	6,491.57	92.71	112.62	-175.29	257.55	-79.24	4,280.88	4,134.54	146.33	29.255		
8,100.00	6,580.69	6,567.69	6,567.69	94.11	113.66	-175.36	257.55	-79.24	4,345.59	4,197.78	147.82	29.398		
8,200.00	6,656.82	6,643.82	6,643.82	95.51	114.99	-175.43	257.55	-79.24	4,410.32	4,260.72	149.60	29.481		
8,300.00	6,732.95	6,719.95	6,719.95	96.91	116.32	-175.50	257.55	-79.24	4,475.04	4,323.66	151.38	29.562		
8,400.00	6,809.07	6,803.93	6,796.07	98.32	117.78	-175.56	257.55	-79.24	4,539.77	4,386.47	153.30	29.614		
8,500.00	6,885.20	6,872.20	6,872.20	99.72	118.97	-175.62	257.55	-79.24	4,604.51	4,449.56	154.95	29.717		
8,600.00	6,961.32	6,948.32	6,948.32	101.12	120.30	-175.68	257.55	-79.24	4,669.24	4,512.51	156.73	29.792		
8,700.00	7,037.45	7,024.45	7,024.45	102.52	121.63	-175.74	257.55	-79.24	4,733.98	4,575.47	158.51	29.865		
8,732.15	7,061.92	7,048.92	7,048.92	102.97	122.06	-175.76	257.55	-79.24	4,754.80	4,595.71	159.09	29.888		
8,750.00	7,075.57	7,062.57	7,062.57	103.22	122.30	-179.24	257.55	-79.24	4,766.30	4,606.89	159.41	29.900		
8,800.00	7,114.27	7,101.27	7,101.27	103.91	122.97	170.95	257.55	-79.24	4,797.88	4,637.57	160.31	29.929		
8,850.00	7,153.47	7,140.47	7,140.47	104.58	123.66	161.20	257.55	-79.24	4,828.33	4,667.11	161.21	29.950		
8,900.00	7,192.85	7,179.85	7,179.85	105.21	124.34	151.69	257.55	-79.24	4,857.43	4,695.31	162.12	29.962		
8,950.00	7,232.12	7,219.12	7,219.12	105.80	125.03	142.63	257.55	-79.24	4,884.99	4,721.98	163.01	29.967		
9,000.00	7,270.99	7,257.99	7,257.99	106.35	125.71	134.19	257.55	-79.24	4,910.84	4,746.95	163.89	29.965		
9,050.00	7,309.16	7,303.84	7,296.16	106.85	126.51	126.49	257.55	-79.24	4,934.80	4,769.93	164.87	29.931		
9,100.00	7,346.32	7,333.32	7,333.32	107.30	127.02	119.62	257.55	-79.24	4,956.77	4,791.21	165.56	29.940		
9,150.00	7,382.22	7,369.22	7,369.22	107.69	127.65	113.58	257.55	-79.24	4,976.60	4,810.26	166.34	29.917		
9,200.00	7,416.56	7,403.56	7,403.56	108.02	128.25	108.35	257.55	-79.24	4,994.23	4,827.14	167.09	29.889		
9,250.00	7,449.09	7,436.09	7,436.09	108.29	128.82	103.89	257.55	-79.24	5,009.56	4,841.76	167.79	29.855		
9,300.00	7,479.56	7,466.56	7,466.56	108.51	129.35	100.14	257.55	-79.24	5,022.54	4,854.09	168.45	29.816		
9,350.00	7,507.74	7,505.26	7,494.74	108.68	130.02	97.03	257.55	-79.24	5,033.13	4,863.89	169.24	29.739		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,400.00	7,533.41	7,520.41	7,520.41	108.79	130.29	94.50	257.55	-79.24	5,041.30	4,871.69	169.61	29.722		
9,450.00	7,556.39	7,543.39	7,543.39	108.86	130.69	92.49	257.55	-79.24	5,047.05	4,876.93	170.12	29.668		
9,500.00	7,576.48	7,563.48	7,563.48	108.88	131.04	90.97	257.55	-79.24	5,050.37	4,879.80	170.57	29.608		
9,550.00	7,593.55	7,580.55	7,580.55	108.86	131.34	89.89	257.55	-79.24	5,051.28	4,880.31	170.98	29.544		
9,600.00	7,607.46	7,605.54	7,594.46	108.80	131.77	89.23	257.55	-79.24	5,049.81	4,878.29	171.52	29.442		
9,650.00	7,618.11	7,605.11	7,605.11	108.71	131.77	88.95	257.55	-79.24	5,045.99	4,874.37	171.63	29.401		
9,700.00	7,625.41	7,612.41	7,612.41	108.59	131.89	89.05	257.55	-79.24	5,039.87	4,867.99	171.88	29.322		
9,750.00	7,629.30	7,616.30	7,616.30	108.45	131.96	89.52	257.55	-79.24	5,031.50	4,859.41	172.08	29.239		
9,781.81	7,630.00	7,617.00	7,617.00	108.35	131.97	90.00	257.55	-79.24	5,025.03	4,852.84	172.19	29.183		
9,800.00	7,630.00	7,617.00	7,617.00	108.29	131.97	90.00	257.55	-79.24	5,021.11	4,848.86	172.24	29.151		
9,900.00	7,630.00	7,617.00	7,617.00	107.97	131.97	90.00	257.55	-79.24	5,000.69	4,828.11	172.58	28.975		
10,000.00	7,630.00	7,617.00	7,617.00	107.67	131.97	90.00	257.55	-79.24	4,982.20	4,809.22	172.98	28.803		
10,100.00	7,630.00	7,617.00	7,617.00	107.38	131.97	90.00	257.55	-79.24	4,965.65	4,792.23	173.42	28.634		
10,200.00	7,630.00	7,617.00	7,617.00	107.10	131.97	90.00	257.55	-79.24	4,951.06	4,777.15	173.91	28.469		
10,300.00	7,630.00	7,617.00	7,617.00	106.84	131.97	90.00	257.55	-79.24	4,938.46	4,764.01	174.45	28.308		
10,400.00	7,630.00	7,617.00	7,617.00	106.59	131.97	90.00	257.55	-79.24	4,927.86	4,752.82	175.04	28.153		
10,500.00	7,630.00	7,617.00	7,617.00	106.35	131.97	90.00	257.55	-79.24	4,919.26	4,743.60	175.67	28.003		
10,600.00	7,630.00	7,617.00	7,617.00	106.13	131.97	90.00	257.55	-79.24	4,912.69	4,736.35	176.34	27.860		
10,700.00	7,630.00	7,617.00	7,617.00	105.92	131.97	90.00	257.55	-79.24	4,908.15	4,731.10	177.04	27.723		
10,800.00	7,630.00	7,617.00	7,617.00	105.72	131.97	90.00	257.55	-79.24	4,905.64	4,727.86	177.78	27.593		
10,873.12	7,630.00	7,617.00	7,617.00	105.58	131.97	90.00	257.55	-79.24	4,905.09	4,726.74	178.35	27.503		
10,900.00	7,630.00	7,617.00	7,617.00	105.54	131.97	90.00	257.55	-79.24	4,905.17	4,726.61	178.55	27.472		
11,000.00	7,630.00	7,617.00	7,617.00	105.37	131.97	90.00	257.55	-79.24	4,906.73	4,727.38	179.35	27.358		
11,100.00	7,630.00	7,617.00	7,617.00	105.21	131.97	90.00	257.55	-79.24	4,910.34	4,730.17	180.17	27.254		
11,200.00	7,630.00	7,617.00	7,617.00	105.06	131.97	90.00	257.55	-79.24	4,915.97	4,734.96	181.01	27.158		
11,300.00	7,630.00	7,617.00	7,617.00	104.93	131.97	90.00	257.55	-79.24	4,923.63	4,741.76	181.87	27.072		
11,400.00	7,630.00	7,617.00	7,617.00	104.82	131.97	90.00	257.55	-79.24	4,933.31	4,750.56	182.75	26.995		
11,500.00	7,630.00	7,617.00	7,617.00	104.72	131.97	90.00	257.55	-79.24	4,944.99	4,761.36	183.63	26.929		
11,600.00	7,630.00	7,617.00	7,617.00	104.63	131.97	90.00	257.55	-79.24	4,958.66	4,774.14	184.52	26.873		
11,700.00	7,630.00	7,617.00	7,617.00	104.55	131.97	90.00	257.55	-79.24	4,974.30	4,788.88	185.42	26.827		
11,800.00	7,630.00	7,617.00	7,617.00	104.50	131.97	90.00	257.55	-79.24	4,991.90	4,805.58	186.32	26.792		
11,900.00	7,630.00	7,617.00	7,617.00	104.45	131.97	90.00	257.55	-79.24	5,011.43	4,824.21	187.22	26.768		
12,000.00	7,630.00	7,617.00	7,617.00	104.43	131.97	90.00	257.55	-79.24	5,032.87	4,844.76	188.11	26.754		
12,100.00	7,630.00	7,617.00	7,617.00	104.42	131.97	90.00	257.55	-79.24	5,056.20	4,867.20	189.01	26.752		
12,200.00	7,630.00	7,617.00	7,617.00	104.42	131.97	90.00	257.55	-79.24	5,081.39	4,891.50	189.89	26.760		
12,300.00	7,630.00	7,617.00	7,617.00	104.45	131.97	90.00	257.55	-79.24	5,108.42	4,917.65	190.77	26.778		
12,400.00	7,630.00	7,617.00	7,617.00	104.49	131.97	90.00	257.55	-79.24	5,137.25	4,945.61	191.63	26.808		
12,500.00	7,630.00	7,617.00	7,617.00	104.55	131.97	90.00	257.55	-79.24	5,167.85	4,975.37	192.49	26.848		
12,600.00	7,630.00	7,617.00	7,617.00	104.63	131.97	90.00	257.55	-79.24	5,200.20	5,006.87	193.33	26.899		
12,700.00	7,630.00	7,617.00	7,617.00	104.73	131.97	90.00	257.55	-79.24	5,234.26	5,040.10	194.15	26.960		
12,800.00	7,630.00	7,617.00	7,617.00	104.85	131.97	90.00	257.55	-79.24	5,269.99	5,075.03	194.96	27.031		
12,900.00	7,630.00	7,617.00	7,617.00	104.99	131.97	90.00	257.55	-79.24	5,307.37	5,111.61	195.76	27.112		
13,000.00	7,630.00	7,617.00	7,617.00	105.15	131.97	90.00	257.55	-79.24	5,346.36	5,149.83	196.53	27.203		
13,100.00	7,630.00	7,617.00	7,617.00	105.34	131.97	90.00	257.55	-79.24	5,386.92	5,189.63	197.29	27.304		
13,200.00	7,630.00	7,617.00	7,617.00	105.56	131.97	90.00	257.55	-79.24	5,429.03	5,230.99	198.04	27.414		
13,300.00	7,630.00	7,617.00	7,617.00	105.80	131.97	90.00	257.55	-79.24	5,472.63	5,273.87	198.76	27.534		
13,400.00	7,630.00	7,617.00	7,617.00	106.06	131.97	90.00	257.55	-79.24	5,517.70	5,318.24	199.46	27.663		
13,500.00	7,630.00	7,617.00	7,617.00	106.36	131.97	90.00	257.55	-79.24	5,564.21	5,364.06	200.15	27.801		
13,600.00	7,630.00	7,617.00	7,617.00	106.68	131.97	90.00	257.55	-79.24	5,612.11	5,411.30	200.81	27.947		
13,700.00	7,630.00	7,617.00	7,617.00	107.03	131.97	90.00	257.55	-79.24	5,661.38	5,459.92	201.46	28.102		
13,800.00	7,630.00	7,617.00	7,617.00	107.42	131.97	90.00	257.55	-79.24	5,711.97	5,509.88	202.08	28.265		
13,900.00	7,630.00	7,617.00	7,617.00	107.83	131.97	90.00	257.55	-79.24	5,763.85	5,561.16	202.69	28.436		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,000.00	7,630.00	7,617.00	7,617.00	108.28	131.97	90.00	257.55	-79.24	5,816.99	5,613.70	203.28	28.615		
14,100.00	7,630.00	7,617.00	7,617.00	108.77	131.97	90.00	257.55	-79.24	5,871.35	5,667.49	203.85	28.802		
14,200.00	7,630.00	7,617.00	7,617.00	109.29	131.97	90.00	257.55	-79.24	5,926.89	5,722.49	204.40	28.996		
14,300.00	7,630.00	7,617.00	7,617.00	109.84	131.97	90.00	257.55	-79.24	5,983.60	5,778.66	204.94	29.197		
14,400.00	7,630.00	7,617.00	7,617.00	110.43	131.97	90.00	257.55	-79.24	6,041.43	5,835.97	205.45	29.405		
14,500.00	7,630.00	7,617.00	7,617.00	111.06	131.97	90.00	257.55	-79.24	6,100.34	5,894.39	205.95	29.620		
14,600.00	7,630.00	7,617.00	7,617.00	111.72	131.97	90.00	257.55	-79.24	6,160.32	5,953.89	206.43	29.842		
14,700.00	7,630.00	7,617.00	7,617.00	112.42	131.97	90.00	257.55	-79.24	6,221.33	6,014.43	206.90	30.069		
14,800.00	7,630.00	7,617.00	7,617.00	113.16	131.97	90.00	257.55	-79.24	6,283.34	6,075.99	207.35	30.303		
14,900.00	7,630.00	7,617.00	7,617.00	113.94	131.97	90.00	257.55	-79.24	6,346.31	6,138.53	207.78	30.543		
15,000.00	7,630.00	7,617.00	7,617.00	114.75	131.97	90.00	257.55	-79.24	6,410.23	6,202.04	208.20	30.789		
15,100.00	7,630.00	7,617.00	7,617.00	115.60	131.97	90.00	257.55	-79.24	6,475.06	6,266.46	208.60	31.041		
15,200.00	7,630.00	7,617.00	7,617.00	116.48	131.97	90.00	257.55	-79.24	6,540.78	6,331.79	208.99	31.297		
15,300.00	7,630.00	7,617.00	7,617.00	117.40	131.97	90.00	257.55	-79.24	6,607.36	6,398.00	209.36	31.559		
15,400.00	7,630.00	7,617.00	7,617.00	118.35	131.97	90.00	257.55	-79.24	6,674.77	6,465.05	209.72	31.827		
15,500.00	7,630.00	7,617.00	7,617.00	119.34	131.97	90.00	257.55	-79.24	6,742.99	6,532.92	210.07	32.099		
15,600.00	7,630.00	7,617.00	7,617.00	120.35	131.97	90.00	257.55	-79.24	6,812.00	6,601.59	210.41	32.376		
15,700.00	7,630.00	7,617.00	7,617.00	121.40	131.97	90.00	257.55	-79.24	6,881.77	6,671.04	210.73	32.657		
15,800.00	7,630.00	7,617.00	7,617.00	122.48	131.97	90.00	257.55	-79.24	6,952.27	6,741.23	211.04	32.943		
15,900.00	7,630.00	7,617.00	7,617.00	123.58	131.97	90.00	257.55	-79.24	7,023.49	6,812.16	211.34	33.233		
16,000.00	7,630.00	7,617.00	7,617.00	124.71	131.97	90.00	257.55	-79.24	7,095.41	6,883.78	211.63	33.528		
16,100.00	7,630.00	7,617.00	7,617.00	125.87	131.97	90.00	257.55	-79.24	7,168.00	6,956.10	211.90	33.826		
16,200.00	7,630.00	7,617.00	7,617.00	127.05	131.97	90.00	257.55	-79.24	7,241.24	7,029.07	212.17	34.129		
16,300.00	7,630.00	7,617.00	7,617.00	128.26	131.97	90.00	257.55	-79.24	7,315.12	7,102.69	212.43	34.435		
16,400.00	7,630.00	7,617.00	7,617.00	129.48	131.97	90.00	257.55	-79.24	7,389.61	7,176.93	212.68	34.745		
16,500.00	7,630.00	7,617.00	7,617.00	130.73	131.97	90.00	257.55	-79.24	7,464.70	7,251.78	212.92	35.059		
16,600.00	7,630.00	7,617.00	7,617.00	132.00	131.97	90.00	257.55	-79.24	7,540.37	7,327.22	213.15	35.376		
16,700.00	7,630.00	7,617.00	7,617.00	133.29	131.97	90.00	257.55	-79.24	7,616.59	7,403.22	213.37	35.696		
16,800.00	7,630.00	7,617.00	7,617.00	134.59	131.97	90.00	257.55	-79.24	7,693.36	7,479.78	213.59	36.020		
16,900.00	7,630.00	7,617.00	7,617.00	135.91	131.97	90.00	257.55	-79.24	7,770.66	7,556.87	213.79	36.347		
17,000.00	7,630.00	7,617.00	7,617.00	137.25	131.97	90.00	257.55	-79.24	7,848.48	7,634.49	213.99	36.677		
17,100.00	7,630.00	7,617.00	7,617.00	138.61	131.97	90.00	257.55	-79.24	7,926.79	7,712.61	214.18	37.009		
17,200.00	7,630.00	7,617.00	7,617.00	139.97	131.97	90.00	257.55	-79.24	8,005.58	7,791.21	214.37	37.345		
17,300.00	7,630.00	7,617.00	7,617.00	141.36	131.97	90.00	257.55	-79.24	8,084.85	7,870.30	214.55	37.683		
17,400.00	7,630.00	7,617.00	7,617.00	142.75	131.97	90.00	257.55	-79.24	8,164.56	7,949.84	214.72	38.024		
17,500.00	7,630.00	7,617.00	7,617.00	144.16	131.97	90.00	257.55	-79.24	8,244.73	8,029.84	214.89	38.368		
17,600.00	7,630.00	7,617.00	7,617.00	145.58	131.97	90.00	257.55	-79.24	8,325.31	8,110.27	215.05	38.714		
17,700.00	7,630.00	7,617.00	7,617.00	147.01	131.97	90.00	257.55	-79.24	8,406.32	8,191.12	215.20	39.062		
17,800.00	7,630.00	7,617.00	7,617.00	148.45	131.97	90.00	257.55	-79.24	8,487.73	8,272.38	215.35	39.413		
17,900.00	7,630.00	7,617.00	7,617.00	149.91	131.97	90.00	257.55	-79.24	8,569.54	8,354.04	215.50	39.766		
18,000.00	7,630.00	7,617.00	7,617.00	151.37	131.97	90.00	257.55	-79.24	8,651.73	8,436.09	215.64	40.122		
18,100.00	7,630.00	7,617.00	7,617.00	152.84	131.97	90.00	257.55	-79.24	8,734.29	8,518.51	215.77	40.479		
18,200.00	7,630.00	7,617.00	7,617.00	154.32	131.97	90.00	257.55	-79.24	8,817.21	8,601.30	215.90	40.839		
18,300.00	7,630.00	7,617.00	7,617.00	155.81	131.97	90.00	257.55	-79.24	8,900.48	8,684.45	216.03	41.200		
18,400.00	7,630.00	7,617.00	7,617.00	157.31	131.97	90.00	257.55	-79.24	8,984.09	8,767.94	216.15	41.564		
18,500.00	7,630.00	7,617.00	7,617.00	158.81	131.97	90.00	257.55	-79.24	9,068.03	8,851.76	216.27	41.929		
18,600.00	7,630.00	7,617.00	7,617.00	160.32	131.97	90.00	257.55	-79.24	9,152.30	8,935.92	216.39	42.296		
18,700.00	7,630.00	7,617.00	7,617.00	161.84	131.97	90.00	257.55	-79.24	9,236.88	9,020.38	216.50	42.665		
18,800.00	7,630.00	7,617.00	7,617.00	163.37	131.97	90.00	257.55	-79.24	9,321.77	9,105.16	216.61	43.036		
18,900.00	7,630.00	7,617.00	7,617.00	164.90	131.97	90.00	257.55	-79.24	9,406.95	9,190.24	216.71	43.408		
19,000.00	7,630.00	7,617.00	7,617.00	166.43	131.97	90.00	257.55	-79.24	9,492.43	9,275.61	216.81	43.782		
19,100.00	7,630.00	7,617.00	7,617.00	167.98	131.97	90.00	257.55	-79.24	9,578.18	9,361.27	216.91	44.157		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	7,617.00	7,617.00	169.53	131.97	90.00	257.55	-79.24	9,664.21	9,447.20	217.01	44.534	
19,300.00	7,630.00	7,617.00	7,617.00	171.08	131.97	90.00	257.55	-79.24	9,750.50	9,533.40	217.10	44.913	
19,400.00	7,630.00	7,617.00	7,617.00	172.64	131.97	90.00	257.55	-79.24	9,837.05	9,619.87	217.19	45.293	
19,500.00	7,630.00	7,617.00	7,617.00	174.21	131.97	90.00	257.55	-79.24	9,923.86	9,706.58	217.28	45.674	
19,518.56	7,630.00	7,617.00	7,617.00	174.50	131.97	90.00	257.55	-79.24	9,940.00	9,722.71	217.29	45.745	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.54	0.73	-89.88	89.88					
100.00	100.00	102.00	102.00	0.13	0.14	-89.54	0.73	-89.88	89.88	89.61	0.28	325.638		
200.00	200.00	202.00	202.00	0.49	0.50	-89.54	0.73	-89.88	89.88	88.89	0.99	90.520		
300.00	300.00	302.00	302.00	0.85	0.86	-89.54	0.73	-89.88	89.88	88.17	1.71	52.566		
400.00	400.00	402.00	402.00	1.21	1.22	-89.54	0.73	-89.88	89.88	87.46	2.43	37.037	CC, ES	
500.00	499.98	501.98	501.98	1.56	1.58	-156.69	0.73	-89.88	91.48	88.34	3.14	29.141		
600.00	599.84	601.84	601.84	1.92	1.93	-157.88	0.73	-89.88	96.31	92.46	3.85	25.001		
700.00	699.45	701.45	701.45	2.29	2.29	-159.63	0.73	-89.88	104.44	99.87	4.57	22.860		
800.00	798.70	800.70	800.70	2.67	2.65	-161.65	0.73	-89.88	115.95	110.66	5.29	21.930		
900.00	897.47	900.53	899.47	3.07	3.00	-163.72	0.73	-89.88	130.90	124.89	6.01	21.776		
1,000.00	995.62	1,002.38	997.62	3.50	3.37	-165.68	0.73	-89.88	149.33	142.59	6.75	22.138		
1,100.00	1,093.06	1,104.94	1,095.06	3.96	3.74	-167.44	0.73	-89.88	171.24	163.76	7.49	22.877		
1,200.00	1,189.64	1,208.36	1,191.64	4.46	4.11	-168.98	0.73	-89.88	196.61	188.38	8.23	23.886		
1,300.00	1,285.27	1,287.27	1,287.27	5.00	4.39	-170.30	0.73	-89.88	225.41	216.52	8.89	25.349		
1,400.00	1,379.82	1,388.55	1,388.54	5.60	4.75	-171.33	1.73	-88.95	256.53	246.89	9.64	26.612		
1,500.00	1,473.17	1,491.75	1,491.60	6.25	5.12	-171.84	5.42	-85.51	288.11	277.71	10.40	27.713		
1,600.00	1,565.21	1,595.95	1,595.42	6.95	5.49	-171.97	11.91	-79.48	320.05	308.88	11.16	28.672		
1,700.00	1,655.84	1,701.15	1,699.84	7.72	5.87	-171.81	21.26	-70.78	352.30	340.36	11.94	29.506		
1,800.00	1,744.94	1,807.35	1,804.70	8.55	6.27	-171.42	33.53	-59.35	384.85	372.12	12.73	30.226		
1,900.00	1,832.39	1,914.53	1,909.83	9.45	6.69	-170.86	48.79	-45.15	417.68	404.13	13.54	30.839		
2,000.00	1,918.11	2,022.70	2,015.06	10.41	7.14	-170.15	67.11	-28.11	450.77	436.39	14.38	31.342		
2,100.00	2,001.97	2,131.84	2,120.20	11.45	7.63	-169.32	88.52	-8.18	484.14	468.88	15.25	31.743		
2,200.00	2,083.88	2,241.93	2,225.05	12.56	8.15	-168.39	113.07	14.67	517.77	501.60	16.16	32.037		
2,300.00	2,163.74	2,352.98	2,329.43	13.74	8.73	-167.38	140.80	40.48	551.67	534.54	17.12	32.220		
2,400.00	2,241.45	2,464.96	2,433.11	14.99	9.37	-166.29	171.74	69.28	585.84	567.69	18.14	32.290		
2,421.22	2,257.65	2,488.83	2,450.01	15.26	9.51	-166.05	178.72	75.77	593.12	574.75	18.37	32.288		
2,500.00	2,317.63	2,578.24	2,536.25	16.29	10.07	-165.26	206.04	101.20	619.30	600.06	19.24	32.194		
2,600.00	2,393.75	2,671.76	2,620.68	17.62	10.69	-164.43	235.49	128.61	651.55	631.20	20.34	32.030		
2,700.00	2,469.88	2,766.01	2,705.76	18.95	11.33	-163.68	265.18	156.23	683.91	662.42	21.48	31.836		
2,800.00	2,546.01	2,860.26	2,790.84	20.30	11.99	-162.99	294.86	183.86	716.37	693.71	22.65	31.622		
2,900.00	2,622.13	2,954.51	2,875.92	21.65	12.67	-162.36	324.54	211.48	748.91	725.05	23.85	31.396		
3,000.00	2,698.26	3,048.76	2,961.00	23.01	13.35	-161.78	354.22	239.11	781.52	756.45	25.08	31.164		
3,100.00	2,774.38	3,143.01	3,046.08	24.37	14.05	-161.25	383.91	266.73	814.21	787.88	26.32	30.930		
3,200.00	2,850.51	3,237.26	3,131.16	25.74	14.76	-160.77	413.59	294.35	846.95	819.36	27.59	30.697		
3,300.00	2,926.64	3,331.51	3,216.24	27.11	15.47	-160.31	443.27	321.98	879.74	850.86	28.87	30.468		
3,400.00	3,002.76	3,425.76	3,301.33	28.49	16.19	-159.89	472.95	349.60	912.57	882.40	30.17	30.243		
3,500.00	3,078.89	3,520.01	3,386.41	29.87	16.92	-159.50	502.64	377.23	945.45	913.96	31.49	30.025		
3,600.00	3,155.02	3,614.26	3,471.49	31.25	17.65	-159.14	532.32	404.85	978.37	945.55	32.82	29.813		
3,700.00	3,231.14	3,708.51	3,556.57	32.63	18.39	-158.79	562.00	432.48	1,011.31	977.16	34.16	29.609		
3,800.00	3,307.27	3,802.76	3,641.65	34.01	19.13	-158.47	591.68	460.10	1,044.29	1,008.79	35.51	29.412		
3,900.00	3,383.39	3,902.99	3,726.73	35.40	19.92	-158.17	621.37	487.73	1,077.30	1,040.40	36.90	29.194		
4,000.00	3,459.52	4,008.74	3,811.81	36.79	20.75	-157.89	651.05	515.35	1,110.33	1,071.99	38.34	28.958		
4,100.00	3,535.65	4,085.51	3,896.89	38.18	21.37	-157.62	680.73	542.98	1,143.38	1,103.77	39.61	28.866		
4,200.00	3,611.77	4,179.76	3,981.98	39.57	22.12	-157.37	710.41	570.60	1,176.46	1,135.46	40.99	28.699		
4,300.00	3,687.90	4,274.01	4,067.06	40.96	22.87	-157.14	740.10	598.23	1,209.55	1,167.16	42.38	28.538		
4,400.00	3,764.02	4,368.26	4,152.14	42.35	23.63	-156.91	769.78	625.85	1,242.66	1,198.88	43.78	28.384		
4,500.00	3,840.15	4,462.51	4,237.22	43.74	24.39	-156.70	799.46	653.47	1,275.79	1,230.60	45.18	28.237		
4,600.00	3,916.28	4,556.76	4,322.30	45.13	25.15	-156.49	829.14	681.10	1,308.93	1,262.34	46.59	28.095		
4,700.00	3,992.40	4,651.01	4,407.38	46.53	25.91	-156.30	858.83	708.72	1,342.08	1,294.08	48.00	27.959		
4,800.00	4,068.53	4,745.26	4,492.46	47.92	26.67	-156.12	888.51	736.35	1,375.25	1,325.83	49.42	27.829		
4,900.00	4,144.66	4,839.51	4,577.55	49.32	27.43	-155.94	918.19	763.97	1,408.43	1,357.59	50.84	27.704		
5,000.00	4,220.78	4,933.76	4,662.63	50.71	28.20	-155.78	947.87	791.60	1,441.62	1,389.36	52.26	27.584		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,028.01	4,747.71	52.11	28.96	-155.62	977.56	819.22	1,474.82	1,421.13	53.69	27.469		
5,200.00	4,373.03	5,122.26	4,832.79	53.51	29.73	-155.47	1,007.24	846.85	1,508.04	1,452.91	55.12	27.358		
5,300.00	4,449.16	5,216.51	4,917.87	54.90	30.50	-155.32	1,036.92	874.47	1,541.26	1,484.70	56.56	27.252		
5,400.00	4,525.29	5,310.76	5,002.95	56.30	31.27	-155.18	1,066.60	902.10	1,574.49	1,516.49	57.99	27.149		
5,500.00	4,601.41	5,405.01	5,088.03	57.70	32.04	-155.05	1,096.29	929.72	1,607.72	1,548.29	59.43	27.051		
5,600.00	4,677.54	5,500.74	5,173.11	59.10	32.82	-154.92	1,125.97	957.35	1,640.97	1,580.08	60.89	26.951		
5,700.00	4,753.66	5,606.49	5,258.20	60.49	33.69	-154.80	1,155.65	984.97	1,674.22	1,611.81	62.41	26.827		
5,800.00	4,829.79	5,687.76	5,343.28	61.89	34.35	-154.68	1,185.33	1,012.59	1,707.48	1,643.71	63.77	26.776		
5,900.00	4,905.92	5,782.00	5,428.36	63.29	35.13	-154.56	1,215.02	1,040.22	1,740.74	1,675.53	65.22	26.691		
6,000.00	4,982.04	5,876.25	5,513.44	64.69	35.90	-154.45	1,244.70	1,067.84	1,774.01	1,707.34	66.67	26.609		
6,100.00	5,058.17	5,970.50	5,598.52	66.09	36.67	-154.35	1,274.38	1,095.47	1,807.29	1,739.17	68.12	26.530		
6,200.00	5,134.30	6,064.75	5,683.60	67.49	37.45	-154.25	1,304.06	1,123.09	1,840.57	1,770.99	69.58	26.454		
6,300.00	5,210.42	6,159.00	5,768.68	68.89	38.22	-154.15	1,333.75	1,150.72	1,873.86	1,802.82	71.03	26.380		
6,400.00	5,286.55	6,253.25	5,853.77	70.29	39.00	-154.05	1,363.43	1,178.34	1,907.15	1,834.66	72.49	26.309		
6,500.00	5,362.67	6,347.50	5,938.85	71.69	39.77	-153.96	1,393.11	1,205.97	1,940.44	1,866.49	73.95	26.240		
6,600.00	5,438.80	6,441.75	6,023.93	73.09	40.55	-153.87	1,422.79	1,233.59	1,973.74	1,898.33	75.41	26.173		
6,700.00	5,514.93	6,536.00	6,109.01	74.49	41.32	-153.79	1,452.48	1,261.22	2,007.05	1,930.17	76.87	26.108		
6,800.00	5,591.05	6,630.25	6,194.09	75.89	42.10	-153.70	1,482.16	1,288.84	2,040.35	1,962.02	78.34	26.046		
6,900.00	5,667.18	6,724.50	6,279.17	77.29	42.88	-153.62	1,511.84	1,316.47	2,073.67	1,993.86	79.80	25.985		
7,000.00	5,743.30	6,818.75	6,364.25	78.69	43.65	-153.55	1,541.52	1,344.09	2,106.98	2,025.71	81.27	25.926		
7,100.00	5,819.43	6,913.00	6,449.33	80.09	44.43	-153.47	1,571.21	1,371.72	2,140.30	2,057.56	82.73	25.869		
7,200.00	5,895.56	7,007.25	6,534.42	81.49	45.21	-153.40	1,600.89	1,399.34	2,173.62	2,089.42	84.20	25.814		
7,300.00	5,971.68	7,101.50	6,619.50	82.90	45.99	-153.33	1,630.57	1,426.96	2,206.94	2,121.27	85.67	25.760		
7,400.00	6,047.81	7,204.25	6,704.58	84.30	46.84	-153.26	1,660.26	1,454.59	2,240.27	2,153.07	87.20	25.691		
7,500.00	6,123.94	7,290.00	6,789.66	85.70	47.54	-153.19	1,689.94	1,482.21	2,273.60	2,184.99	88.61	25.658		
7,600.00	6,200.06	7,384.25	6,874.74	87.10	48.32	-153.13	1,719.62	1,509.84	2,306.93	2,216.85	90.08	25.609		
7,700.00	6,276.19	7,478.50	6,959.82	88.50	49.10	-153.07	1,749.30	1,537.46	2,340.27	2,248.71	91.56	25.561		
7,800.00	6,352.31	7,572.75	7,044.90	89.90	49.88	-153.01	1,778.99	1,565.09	2,373.61	2,280.58	93.03	25.514		
7,900.00	6,428.44	7,667.00	7,129.98	91.31	50.66	-152.95	1,808.67	1,592.71	2,406.95	2,312.44	94.50	25.469		
8,000.00	6,504.57	7,762.38	7,235.94	92.71	51.54	-153.05	1,838.15	1,627.09	2,439.99	2,344.02	95.97	25.424		
8,100.00	6,580.69	7,859.71	7,347.17	94.11	52.20	-153.72	1,865.22	1,663.09	2,472.10	2,375.58	96.52	25.612		
8,200.00	6,656.82	8,003.23	7,444.69	95.51	52.54	-154.74	1,831.58	1,694.60	2,503.83	2,407.59	96.24	26.017		
8,300.00	6,732.95	8,089.86	7,523.42	96.91	52.66	-155.88	1,806.15	1,719.98	2,535.99	2,440.46	95.52	26.548		
8,400.00	6,809.07	8,160.37	7,584.24	98.32	52.66	-156.98	1,776.43	1,739.55	2,569.34	2,474.67	94.66	27.142		
8,500.00	6,885.20	8,217.27	7,630.50	99.72	52.60	-157.96	1,746.86	1,754.42	2,604.45	2,510.65	93.80	27.766		
8,600.00	6,961.32	8,263.31	7,665.75	101.12	52.52	-158.81	1,719.51	1,765.73	2,641.69	2,548.71	92.98	28.411		
8,700.00	7,037.45	8,300.00	7,692.27	102.52	52.44	-159.51	1,695.64	1,774.23	2,681.30	2,589.07	92.23	29.071		
8,732.15	7,061.92	8,311.47	7,700.26	102.97	52.41	-159.74	1,687.81	1,776.79	2,694.56	2,602.58	91.98	29.296		
8,750.00	7,075.57	8,317.24	7,704.22	103.22	52.39	-162.70	1,683.82	1,778.05	2,702.04	2,610.19	91.85	29.418		
8,800.00	7,114.27	8,333.97	7,715.49	103.91	52.34	-171.33	1,671.99	1,781.66	2,723.41	2,631.91	91.50	29.764		
8,850.00	7,153.47	8,350.00	7,725.97	104.58	52.29	179.70	1,660.34	1,785.01	2,745.25	2,654.05	91.21	30.099		
8,900.00	7,192.85	8,369.62	7,738.38	105.21	52.23	170.53	1,645.66	1,788.97	2,767.34	2,676.47	90.86	30.456		
8,950.00	7,232.12	8,388.35	7,749.77	105.80	52.16	161.48	1,631.24	1,792.61	2,789.45	2,698.87	90.58	30.797		
9,000.00	7,270.99	8,400.00	7,756.62	106.35	52.12	152.87	1,622.08	1,794.79	2,811.40	2,720.92	90.47	31.074		
9,050.00	7,309.16	8,427.30	7,771.98	106.85	52.01	144.56	1,600.06	1,799.69	2,832.93	2,742.87	90.06	31.458		
9,100.00	7,346.32	8,450.00	7,783.98	107.30	51.92	136.95	1,581.17	1,803.51	2,853.91	2,764.14	89.77	31.792		
9,150.00	7,382.22	8,467.86	7,792.92	107.69	51.84	130.11	1,565.97	1,806.35	2,874.14	2,784.51	89.62	32.069		
9,200.00	7,416.56	8,488.65	7,802.75	108.02	51.75	123.95	1,547.92	1,809.47	2,893.44	2,804.00	89.44	32.349		
9,250.00	7,449.09	8,500.00	7,807.85	108.29	51.70	118.58	1,537.91	1,811.08	2,911.70	2,822.17	89.53	32.523		
9,300.00	7,479.56	8,531.05	7,820.84	108.51	51.54	113.72	1,510.01	1,815.19	2,928.67	2,839.50	89.17	32.843		
9,350.00	7,507.74	8,550.00	7,828.05	108.68	51.45	109.59	1,492.64	1,817.46	2,944.31	2,855.16	89.15	33.026		
9,400.00	7,533.41	8,574.36	7,836.51	108.79	51.33	106.02	1,469.95	1,820.12	2,958.47	2,869.44	89.03	33.229		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,600.00	7,844.41	108.86	51.20	102.98	1,445.69	1,822.59	2,971.05	2,882.13	88.92	33.411		
9,500.00	7,576.48	8,618.38	7,849.44	108.88	51.10	100.49	1,428.08	1,824.16	2,981.94	2,892.89	89.05	33.488		
9,550.00	7,593.55	8,650.00	7,856.82	108.86	50.93	98.42	1,397.42	1,826.44	2,991.10	2,902.24	88.86	33.660		
9,600.00	7,607.46	8,662.90	7,859.37	108.80	50.85	96.85	1,384.79	1,827.23	2,998.38	2,909.16	89.22	33.606		
9,650.00	7,618.11	8,685.30	7,863.15	108.71	50.73	95.68	1,362.75	1,828.37	3,003.81	2,914.43	89.37	33.609		
9,700.00	7,625.41	8,700.00	7,865.18	108.59	50.65	94.92	1,348.21	1,828.98	3,007.34	2,917.56	89.78	33.495		
9,750.00	7,629.30	8,730.23	7,868.24	108.45	50.47	94.55	1,318.14	1,829.87	3,008.89	2,919.09	89.81	33.503		
9,781.81	7,630.00	8,750.00	7,869.43	108.35	50.36	94.53	1,298.42	1,830.19	3,008.89	2,919.07	89.83	33.497		
9,800.00	7,630.00	8,750.00	7,869.43	108.29	50.36	94.53	1,298.42	1,830.19	3,008.68	2,918.52	90.16	33.370		
9,853.17	7,630.00	8,777.28	7,870.00	108.12	50.21	94.54	1,271.14	1,830.28	3,008.43	2,918.06	90.37	33.289		
9,900.00	7,630.00	8,824.11	7,870.00	107.97	49.94	94.54	1,224.32	1,830.12	3,008.43	2,918.52	89.92	33.458		
10,000.00	7,630.00	8,924.11	7,870.00	107.67	49.40	94.54	1,124.32	1,829.78	3,008.44	2,919.40	89.04	33.788		
10,100.00	7,630.00	9,024.11	7,870.00	107.38	48.89	94.54	1,024.32	1,829.44	3,008.44	2,920.14	88.29	34.073		
10,200.00	7,630.00	9,124.11	7,870.00	107.10	48.41	94.54	924.32	1,829.10	3,008.44	2,920.75	87.69	34.309		
10,300.00	7,630.00	9,224.11	7,870.00	106.84	47.96	94.54	824.32	1,828.76	3,008.44	2,921.22	87.22	34.492		
10,400.00	7,630.00	9,324.11	7,870.00	106.59	47.53	94.54	724.32	1,828.42	3,008.45	2,921.55	86.90	34.620		
10,500.00	7,630.00	9,424.11	7,870.00	106.35	47.12	94.54	624.32	1,828.08	3,008.45	2,921.73	86.72	34.692		
10,600.00	7,630.00	9,524.11	7,870.00	106.13	46.75	94.54	524.32	1,827.74	3,008.45	2,921.77	86.68	34.706		
10,700.00	7,630.00	9,624.11	7,870.00	105.92	46.39	94.54	424.32	1,827.40	3,008.45	2,921.66	86.79	34.662		
10,800.00	7,630.00	9,724.11	7,870.00	105.72	46.06	94.54	324.32	1,827.06	3,008.46	2,921.41	87.05	34.560		
10,900.00	7,630.00	9,824.11	7,870.00	105.54	45.75	94.54	224.32	1,826.72	3,008.46	2,921.01	87.45	34.403		
11,000.00	7,630.00	9,924.11	7,870.00	105.37	45.47	94.54	124.32	1,826.38	3,008.46	2,920.48	87.99	34.192		
11,100.00	7,630.00	10,024.11	7,870.00	105.21	45.21	94.54	24.32	1,826.04	3,008.46	2,919.80	88.66	33.931		
11,200.00	7,630.00	10,124.11	7,870.00	105.06	44.98	94.54	-75.68	1,825.70	3,008.47	2,918.99	89.48	33.623		
11,300.00	7,630.00	10,224.11	7,870.00	104.93	44.78	94.54	-175.68	1,825.36	3,008.47	2,918.05	90.42	33.273		
11,400.00	7,630.00	10,324.11	7,870.00	104.82	44.62	94.54	-275.68	1,825.02	3,008.47	2,916.98	91.49	32.884		
11,500.00	7,630.00	10,424.11	7,870.00	104.72	44.55	94.54	-375.67	1,824.68	3,008.48	2,915.79	92.68	32.461		
11,600.00	7,630.00	10,524.11	7,870.00	104.63	44.61	94.54	-475.67	1,824.34	3,008.48	2,914.49	93.99	32.009		
11,700.00	7,630.00	10,624.11	7,870.00	104.55	44.92	94.54	-575.67	1,824.00	3,008.48	2,913.07	95.41	31.532		
11,800.00	7,630.00	10,724.11	7,870.00	104.50	45.52	94.54	-675.67	1,823.66	3,008.48	2,911.54	96.94	31.034		
11,900.00	7,630.00	10,824.11	7,870.00	104.45	46.36	94.54	-775.67	1,823.32	3,008.49	2,909.91	98.57	30.521		
12,000.00	7,630.00	10,924.11	7,870.00	104.43	47.33	94.54	-875.67	1,822.98	3,008.49	2,908.19	100.30	29.995		
12,100.00	7,630.00	11,024.11	7,870.00	104.42	48.39	94.54	-975.67	1,822.64	3,008.49	2,906.37	102.12	29.460		
12,200.00	7,630.00	11,124.11	7,870.00	104.42	49.50	94.54	-1,075.67	1,822.30	3,008.49	2,904.46	104.03	28.920		
12,300.00	7,630.00	11,224.11	7,870.00	104.45	50.65	94.54	-1,175.67	1,821.96	3,008.50	2,902.48	106.02	28.377		
12,400.00	7,630.00	11,324.11	7,870.00	104.49	51.84	94.54	-1,275.67	1,821.62	3,008.50	2,900.41	108.09	27.834		
12,500.00	7,630.00	11,424.11	7,870.00	104.55	53.06	94.54	-1,375.67	1,821.28	3,008.50	2,898.27	110.23	27.293		
12,600.00	7,630.00	11,524.11	7,870.00	104.63	54.31	94.54	-1,475.67	1,820.94	3,008.50	2,896.06	112.44	26.757		
12,700.00	7,630.00	11,624.11	7,870.00	104.73	55.58	94.54	-1,575.67	1,820.60	3,008.51	2,893.79	114.72	26.226		
12,800.00	7,630.00	11,724.11	7,870.00	104.85	56.88	94.54	-1,675.67	1,820.26	3,008.51	2,891.46	117.05	25.702		
12,900.00	7,630.00	11,824.11	7,870.00	104.99	58.20	94.54	-1,775.67	1,819.92	3,008.51	2,889.06	119.45	25.187		
13,000.00	7,630.00	11,924.11	7,870.00	105.15	59.54	94.54	-1,875.67	1,819.58	3,008.51	2,886.62	121.90	24.680		
13,100.00	7,630.00	12,024.11	7,870.00	105.34	60.90	94.54	-1,975.67	1,819.24	3,008.52	2,884.12	124.40	24.184		
13,200.00	7,630.00	12,124.11	7,870.00	105.56	62.27	94.54	-2,075.66	1,818.90	3,008.52	2,881.57	126.95	23.699		
13,300.00	7,630.00	12,224.11	7,870.00	105.80	63.67	94.54	-2,175.66	1,818.56	3,008.52	2,878.98	129.54	23.224		
13,400.00	7,630.00	12,324.11	7,870.00	106.06	65.08	94.54	-2,275.66	1,818.22	3,008.52	2,876.34	132.18	22.760		
13,500.00	7,630.00	12,424.11	7,870.00	106.36	66.50	94.54	-2,375.66	1,817.88	3,008.53	2,873.67	134.86	22.309		
13,600.00	7,630.00	12,524.11	7,870.00	106.68	67.94	94.54	-2,475.66	1,817.54	3,008.53	2,870.95	137.58	21.868		
13,700.00	7,630.00	12,624.11	7,870.00	107.03	69.40	94.54	-2,575.66	1,817.21	3,008.53	2,868.21	140.33	21.439		
13,800.00	7,630.00	12,724.11	7,870.00	107.42	70.86	94.54	-2,675.66	1,816.87	3,008.54	2,865.42	143.11	21.022		
13,900.00	7,630.00	12,824.11	7,870.00	107.83	72.34	94.54	-2,775.66	1,816.53	3,008.54	2,862.61	145.93	20.616		
14,000.00	7,630.00	12,924.11	7,870.00	108.28	73.83	94.54	-2,875.66	1,816.19	3,008.54	2,859.76	148.78	20.222		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	13,024.11	7,870.00	108.77	75.33	94.54	-2,975.66	1,815.85	3,008.54	2,856.89	151.65	19.838		
14,200.00	7,630.00	13,124.11	7,870.00	109.29	76.83	94.54	-3,075.66	1,815.51	3,008.55	2,853.99	154.55	19.466		
14,300.00	7,630.00	13,224.11	7,870.00	109.84	78.35	94.54	-3,175.66	1,815.17	3,008.55	2,851.07	157.48	19.104		
14,400.00	7,630.00	13,324.11	7,870.00	110.43	79.88	94.54	-3,275.66	1,814.83	3,008.55	2,848.12	160.43	18.753		
14,500.00	7,630.00	13,424.11	7,870.00	111.06	81.42	94.54	-3,375.66	1,814.49	3,008.55	2,845.15	163.41	18.411		
14,600.00	7,630.00	13,524.11	7,870.00	111.72	82.96	94.54	-3,475.66	1,814.15	3,008.56	2,842.15	166.40	18.080		
14,700.00	7,630.00	13,624.11	7,870.00	112.42	84.51	94.54	-3,575.66	1,813.81	3,008.56	2,839.14	169.42	17.758		
14,800.00	7,630.00	13,724.11	7,870.00	113.16	86.07	94.54	-3,675.66	1,813.47	3,008.56	2,836.11	172.45	17.446		
14,900.00	7,630.00	13,824.11	7,870.00	113.94	87.64	94.54	-3,775.65	1,813.13	3,008.56	2,833.06	175.51	17.142		
15,000.00	7,630.00	13,924.11	7,870.00	114.75	89.21	94.54	-3,875.65	1,812.79	3,008.57	2,829.99	178.58	16.848		
15,100.00	7,630.00	14,024.11	7,870.00	115.60	90.79	94.54	-3,975.65	1,812.45	3,008.57	2,826.91	181.66	16.561		
15,200.00	7,630.00	14,124.11	7,870.00	116.48	92.38	94.54	-4,075.65	1,812.11	3,008.57	2,823.81	184.77	16.283		
15,300.00	7,630.00	14,224.11	7,870.00	117.40	93.97	94.54	-4,175.65	1,811.77	3,008.57	2,820.69	187.88	16.013		
15,400.00	7,630.00	14,324.11	7,870.00	118.35	95.57	94.54	-4,275.65	1,811.43	3,008.58	2,817.56	191.01	15.751		
15,500.00	7,630.00	14,424.11	7,870.00	119.34	97.17	94.54	-4,375.65	1,811.09	3,008.58	2,814.42	194.16	15.495		
15,600.00	7,630.00	14,524.11	7,870.00	120.35	98.78	94.54	-4,475.65	1,810.75	3,008.58	2,811.27	197.32	15.247		
15,700.00	7,630.00	14,624.11	7,870.00	121.40	100.39	94.54	-4,575.65	1,810.41	3,008.58	2,808.10	200.49	15.006		
15,800.00	7,630.00	14,724.11	7,870.00	122.48	102.01	94.54	-4,675.65	1,810.07	3,008.59	2,804.92	203.67	14.772		
15,900.00	7,630.00	14,824.11	7,870.00	123.58	103.63	94.54	-4,775.65	1,809.73	3,008.59	2,801.73	206.86	14.544		
16,000.00	7,630.00	14,924.11	7,870.00	124.71	105.26	94.54	-4,875.65	1,809.39	3,008.59	2,798.53	210.06	14.322		
16,100.00	7,630.00	15,024.11	7,870.00	125.87	106.89	94.54	-4,975.65	1,809.05	3,008.60	2,795.32	213.28	14.106		
16,200.00	7,630.00	15,124.11	7,870.00	127.05	108.52	94.54	-5,075.65	1,808.71	3,008.60	2,792.10	216.50	13.896		
16,300.00	7,630.00	15,224.11	7,870.00	128.26	110.16	94.54	-5,175.65	1,808.37	3,008.60	2,788.87	219.73	13.692		
16,400.00	7,630.00	15,324.11	7,870.00	129.48	111.80	94.54	-5,275.65	1,808.03	3,008.60	2,785.63	222.97	13.493		
16,500.00	7,630.00	15,424.11	7,870.00	130.73	113.45	94.54	-5,375.65	1,807.69	3,008.61	2,782.38	226.22	13.299		
16,600.00	7,630.00	15,524.11	7,870.00	132.00	115.10	94.54	-5,475.65	1,807.35	3,008.61	2,779.13	229.48	13.110		
16,700.00	7,630.00	15,624.11	7,870.00	133.29	116.75	94.54	-5,575.64	1,807.01	3,008.61	2,775.86	232.75	12.926		
16,800.00	7,630.00	15,724.11	7,870.00	134.59	118.40	94.54	-5,675.64	1,806.67	3,008.61	2,772.59	236.02	12.747		
16,900.00	7,630.00	15,824.11	7,870.00	135.91	120.06	94.54	-5,775.64	1,806.33	3,008.62	2,769.32	239.30	12.573		
17,000.00	7,630.00	15,924.11	7,870.00	137.25	121.72	94.54	-5,875.64	1,805.99	3,008.62	2,766.03	242.59	12.402		
17,100.00	7,630.00	16,024.11	7,870.00	138.61	123.38	94.54	-5,975.64	1,805.65	3,008.62	2,762.74	245.88	12.236		
17,200.00	7,630.00	16,124.11	7,870.00	139.97	125.05	94.54	-6,075.64	1,805.31	3,008.62	2,759.44	249.18	12.074		
17,300.00	7,630.00	16,224.11	7,870.00	141.36	126.72	94.54	-6,175.64	1,804.97	3,008.63	2,756.14	252.49	11.916		
17,400.00	7,630.00	16,324.11	7,870.00	142.75	128.39	94.54	-6,275.64	1,804.63	3,008.63	2,752.83	255.80	11.762		
17,500.00	7,630.00	16,424.11	7,870.00	144.16	130.06	94.54	-6,375.64	1,804.29	3,008.63	2,749.51	259.12	11.611		
17,600.00	7,630.00	16,524.11	7,870.00	145.58	131.74	94.54	-6,475.64	1,803.95	3,008.63	2,746.19	262.44	11.464		
17,700.00	7,630.00	16,624.11	7,870.00	147.01	133.42	94.54	-6,575.64	1,803.61	3,008.64	2,742.87	265.77	11.321		
17,800.00	7,630.00	16,724.11	7,870.00	148.45	135.10	94.54	-6,675.64	1,803.27	3,008.64	2,739.54	269.10	11.180		
17,900.00	7,630.00	16,824.11	7,870.00	149.91	136.78	94.54	-6,775.64	1,802.93	3,008.64	2,736.20	272.44	11.043		
18,000.00	7,630.00	16,924.11	7,870.00	151.37	138.46	94.54	-6,875.64	1,802.59	3,008.65	2,732.86	275.78	10.909		
18,100.00	7,630.00	17,024.11	7,870.00	152.84	140.15	94.54	-6,975.64	1,802.25	3,008.65	2,729.52	279.13	10.779		
18,200.00	7,630.00	17,124.11	7,870.00	154.32	141.84	94.54	-7,075.64	1,801.91	3,008.65	2,726.17	282.48	10.651		
18,300.00	7,630.00	17,224.11	7,870.00	155.81	143.52	94.54	-7,175.64	1,801.57	3,008.65	2,722.82	285.84	10.526		
18,400.00	7,630.00	17,324.11	7,870.00	157.31	145.22	94.54	-7,275.63	1,801.23	3,008.66	2,719.46	289.20	10.403		
18,500.00	7,630.00	17,424.11	7,870.00	158.81	146.91	94.54	-7,375.63	1,800.89	3,008.66	2,716.10	292.56	10.284		
18,600.00	7,630.00	17,524.11	7,870.00	160.32	148.60	94.54	-7,475.63	1,800.55	3,008.66	2,712.73	295.93	10.167		
18,700.00	7,630.00	17,624.11	7,870.00	161.84	150.30	94.54	-7,575.63	1,800.21	3,008.66	2,709.36	299.30	10.052		
18,800.00	7,630.00	17,724.11	7,870.00	163.37	152.00	94.54	-7,675.63	1,799.87	3,008.67	2,705.99	302.67	9.940		
18,900.00	7,630.00	17,824.11	7,870.00	164.90	153.70	94.54	-7,775.63	1,799.53	3,008.67	2,702.62	306.05	9.831		
19,000.00	7,630.00	17,924.11	7,870.00	166.43	155.40	94.54	-7,875.63	1,799.19	3,008.67	2,699.24	309.43	9.723		
19,100.00	7,630.00	18,024.11	7,870.00	167.98	157.10	94.54	-7,975.63	1,798.85	3,008.67	2,695.86	312.82	9.618		
19,200.00	7,630.00	18,124.11	7,870.00	169.53	158.80	94.54	-8,075.63	1,798.51	3,008.68	2,692.47	316.21	9.515		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	18,224.11	7,870.00	171.08	160.51	94.54	-8,175.63	1,798.17	3,008.68	2,689.08	319.60	9.414	
19,400.00	7,630.00	18,324.11	7,870.00	172.64	162.21	94.54	-8,275.63	1,797.83	3,008.68	2,685.69	322.99	9.315	
19,500.00	7,630.00	18,424.11	7,870.00	174.21	163.92	94.54	-8,375.63	1,797.49	3,008.68	2,682.30	326.39	9.218	
19,518.56	7,630.00	18,442.67	7,870.00	174.50	164.24	94.54	-8,394.19	1,797.43	3,008.68	2,681.67	327.02	9.200 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.74	0.36	-80.08	80.08					
100.00	100.00	102.00	102.00	0.13	0.14	-89.74	0.36	-80.08	80.08	79.81	0.28	290.126		
200.00	200.00	202.00	202.00	0.49	0.50	-89.74	0.36	-80.08	80.08	79.09	0.99	80.649		
300.00	300.00	302.00	302.00	0.85	0.86	-89.74	0.36	-80.08	80.08	78.37	1.71	46.834		
400.00	400.00	402.00	402.00	1.21	1.22	-89.74	0.36	-80.08	80.08	77.65	2.43	32.998	CC, ES	
500.00	499.98	501.98	501.98	1.56	1.58	-156.94	0.36	-80.08	81.68	78.55	3.14	26.020		
600.00	599.84	601.84	601.84	1.92	1.93	-158.26	0.36	-80.08	86.52	82.67	3.85	22.460		
700.00	699.45	701.45	701.45	2.29	2.29	-160.16	0.36	-80.08	94.68	90.11	4.57	20.723		
800.00	798.70	800.70	800.70	2.67	2.65	-162.32	0.36	-80.08	106.23	100.94	5.29	20.091		
900.00	897.47	900.53	899.47	3.07	3.00	-164.48	0.36	-80.08	121.24	115.22	6.01	20.169		
1,000.00	995.62	1,002.38	997.62	3.50	3.37	-166.49	0.36	-80.08	139.73	132.99	6.75	20.716		
1,100.00	1,093.06	1,104.94	1,095.06	3.96	3.74	-168.25	0.36	-80.08	161.71	154.23	7.48	21.606		
1,200.00	1,189.64	1,191.64	1,191.64	4.46	4.05	-169.77	0.36	-80.08	187.15	178.98	8.17	22.906		
1,300.00	1,285.27	1,293.45	1,293.44	5.00	4.41	-170.94	1.40	-78.96	214.76	205.85	8.91	24.097		
1,400.00	1,379.82	1,396.72	1,396.56	5.60	4.78	-171.55	4.96	-75.13	242.71	233.05	9.66	25.124		
1,500.00	1,473.17	1,500.94	1,500.38	6.25	5.15	-171.75	11.11	-68.51	270.91	260.49	10.42	26.007		
1,600.00	1,565.21	1,606.11	1,604.75	6.95	5.53	-171.66	19.92	-59.02	299.32	288.13	11.18	26.764		
1,700.00	1,655.84	1,712.24	1,709.51	7.72	5.94	-171.34	31.44	-46.61	327.90	315.93	11.96	27.408		
1,800.00	1,744.94	1,819.31	1,814.50	8.55	6.36	-170.84	45.74	-31.22	356.64	343.88	12.76	27.948		
1,900.00	1,832.39	1,927.34	1,919.55	9.45	6.81	-170.20	62.85	-12.78	385.52	371.94	13.58	28.390		
2,000.00	1,918.11	2,036.30	2,024.48	10.41	7.31	-169.45	82.84	8.74	414.54	400.11	14.43	28.734		
2,100.00	2,001.97	2,146.21	2,129.10	11.45	7.84	-168.59	105.73	33.39	443.69	428.38	15.31	28.981		
2,200.00	2,083.88	2,257.05	2,233.22	12.56	8.43	-167.65	131.56	61.21	472.97	456.73	16.24	29.129		
2,300.00	2,163.74	2,368.81	2,336.65	13.74	9.08	-166.65	160.37	92.23	502.37	485.15	17.22	29.175		
2,400.00	2,241.45	2,481.48	2,439.17	14.99	9.80	-165.58	192.16	126.47	531.90	513.64	18.27	29.118		
2,421.22	2,257.65	2,505.50	2,460.78	15.26	9.96	-165.34	199.30	134.15	538.19	519.68	18.50	29.091		
2,500.00	2,317.63	2,607.06	2,538.71	16.29	10.68	-164.57	226.28	163.21	560.58	541.12	19.46	28.803		
2,600.00	2,393.75	2,688.71	2,623.57	17.62	11.28	-163.74	256.48	195.73	588.23	567.67	20.55	28.621		
2,700.00	2,469.88	2,784.48	2,708.43	18.95	12.01	-162.98	286.68	228.26	615.97	594.22	21.75	28.321		
2,800.00	2,546.01	2,880.25	2,793.29	20.30	12.76	-162.29	316.89	260.79	643.81	620.83	22.98	28.015		
2,900.00	2,622.13	2,976.01	2,878.15	21.65	13.52	-161.66	347.09	293.32	671.73	647.49	24.24	27.711		
3,000.00	2,698.26	3,071.78	2,963.01	23.01	14.29	-161.08	377.29	325.84	699.72	674.19	25.53	27.411		
3,100.00	2,774.38	3,167.55	3,047.88	24.37	15.07	-160.54	407.50	358.37	727.77	700.93	26.84	27.118		
3,200.00	2,850.51	3,263.32	3,132.74	25.74	15.86	-160.04	437.70	390.90	755.87	727.70	28.17	26.834		
3,300.00	2,926.64	3,359.09	3,217.60	27.11	16.66	-159.58	467.90	423.42	784.03	754.51	29.52	26.561		
3,400.00	3,002.76	3,454.86	3,302.46	28.49	17.46	-159.15	498.11	455.95	812.22	781.34	30.89	26.298		
3,500.00	3,078.89	3,550.62	3,387.32	29.87	18.27	-158.74	528.31	488.48	840.46	808.20	32.27	26.047		
3,600.00	3,155.02	3,646.39	3,472.18	31.25	19.09	-158.37	558.51	521.00	868.74	835.07	33.66	25.807		
3,700.00	3,231.14	3,742.16	3,557.04	32.63	19.91	-158.01	588.72	553.53	897.04	861.97	35.07	25.577		
3,800.00	3,307.27	3,837.93	3,641.90	34.01	20.73	-157.68	618.92	586.06	925.38	888.89	36.49	25.359		
3,900.00	3,383.39	3,933.70	3,726.76	35.40	21.56	-157.37	649.13	618.58	953.74	915.82	37.92	25.151		
4,000.00	3,459.52	4,029.47	3,811.62	36.79	22.38	-157.08	679.33	651.11	982.13	942.77	39.36	24.952		
4,100.00	3,535.65	4,125.23	3,896.48	38.18	23.22	-156.80	709.53	683.64	1,010.54	969.73	40.81	24.763		
4,200.00	3,611.77	4,221.00	3,981.34	39.57	24.05	-156.54	739.74	716.17	1,038.97	996.70	42.26	24.583		
4,300.00	3,687.90	4,316.77	4,066.20	40.96	24.89	-156.29	769.94	748.69	1,067.41	1,023.69	43.73	24.412		
4,400.00	3,764.02	4,412.54	4,151.06	42.35	25.73	-156.06	800.14	781.22	1,095.88	1,050.69	45.19	24.248		
4,500.00	3,840.15	4,508.31	4,235.92	43.74	26.57	-155.83	830.35	813.75	1,124.36	1,077.69	46.67	24.092		
4,600.00	3,916.28	4,604.07	4,320.78	45.13	27.41	-155.62	860.55	846.27	1,152.86	1,104.71	48.15	23.943		
4,700.00	3,992.40	4,700.16	4,405.64	46.53	28.25	-155.42	890.75	878.80	1,181.37	1,131.73	49.64	23.800		
4,800.00	4,068.53	4,804.39	4,490.50	47.92	29.17	-155.23	920.96	911.33	1,209.89	1,158.71	51.18	23.638		
4,900.00	4,144.66	4,908.62	4,575.36	49.32	30.09	-155.04	951.16	943.85	1,238.43	1,185.69	52.74	23.483		
5,000.00	4,220.78	4,987.15	4,660.22	50.71	30.79	-154.87	981.36	976.38	1,266.98	1,212.86	54.12	23.411		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,082.92	4,745.09	52.11	31.63	-154.70	1,011.57	1,008.91	1,295.53	1,239.91	55.62	23.292		
5,200.00	4,373.03	5,178.68	4,829.95	53.51	32.48	-154.54	1,041.77	1,041.44	1,324.10	1,266.97	57.13	23.178		
5,300.00	4,449.16	5,274.45	4,914.81	54.90	33.33	-154.39	1,071.98	1,073.96	1,352.68	1,294.04	58.64	23.069		
5,400.00	4,525.29	5,370.22	4,999.67	56.30	34.18	-154.24	1,102.18	1,106.49	1,381.26	1,321.11	60.15	22.964		
5,500.00	4,601.41	5,465.99	5,084.53	57.70	35.03	-154.10	1,132.38	1,139.02	1,409.85	1,348.19	61.66	22.863		
5,600.00	4,677.54	5,561.76	5,169.39	59.10	35.89	-153.96	1,162.59	1,171.54	1,438.46	1,375.27	63.18	22.767		
5,700.00	4,753.66	5,657.53	5,254.25	60.49	36.74	-153.83	1,192.79	1,204.07	1,467.06	1,402.36	64.70	22.674		
5,800.00	4,829.79	5,753.29	5,339.11	61.89	37.59	-153.71	1,222.99	1,236.60	1,495.68	1,429.45	66.23	22.585		
5,900.00	4,905.92	5,849.06	5,423.97	63.29	38.44	-153.59	1,253.20	1,269.12	1,524.30	1,456.55	67.75	22.499		
6,000.00	4,982.04	5,944.83	5,508.83	64.69	39.30	-153.47	1,283.40	1,301.65	1,552.92	1,483.65	69.28	22.416		
6,100.00	5,058.17	6,040.60	5,593.69	66.09	40.15	-153.36	1,313.60	1,334.18	1,581.56	1,510.75	70.81	22.336		
6,200.00	5,134.30	6,136.37	5,678.55	67.49	41.01	-153.25	1,343.81	1,366.70	1,610.19	1,537.86	72.34	22.259		
6,300.00	5,210.42	6,232.14	5,763.41	68.89	41.86	-153.15	1,374.01	1,399.23	1,638.84	1,564.97	73.87	22.185		
6,400.00	5,286.55	6,327.90	5,848.27	70.29	42.72	-153.04	1,404.21	1,431.76	1,667.48	1,592.08	75.40	22.114		
6,500.00	5,362.67	6,423.67	5,933.13	71.69	43.58	-152.95	1,434.42	1,464.29	1,696.14	1,619.20	76.94	22.045		
6,600.00	5,438.80	6,519.44	6,017.99	73.09	44.43	-152.85	1,464.62	1,496.81	1,724.79	1,646.31	78.48	21.978		
6,700.00	5,514.93	6,615.21	6,102.85	74.49	45.29	-152.76	1,494.83	1,529.34	1,753.45	1,673.44	80.02	21.913		
6,800.00	5,591.05	6,710.98	6,187.71	75.89	46.15	-152.67	1,525.03	1,561.87	1,782.12	1,700.56	81.56	21.851		
6,900.00	5,667.18	6,806.74	6,272.57	77.29	47.00	-152.59	1,555.23	1,594.39	1,810.79	1,727.69	83.10	21.791		
7,000.00	5,743.30	6,902.51	6,357.43	78.69	47.86	-152.51	1,585.44	1,626.92	1,839.46	1,754.82	84.64	21.732		
7,100.00	5,819.43	7,001.72	6,442.29	80.09	48.75	-152.43	1,615.64	1,659.45	1,868.13	1,781.92	86.21	21.669		
7,200.00	5,895.56	7,105.95	6,527.16	81.49	49.68	-152.35	1,645.84	1,691.97	1,896.81	1,809.00	87.82	21.600		
7,300.00	5,971.68	7,189.82	6,612.02	82.90	50.44	-152.27	1,676.05	1,724.50	1,925.49	1,836.22	89.28	21.568		
7,400.00	6,047.81	7,285.59	6,696.88	84.30	51.30	-152.20	1,706.25	1,757.03	1,954.18	1,863.35	90.82	21.516		
7,500.00	6,123.94	7,381.35	6,781.74	85.70	52.15	-152.13	1,736.45	1,789.55	1,982.87	1,890.49	92.37	21.466		
7,600.00	6,200.06	7,477.12	6,866.60	87.10	53.01	-152.06	1,766.66	1,822.08	2,011.56	1,917.63	93.92	21.417		
7,700.00	6,276.19	7,572.89	6,951.46	88.50	53.87	-151.99	1,796.86	1,854.61	2,040.25	1,944.78	95.47	21.370		
7,800.00	6,352.31	7,674.37	7,041.46	89.90	54.78	-151.93	1,828.60	1,889.11	2,068.93	1,971.85	97.08	21.311		
7,900.00	6,428.44	7,812.42	7,168.25	91.31	55.82	-152.43	1,851.74	1,937.63	2,096.38	1,998.16	98.21	21.345		
8,000.00	6,504.57	7,937.07	7,284.26	92.71	56.44	-153.64	1,844.23	1,981.93	2,122.38	2,024.45	97.93	21.673		
8,100.00	6,580.69	8,040.73	7,377.74	94.11	56.72	-155.13	1,817.65	2,017.56	2,148.09	2,051.22	96.87	22.176		
8,200.00	6,656.82	8,123.19	7,448.00	95.51	56.80	-156.59	1,783.90	2,044.28	2,174.75	2,079.17	95.59	22.752		
8,300.00	6,732.95	8,187.87	7,499.50	96.91	56.77	-157.88	1,750.09	2,063.85	2,203.32	2,108.97	94.36	23.351		
8,400.00	6,809.07	8,238.74	7,537.31	98.32	56.71	-158.98	1,719.26	2,078.19	2,234.42	2,141.18	93.24	23.964		
8,500.00	6,885.20	8,279.21	7,565.48	99.72	56.63	-159.89	1,692.24	2,088.86	2,268.40	2,176.17	92.24	24.593		
8,600.00	6,961.32	8,311.87	7,586.87	101.12	56.56	-160.65	1,668.94	2,096.96	2,305.45	2,214.14	91.31	25.248		
8,700.00	7,037.45	8,338.62	7,603.45	102.52	56.48	-161.29	1,648.90	2,103.22	2,345.63	2,255.19	90.43	25.938		
8,732.15	7,061.92	8,350.00	7,610.24	102.97	56.45	-161.57	1,640.13	2,105.78	2,359.21	2,269.15	90.06	26.196		
8,750.00	7,075.57	8,350.00	7,610.24	103.22	56.45	-164.44	1,640.13	2,105.78	2,366.88	2,276.86	90.02	26.294		
8,800.00	7,114.27	8,362.85	7,617.70	103.91	56.41	-173.13	1,630.06	2,108.60	2,388.83	2,299.23	89.60	26.661		
8,850.00	7,153.47	8,376.38	7,625.32	104.58	56.36	177.81	1,619.26	2,111.48	2,411.25	2,322.03	89.22	27.026		
8,900.00	7,192.85	8,400.00	7,638.06	105.21	56.28	168.41	1,599.95	2,116.28	2,433.96	2,345.32	88.63	27.461		
8,950.00	7,232.12	8,400.00	7,638.06	105.80	56.28	159.60	1,599.95	2,116.28	2,456.64	2,367.94	88.70	27.696		
9,000.00	7,270.99	8,421.93	7,649.22	106.35	56.20	150.70	1,581.54	2,120.48	2,479.14	2,390.88	88.25	28.091		
9,050.00	7,309.16	8,438.44	7,657.17	106.85	56.13	142.42	1,567.40	2,123.47	2,501.26	2,413.26	88.00	28.425		
9,100.00	7,346.32	8,450.00	7,662.52	107.30	56.09	134.87	1,557.34	2,125.48	2,522.79	2,434.88	87.92	28.696		
9,150.00	7,382.22	8,472.96	7,672.57	107.69	55.99	127.86	1,537.04	2,129.25	2,543.53	2,455.94	87.58	29.041		
9,200.00	7,416.56	8,500.00	7,683.41	108.02	55.88	121.56	1,512.62	2,133.31	2,563.35	2,476.17	87.19	29.401		
9,250.00	7,449.09	8,500.00	7,683.41	108.29	55.88	116.27	1,512.62	2,133.31	2,582.03	2,494.45	87.58	29.482		
9,300.00	7,479.56	8,527.69	7,693.39	108.51	55.75	111.37	1,487.06	2,137.03	2,599.40	2,512.13	87.27	29.787		
9,350.00	7,507.74	8,550.00	7,700.59	108.68	55.64	107.18	1,466.11	2,139.71	2,615.41	2,528.26	87.15	30.009		
9,400.00	7,533.41	8,565.62	7,705.17	108.79	55.56	103.62	1,451.28	2,141.41	2,629.89	2,542.60	87.29	30.129		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,584.90	7,710.30	108.86	55.47	100.59	1,432.79	2,143.31	2,642.74	2,555.37	87.38	30.245		
9,500.00	7,576.48	8,600.00	7,713.91	108.88	55.39	98.09	1,418.19	2,144.64	2,653.88	2,566.22	87.65	30.278		
9,550.00	7,593.55	8,623.96	7,718.90	108.86	55.27	96.03	1,394.83	2,146.47	2,663.19	2,575.47	87.72	30.360		
9,600.00	7,607.46	8,650.00	7,723.29	108.80	55.14	94.41	1,369.21	2,148.05	2,670.65	2,582.87	87.78	30.426		
9,650.00	7,618.11	8,663.46	7,725.13	108.71	55.06	93.25	1,355.89	2,148.71	2,676.15	2,587.86	88.29	30.311		
9,700.00	7,625.41	8,683.32	7,727.31	108.59	54.96	92.49	1,336.18	2,149.48	2,679.71	2,591.05	88.66	30.225		
9,750.00	7,629.30	8,700.00	7,728.64	108.45	54.87	92.11	1,319.55	2,149.93	2,681.28	2,592.09	89.19	30.064		
9,781.81	7,630.00	8,715.86	7,729.49	108.35	54.78	92.08	1,303.72	2,150.20	2,681.23	2,591.85	89.38	29.999		
9,800.00	7,630.00	8,723.10	7,729.74	108.29	54.74	92.09	1,296.49	2,150.27	2,681.01	2,591.46	89.55	29.938		
9,838.92	7,630.00	8,746.43	7,730.00	108.17	54.62	92.09	1,284.35	2,150.33	2,680.79	2,590.81	89.99	29.791		
9,900.00	7,630.00	8,803.68	7,730.00	107.97	54.31	92.09	1,223.27	2,150.12	2,680.79	2,591.43	89.37	29.997		
10,000.00	7,630.00	8,903.68	7,730.00	107.67	53.80	92.09	1,123.27	2,149.78	2,680.80	2,592.36	88.44	30.312		
10,100.00	7,630.00	9,003.68	7,730.00	107.38	53.32	92.09	1,023.27	2,149.44	2,680.80	2,593.16	87.65	30.587		
10,200.00	7,630.00	9,103.68	7,730.00	107.10	52.86	92.09	923.27	2,149.10	2,680.81	2,593.82	86.99	30.818		
10,300.00	7,630.00	9,203.68	7,730.00	106.84	52.42	92.09	823.27	2,148.75	2,680.81	2,594.34	86.47	31.001		
10,400.00	7,630.00	9,303.68	7,730.00	106.59	52.02	92.09	723.27	2,148.41	2,680.81	2,594.71	86.10	31.135		
10,500.00	7,630.00	9,403.68	7,730.00	106.35	51.63	92.09	623.27	2,148.07	2,680.82	2,594.94	85.87	31.218		
10,600.00	7,630.00	9,503.68	7,730.00	106.13	51.27	92.09	523.27	2,147.73	2,680.82	2,595.03	85.79	31.247		
10,700.00	7,630.00	9,596.32	7,730.00	105.92	50.96	92.09	423.27	2,147.39	2,680.83	2,594.97	85.85	31.226		
10,800.00	7,630.00	9,703.68	7,730.00	105.72	50.63	92.09	323.27	2,147.05	2,680.83	2,594.76	86.07	31.146		
10,900.00	7,630.00	9,803.68	7,730.00	105.54	50.34	92.09	223.27	2,146.71	2,680.84	2,594.40	86.43	31.017		
11,000.00	7,630.00	9,903.68	7,730.00	105.37	50.08	92.09	123.27	2,146.37	2,680.84	2,593.91	86.93	30.838		
11,100.00	7,630.00	10,003.68	7,730.00	105.21	49.85	92.09	23.27	2,146.02	2,680.84	2,593.27	87.57	30.612		
11,200.00	7,630.00	10,103.68	7,730.00	105.06	49.65	92.09	-76.73	2,145.68	2,680.85	2,592.49	88.35	30.342		
11,300.00	7,630.00	10,203.68	7,730.00	104.93	49.48	92.09	-176.73	2,145.34	2,680.85	2,591.59	89.27	30.032		
11,400.00	7,630.00	10,303.68	7,730.00	104.82	49.35	92.09	-276.73	2,145.00	2,680.86	2,590.55	90.31	29.686		
11,500.00	7,630.00	10,403.68	7,730.00	104.72	49.27	92.09	-376.73	2,144.66	2,680.86	2,589.38	91.48	29.307		
11,600.00	7,630.00	10,503.68	7,730.00	104.63	49.26	92.09	-476.72	2,144.32	2,680.86	2,588.10	92.76	28.900		
11,700.00	7,630.00	10,603.68	7,730.00	104.55	49.33	92.09	-576.72	2,143.98	2,680.87	2,586.70	94.16	28.470		
11,800.00	7,630.00	10,703.68	7,730.00	104.50	49.51	92.09	-676.72	2,143.64	2,680.87	2,585.19	95.68	28.020		
11,900.00	7,630.00	10,803.68	7,730.00	104.45	49.84	92.09	-776.72	2,143.29	2,680.88	2,583.58	97.29	27.555		
12,000.00	7,630.00	10,903.68	7,730.00	104.43	50.33	92.09	-876.72	2,142.95	2,680.88	2,581.87	99.01	27.077		
12,100.00	7,630.00	11,003.68	7,730.00	104.42	50.98	92.09	-976.72	2,142.61	2,680.88	2,580.06	100.82	26.591		
12,200.00	7,630.00	11,103.68	7,730.00	104.42	51.78	92.09	-1,076.72	2,142.27	2,680.89	2,578.17	102.72	26.100		
12,300.00	7,630.00	11,203.68	7,730.00	104.45	52.70	92.09	-1,176.72	2,141.93	2,680.89	2,576.19	104.70	25.605		
12,400.00	7,630.00	11,303.68	7,730.00	104.49	53.71	92.09	-1,276.72	2,141.59	2,680.90	2,574.13	106.76	25.110		
12,500.00	7,630.00	11,403.68	7,730.00	104.55	54.79	92.09	-1,376.72	2,141.25	2,680.90	2,572.00	108.90	24.617		
12,600.00	7,630.00	11,503.68	7,730.00	104.63	55.93	92.09	-1,476.72	2,140.91	2,680.90	2,569.79	111.11	24.128		
12,700.00	7,630.00	11,603.68	7,730.00	104.73	57.12	92.09	-1,576.72	2,140.56	2,680.91	2,567.52	113.39	23.644		
12,800.00	7,630.00	11,703.68	7,730.00	104.85	58.34	92.09	-1,676.72	2,140.22	2,680.91	2,565.19	115.73	23.166		
12,900.00	7,630.00	11,803.68	7,730.00	104.99	59.60	92.09	-1,776.72	2,139.88	2,680.92	2,562.79	118.12	22.696		
13,000.00	7,630.00	11,903.68	7,730.00	105.15	60.89	92.09	-1,876.72	2,139.54	2,680.92	2,560.34	120.58	22.234		
13,100.00	7,630.00	12,003.68	7,730.00	105.34	62.20	92.09	-1,976.72	2,139.20	2,680.92	2,557.84	123.08	21.782		
13,200.00	7,630.00	12,103.68	7,730.00	105.56	63.54	92.09	-2,076.72	2,138.86	2,680.93	2,555.29	125.63	21.339		
13,300.00	7,630.00	12,203.68	7,730.00	105.80	64.90	92.09	-2,176.71	2,138.52	2,680.93	2,552.70	128.23	20.907		
13,400.00	7,630.00	12,303.68	7,730.00	106.06	66.27	92.09	-2,276.71	2,138.18	2,680.94	2,550.06	130.88	20.484		
13,500.00	7,630.00	12,403.68	7,730.00	106.36	67.67	92.09	-2,376.71	2,137.83	2,680.94	2,547.38	133.56	20.073		
13,600.00	7,630.00	12,496.32	7,730.00	106.68	68.98	92.09	-2,476.71	2,137.49	2,680.94	2,544.76	136.18	19.687		
13,700.00	7,630.00	12,603.68	7,730.00	107.03	70.51	92.09	-2,576.71	2,137.15	2,680.95	2,541.90	139.04	19.281		
13,800.00	7,630.00	12,703.68	7,730.00	107.42	71.95	92.09	-2,676.71	2,136.81	2,680.95	2,539.11	141.84	18.902		
13,900.00	7,630.00	12,803.68	7,730.00	107.83	73.40	92.09	-2,776.71	2,136.47	2,680.96	2,536.29	144.66	18.533		
14,000.00	7,630.00	12,903.68	7,730.00	108.28	74.87	92.09	-2,876.71	2,136.13	2,680.96	2,533.44	147.52	18.174		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	13,003.68	7,730.00	108.77	76.35	92.09	-2,976.71	2,135.79	2,680.96	2,530.56	150.40	17.825		
14,200.00	7,630.00	13,103.68	7,730.00	109.29	77.84	92.09	-3,076.71	2,135.45	2,680.97	2,527.65	153.31	17.487		
14,300.00	7,630.00	13,196.32	7,730.00	109.84	79.23	92.09	-3,176.71	2,135.10	2,680.97	2,524.83	156.14	17.171		
14,400.00	7,630.00	13,303.68	7,730.00	110.43	80.85	92.09	-3,276.71	2,134.76	2,680.98	2,521.76	159.21	16.839		
14,500.00	7,630.00	13,396.32	7,730.00	111.06	82.25	92.09	-3,376.71	2,134.42	2,680.98	2,518.90	162.08	16.541		
14,600.00	7,630.00	13,496.32	7,730.00	111.72	83.78	92.09	-3,476.71	2,134.08	2,680.98	2,515.90	165.08	16.240		
14,700.00	7,630.00	13,603.68	7,730.00	112.42	85.43	92.09	-3,576.71	2,133.74	2,680.99	2,512.76	168.22	15.937		
14,800.00	7,630.00	13,703.68	7,730.00	113.16	86.97	92.09	-3,676.71	2,133.40	2,680.99	2,509.72	171.27	15.654		
14,900.00	7,630.00	13,803.68	7,730.00	113.94	88.52	92.09	-3,776.71	2,133.06	2,681.00	2,506.66	174.33	15.379		
15,000.00	7,630.00	13,903.68	7,730.00	114.75	90.08	92.09	-3,876.70	2,132.72	2,681.00	2,503.59	177.41	15.112		
15,100.00	7,630.00	14,003.68	7,730.00	115.60	91.65	92.09	-3,976.70	2,132.37	2,681.00	2,500.49	180.51	14.852		
15,200.00	7,630.00	14,103.68	7,730.00	116.48	93.22	92.09	-4,076.70	2,132.03	2,681.01	2,497.38	183.62	14.601		
15,300.00	7,630.00	14,203.68	7,730.00	117.40	94.80	92.09	-4,176.70	2,131.69	2,681.01	2,494.26	186.75	14.356		
15,400.00	7,630.00	14,303.68	7,730.00	118.35	96.38	92.09	-4,276.70	2,131.35	2,681.02	2,491.12	189.89	14.119		
15,500.00	7,630.00	14,403.68	7,730.00	119.34	97.97	92.09	-4,376.70	2,131.01	2,681.02	2,487.97	193.05	13.888		
15,600.00	7,630.00	14,503.68	7,730.00	120.35	99.57	92.09	-4,476.70	2,130.67	2,681.02	2,484.81	196.21	13.664		
15,700.00	7,630.00	14,603.68	7,730.00	121.40	101.17	92.09	-4,576.70	2,130.33	2,681.03	2,481.63	199.39	13.446		
15,800.00	7,630.00	14,703.68	7,730.00	122.48	102.78	92.09	-4,676.70	2,129.99	2,681.03	2,478.44	202.59	13.234		
15,900.00	7,630.00	14,803.68	7,730.00	123.58	104.39	92.09	-4,776.70	2,129.64	2,681.04	2,475.25	205.79	13.028		
16,000.00	7,630.00	14,903.68	7,730.00	124.71	106.00	92.09	-4,876.70	2,129.30	2,681.04	2,472.04	209.00	12.828		
16,100.00	7,630.00	15,003.68	7,730.00	125.87	107.62	92.09	-4,976.70	2,128.96	2,681.04	2,468.82	212.23	12.633		
16,200.00	7,630.00	15,103.68	7,730.00	127.05	109.24	92.09	-5,076.70	2,128.62	2,681.05	2,465.59	215.46	12.443		
16,300.00	7,630.00	15,203.68	7,730.00	128.26	110.87	92.09	-5,176.70	2,128.28	2,681.05	2,462.35	218.70	12.259		
16,400.00	7,630.00	15,303.68	7,730.00	129.48	112.50	92.09	-5,276.70	2,127.94	2,681.06	2,459.10	221.95	12.079		
16,500.00	7,630.00	15,403.68	7,730.00	130.73	114.14	92.09	-5,376.70	2,127.60	2,681.06	2,455.85	225.21	11.905		
16,600.00	7,630.00	15,503.68	7,730.00	132.00	115.78	92.09	-5,476.70	2,127.26	2,681.06	2,452.58	228.48	11.734		
16,700.00	7,630.00	15,603.68	7,730.00	133.29	117.42	92.09	-5,576.69	2,126.91	2,681.07	2,449.31	231.76	11.568		
16,800.00	7,630.00	15,703.68	7,730.00	134.59	119.06	92.09	-5,676.69	2,126.57	2,681.07	2,446.03	235.04	11.407		
16,900.00	7,630.00	15,803.68	7,730.00	135.91	120.71	92.09	-5,776.69	2,126.23	2,681.08	2,442.74	238.33	11.249		
17,000.00	7,630.00	15,903.68	7,730.00	137.25	122.36	92.09	-5,876.69	2,125.89	2,681.08	2,439.45	241.63	11.096		
17,100.00	7,630.00	16,003.68	7,730.00	138.61	124.02	92.09	-5,976.69	2,125.55	2,681.08	2,436.15	244.93	10.946		
17,200.00	7,630.00	16,103.68	7,730.00	139.97	125.67	92.09	-6,076.69	2,125.21	2,681.09	2,432.85	248.24	10.800		
17,300.00	7,630.00	16,196.32	7,730.00	141.36	127.21	92.09	-6,176.69	2,124.87	2,681.09	2,429.66	251.43	10.663		
17,400.00	7,630.00	16,303.68	7,730.00	142.75	129.00	92.09	-6,276.69	2,124.53	2,681.10	2,426.22	254.88	10.519		
17,500.00	7,630.00	16,403.68	7,730.00	144.16	130.66	92.09	-6,376.69	2,124.18	2,681.10	2,422.89	258.21	10.384		
17,600.00	7,630.00	16,503.68	7,730.00	145.58	132.33	92.09	-6,476.69	2,123.84	2,681.10	2,419.56	261.54	10.251		
17,700.00	7,630.00	16,603.68	7,730.00	147.01	134.00	92.09	-6,576.69	2,123.50	2,681.11	2,416.23	264.88	10.122		
17,800.00	7,630.00	16,703.68	7,730.00	148.45	135.67	92.09	-6,676.69	2,123.16	2,681.11	2,412.89	268.22	9.996		
17,900.00	7,630.00	16,803.68	7,730.00	149.91	137.35	92.09	-6,776.69	2,122.82	2,681.12	2,409.55	271.57	9.873		
18,000.00	7,630.00	16,903.68	7,730.00	151.37	139.02	92.09	-6,876.69	2,122.48	2,681.12	2,406.20	274.92	9.752		
18,100.00	7,630.00	17,003.68	7,730.00	152.84	140.70	92.09	-6,976.69	2,122.14	2,681.12	2,402.85	278.28	9.635		
18,200.00	7,630.00	17,096.32	7,730.00	154.32	142.26	92.09	-7,076.69	2,121.79	2,681.13	2,399.61	281.51	9.524		
18,300.00	7,630.00	17,196.32	7,730.00	155.81	143.94	92.09	-7,176.69	2,121.45	2,681.13	2,396.25	284.88	9.412		
18,400.00	7,630.00	17,303.68	7,730.00	157.31	145.75	92.09	-7,276.68	2,121.11	2,681.14	2,392.76	288.37	9.297		
18,500.00	7,630.00	17,403.68	7,730.00	158.81	147.43	92.09	-7,376.68	2,120.77	2,681.14	2,389.39	291.75	9.190		
18,600.00	7,630.00	17,503.68	7,730.00	160.32	149.12	92.09	-7,476.68	2,120.43	2,681.14	2,386.02	295.12	9.085		
18,700.00	7,630.00	17,603.68	7,730.00	161.84	150.81	92.09	-7,576.68	2,120.09	2,681.15	2,382.65	298.50	8.982		
18,800.00	7,630.00	17,703.68	7,730.00	163.37	152.50	92.09	-7,676.68	2,119.75	2,681.15	2,379.27	301.89	8.881		
18,900.00	7,630.00	17,803.68	7,730.00	164.90	154.19	92.09	-7,776.68	2,119.41	2,681.16	2,375.88	305.27	8.783		
19,000.00	7,630.00	17,903.68	7,730.00	166.43	155.89	92.09	-7,876.68	2,119.06	2,681.16	2,372.50	308.66	8.686		
19,100.00	7,630.00	18,003.68	7,730.00	167.98	157.58	92.09	-7,976.68	2,118.72	2,681.16	2,369.11	312.06	8.592		
19,200.00	7,630.00	18,103.68	7,730.00	169.53	159.28	92.09	-8,076.68	2,118.38	2,681.17	2,365.71	315.45	8.499		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	18,203.68	7,730.00	171.08	160.98	92.09	-8,176.68	2,118.04	2,681.17	2,362.32	318.85	8.409	
19,400.00	7,630.00	18,303.68	7,730.00	172.64	162.68	92.09	-8,276.68	2,117.70	2,681.18	2,358.92	322.26	8.320	
19,500.00	7,630.00	18,396.32	7,730.00	174.21	164.26	92.09	-8,376.68	2,117.36	2,681.18	2,355.64	325.54	8.236	
19,518.56	7,630.00	18,414.88	7,730.00	174.50	164.57	92.09	-8,395.24	2,117.30	2,681.18	2,355.01	326.17	8.220 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.00	2.00	0.00	0.00	-89.70	0.36	-70.00	70.00				
100.00	100.00	102.00	102.00	0.13	0.14	-89.70	0.36	-70.00	70.00	69.73	0.28	253.607	
200.00	200.00	202.00	202.00	0.49	0.50	-89.70	0.36	-70.00	70.00	69.01	0.99	70.497	
300.00	300.00	302.00	302.00	0.85	0.86	-89.70	0.36	-70.00	70.00	68.29	1.71	40.939	
400.00	400.00	402.00	402.00	1.21	1.22	-89.70	0.36	-70.00	70.00	67.57	2.43	28.845	CC, ES
500.00	499.98	501.98	501.98	1.56	1.58	-156.97	0.36	-70.00	71.60	68.47	3.14	22.809	
600.00	599.84	601.84	601.84	1.92	1.93	-158.47	0.36	-70.00	76.45	72.60	3.85	19.845	
700.00	699.45	701.45	701.45	2.29	2.29	-160.58	0.36	-70.00	84.62	80.05	4.57	18.521	
800.00	798.70	800.70	800.70	2.67	2.65	-162.93	0.36	-70.00	96.20	90.92	5.29	18.195	
900.00	897.47	900.53	899.47	3.07	3.00	-165.21	0.36	-70.00	111.26	105.25	6.01	18.510	
1,000.00	995.62	1,002.38	997.62	3.50	3.37	-167.28	0.36	-70.00	129.82	123.07	6.74	19.247	
1,100.00	1,093.06	1,095.06	1,095.06	3.96	3.70	-169.06	0.36	-70.00	151.86	144.41	7.45	20.388	
1,200.00	1,189.64	1,197.07	1,197.05	4.46	4.06	-170.41	1.40	-68.72	175.95	167.77	8.18	21.498	
1,300.00	1,285.27	1,300.19	1,300.02	5.00	4.43	-171.15	4.76	-64.56	200.29	191.37	8.92	22.444	
1,400.00	1,379.82	1,404.18	1,403.61	5.60	4.80	-171.46	10.50	-57.45	224.80	215.13	9.67	23.246	
1,500.00	1,473.17	1,509.04	1,507.65	6.25	5.19	-171.47	18.68	-47.32	249.43	239.00	10.43	23.924	
1,600.00	1,565.21	1,614.77	1,612.01	6.95	5.59	-171.24	29.35	-34.12	274.15	262.95	11.19	24.495	
1,700.00	1,655.84	1,721.38	1,716.52	7.72	6.02	-170.84	42.55	-17.78	298.92	286.95	11.97	24.964	
1,800.00	1,744.94	1,828.86	1,821.03	8.55	6.47	-170.29	58.31	1.74	323.75	310.98	12.77	25.343	
1,900.00	1,832.39	1,937.22	1,925.35	9.45	6.97	-169.63	76.69	24.49	348.62	335.02	13.60	25.636	
2,000.00	1,918.11	2,046.44	2,029.32	10.41	7.51	-168.87	97.72	50.51	373.51	359.05	14.45	25.842	
2,100.00	2,001.97	2,156.53	2,132.75	11.45	8.11	-168.04	121.41	79.84	398.42	383.07	15.35	25.963	
2,200.00	2,083.88	2,267.48	2,235.44	12.56	8.77	-167.13	147.80	112.51	423.34	407.06	16.28	25.996	
2,300.00	2,163.74	2,379.29	2,337.19	13.74	9.50	-166.17	176.89	148.53	448.27	430.99	17.28	25.940	
2,400.00	2,241.45	2,491.94	2,437.81	14.99	10.30	-165.15	208.71	187.92	473.20	454.85	18.34	25.795	
2,421.22	2,257.65	2,515.95	2,459.00	15.26	10.48	-164.92	215.81	196.71	478.49	459.91	18.58	25.749	
2,500.00	2,317.63	2,603.56	2,535.49	16.29	11.17	-164.17	242.65	229.93	497.13	477.64	19.49	25.506	
2,600.00	2,393.75	2,700.66	2,619.72	17.62	11.97	-163.34	273.01	267.51	519.95	499.25	20.70	25.118	
2,700.00	2,469.88	2,802.24	2,703.95	18.95	12.83	-162.59	303.36	305.09	542.85	520.88	21.97	24.705	
2,800.00	2,546.01	2,905.14	2,788.18	20.30	13.72	-161.89	333.72	342.67	565.84	542.55	23.29	24.294	
2,900.00	2,622.13	3,008.04	2,872.42	21.65	14.62	-161.25	364.07	380.24	588.90	564.26	24.64	23.899	
3,000.00	2,698.26	3,089.06	2,956.65	23.01	15.34	-160.66	394.43	417.82	612.03	586.14	25.89	23.640	
3,100.00	2,774.38	3,186.16	3,040.88	24.37	16.22	-160.10	424.79	455.40	635.22	607.96	27.26	23.304	
3,200.00	2,850.51	3,283.26	3,125.11	25.74	17.10	-159.59	455.14	492.97	658.45	629.81	28.65	22.984	
3,300.00	2,926.64	3,380.36	3,209.34	27.11	17.99	-159.12	485.50	530.55	681.74	651.68	30.06	22.680	
3,400.00	3,002.76	3,477.46	3,293.57	28.49	18.89	-158.67	515.85	568.13	705.06	673.58	31.49	22.391	
3,500.00	3,078.89	3,574.56	3,377.80	29.87	19.79	-158.25	546.21	605.70	728.43	695.49	32.93	22.118	
3,600.00	3,155.02	3,671.66	3,462.03	31.25	20.69	-157.86	576.56	643.28	751.82	717.43	34.39	21.859	
3,700.00	3,231.14	3,768.76	3,546.26	32.63	21.60	-157.49	606.92	680.86	775.25	739.39	35.87	21.615	
3,800.00	3,307.27	3,865.86	3,630.50	34.01	22.52	-157.15	637.27	718.44	798.71	761.36	37.35	21.383	
3,900.00	3,383.39	3,962.96	3,714.73	35.40	23.43	-156.82	667.63	756.01	822.19	783.34	38.85	21.164	
4,000.00	3,459.52	4,060.06	3,798.96	36.79	24.35	-156.51	697.98	793.59	845.70	805.35	40.36	20.956	
4,100.00	3,535.65	4,157.16	3,883.19	38.18	25.27	-156.22	728.34	831.17	869.23	827.36	41.87	20.759	
4,200.00	3,611.77	4,254.26	3,967.42	39.57	26.20	-155.95	758.69	868.74	892.78	849.38	43.40	20.573	
4,300.00	3,687.90	4,351.36	4,051.65	40.96	27.12	-155.68	789.05	906.32	916.35	871.42	44.93	20.396	
4,400.00	3,764.02	4,448.46	4,135.88	42.35	28.05	-155.43	819.40	943.90	939.93	893.47	46.47	20.228	
4,500.00	3,840.15	4,545.56	4,220.11	43.74	28.98	-155.20	849.76	981.47	963.53	915.52	48.01	20.068	
4,600.00	3,916.28	4,642.66	4,304.35	45.13	29.91	-154.97	880.11	1,019.05	987.15	937.58	49.57	19.916	
4,700.00	3,992.40	4,739.76	4,388.58	46.53	30.85	-154.76	910.47	1,056.63	1,010.78	959.66	51.12	19.772	
4,800.00	4,068.53	4,836.86	4,472.81	47.92	31.78	-154.55	940.82	1,094.21	1,034.42	981.74	52.69	19.634	
4,900.00	4,144.66	4,933.96	4,557.04	49.32	32.71	-154.36	971.18	1,131.78	1,058.08	1,003.82	54.25	19.503	
5,000.00	4,220.78	5,031.06	4,641.27	50.71	33.65	-154.17	1,001.53	1,169.36	1,081.74	1,025.92	55.82	19.377	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,128.15	4,725.50	52.11	34.59	-153.99	1,031.89	1,206.94	1,105.42	1,048.02	57.40	19.258		
5,200.00	4,373.03	5,225.25	4,809.73	53.51	35.52	-153.82	1,062.24	1,244.51	1,129.11	1,070.13	58.98	19.144		
5,300.00	4,449.16	5,322.35	4,893.96	54.90	36.46	-153.65	1,092.60	1,282.09	1,152.80	1,092.24	60.56	19.034		
5,400.00	4,525.29	5,419.45	4,978.19	56.30	37.40	-153.49	1,122.95	1,319.67	1,176.50	1,114.35	62.15	18.930		
5,500.00	4,601.41	5,516.55	5,062.43	57.70	38.34	-153.34	1,153.31	1,357.24	1,200.22	1,136.48	63.74	18.830		
5,600.00	4,677.54	5,613.65	5,146.66	59.10	39.28	-153.20	1,183.66	1,394.82	1,223.94	1,158.60	65.33	18.734		
5,700.00	4,753.66	5,710.75	5,230.89	60.49	40.22	-153.06	1,214.02	1,432.40	1,247.66	1,180.73	66.93	18.641		
5,800.00	4,829.79	5,807.85	5,315.12	61.89	41.16	-152.92	1,244.37	1,469.98	1,271.40	1,202.87	68.53	18.553		
5,900.00	4,905.92	5,904.95	5,399.35	63.29	42.11	-152.79	1,274.73	1,507.55	1,295.14	1,225.01	70.13	18.468		
6,000.00	4,982.04	6,002.05	5,483.58	64.69	43.05	-152.66	1,305.08	1,545.13	1,318.88	1,247.15	71.73	18.386		
6,100.00	5,058.17	6,100.85	5,567.81	66.09	44.01	-152.54	1,335.44	1,582.71	1,342.64	1,269.29	73.35	18.305		
6,200.00	5,134.30	6,203.75	5,652.04	67.49	45.01	-152.43	1,365.79	1,620.28	1,366.39	1,291.39	75.00	18.219		
6,300.00	5,210.42	6,306.65	5,736.28	68.89	46.01	-152.31	1,396.15	1,657.86	1,390.16	1,313.51	76.65	18.136		
6,400.00	5,286.55	6,390.45	5,820.51	70.29	46.82	-152.20	1,426.50	1,695.44	1,413.92	1,335.76	78.16	18.089		
6,500.00	5,362.67	6,487.55	5,904.74	71.69	47.77	-152.10	1,456.86	1,733.01	1,437.70	1,357.92	79.78	18.021		
6,600.00	5,438.80	6,584.65	5,988.97	73.09	48.71	-152.00	1,487.21	1,770.59	1,461.47	1,380.08	81.39	17.956		
6,700.00	5,514.93	6,681.75	6,073.20	74.49	49.66	-151.90	1,517.57	1,808.17	1,485.25	1,402.25	83.01	17.893		
6,800.00	5,591.05	6,778.85	6,157.43	75.89	50.60	-151.80	1,547.92	1,845.75	1,509.04	1,424.41	84.63	17.832		
6,900.00	5,667.18	6,875.95	6,241.66	77.29	51.55	-151.71	1,578.28	1,883.32	1,532.83	1,446.58	86.25	17.773		
7,000.00	5,743.30	6,973.05	6,325.89	78.69	52.49	-151.62	1,608.63	1,920.90	1,556.62	1,468.76	87.87	17.716		
7,100.00	5,819.43	7,070.15	6,410.12	80.09	53.44	-151.53	1,638.99	1,958.48	1,580.42	1,490.93	89.49	17.661		
7,200.00	5,895.56	7,167.25	6,494.36	81.49	54.39	-151.45	1,669.34	1,996.05	1,604.22	1,513.11	91.11	17.607		
7,300.00	5,971.68	7,264.35	6,578.59	82.90	55.33	-151.36	1,699.70	2,033.63	1,628.02	1,535.29	92.73	17.556		
7,400.00	6,047.81	7,361.45	6,662.82	84.30	56.28	-151.28	1,730.05	2,071.21	1,651.83	1,557.47	94.36	17.506		
7,500.00	6,123.94	7,458.55	6,747.05	85.70	57.23	-151.21	1,760.41	2,108.78	1,675.64	1,579.65	95.99	17.457		
7,600.00	6,200.06	7,555.65	6,831.28	87.10	58.17	-151.13	1,790.76	2,146.36	1,699.45	1,601.83	97.61	17.410		
7,700.00	6,276.19	7,652.75	6,915.51	88.50	59.12	-151.06	1,821.12	2,183.94	1,723.26	1,624.02	99.24	17.364		
7,800.00	6,352.31	7,786.56	7,033.76	89.90	60.35	-151.27	1,854.00	2,236.66	1,746.38	1,645.54	100.84	17.318		
7,900.00	6,428.44	7,927.71	7,162.38	91.31	61.32	-152.55	1,856.09	2,293.89	1,766.99	1,666.35	100.64	17.557		
8,000.00	6,504.57	8,046.21	7,268.08	92.71	61.83	-154.40	1,831.23	2,340.83	1,786.37	1,687.22	99.14	18.018		
8,100.00	6,580.69	8,139.56	7,346.70	94.11	62.02	-156.30	1,795.22	2,375.69	1,806.30	1,709.01	97.29	18.567		
8,200.00	6,656.82	8,211.43	7,403.01	95.51	62.07	-157.98	1,758.24	2,400.62	1,828.25	1,732.69	95.55	19.134		
8,300.00	6,732.95	8,266.86	7,443.29	96.91	62.04	-159.39	1,724.63	2,418.42	1,853.18	1,759.15	94.03	19.707		
8,400.00	6,809.07	8,310.15	7,472.58	98.32	61.99	-160.56	1,695.51	2,431.36	1,881.65	1,788.95	92.71	20.297		
8,500.00	6,885.20	8,344.54	7,494.37	99.72	61.93	-161.51	1,670.71	2,440.97	1,913.94	1,822.44	91.50	20.918		
8,600.00	6,961.32	8,372.32	7,510.96	101.12	61.87	-162.31	1,649.65	2,448.28	1,950.12	1,859.77	90.35	21.583		
8,700.00	7,037.45	8,400.00	7,526.53	102.52	61.81	-163.11	1,627.83	2,455.13	1,990.19	1,901.09	89.10	22.337		
8,732.15	7,061.92	8,400.00	7,526.53	102.97	61.81	-163.11	1,627.83	2,455.13	2,003.86	1,914.92	88.94	22.532		
8,750.00	7,075.57	8,400.00	7,526.53	103.22	61.81	-165.99	1,627.83	2,455.13	2,011.62	1,922.78	88.85	22.642		
8,800.00	7,114.27	8,416.12	7,535.16	103.91	61.76	-174.87	1,614.75	2,458.93	2,033.80	1,945.63	88.17	23.067		
8,850.00	7,153.47	8,428.16	7,541.38	104.58	61.72	176.02	1,604.81	2,461.66	2,056.50	1,968.82	87.69	23.453		
8,900.00	7,192.85	8,450.00	7,552.17	105.21	61.66	166.54	1,586.43	2,466.40	2,079.51	1,992.52	86.99	23.905		
8,950.00	7,232.12	8,450.00	7,552.17	105.80	61.66	157.70	1,586.43	2,466.40	2,102.49	2,015.49	87.00	24.168		
9,000.00	7,270.99	8,469.66	7,561.33	106.35	61.59	148.74	1,569.50	2,470.42	2,125.29	2,038.79	86.50	24.571		
9,050.00	7,309.16	8,484.91	7,568.06	106.85	61.54	140.42	1,556.14	2,473.37	2,147.71	2,061.51	86.19	24.917		
9,100.00	7,346.32	8,500.00	7,574.41	107.30	61.48	132.76	1,542.74	2,476.15	2,169.52	2,083.55	85.96	25.238		
9,150.00	7,382.22	8,517.03	7,581.18	107.69	61.42	125.79	1,527.40	2,479.11	2,190.53	2,104.79	85.74	25.547		
9,200.00	7,416.56	8,533.77	7,587.42	108.02	61.35	119.57	1,512.11	2,481.83	2,210.58	2,124.97	85.60	25.824		
9,250.00	7,449.09	8,550.00	7,593.09	108.29	61.29	114.08	1,497.10	2,484.30	2,229.48	2,143.93	85.55	26.061		
9,300.00	7,479.56	8,568.33	7,599.01	108.51	61.21	109.25	1,479.95	2,486.88	2,247.10	2,161.59	85.50	26.281		
9,350.00	7,507.74	8,586.06	7,604.27	108.68	61.13	105.07	1,463.17	2,489.16	2,263.29	2,177.74	85.55	26.455		
9,400.00	7,533.41	8,600.00	7,608.07	108.79	61.07	101.51	1,449.86	2,490.81	2,277.94	2,192.14	85.80	26.548		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,622.22	7,613.50	108.86	60.97	98.45	1,428.44	2,493.15	2,290.92	2,205.06	85.86	26.682		
9,500.00	7,576.48	8,650.00	7,619.23	108.88	60.84	95.88	1,401.37	2,495.61	2,302.21	2,216.42	85.79	26.835		
9,550.00	7,593.55	8,650.00	7,619.23	108.86	60.84	93.92	1,401.37	2,495.61	2,311.61	2,224.81	86.79	26.633		
9,600.00	7,607.46	8,677.71	7,623.73	108.80	60.71	92.29	1,374.10	2,497.52	2,319.07	2,232.19	86.88	26.692		
9,650.00	7,618.11	8,700.00	7,626.48	108.71	60.60	91.11	1,352.01	2,498.67	2,324.64	2,237.40	87.24	26.648		
9,700.00	7,625.41	8,715.19	7,627.91	108.59	60.52	90.35	1,336.90	2,499.26	2,328.21	2,240.27	87.94	26.475		
9,750.00	7,629.30	8,733.99	7,629.16	108.45	60.43	89.98	1,318.15	2,499.75	2,329.77	2,241.20	88.58	26.303		
9,781.81	7,630.00	8,750.00	7,629.78	108.35	60.35	89.95	1,302.15	2,499.97	2,329.73	2,240.88	88.85	26.221		
9,800.00	7,630.00	8,750.00	7,629.78	108.29	60.35	89.95	1,302.15	2,499.97	2,329.50	2,240.12	89.39	26.061		
9,900.00	7,630.00	8,830.19	7,630.00	107.97	59.95	89.95	1,221.97	2,499.80	2,329.32	2,240.22	89.10	26.142		
9,908.48	7,630.00	8,838.67	7,630.00	107.95	59.91	89.95	1,213.49	2,499.77	2,329.32	2,240.31	89.02	26.167		
10,000.00	7,630.00	8,930.19	7,630.00	107.67	59.47	89.95	1,121.97	2,499.46	2,329.32	2,241.20	88.12	26.434		
10,100.00	7,630.00	9,030.19	7,630.00	107.38	59.01	89.95	1,021.97	2,499.13	2,329.32	2,242.05	87.27	26.691		
10,200.00	7,630.00	9,130.19	7,630.00	107.10	58.58	89.95	921.97	2,498.79	2,329.32	2,242.76	86.56	26.910		
10,300.00	7,630.00	9,230.19	7,630.00	106.84	58.18	89.95	821.97	2,498.45	2,329.32	2,243.33	85.99	27.089		
10,400.00	7,630.00	9,330.19	7,630.00	106.59	57.79	89.95	721.97	2,498.12	2,329.32	2,243.76	85.56	27.224		
10,500.00	7,630.00	9,430.19	7,630.00	106.35	57.43	89.95	621.97	2,497.78	2,329.32	2,244.04	85.28	27.314		
10,600.00	7,630.00	9,530.19	7,630.00	106.13	57.09	89.95	521.97	2,497.44	2,329.32	2,244.17	85.14	27.358		
10,700.00	7,630.00	9,630.19	7,630.00	105.92	56.78	89.95	421.97	2,497.11	2,329.32	2,244.16	85.16	27.353		
10,800.00	7,630.00	9,730.19	7,630.00	105.72	56.49	89.95	321.97	2,496.77	2,329.32	2,244.00	85.32	27.302		
10,900.00	7,630.00	9,830.19	7,630.00	105.54	56.22	89.95	221.97	2,496.43	2,329.32	2,243.69	85.62	27.204		
11,000.00	7,630.00	9,930.19	7,630.00	105.37	55.98	89.95	121.97	2,496.10	2,329.32	2,243.24	86.07	27.061		
11,100.00	7,630.00	10,030.19	7,630.00	105.21	55.76	89.95	21.97	2,495.76	2,329.32	2,242.65	86.67	26.876		
11,200.00	7,630.00	10,130.19	7,630.00	105.06	55.57	89.95	-78.03	2,495.42	2,329.32	2,241.91	87.40	26.650		
11,300.00	7,630.00	10,230.19	7,630.00	104.93	55.41	89.95	-178.03	2,495.09	2,329.31	2,241.04	88.27	26.388		
11,400.00	7,630.00	10,330.19	7,630.00	104.82	55.28	89.95	-278.02	2,494.75	2,329.31	2,240.04	89.27	26.092		
11,500.00	7,630.00	10,430.19	7,630.00	104.72	55.19	89.95	-378.02	2,494.41	2,329.31	2,238.91	90.40	25.766		
11,600.00	7,630.00	10,530.19	7,630.00	104.63	55.14	89.95	-478.02	2,494.07	2,329.31	2,237.66	91.65	25.414		
11,700.00	7,630.00	10,630.19	7,630.00	104.55	55.14	89.95	-578.02	2,493.74	2,329.31	2,236.29	93.02	25.040		
11,800.00	7,630.00	10,730.19	7,630.00	104.50	55.20	89.95	-678.02	2,493.40	2,329.31	2,234.81	94.51	24.647		
11,900.00	7,630.00	10,830.19	7,630.00	104.45	55.33	89.95	-778.02	2,493.06	2,329.31	2,233.22	96.09	24.240		
12,000.00	7,630.00	10,930.19	7,630.00	104.43	55.54	89.95	-878.02	2,492.73	2,329.31	2,231.53	97.78	23.821		
12,100.00	7,630.00	11,030.19	7,630.00	104.42	55.84	89.95	-978.02	2,492.39	2,329.31	2,229.74	99.57	23.394		
12,200.00	7,630.00	11,130.19	7,630.00	104.42	56.25	89.95	-1,078.02	2,492.05	2,329.31	2,227.86	101.45	22.961		
12,300.00	7,630.00	11,230.19	7,630.00	104.45	56.76	89.95	-1,178.02	2,491.72	2,329.31	2,225.90	103.41	22.524		
12,400.00	7,630.00	11,330.19	7,630.00	104.49	57.40	89.95	-1,278.02	2,491.38	2,329.31	2,223.85	105.46	22.087		
12,500.00	7,630.00	11,430.19	7,630.00	104.55	58.14	89.95	-1,378.02	2,491.04	2,329.31	2,221.73	107.58	21.652		
12,600.00	7,630.00	11,530.19	7,630.00	104.63	58.98	89.95	-1,478.02	2,490.71	2,329.31	2,219.53	109.78	21.219		
12,700.00	7,630.00	11,630.19	7,630.00	104.73	59.91	89.95	-1,578.02	2,490.37	2,329.31	2,217.27	112.04	20.790		
12,800.00	7,630.00	11,730.19	7,630.00	104.85	60.92	89.95	-1,678.02	2,490.03	2,329.31	2,214.94	114.37	20.367		
12,900.00	7,630.00	11,830.19	7,630.00	104.99	62.00	89.95	-1,778.02	2,489.70	2,329.31	2,212.55	116.76	19.950		
13,000.00	7,630.00	11,930.19	7,630.00	105.15	63.13	89.95	-1,878.02	2,489.36	2,329.31	2,210.10	119.20	19.541		
13,100.00	7,630.00	12,030.19	7,630.00	105.34	64.31	89.95	-1,978.02	2,489.02	2,329.31	2,207.61	121.70	19.140		
13,200.00	7,630.00	12,130.19	7,630.00	105.56	65.53	89.95	-2,078.01	2,488.69	2,329.30	2,205.06	124.25	18.747		
13,300.00	7,630.00	12,230.19	7,630.00	105.80	66.79	89.95	-2,178.01	2,488.35	2,329.30	2,202.46	126.84	18.364		
13,400.00	7,630.00	12,330.19	7,630.00	106.06	68.08	89.95	-2,278.01	2,488.01	2,329.30	2,199.82	129.48	17.989		
13,500.00	7,630.00	12,430.19	7,630.00	106.36	69.39	89.95	-2,378.01	2,487.68	2,329.30	2,197.14	132.16	17.625		
13,600.00	7,630.00	12,530.19	7,630.00	106.68	70.73	89.95	-2,478.01	2,487.34	2,329.30	2,194.42	134.88	17.269		
13,700.00	7,630.00	12,630.19	7,630.00	107.03	72.10	89.95	-2,578.01	2,487.00	2,329.30	2,191.66	137.64	16.923		
13,800.00	7,630.00	12,730.19	7,630.00	107.42	73.48	89.95	-2,678.01	2,486.67	2,329.30	2,188.87	140.43	16.587		
13,900.00	7,630.00	12,830.19	7,630.00	107.83	74.88	89.95	-2,778.01	2,486.33	2,329.30	2,186.05	143.26	16.260		
14,000.00	7,630.00	12,930.19	7,630.00	108.28	76.30	89.95	-2,878.01	2,485.99	2,329.30	2,183.19	146.11	15.942		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	13,030.19	7,630.00	108.77	77.73	89.95	-2,978.01	2,485.66	2,329.30	2,180.31	148.99	15.633		
14,200.00	7,630.00	13,130.19	7,630.00	109.29	79.18	89.95	-3,078.01	2,485.32	2,329.30	2,177.39	151.91	15.334		
14,300.00	7,630.00	13,230.19	7,630.00	109.84	80.64	89.95	-3,178.01	2,484.98	2,329.30	2,174.46	154.84	15.043		
14,400.00	7,630.00	13,330.19	7,630.00	110.43	82.11	89.95	-3,278.01	2,484.65	2,329.30	2,171.49	157.81	14.761		
14,500.00	7,630.00	13,430.19	7,630.00	111.06	83.59	89.95	-3,378.01	2,484.31	2,329.30	2,168.51	160.79	14.487		
14,600.00	7,630.00	13,530.19	7,630.00	111.72	85.09	89.95	-3,478.01	2,483.97	2,329.30	2,165.50	163.80	14.221		
14,700.00	7,630.00	13,630.19	7,630.00	112.42	86.59	89.95	-3,578.01	2,483.64	2,329.30	2,162.47	166.82	13.963		
14,800.00	7,630.00	13,730.19	7,630.00	113.16	88.11	89.95	-3,678.01	2,483.30	2,329.30	2,159.43	169.87	13.712		
14,900.00	7,630.00	13,830.19	7,630.00	113.94	89.63	89.95	-3,778.01	2,482.96	2,329.30	2,156.36	172.94	13.469		
15,000.00	7,630.00	13,930.19	7,630.00	114.75	91.16	89.95	-3,878.00	2,482.63	2,329.30	2,153.28	176.02	13.233		
15,100.00	7,630.00	14,030.19	7,630.00	115.60	92.70	89.95	-3,978.00	2,482.29	2,329.29	2,150.18	179.12	13.004		
15,200.00	7,630.00	14,130.19	7,630.00	116.48	94.25	89.95	-4,078.00	2,481.95	2,329.29	2,147.06	182.23	12.782		
15,300.00	7,630.00	14,230.19	7,630.00	117.40	95.80	89.95	-4,178.00	2,481.62	2,329.29	2,143.93	185.36	12.566		
15,400.00	7,630.00	14,330.19	7,630.00	118.35	97.37	89.95	-4,278.00	2,481.28	2,329.29	2,140.79	188.51	12.356		
15,500.00	7,630.00	14,430.19	7,630.00	119.34	98.93	89.95	-4,378.00	2,480.94	2,329.29	2,137.63	191.67	12.153		
15,600.00	7,630.00	14,530.19	7,630.00	120.35	100.51	89.95	-4,478.00	2,480.61	2,329.29	2,134.46	194.84	11.955		
15,700.00	7,630.00	14,630.19	7,630.00	121.40	102.09	89.95	-4,578.00	2,480.27	2,329.29	2,131.27	198.02	11.763		
15,800.00	7,630.00	14,730.19	7,630.00	122.48	103.67	89.95	-4,678.00	2,479.93	2,329.29	2,128.08	201.21	11.576		
15,900.00	7,630.00	14,830.19	7,630.00	123.58	105.27	89.95	-4,778.00	2,479.60	2,329.29	2,124.87	204.42	11.395		
16,000.00	7,630.00	14,930.19	7,630.00	124.71	106.86	89.95	-4,878.00	2,479.26	2,329.29	2,121.65	207.64	11.218		
16,100.00	7,630.00	15,030.19	7,630.00	125.87	108.46	89.95	-4,978.00	2,478.92	2,329.29	2,118.43	210.86	11.046		
16,200.00	7,630.00	15,130.19	7,630.00	127.05	110.07	89.95	-5,078.00	2,478.59	2,329.29	2,115.19	214.10	10.879		
16,300.00	7,630.00	15,230.19	7,630.00	128.26	111.68	89.95	-5,178.00	2,478.25	2,329.29	2,111.94	217.35	10.717		
16,400.00	7,630.00	15,330.19	7,630.00	129.48	113.30	89.95	-5,278.00	2,477.91	2,329.29	2,108.69	220.60	10.559		
16,500.00	7,630.00	15,430.19	7,630.00	130.73	114.91	89.95	-5,378.00	2,477.58	2,329.29	2,105.42	223.86	10.405		
16,600.00	7,630.00	15,530.19	7,630.00	132.00	116.54	89.95	-5,478.00	2,477.24	2,329.29	2,102.15	227.14	10.255		
16,700.00	7,630.00	15,630.19	7,630.00	133.29	118.16	89.95	-5,577.99	2,476.90	2,329.29	2,098.87	230.41	10.109		
16,800.00	7,630.00	15,730.19	7,630.00	134.59	119.79	89.95	-5,677.99	2,476.56	2,329.29	2,095.58	233.70	9.967		
16,900.00	7,630.00	15,830.19	7,630.00	135.91	121.43	89.95	-5,777.99	2,476.23	2,329.29	2,092.29	236.99	9.828		
17,000.00	7,630.00	15,930.19	7,630.00	137.25	123.07	89.95	-5,877.99	2,475.89	2,329.28	2,088.99	240.30	9.693		
17,100.00	7,630.00	16,030.19	7,630.00	138.61	124.71	89.95	-5,977.99	2,475.55	2,329.28	2,085.68	243.60	9.562		
17,200.00	7,630.00	16,130.19	7,630.00	139.97	126.35	89.95	-6,077.99	2,475.22	2,329.28	2,082.37	246.92	9.434		
17,300.00	7,630.00	16,230.19	7,630.00	141.36	128.00	89.95	-6,177.99	2,474.88	2,329.28	2,079.05	250.23	9.308		
17,400.00	7,630.00	16,330.19	7,630.00	142.75	129.65	89.95	-6,277.99	2,474.54	2,329.28	2,075.72	253.56	9.186		
17,500.00	7,630.00	16,430.19	7,630.00	144.16	131.30	89.95	-6,377.99	2,474.21	2,329.28	2,072.39	256.89	9.067		
17,600.00	7,630.00	16,530.19	7,630.00	145.58	132.96	89.95	-6,477.99	2,473.87	2,329.28	2,069.06	260.23	8.951		
17,700.00	7,630.00	16,630.19	7,630.00	147.01	134.61	89.95	-6,577.99	2,473.53	2,329.28	2,065.71	263.57	8.838		
17,800.00	7,630.00	16,730.19	7,630.00	148.45	136.27	89.95	-6,677.99	2,473.20	2,329.28	2,062.37	266.91	8.727		
17,900.00	7,630.00	16,830.19	7,630.00	149.91	137.94	89.95	-6,777.99	2,472.86	2,329.28	2,059.02	270.27	8.619		
18,000.00	7,630.00	16,930.19	7,630.00	151.37	139.60	89.95	-6,877.99	2,472.52	2,329.28	2,055.66	273.62	8.513		
18,100.00	7,630.00	17,030.19	7,630.00	152.84	141.27	89.95	-6,977.99	2,472.19	2,329.28	2,052.30	276.98	8.410		
18,200.00	7,630.00	17,130.19	7,630.00	154.32	142.94	89.95	-7,077.99	2,471.85	2,329.28	2,048.93	280.35	8.309		
18,300.00	7,630.00	17,230.19	7,630.00	155.81	144.61	89.95	-7,177.99	2,471.51	2,329.28	2,045.56	283.71	8.210		
18,400.00	7,630.00	17,330.19	7,630.00	157.31	146.29	89.95	-7,277.99	2,471.18	2,329.28	2,042.19	287.09	8.114		
18,500.00	7,630.00	17,430.19	7,630.00	158.81	147.96	89.95	-7,377.98	2,470.84	2,329.28	2,038.81	290.46	8.019		
18,600.00	7,630.00	17,530.19	7,630.00	160.32	149.64	89.95	-7,477.98	2,470.50	2,329.28	2,035.43	293.84	7.927		
18,700.00	7,630.00	17,630.19	7,630.00	161.84	151.32	89.95	-7,577.98	2,470.17	2,329.28	2,032.05	297.23	7.837		
18,800.00	7,630.00	17,730.19	7,630.00	163.37	153.00	89.95	-7,677.98	2,469.83	2,329.28	2,028.66	300.61	7.748		
18,900.00	7,630.00	17,830.19	7,630.00	164.90	154.68	89.95	-7,777.98	2,469.49	2,329.27	2,025.27	304.00	7.662		
19,000.00	7,630.00	17,930.19	7,630.00	166.43	156.37	89.95	-7,877.98	2,469.16	2,329.27	2,021.88	307.40	7.577		
19,100.00	7,630.00	18,030.19	7,630.00	167.98	158.06	89.95	-7,977.98	2,468.82	2,329.27	2,018.48	310.79	7.495		
19,200.00	7,630.00	18,130.19	7,630.00	169.53	159.75	89.95	-8,077.98	2,468.48	2,329.27	2,015.08	314.19	7.413		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	18,230.19	7,630.00	171.08	161.44	89.95	-8,177.98	2,468.15	2,329.27	2,011.68	317.60	7.334	
19,400.00	7,630.00	18,330.19	7,630.00	172.64	163.13	89.95	-8,277.98	2,467.81	2,329.27	2,008.27	321.00	7.256	
19,500.00	7,630.00	18,430.19	7,630.00	174.21	164.82	89.95	-8,377.98	2,467.47	2,329.27	2,004.86	324.41	7.180	
19,518.56	7,630.00	18,448.75	7,630.00	174.50	165.13	89.95	-8,396.54	2,467.41	2,329.27	2,004.23	325.04	7.166 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.65	0.36	-59.92	59.92					
100.00	100.00	102.00	102.00	0.13	0.14	-89.65	0.36	-59.92	59.92	59.65	0.28	217.089		
200.00	200.00	202.00	202.00	0.49	0.50	-89.65	0.36	-59.92	59.92	58.93	0.99	60.346		
300.00	300.00	302.00	302.00	0.85	0.86	-89.65	0.36	-59.92	59.92	58.21	1.71	35.044		
400.00	400.00	402.00	402.00	1.21	1.22	-89.65	0.36	-59.92	59.92	57.49	2.43	24.691	CC, ES	
500.00	499.98	501.98	501.98	1.56	1.58	-157.01	0.36	-59.92	61.52	58.39	3.14	19.598		
600.00	599.84	601.84	601.84	1.92	1.93	-158.74	0.36	-59.92	66.37	62.52	3.85	17.229		
700.00	699.45	701.45	701.45	2.29	2.29	-161.12	0.36	-59.92	74.57	70.00	4.57	16.321		
800.00	798.70	800.70	800.70	2.67	2.65	-163.67	0.36	-59.92	86.19	80.91	5.29	16.302		
900.00	897.47	900.53	899.47	3.07	3.00	-166.09	0.36	-59.92	101.31	95.30	6.01	16.855		
1,000.00	995.62	997.62	997.62	3.50	3.35	-168.20	0.36	-59.92	119.93	113.20	6.73	17.828		
1,100.00	1,093.06	1,099.60	1,099.58	3.96	3.71	-169.79	1.37	-58.51	140.51	133.05	7.46	18.843		
1,200.00	1,189.64	1,202.43	1,202.26	4.46	4.08	-170.69	4.50	-54.09	161.27	153.08	8.19	19.695		
1,300.00	1,285.27	1,306.02	1,305.43	5.00	4.45	-171.14	9.82	-46.61	182.14	173.22	8.93	20.406		
1,400.00	1,379.82	1,410.37	1,408.96	5.60	4.84	-171.26	17.35	-36.00	203.08	193.40	9.67	20.999		
1,500.00	1,473.17	1,515.48	1,512.71	6.25	5.24	-171.15	27.14	-22.21	224.03	213.61	10.43	21.488		
1,600.00	1,565.21	1,621.37	1,616.51	6.95	5.66	-170.85	39.23	-5.19	244.99	233.80	11.19	21.892		
1,700.00	1,655.84	1,728.02	1,720.21	7.72	6.12	-170.41	53.64	15.10	265.94	253.97	11.97	22.211		
1,800.00	1,744.94	1,835.44	1,823.65	8.55	6.62	-169.86	70.40	38.70	286.86	274.08	12.78	22.454		
1,900.00	1,832.39	1,943.63	1,926.66	9.45	7.17	-169.22	89.53	65.65	307.73	294.13	13.60	22.623		
2,000.00	1,918.11	2,052.59	2,029.06	10.41	7.77	-168.49	111.07	95.98	328.55	314.09	14.46	22.719		
2,100.00	2,001.97	2,162.30	2,130.67	11.45	8.43	-167.70	135.01	129.70	349.30	333.94	15.36	22.743		
2,200.00	2,083.88	2,272.76	2,231.30	12.56	9.17	-166.86	161.38	166.84	369.99	353.68	16.30	22.694		
2,300.00	2,163.74	2,383.98	2,330.77	13.74	9.97	-165.96	190.18	207.39	390.59	373.28	17.30	22.571		
2,400.00	2,241.45	2,495.93	2,428.87	14.99	10.86	-165.01	221.40	251.36	411.10	392.73	18.37	22.375		
2,421.22	2,257.65	2,519.78	2,449.49	15.26	11.06	-164.81	228.34	261.13	415.44	396.83	18.61	22.323		
2,500.00	2,317.63	2,603.29	2,515.86	16.29	11.77	-164.24	250.87	292.86	431.58	412.01	19.57	22.057		
2,600.00	2,393.75	2,694.45	2,600.17	17.62	12.57	-163.58	279.50	333.17	452.11	431.38	20.73	21.806		
2,700.00	2,469.88	2,807.81	2,684.48	18.95	13.59	-162.97	308.12	373.48	472.70	450.65	22.06	21.433		
2,800.00	2,546.01	2,889.93	2,768.80	20.30	14.33	-162.42	336.74	413.79	493.34	470.11	23.23	21.236		
2,900.00	2,622.13	2,987.67	2,853.11	21.65	15.23	-161.90	365.37	454.10	514.02	489.50	24.52	20.962		
3,000.00	2,698.26	3,085.41	2,937.43	23.01	16.14	-161.43	393.99	494.41	534.73	508.90	25.83	20.698		
3,100.00	2,774.38	3,183.15	3,021.74	24.37	17.06	-161.00	422.62	534.72	555.48	528.31	27.17	20.446		
3,200.00	2,850.51	3,280.89	3,106.06	25.74	17.99	-160.59	451.24	575.03	576.25	547.73	28.52	20.205		
3,300.00	2,926.64	3,378.63	3,190.37	27.11	18.92	-160.22	479.86	615.34	597.05	567.16	29.89	19.975		
3,400.00	3,002.76	3,476.37	3,274.68	28.49	19.86	-159.87	508.49	655.65	617.88	586.60	31.27	19.757		
3,500.00	3,078.89	3,574.11	3,359.00	29.87	20.80	-159.54	537.11	695.96	638.72	606.05	32.67	19.551		
3,600.00	3,155.02	3,671.85	3,443.31	31.25	21.75	-159.23	565.74	736.26	659.58	625.51	34.08	19.354		
3,700.00	3,231.14	3,769.59	3,527.63	32.63	22.70	-158.94	594.36	776.57	680.46	644.97	35.50	19.168		
3,800.00	3,307.27	3,867.33	3,611.94	34.01	23.65	-158.67	622.99	816.88	701.36	664.43	36.93	18.992		
3,900.00	3,383.39	3,965.07	3,696.26	35.40	24.61	-158.41	651.61	857.19	722.27	683.90	38.37	18.825		
4,000.00	3,459.52	4,062.81	3,780.57	36.79	25.56	-158.17	680.23	897.50	743.19	703.38	39.82	18.666		
4,100.00	3,535.65	4,160.55	3,864.88	38.18	26.52	-157.94	708.86	937.81	764.13	722.86	41.27	18.515		
4,200.00	3,611.77	4,258.29	3,949.20	39.57	27.48	-157.73	737.48	978.12	785.07	742.34	42.73	18.372		
4,300.00	3,687.90	4,356.03	4,033.51	40.96	28.45	-157.52	766.11	1,018.43	806.03	761.83	44.20	18.236		
4,400.00	3,764.02	4,453.77	4,117.83	42.35	29.41	-157.33	794.73	1,058.74	827.00	781.32	45.67	18.106		
4,500.00	3,840.15	4,551.51	4,202.14	43.74	30.38	-157.14	823.35	1,099.05	847.97	800.82	47.15	17.983		
4,600.00	3,916.28	4,649.25	4,286.45	45.13	31.35	-156.97	851.98	1,139.36	868.95	820.31	48.64	17.866		
4,700.00	3,992.40	4,746.99	4,370.77	46.53	32.32	-156.80	880.60	1,179.67	889.94	839.81	50.13	17.754		
4,800.00	4,068.53	4,844.73	4,455.08	47.92	33.29	-156.64	909.23	1,219.98	910.94	859.32	51.62	17.647		
4,900.00	4,144.66	4,942.47	4,539.40	49.32	34.26	-156.49	937.85	1,260.29	931.94	878.82	53.12	17.545		
5,000.00	4,220.78	5,040.21	4,623.71	50.71	35.23	-156.34	966.47	1,300.60	952.95	898.33	54.62	17.448		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,137.95	4,708.03	52.11	36.20	-156.20	995.10	1,340.91	973.96	917.84	56.12	17.355		
5,200.00	4,373.03	5,235.69	4,792.34	53.51	37.18	-156.07	1,023.72	1,381.22	994.98	937.36	57.63	17.265		
5,300.00	4,449.16	5,333.43	4,876.65	54.90	38.15	-155.94	1,052.35	1,421.53	1,016.01	956.87	59.14	17.180		
5,400.00	4,525.29	5,431.17	4,960.97	56.30	39.12	-155.82	1,080.97	1,461.84	1,037.04	976.39	60.65	17.098		
5,500.00	4,601.41	5,528.91	5,045.28	57.70	40.10	-155.70	1,109.59	1,502.15	1,058.07	995.90	62.17	17.020		
5,600.00	4,677.54	5,626.65	5,129.60	59.10	41.07	-155.58	1,138.22	1,542.46	1,079.11	1,015.43	63.69	16.944		
5,700.00	4,753.66	5,724.39	5,213.91	60.49	42.05	-155.47	1,166.84	1,582.77	1,100.15	1,034.95	65.21	16.872		
5,800.00	4,829.79	5,822.13	5,298.23	61.89	43.03	-155.37	1,195.47	1,623.08	1,121.20	1,054.47	66.73	16.802		
5,900.00	4,905.92	5,919.87	5,382.54	63.29	44.01	-155.27	1,224.09	1,663.39	1,142.25	1,073.99	68.25	16.735		
6,000.00	4,982.04	6,017.61	5,466.85	64.69	44.98	-155.17	1,252.71	1,703.70	1,163.30	1,093.52	69.78	16.671		
6,100.00	5,058.17	6,115.35	5,551.17	66.09	45.96	-155.08	1,281.34	1,744.01	1,184.36	1,113.05	71.31	16.609		
6,200.00	5,134.30	6,213.09	5,635.48	67.49	46.94	-154.99	1,309.96	1,784.32	1,205.41	1,132.58	72.84	16.549		
6,300.00	5,210.42	6,310.83	5,719.80	68.89	47.92	-154.90	1,338.59	1,824.63	1,226.48	1,152.11	74.37	16.492		
6,400.00	5,286.55	6,408.57	5,804.11	70.29	48.90	-154.81	1,367.21	1,864.94	1,247.54	1,171.64	75.90	16.436		
6,500.00	5,362.67	6,506.31	5,888.43	71.69	49.88	-154.73	1,395.83	1,905.25	1,268.61	1,191.17	77.44	16.382		
6,600.00	5,438.80	6,604.05	5,972.74	73.09	50.86	-154.65	1,424.46	1,945.56	1,289.68	1,210.70	78.97	16.330		
6,700.00	5,514.93	6,701.79	6,057.05	74.49	51.84	-154.58	1,453.08	1,985.87	1,310.75	1,230.23	80.51	16.280		
6,800.00	5,591.05	6,800.47	6,141.37	75.89	52.83	-154.50	1,481.71	2,026.18	1,331.82	1,249.76	82.06	16.230		
6,900.00	5,667.18	6,897.27	6,225.68	77.29	53.80	-154.43	1,510.33	2,066.49	1,352.90	1,269.31	83.59	16.185		
7,000.00	5,743.30	7,004.99	6,310.00	78.69	54.88	-154.36	1,538.95	2,106.80	1,373.97	1,288.77	85.20	16.126		
7,100.00	5,819.43	7,092.75	6,394.31	80.09	55.76	-154.29	1,567.58	2,147.11	1,395.05	1,308.38	86.67	16.096		
7,200.00	5,895.56	7,209.51	6,478.62	81.49	56.93	-154.23	1,596.20	2,187.42	1,416.13	1,327.78	88.35	16.029		
7,300.00	5,971.68	7,288.23	6,562.94	82.90	57.72	-154.16	1,624.83	2,227.73	1,437.22	1,347.46	89.76	16.012		
7,400.00	6,047.81	7,385.97	6,647.25	84.30	58.70	-154.10	1,653.45	2,268.04	1,458.30	1,367.00	91.31	15.972		
7,500.00	6,123.94	7,483.71	6,731.57	85.70	59.69	-154.04	1,682.07	2,308.35	1,479.39	1,386.54	92.85	15.933		
7,600.00	6,200.06	7,581.45	6,815.88	87.10	60.67	-153.98	1,710.70	2,348.66	1,500.47	1,406.08	94.40	15.895		
7,700.00	6,276.19	7,679.19	6,900.20	88.50	61.65	-153.92	1,739.32	2,388.97	1,521.56	1,425.62	95.95	15.859		
7,800.00	6,352.31	7,776.93	6,984.51	89.90	62.63	-153.87	1,767.95	2,429.28	1,542.65	1,445.16	97.49	15.823		
7,900.00	6,428.44	7,874.67	7,068.82	91.31	63.61	-153.82	1,796.57	2,469.59	1,563.75	1,464.70	99.04	15.789		
8,000.00	6,504.57	7,972.41	7,153.14	92.71	64.60	-153.76	1,825.20	2,509.90	1,584.84	1,484.25	100.59	15.755		
8,100.00	6,580.69	8,082.40	7,248.64	94.11	65.68	-153.80	1,854.87	2,555.55	1,605.77	1,503.64	102.13	15.723		
8,200.00	6,656.82	8,204.22	7,357.88	95.51	66.70	-154.61	1,866.42	2,607.69	1,625.40	1,522.95	102.45	15.865		
8,300.00	6,732.95	8,313.06	7,455.43	96.91	67.38	-156.06	1,854.90	2,654.17	1,644.26	1,542.79	101.46	16.206		
8,400.00	6,809.07	8,404.55	7,534.72	98.32	67.77	-157.76	1,829.56	2,691.90	1,663.64	1,563.79	99.85	16.662		
8,500.00	6,885.20	8,478.96	7,595.88	99.72	67.96	-159.41	1,798.85	2,720.97	1,684.83	1,586.74	98.09	17.176		
8,600.00	6,961.32	8,538.77	7,642.13	101.12	68.04	-160.91	1,767.97	2,742.92	1,708.82	1,612.38	96.43	17.721		
8,700.00	7,037.45	8,586.92	7,677.09	102.52	68.06	-162.20	1,739.33	2,759.50	1,736.25	1,641.35	94.90	18.296		
8,732.15	7,061.92	8,600.00	7,686.20	102.97	68.06	-162.57	1,731.00	2,763.82	1,745.87	1,651.42	94.45	18.485		
8,750.00	7,075.57	8,607.61	7,691.42	103.22	68.06	-165.38	1,726.05	2,766.29	1,751.38	1,657.20	94.18	18.596		
8,800.00	7,114.27	8,628.25	7,705.28	103.91	68.05	-173.56	1,712.24	2,772.85	1,767.35	1,673.82	93.53	18.896		
8,850.00	7,153.47	8,650.00	7,719.39	104.58	68.03	177.87	1,697.09	2,779.53	1,783.94	1,691.01	92.93	19.196		
8,900.00	7,192.85	8,670.71	7,732.34	105.21	68.01	169.19	1,682.13	2,785.66	1,800.95	1,708.51	92.44	19.482		
8,950.00	7,232.12	8,692.44	7,745.38	105.80	67.98	160.59	1,665.89	2,791.82	1,818.17	1,726.18	92.00	19.763		
9,000.00	7,270.99	8,714.43	7,758.01	106.35	67.94	152.29	1,648.91	2,797.79	1,835.40	1,743.79	91.62	20.034		
9,050.00	7,309.16	8,736.66	7,770.18	106.85	67.90	144.47	1,631.21	2,803.53	1,852.46	1,761.17	91.30	20.291		
9,100.00	7,346.32	8,759.10	7,781.82	107.30	67.85	137.27	1,612.82	2,809.02	1,869.16	1,778.13	91.04	20.532		
9,150.00	7,382.22	8,781.73	7,792.89	107.69	67.79	130.73	1,593.79	2,814.24	1,885.34	1,794.51	90.84	20.755		
9,200.00	7,416.56	8,800.00	7,801.32	108.02	67.74	124.93	1,578.08	2,818.21	1,900.85	1,810.00	90.85	20.923		
9,250.00	7,449.09	8,827.46	7,813.15	108.29	67.66	119.69	1,553.93	2,823.77	1,915.52	1,824.89	90.63	21.135		
9,300.00	7,479.56	8,850.00	7,822.06	108.51	67.59	115.14	1,533.66	2,827.95	1,929.24	1,838.60	90.64	21.284		
9,350.00	7,507.74	8,873.71	7,830.66	108.68	67.50	111.19	1,511.93	2,831.97	1,941.88	1,851.20	90.69	21.413		
9,400.00	7,533.41	8,900.00	7,839.23	108.79	67.41	107.78	1,487.41	2,835.98	1,953.35	1,862.64	90.71	21.533		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,920.36	7,845.16	108.86	67.33	104.92	1,468.14	2,838.75	1,963.52	1,872.49	91.03	21.570		
9,500.00	7,576.48	8,950.00	7,852.69	108.88	67.22	102.50	1,439.68	2,842.24	1,972.36	1,881.29	91.07	21.657		
9,550.00	7,593.55	8,967.30	7,856.47	108.86	67.14	100.58	1,422.89	2,843.99	1,979.72	1,888.05	91.67	21.596		
9,600.00	7,607.46	9,000.00	7,862.35	108.80	67.00	99.03	1,390.84	2,846.68	1,985.66	1,893.93	91.73	21.647		
9,650.00	7,618.11	9,014.44	7,864.42	108.71	66.94	97.95	1,376.58	2,847.62	1,989.98	1,897.37	92.61	21.488		
9,700.00	7,625.41	9,038.05	7,867.11	108.59	66.83	97.22	1,353.15	2,848.82	1,992.77	1,899.59	93.18	21.386		
9,750.00	7,629.30	9,061.69	7,868.92	108.45	66.73	96.87	1,329.61	2,849.61	1,993.97	1,900.15	93.82	21.252		
9,781.81	7,630.00	9,076.72	7,869.62	108.35	66.66	96.84	1,314.59	2,849.89	1,993.90	1,899.64	94.26	21.153		
9,800.00	7,630.00	9,085.33	7,869.86	108.29	66.62	96.85	1,305.99	2,849.98	1,993.72	1,899.21	94.52	21.094		
9,830.75	7,630.00	9,101.25	7,870.00	108.19	66.54	96.86	1,290.06	2,849.99	1,993.62	1,898.73	94.89	21.009		
9,900.00	7,630.00	9,170.50	7,870.00	107.97	66.22	96.86	1,220.81	2,849.76	1,993.62	1,899.36	94.26	21.151		
10,000.00	7,630.00	9,270.50	7,870.00	107.67	65.78	96.86	1,120.81	2,849.42	1,993.62	1,900.18	93.44	21.336		
10,100.00	7,630.00	9,370.50	7,870.00	107.38	65.36	96.86	1,020.81	2,849.08	1,993.62	1,900.87	92.75	21.495		
10,200.00	7,630.00	9,470.50	7,870.00	107.10	64.96	96.86	920.81	2,848.74	1,993.62	1,901.44	92.19	21.626		
10,300.00	7,630.00	9,570.50	7,870.00	106.84	64.58	96.86	820.81	2,848.40	1,993.62	1,901.87	91.76	21.727		
10,400.00	7,630.00	9,670.50	7,870.00	106.59	64.23	96.86	720.82	2,848.07	1,993.62	1,902.16	91.46	21.798		
10,500.00	7,630.00	9,770.50	7,870.00	106.35	63.90	96.86	620.82	2,847.73	1,993.62	1,902.32	91.30	21.836		
10,600.00	7,630.00	9,870.50	7,870.00	106.13	63.58	96.86	520.82	2,847.39	1,993.63	1,902.35	91.28	21.842		
10,700.00	7,630.00	9,970.50	7,870.00	105.92	63.30	96.86	420.82	2,847.05	1,993.63	1,902.24	91.39	21.815		
10,800.00	7,630.00	10,070.50	7,870.00	105.72	63.03	96.86	320.82	2,846.71	1,993.63	1,901.99	91.64	21.756		
10,900.00	7,630.00	10,170.50	7,870.00	105.54	62.78	96.86	220.82	2,846.38	1,993.63	1,901.61	92.02	21.666		
11,000.00	7,630.00	10,270.50	7,870.00	105.37	62.56	96.86	120.82	2,846.04	1,993.63	1,901.10	92.53	21.546		
11,100.00	7,630.00	10,370.50	7,870.00	105.21	62.36	96.86	20.82	2,845.70	1,993.63	1,900.45	93.18	21.396		
11,200.00	7,630.00	10,470.50	7,870.00	105.06	62.19	96.86	-79.18	2,845.36	1,993.63	1,899.68	93.95	21.221		
11,300.00	7,630.00	10,570.50	7,870.00	104.93	62.05	96.86	-179.18	2,845.02	1,993.63	1,898.79	94.84	21.020		
11,400.00	7,630.00	10,670.50	7,870.00	104.82	61.93	96.86	-279.18	2,844.69	1,993.63	1,897.77	95.86	20.797		
11,500.00	7,630.00	10,770.50	7,870.00	104.72	61.84	96.86	-379.18	2,844.35	1,993.63	1,896.64	97.00	20.554		
11,600.00	7,630.00	10,870.50	7,870.00	104.63	61.79	96.86	-479.18	2,844.01	1,993.63	1,895.39	98.24	20.293		
11,700.00	7,630.00	10,970.50	7,870.00	104.55	61.77	96.86	-579.18	2,843.67	1,993.63	1,894.03	99.60	20.016		
11,800.00	7,630.00	11,070.50	7,870.00	104.50	61.79	96.86	-679.18	2,843.33	1,993.63	1,892.57	101.06	19.727		
11,900.00	7,630.00	11,170.50	7,870.00	104.45	61.86	96.86	-779.18	2,843.00	1,993.63	1,891.01	102.62	19.427		
12,000.00	7,630.00	11,270.50	7,870.00	104.43	61.99	96.86	-879.18	2,842.66	1,993.64	1,889.36	104.27	19.119		
12,100.00	7,630.00	11,370.50	7,870.00	104.42	62.17	96.86	-979.17	2,842.32	1,993.64	1,887.62	106.02	18.804		
12,200.00	7,630.00	11,470.50	7,870.00	104.42	62.41	96.86	-1,079.17	2,841.98	1,993.64	1,885.78	107.85	18.485		
12,300.00	7,630.00	11,570.50	7,870.00	104.45	62.73	96.86	-1,179.17	2,841.64	1,993.64	1,883.87	109.77	18.163		
12,400.00	7,630.00	11,670.50	7,870.00	104.49	63.12	96.86	-1,279.17	2,841.31	1,993.64	1,881.88	111.76	17.839		
12,500.00	7,630.00	11,770.50	7,870.00	104.55	63.60	96.86	-1,379.17	2,840.97	1,993.64	1,879.82	113.82	17.516		
12,600.00	7,630.00	11,870.50	7,870.00	104.63	64.16	96.86	-1,479.17	2,840.63	1,993.64	1,877.68	115.96	17.193		
12,700.00	7,630.00	11,970.50	7,870.00	104.73	64.81	96.86	-1,579.17	2,840.29	1,993.64	1,875.48	118.16	16.873		
12,800.00	7,630.00	12,070.50	7,870.00	104.85	65.54	96.86	-1,679.17	2,839.95	1,993.64	1,873.22	120.42	16.556		
12,900.00	7,630.00	12,170.50	7,870.00	104.99	66.35	96.86	-1,779.17	2,839.62	1,993.64	1,870.90	122.74	16.243		
13,000.00	7,630.00	12,270.50	7,870.00	105.15	67.24	96.86	-1,879.17	2,839.28	1,993.64	1,868.53	125.12	15.934		
13,100.00	7,630.00	12,370.50	7,870.00	105.34	68.19	96.86	-1,979.17	2,838.94	1,993.64	1,866.10	127.54	15.631		
13,200.00	7,630.00	12,470.50	7,870.00	105.56	69.21	96.86	-2,079.17	2,838.60	1,993.64	1,863.62	130.02	15.333		
13,300.00	7,630.00	12,570.50	7,870.00	105.80	70.28	96.86	-2,179.17	2,838.26	1,993.64	1,861.10	132.55	15.041		
13,400.00	7,630.00	12,670.50	7,870.00	106.06	71.41	96.86	-2,279.17	2,837.93	1,993.65	1,858.53	135.12	14.755		
13,500.00	7,630.00	12,770.50	7,870.00	106.36	72.57	96.86	-2,379.17	2,837.59	1,993.65	1,855.92	137.73	14.475		
13,600.00	7,630.00	12,870.50	7,870.00	106.68	73.78	96.86	-2,479.17	2,837.25	1,993.65	1,853.27	140.38	14.202		
13,700.00	7,630.00	12,970.50	7,870.00	107.03	75.02	96.86	-2,579.17	2,836.91	1,993.65	1,850.58	143.06	13.935		
13,800.00	7,630.00	13,070.50	7,870.00	107.42	76.29	96.86	-2,679.17	2,836.58	1,993.65	1,847.86	145.79	13.675		
13,900.00	7,630.00	13,170.50	7,870.00	107.83	77.59	96.86	-2,779.16	2,836.24	1,993.65	1,845.11	148.54	13.421		
14,000.00	7,630.00	13,270.50	7,870.00	108.28	78.92	96.86	-2,879.16	2,835.90	1,993.65	1,842.32	151.33	13.174		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	13,370.50	7,870.00	108.77	80.26	96.86	-2,979.16	2,835.56	1,993.65	1,839.50	154.15	12.934		
14,200.00	7,630.00	13,470.50	7,870.00	109.29	81.63	96.86	-3,079.16	2,835.22	1,993.65	1,836.66	156.99	12.699		
14,300.00	7,630.00	13,570.50	7,870.00	109.84	83.02	96.86	-3,179.16	2,834.89	1,993.65	1,833.79	159.86	12.471		
14,400.00	7,630.00	13,670.50	7,870.00	110.43	84.42	96.86	-3,279.16	2,834.55	1,993.65	1,830.89	162.76	12.249		
14,500.00	7,630.00	13,770.50	7,870.00	111.06	85.85	96.86	-3,379.16	2,834.21	1,993.65	1,827.98	165.68	12.033		
14,600.00	7,630.00	13,870.50	7,870.00	111.72	87.28	96.86	-3,479.16	2,833.87	1,993.65	1,825.03	168.62	11.823		
14,700.00	7,630.00	13,970.50	7,870.00	112.42	88.73	96.86	-3,579.16	2,833.53	1,993.65	1,822.07	171.58	11.619		
14,800.00	7,630.00	14,070.50	7,870.00	113.16	90.19	96.86	-3,679.16	2,833.20	1,993.65	1,819.09	174.57	11.420		
14,900.00	7,630.00	14,170.50	7,870.00	113.94	91.67	96.86	-3,779.16	2,832.86	1,993.66	1,816.08	177.57	11.227		
15,000.00	7,630.00	14,270.50	7,870.00	114.75	93.15	96.86	-3,879.16	2,832.52	1,993.66	1,813.06	180.59	11.039		
15,100.00	7,630.00	14,370.50	7,870.00	115.60	94.65	96.86	-3,979.16	2,832.18	1,993.66	1,810.02	183.63	10.857		
15,200.00	7,630.00	14,470.50	7,870.00	116.48	96.15	96.86	-4,079.16	2,831.84	1,993.66	1,806.97	186.69	10.679		
15,300.00	7,630.00	14,570.50	7,870.00	117.40	97.67	96.86	-4,179.16	2,831.51	1,993.66	1,803.90	189.76	10.506		
15,400.00	7,630.00	14,670.50	7,870.00	118.35	99.19	96.86	-4,279.16	2,831.17	1,993.66	1,800.81	192.85	10.338		
15,500.00	7,630.00	14,770.50	7,870.00	119.34	100.72	96.86	-4,379.16	2,830.83	1,993.66	1,797.71	195.95	10.174		
15,600.00	7,630.00	14,870.50	7,870.00	120.35	102.26	96.86	-4,479.15	2,830.49	1,993.66	1,794.59	199.07	10.015		
15,700.00	7,630.00	14,970.50	7,870.00	121.40	103.80	96.86	-4,579.15	2,830.15	1,993.66	1,791.47	202.19	9.860		
15,800.00	7,630.00	15,070.50	7,870.00	122.48	105.36	96.86	-4,679.15	2,829.82	1,993.66	1,788.33	205.34	9.709		
15,900.00	7,630.00	15,170.50	7,870.00	123.58	106.92	96.86	-4,779.15	2,829.48	1,993.66	1,785.17	208.49	9.562		
16,000.00	7,630.00	15,270.50	7,870.00	124.71	108.48	96.86	-4,879.15	2,829.14	1,993.66	1,782.01	211.65	9.420		
16,100.00	7,630.00	15,370.50	7,870.00	125.87	110.06	96.86	-4,979.15	2,828.80	1,993.66	1,778.84	214.83	9.280		
16,200.00	7,630.00	15,470.50	7,870.00	127.05	111.63	96.86	-5,079.15	2,828.46	1,993.66	1,775.65	218.01	9.145		
16,300.00	7,630.00	15,570.50	7,870.00	128.26	113.22	96.86	-5,179.15	2,828.13	1,993.67	1,772.46	221.21	9.013		
16,400.00	7,630.00	15,670.50	7,870.00	129.48	114.81	96.86	-5,279.15	2,827.79	1,993.67	1,769.25	224.41	8.884		
16,500.00	7,630.00	15,770.50	7,870.00	130.73	116.40	96.86	-5,379.15	2,827.45	1,993.67	1,766.04	227.63	8.759		
16,600.00	7,630.00	15,870.50	7,870.00	132.00	118.00	96.86	-5,479.15	2,827.11	1,993.67	1,762.82	230.85	8.636		
16,700.00	7,630.00	15,970.50	7,870.00	133.29	119.60	96.86	-5,579.15	2,826.77	1,993.67	1,759.59	234.08	8.517		
16,800.00	7,630.00	16,070.50	7,870.00	134.59	121.21	96.86	-5,679.15	2,826.44	1,993.67	1,756.35	237.32	8.401		
16,900.00	7,630.00	16,170.50	7,870.00	135.91	122.82	96.86	-5,779.15	2,826.10	1,993.67	1,753.10	240.57	8.287		
17,000.00	7,630.00	16,270.50	7,870.00	137.25	124.44	96.86	-5,879.15	2,825.76	1,993.67	1,749.85	243.82	8.177		
17,100.00	7,630.00	16,370.50	7,870.00	138.61	126.06	96.86	-5,979.15	2,825.42	1,993.67	1,746.59	247.08	8.069		
17,200.00	7,630.00	16,470.50	7,870.00	139.97	127.68	96.86	-6,079.15	2,825.08	1,993.67	1,743.32	250.35	7.964		
17,300.00	7,630.00	16,570.50	7,870.00	141.36	129.31	96.86	-6,179.15	2,824.75	1,993.67	1,740.05	253.62	7.861		
17,400.00	7,630.00	16,670.50	7,870.00	142.75	130.94	96.86	-6,279.14	2,824.41	1,993.67	1,736.77	256.91	7.760		
17,500.00	7,630.00	16,770.50	7,870.00	144.16	132.57	96.86	-6,379.14	2,824.07	1,993.67	1,733.48	260.19	7.662		
17,600.00	7,630.00	16,870.50	7,870.00	145.58	134.21	96.86	-6,479.14	2,823.73	1,993.67	1,730.19	263.49	7.567		
17,700.00	7,630.00	16,970.50	7,870.00	147.01	135.85	96.86	-6,579.14	2,823.39	1,993.68	1,726.89	266.78	7.473		
17,800.00	7,630.00	17,070.50	7,870.00	148.45	137.49	96.86	-6,679.14	2,823.06	1,993.68	1,723.59	270.09	7.382		
17,900.00	7,630.00	17,170.50	7,870.00	149.91	139.13	96.86	-6,779.14	2,822.72	1,993.68	1,720.28	273.40	7.292		
18,000.00	7,630.00	17,270.50	7,870.00	151.37	140.78	96.86	-6,879.14	2,822.38	1,993.68	1,716.97	276.71	7.205		
18,100.00	7,630.00	17,370.50	7,870.00	152.84	142.43	96.86	-6,979.14	2,822.04	1,993.68	1,713.65	280.03	7.119		
18,200.00	7,630.00	17,470.50	7,870.00	154.32	144.09	96.86	-7,079.14	2,821.70	1,993.68	1,710.32	283.35	7.036		
18,300.00	7,630.00	17,570.50	7,870.00	155.81	145.75	96.86	-7,179.14	2,821.37	1,993.68	1,707.00	286.68	6.954		
18,400.00	7,630.00	17,670.50	7,870.00	157.31	147.40	96.86	-7,279.14	2,821.03	1,993.68	1,703.66	290.02	6.874		
18,500.00	7,630.00	17,770.50	7,870.00	158.81	149.06	96.86	-7,379.14	2,820.69	1,993.68	1,700.33	293.35	6.796		
18,600.00	7,630.00	17,870.50	7,870.00	160.32	150.73	96.86	-7,479.14	2,820.35	1,993.68	1,696.99	296.69	6.720		
18,700.00	7,630.00	17,970.50	7,870.00	161.84	152.39	96.86	-7,579.14	2,820.01	1,993.68	1,693.64	300.04	6.645		
18,800.00	7,630.00	18,070.50	7,870.00	163.37	154.06	96.86	-7,679.14	2,819.68	1,993.68	1,690.29	303.39	6.571		
18,900.00	7,630.00	18,170.50	7,870.00	164.90	155.73	96.86	-7,779.14	2,819.34	1,993.68	1,686.94	306.74	6.500		
19,000.00	7,630.00	18,270.50	7,870.00	166.43	157.40	96.86	-7,879.14	2,819.00	1,993.68	1,683.59	310.10	6.429		
19,100.00	7,630.00	18,370.50	7,870.00	167.98	159.08	96.86	-7,979.14	2,818.66	1,993.68	1,680.23	313.46	6.360		
19,200.00	7,630.00	18,470.50	7,870.00	169.53	160.75	96.86	-8,079.13	2,818.33	1,993.69	1,676.86	316.82	6.293		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	18,570.50	7,870.00	171.08	162.43	96.86	-8,179.13	2,817.99	1,993.69	1,673.50	320.19	6.227	
19,400.00	7,630.00	18,670.50	7,870.00	172.64	164.11	96.86	-8,279.13	2,817.65	1,993.69	1,670.13	323.56	6.162	
19,500.00	7,630.00	18,770.50	7,870.00	174.21	165.79	96.86	-8,379.13	2,817.31	1,993.69	1,666.76	326.93	6.098	
19,518.56	7,630.00	18,789.07	7,870.00	174.50	166.10	96.86	-8,397.70	2,817.25	1,993.69	1,666.13	327.56	6.087 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.58	0.36	-50.12	50.12					
100.00	100.00	102.00	102.00	0.13	0.14	-89.58	0.36	-50.12	50.12	49.85	0.28	181.585		
200.00	200.00	202.00	202.00	0.49	0.50	-89.58	0.36	-50.12	50.12	49.13	0.99	50.477		
300.00	300.00	302.00	302.00	0.85	0.86	-89.58	0.36	-50.12	50.12	48.41	1.71	29.313		
400.00	400.00	402.00	402.00	1.21	1.22	-89.58	0.36	-50.12	50.12	47.69	2.43	20.653 CC, ES		
500.00	499.98	501.98	501.98	1.56	1.58	-157.07	0.36	-50.12	51.72	48.59	3.14	16.476		
600.00	599.84	601.84	601.84	1.92	1.93	-159.10	0.36	-50.12	56.58	52.73	3.85	14.687		
700.00	699.45	701.45	701.45	2.29	2.29	-161.80	0.36	-50.12	64.80	60.23	4.57	14.183		
800.00	798.70	800.70	800.70	2.67	2.65	-164.59	0.36	-50.12	76.48	71.19	5.29	14.465		
900.00	897.47	899.47	899.47	3.07	3.00	-167.12	0.36	-50.12	91.66	85.65	6.01	15.260		
1,000.00	995.62	1,001.25	1,001.23	3.50	3.36	-169.00	1.33	-48.62	108.73	102.00	6.73	16.155		
1,100.00	1,093.06	1,103.67	1,103.50	3.96	3.72	-170.10	4.29	-44.04	125.97	118.51	7.45	16.898		
1,200.00	1,189.64	1,206.74	1,206.15	4.46	4.10	-170.68	9.25	-36.33	143.28	135.09	8.18	17.507		
1,300.00	1,285.27	1,310.43	1,309.03	5.00	4.48	-170.91	16.27	-25.45	160.62	151.70	8.92	18.010		
1,400.00	1,379.82	1,414.77	1,412.00	5.60	4.88	-170.88	25.36	-11.35	177.97	168.31	9.66	18.416		
1,500.00	1,473.17	1,519.74	1,514.92	6.25	5.31	-170.67	36.55	6.00	195.30	184.88	10.42	18.751		
1,600.00	1,565.21	1,625.36	1,617.63	6.95	5.77	-170.30	49.86	26.65	212.59	201.41	11.18	19.010		
1,700.00	1,655.84	1,731.61	1,719.98	7.72	6.27	-169.83	65.31	50.62	229.83	217.86	11.97	19.204		
1,800.00	1,744.94	1,838.49	1,821.79	8.55	6.82	-169.25	82.92	77.93	247.01	234.24	12.77	19.336		
1,900.00	1,832.39	1,946.01	1,922.92	9.45	7.42	-168.60	102.69	108.60	264.11	250.51	13.61	19.408		
2,000.00	1,918.11	2,054.15	2,023.19	10.41	8.08	-167.89	124.64	142.65	281.13	266.66	14.48	19.421		
2,100.00	2,001.97	2,162.92	2,122.41	11.45	8.81	-167.12	148.77	180.08	298.06	282.68	15.38	19.375		
2,200.00	2,083.88	2,272.31	2,220.42	12.56	9.61	-166.29	175.08	220.89	314.88	298.54	16.34	19.269		
2,300.00	2,163.74	2,382.30	2,317.04	13.74	10.50	-165.43	203.56	265.06	331.60	314.24	17.36	19.105		
2,400.00	2,241.45	2,492.89	2,412.08	14.99	11.46	-164.53	234.20	312.59	348.20	329.76	18.44	18.883		
2,421.22	2,257.65	2,516.44	2,432.02	15.26	11.68	-164.33	240.98	323.10	351.70	333.02	18.68	18.827		
2,500.00	2,317.63	2,601.02	2,501.28	16.29	12.48	-163.67	265.31	360.85	363.93	344.30	19.64	18.534		
2,600.00	2,393.75	2,702.31	2,583.90	17.62	13.47	-162.92	294.58	406.25	379.19	358.27	20.92	18.125		
2,700.00	2,469.88	2,796.40	2,666.52	18.95	14.41	-162.22	323.85	451.65	394.50	372.30	22.20	17.767		
2,800.00	2,546.01	2,904.88	2,749.14	20.30	15.51	-161.58	353.12	497.05	409.87	386.27	23.61	17.363		
2,900.00	2,622.13	3,006.17	2,831.75	21.65	16.54	-160.98	382.39	542.45	425.29	400.29	25.00	17.012		
3,000.00	2,698.26	3,107.46	2,914.37	23.01	17.59	-160.43	411.66	587.86	440.74	414.32	26.42	16.682		
3,100.00	2,774.38	3,208.75	2,996.99	24.37	18.65	-159.91	440.93	633.26	456.24	428.37	27.87	16.373		
3,200.00	2,850.51	3,289.96	3,079.61	25.74	19.50	-159.43	470.20	678.66	471.77	442.56	29.21	16.153		
3,300.00	2,926.64	3,388.67	3,162.23	27.11	20.55	-158.97	499.47	724.06	487.33	456.65	30.68	15.886		
3,400.00	3,002.76	3,487.38	3,244.85	28.49	21.59	-158.55	528.74	769.46	502.91	470.75	32.17	15.635		
3,500.00	3,078.89	3,586.09	3,327.47	29.87	22.65	-158.15	558.01	814.87	518.53	484.85	33.67	15.399		
3,600.00	3,155.02	3,684.80	3,410.08	31.25	23.70	-157.78	587.28	860.27	534.16	498.97	35.19	15.178		
3,700.00	3,231.14	3,783.52	3,492.70	32.63	24.76	-157.42	616.55	905.67	549.82	513.09	36.73	14.970		
3,800.00	3,307.27	3,882.23	3,575.32	34.01	25.83	-157.09	645.82	951.07	565.50	527.22	38.28	14.774		
3,900.00	3,383.39	3,980.94	3,657.94	35.40	26.89	-156.77	675.09	996.47	581.19	541.35	39.83	14.590		
4,000.00	3,459.52	4,079.65	3,740.56	36.79	27.96	-156.47	704.36	1,041.88	596.90	555.50	41.40	14.416		
4,100.00	3,535.65	4,178.36	3,823.18	38.18	29.03	-156.19	733.63	1,087.28	612.63	569.64	42.98	14.253		
4,200.00	3,611.77	4,277.07	3,905.80	39.57	30.10	-155.91	762.90	1,132.68	628.36	583.79	44.57	14.098		
4,300.00	3,687.90	4,375.78	3,988.41	40.96	31.17	-155.66	792.17	1,178.08	644.12	597.95	46.17	13.952		
4,400.00	3,764.02	4,474.49	4,071.03	42.35	32.25	-155.41	821.44	1,223.48	659.88	612.11	47.77	13.814		
4,500.00	3,840.15	4,573.21	4,153.65	43.74	33.32	-155.18	850.71	1,268.88	675.66	626.28	49.38	13.683		
4,600.00	3,916.28	4,671.92	4,236.27	45.13	34.40	-154.96	879.98	1,314.29	691.44	640.45	51.00	13.559		
4,700.00	3,992.40	4,770.63	4,318.89	46.53	35.48	-154.74	909.25	1,359.69	707.24	654.62	52.62	13.441		
4,800.00	4,068.53	4,869.34	4,401.51	47.92	36.56	-154.54	938.52	1,405.09	723.05	668.80	54.25	13.329		
4,900.00	4,144.66	4,968.05	4,484.13	49.32	37.64	-154.34	967.79	1,450.49	738.86	682.98	55.88	13.223		
5,000.00	4,220.78	5,066.76	4,566.74	50.71	38.72	-154.16	997.06	1,495.89	754.68	697.17	57.52	13.121		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,165.47	4,649.36	52.11	39.80	-153.98	1,026.33	1,541.30	770.51	711.35	59.16	13.025		
5,200.00	4,373.03	5,264.18	4,731.98	53.51	40.88	-153.81	1,055.60	1,586.70	786.35	725.54	60.80	12.933		
5,300.00	4,449.16	5,362.89	4,814.60	54.90	41.97	-153.64	1,084.87	1,632.10	802.19	739.74	62.45	12.845		
5,400.00	4,525.29	5,461.61	4,897.22	56.30	43.05	-153.48	1,114.14	1,677.50	818.04	753.93	64.11	12.760		
5,500.00	4,601.41	5,560.32	4,979.84	57.70	44.13	-153.33	1,143.41	1,722.90	833.89	768.13	65.76	12.680		
5,600.00	4,677.54	5,659.03	5,062.46	59.10	45.22	-153.18	1,172.68	1,768.30	849.75	782.33	67.42	12.603		
5,700.00	4,753.66	5,757.74	5,145.07	60.49	46.30	-153.04	1,201.95	1,813.71	865.62	796.53	69.09	12.529		
5,800.00	4,829.79	5,856.45	5,227.69	61.89	47.39	-152.91	1,231.22	1,859.11	881.49	810.74	70.75	12.459		
5,900.00	4,905.92	5,955.16	5,310.31	63.29	48.48	-152.77	1,260.49	1,904.51	897.37	824.94	72.42	12.391		
6,000.00	4,982.04	6,053.87	5,392.93	64.69	49.56	-152.65	1,289.76	1,949.91	913.25	839.15	74.09	12.326		
6,100.00	5,058.17	6,152.58	5,475.55	66.09	50.65	-152.52	1,319.03	1,995.31	929.13	853.36	75.77	12.263		
6,200.00	5,134.30	6,251.30	5,558.17	67.49	51.74	-152.41	1,348.30	2,040.72	945.02	867.58	77.44	12.203		
6,300.00	5,210.42	6,350.01	5,640.79	68.89	52.83	-152.29	1,377.57	2,086.12	960.91	881.79	79.12	12.145		
6,400.00	5,286.55	6,448.72	5,723.40	70.29	53.91	-152.18	1,406.84	2,131.52	976.81	896.01	80.80	12.089		
6,500.00	5,362.67	6,547.43	5,806.02	71.69	55.00	-152.07	1,436.11	2,176.92	992.71	910.22	82.48	12.035		
6,600.00	5,438.80	6,646.14	5,888.64	73.09	56.09	-151.97	1,465.38	2,222.32	1,008.61	924.44	84.17	11.983		
6,700.00	5,514.93	6,744.85	5,971.26	74.49	57.18	-151.87	1,494.65	2,267.73	1,024.51	938.66	85.85	11.933		
6,800.00	5,591.05	6,843.56	6,053.88	75.89	58.27	-151.77	1,523.92	2,313.13	1,040.42	952.88	87.54	11.885		
6,900.00	5,667.18	6,942.27	6,136.50	77.29	59.36	-151.68	1,553.19	2,358.53	1,056.33	967.11	89.23	11.839		
7,000.00	5,743.30	7,040.98	6,219.12	78.69	60.45	-151.58	1,582.46	2,403.93	1,072.25	981.33	90.92	11.793		
7,100.00	5,819.43	7,139.70	6,301.73	80.09	61.54	-151.49	1,611.73	2,449.33	1,088.16	995.55	92.61	11.750		
7,200.00	5,895.56	7,238.41	6,384.35	81.49	62.63	-151.41	1,641.00	2,494.73	1,104.08	1,009.78	94.30	11.708		
7,300.00	5,971.68	7,337.12	6,466.97	82.90	63.72	-151.32	1,670.27	2,540.14	1,120.01	1,024.01	96.00	11.667		
7,400.00	6,047.81	7,435.83	6,549.59	84.30	64.81	-151.24	1,699.54	2,585.54	1,135.93	1,038.24	97.69	11.628		
7,500.00	6,123.94	7,534.54	6,632.21	85.70	65.90	-151.16	1,728.81	2,630.94	1,151.86	1,052.47	99.39	11.589		
7,600.00	6,200.06	7,633.25	6,714.83	87.10	66.99	-151.08	1,758.08	2,676.34	1,167.78	1,066.70	101.09	11.552		
7,700.00	6,276.19	7,731.96	6,797.45	88.50	68.08	-151.01	1,787.35	2,721.74	1,183.71	1,080.93	102.79	11.516		
7,800.00	6,352.31	7,830.67	6,880.06	89.90	69.17	-150.94	1,816.62	2,767.15	1,199.65	1,095.16	104.49	11.481		
7,900.00	6,428.44	7,929.39	6,962.68	91.31	70.26	-150.86	1,845.89	2,812.55	1,215.58	1,109.39	106.19	11.448		
8,000.00	6,504.57	8,068.94	7,082.61	92.71	71.68	-151.51	1,871.61	2,878.39	1,229.92	1,122.85	107.07	11.488		
8,100.00	6,580.69	8,197.63	7,195.09	94.11	72.72	-153.44	1,865.42	2,940.05	1,241.57	1,136.10	105.47	11.772		
8,200.00	6,656.82	8,304.91	7,286.04	95.51	73.33	-155.93	1,838.49	2,989.83	1,252.59	1,149.93	102.65	12.202		
8,300.00	6,732.95	8,390.08	7,354.15	96.91	73.64	-158.42	1,803.64	3,027.06	1,265.24	1,165.53	99.71	12.689		
8,400.00	6,809.07	8,456.59	7,403.76	98.32	73.79	-160.63	1,768.65	3,054.14	1,281.33	1,184.26	97.08	13.199		
8,500.00	6,885.20	8,508.66	7,439.92	99.72	73.85	-162.50	1,736.82	3,073.86	1,302.03	1,207.25	94.78	13.738		
8,600.00	6,961.32	8,550.00	7,466.74	101.12	73.87	-164.06	1,708.96	3,088.47	1,327.97	1,235.26	92.71	14.325		
8,700.00	7,037.45	8,583.06	7,486.87	102.52	73.85	-165.34	1,685.15	3,099.43	1,359.41	1,268.64	90.77	14.977		
8,732.15	7,061.92	8,592.35	7,492.31	102.97	73.85	-165.71	1,678.23	3,102.39	1,370.69	1,280.53	90.16	15.203		
8,750.00	7,075.57	8,600.00	7,496.72	103.22	73.85	-168.72	1,672.45	3,104.79	1,377.18	1,287.45	89.73	15.348		
8,800.00	7,114.27	8,612.27	7,503.64	103.91	73.83	-177.15	1,663.04	3,108.55	1,395.98	1,307.03	88.95	15.694		
8,850.00	7,153.47	8,628.02	7,512.26	104.58	73.81	173.93	1,650.73	3,113.24	1,415.50	1,327.34	88.15	16.057		
8,900.00	7,192.85	8,650.00	7,523.80	105.21	73.79	164.67	1,633.10	3,119.50	1,435.51	1,348.25	87.25	16.452		
8,950.00	7,232.12	8,661.64	7,529.66	105.80	73.77	155.85	1,623.56	3,122.69	1,455.69	1,368.89	86.80	16.770		
9,000.00	7,270.99	8,679.33	7,538.25	106.35	73.73	147.18	1,608.81	3,127.34	1,475.88	1,389.64	86.24	17.113		
9,050.00	7,309.16	8,700.00	7,547.77	106.85	73.70	138.96	1,591.21	3,132.51	1,495.83	1,410.15	85.68	17.458		
9,100.00	7,346.32	8,716.06	7,554.78	107.30	73.66	131.49	1,577.26	3,136.30	1,515.31	1,429.94	85.37	17.750		
9,150.00	7,382.22	8,734.99	7,562.60	107.69	73.61	124.67	1,560.55	3,140.53	1,534.15	1,449.09	85.07	18.035		
9,200.00	7,416.56	8,750.00	7,568.45	108.02	73.58	118.64	1,547.10	3,143.70	1,552.18	1,467.17	85.01	18.259		
9,250.00	7,449.09	8,773.74	7,577.08	108.29	73.50	113.17	1,525.48	3,148.35	1,569.19	1,484.45	84.74	18.518		
9,300.00	7,479.56	8,800.00	7,585.69	108.51	73.43	108.35	1,501.11	3,152.99	1,585.11	1,500.64	84.47	18.765		
9,350.00	7,507.74	8,813.43	7,589.72	108.68	73.38	104.34	1,488.48	3,155.16	1,599.70	1,514.86	84.84	18.856		
9,400.00	7,533.41	8,833.55	7,595.26	108.79	73.31	100.83	1,469.37	3,158.13	1,612.94	1,527.87	85.06	18.962		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,850.00	7,599.35	108.86	73.26	97.89	1,453.59	3,160.32	1,624.69	1,539.10	85.58	18.984		
9,500.00	7,576.48	8,874.21	7,604.65	108.88	73.17	95.38	1,430.14	3,163.15	1,634.83	1,548.96	85.88	19.037		
9,550.00	7,593.55	8,900.00	7,609.33	108.86	73.07	93.35	1,404.90	3,165.63	1,643.36	1,557.15	86.21	19.063		
9,600.00	7,607.46	8,915.27	7,611.63	108.80	73.01	91.81	1,389.86	3,166.84	1,650.12	1,562.92	87.20	18.923		
9,650.00	7,618.11	8,935.90	7,614.18	108.71	72.92	90.66	1,369.43	3,168.17	1,655.14	1,567.09	88.05	18.797		
9,700.00	7,625.41	8,950.00	7,615.55	108.59	72.87	89.91	1,355.42	3,168.87	1,658.39	1,569.00	89.39	18.552		
9,750.00	7,629.30	8,977.26	7,617.34	108.45	72.75	89.54	1,328.23	3,169.76	1,659.75	1,569.65	90.10	18.420		
9,781.81	7,630.00	9,000.00	7,617.97	108.35	72.65	89.52	1,305.50	3,170.03	1,659.75	1,569.48	90.28	18.385		
9,800.00	7,630.00	9,000.00	7,617.97	108.29	72.65	89.52	1,305.50	3,170.03	1,659.50	1,568.34	91.16	18.205		
9,815.21	7,630.00	9,012.24	7,618.00	108.24	72.60	89.52	1,304.54	3,170.04	1,659.42	1,567.63	91.78	18.079		
9,900.00	7,630.00	9,085.75	7,618.00	107.97	72.28	89.52	1,219.75	3,169.76	1,659.42	1,568.51	90.91	18.254		
10,000.00	7,630.00	9,185.75	7,618.00	107.67	71.86	89.52	1,119.75	3,169.42	1,659.42	1,569.51	89.92	18.455		
10,100.00	7,630.00	9,285.75	7,618.00	107.38	71.46	89.52	1,019.76	3,169.08	1,659.43	1,570.37	89.05	18.634		
10,200.00	7,630.00	9,385.75	7,618.00	107.10	71.09	89.52	919.76	3,168.74	1,659.43	1,571.10	88.33	18.788		
10,300.00	7,630.00	9,485.75	7,618.00	106.84	70.73	89.52	819.76	3,168.40	1,659.43	1,571.70	87.73	18.914		
10,400.00	7,630.00	9,585.75	7,618.00	106.59	70.40	89.52	719.76	3,168.06	1,659.43	1,572.15	87.28	19.012		
10,500.00	7,630.00	9,685.75	7,618.00	106.35	70.08	89.52	619.76	3,167.72	1,659.43	1,572.46	86.97	19.080		
10,600.00	7,630.00	9,785.75	7,618.00	106.13	69.79	89.52	519.76	3,167.38	1,659.44	1,572.63	86.80	19.117		
10,700.00	7,630.00	9,885.75	7,618.00	105.92	69.51	89.52	419.76	3,167.04	1,659.44	1,572.66	86.78	19.122		
10,800.00	7,630.00	9,985.75	7,618.00	105.72	69.26	89.52	319.76	3,166.70	1,659.44	1,572.54	86.90	19.095		
10,900.00	7,630.00	10,085.75	7,618.00	105.54	69.02	89.52	219.76	3,166.36	1,659.44	1,572.27	87.17	19.037		
11,000.00	7,630.00	10,185.75	7,618.00	105.37	68.81	89.52	119.76	3,166.02	1,659.44	1,571.87	87.58	18.948		
11,100.00	7,630.00	10,285.75	7,618.00	105.21	68.61	89.52	19.76	3,165.68	1,659.45	1,571.32	88.13	18.830		
11,200.00	7,630.00	10,385.75	7,618.00	105.06	68.44	89.52	-80.24	3,165.34	1,659.45	1,570.64	88.81	18.685		
11,300.00	7,630.00	10,485.75	7,618.00	104.93	68.29	89.52	-180.24	3,165.00	1,659.45	1,569.82	89.63	18.514		
11,400.00	7,630.00	10,585.75	7,618.00	104.82	68.17	89.52	-280.24	3,164.67	1,659.45	1,568.87	90.58	18.320		
11,500.00	7,630.00	10,685.75	7,618.00	104.72	68.07	89.52	-380.24	3,164.33	1,659.45	1,567.79	91.66	18.104		
11,600.00	7,630.00	10,785.75	7,618.00	104.63	68.00	89.52	-480.24	3,163.99	1,659.46	1,566.60	92.86	17.870		
11,700.00	7,630.00	10,885.75	7,618.00	104.55	67.96	89.52	-580.24	3,163.65	1,659.46	1,565.28	94.18	17.621		
11,800.00	7,630.00	10,985.75	7,618.00	104.50	67.95	89.52	-680.23	3,163.31	1,659.46	1,563.85	95.61	17.357		
11,900.00	7,630.00	11,085.75	7,618.00	104.45	67.97	89.52	-780.23	3,162.97	1,659.46	1,562.32	97.15	17.082		
12,000.00	7,630.00	11,185.75	7,618.00	104.43	68.03	89.52	-880.23	3,162.63	1,659.46	1,560.68	98.78	16.799		
12,100.00	7,630.00	11,285.75	7,618.00	104.42	68.13	89.52	-980.23	3,162.29	1,659.47	1,558.94	100.52	16.508		
12,200.00	7,630.00	11,385.75	7,618.00	104.42	68.27	89.52	-1,080.23	3,161.95	1,659.47	1,557.12	102.35	16.213		
12,300.00	7,630.00	11,485.75	7,618.00	104.45	68.46	89.52	-1,180.23	3,161.61	1,659.47	1,555.20	104.27	15.915		
12,400.00	7,630.00	11,585.75	7,618.00	104.49	68.71	89.52	-1,280.23	3,161.27	1,659.47	1,553.20	106.27	15.616		
12,500.00	7,630.00	11,685.75	7,618.00	104.55	69.01	89.52	-1,380.23	3,160.93	1,659.48	1,551.13	108.35	15.316		
12,600.00	7,630.00	11,785.75	7,618.00	104.63	69.38	89.52	-1,480.23	3,160.59	1,659.48	1,548.98	110.50	15.018		
12,700.00	7,630.00	11,885.75	7,618.00	104.73	69.81	89.52	-1,580.23	3,160.25	1,659.48	1,546.76	112.72	14.722		
12,800.00	7,630.00	11,985.75	7,618.00	104.85	70.31	89.52	-1,680.23	3,159.91	1,659.48	1,544.47	115.01	14.429		
12,900.00	7,630.00	12,085.75	7,618.00	104.99	70.88	89.52	-1,780.23	3,159.57	1,659.48	1,542.13	117.36	14.140		
13,000.00	7,630.00	12,185.75	7,618.00	105.15	71.53	89.52	-1,880.23	3,159.24	1,659.49	1,539.72	119.77	13.856		
13,100.00	7,630.00	12,285.75	7,618.00	105.34	72.24	89.52	-1,980.23	3,158.90	1,659.49	1,537.26	122.23	13.577		
13,200.00	7,630.00	12,385.75	7,618.00	105.56	73.03	89.52	-2,080.23	3,158.56	1,659.49	1,534.75	124.74	13.304		
13,300.00	7,630.00	12,485.75	7,618.00	105.80	73.88	89.52	-2,180.23	3,158.22	1,659.49	1,532.19	127.30	13.036		
13,400.00	7,630.00	12,585.75	7,618.00	106.06	74.80	89.52	-2,280.23	3,157.88	1,659.49	1,529.58	129.91	12.774		
13,500.00	7,630.00	12,685.75	7,618.00	106.36	75.77	89.52	-2,380.23	3,157.54	1,659.50	1,526.94	132.56	12.519		
13,600.00	7,630.00	12,785.75	7,618.00	106.68	76.80	89.52	-2,480.22	3,157.20	1,659.50	1,524.25	135.25	12.270		
13,700.00	7,630.00	12,885.75	7,618.00	107.03	77.88	89.52	-2,580.22	3,156.86	1,659.50	1,521.52	137.98	12.027		
13,800.00	7,630.00	12,985.75	7,618.00	107.42	79.00	89.52	-2,680.22	3,156.52	1,659.50	1,518.76	140.74	11.791		
13,900.00	7,630.00	13,085.75	7,618.00	107.83	80.17	89.52	-2,780.22	3,156.18	1,659.50	1,515.96	143.54	11.561		
14,000.00	7,630.00	13,185.75	7,618.00	108.28	81.37	89.52	-2,880.22	3,155.84	1,659.51	1,513.14	146.37	11.338		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	13,285.75	7,618.00	108.77	82.60	89.52	-2,980.22	3,155.50	1,659.51	1,510.28	149.23	11.120		
14,200.00	7,630.00	13,385.75	7,618.00	109.29	83.87	89.52	-3,080.22	3,155.16	1,659.51	1,507.39	152.12	10.909		
14,300.00	7,630.00	13,485.75	7,618.00	109.84	85.16	89.52	-3,180.22	3,154.82	1,659.51	1,504.48	155.03	10.704		
14,400.00	7,630.00	13,585.75	7,618.00	110.43	86.48	89.52	-3,280.22	3,154.48	1,659.51	1,501.54	157.97	10.505		
14,500.00	7,630.00	13,685.75	7,618.00	111.06	87.82	89.52	-3,380.22	3,154.15	1,659.52	1,498.58	160.94	10.312		
14,600.00	7,630.00	13,785.75	7,618.00	111.72	89.19	89.52	-3,480.22	3,153.81	1,659.52	1,495.60	163.92	10.124		
14,700.00	7,630.00	13,885.75	7,618.00	112.42	90.57	89.52	-3,580.22	3,153.47	1,659.52	1,492.59	166.93	9.941		
14,800.00	7,630.00	13,985.75	7,618.00	113.16	91.97	89.52	-3,680.22	3,153.13	1,659.52	1,489.56	169.96	9.764		
14,900.00	7,630.00	14,085.75	7,618.00	113.94	93.39	89.52	-3,780.22	3,152.79	1,659.53	1,486.52	173.01	9.592		
15,000.00	7,630.00	14,185.75	7,618.00	114.75	94.82	89.52	-3,880.22	3,152.45	1,659.53	1,483.46	176.07	9.425		
15,100.00	7,630.00	14,285.75	7,618.00	115.60	96.27	89.52	-3,980.22	3,152.11	1,659.53	1,480.38	179.15	9.263		
15,200.00	7,630.00	14,385.75	7,618.00	116.48	97.72	89.52	-4,080.22	3,151.77	1,659.53	1,477.28	182.25	9.106		
15,300.00	7,630.00	14,485.75	7,618.00	117.40	99.19	89.52	-4,180.21	3,151.43	1,659.53	1,474.17	185.37	8.953		
15,400.00	7,630.00	14,585.75	7,618.00	118.35	100.68	89.52	-4,280.21	3,151.09	1,659.54	1,471.04	188.50	8.804		
15,500.00	7,630.00	14,685.75	7,618.00	119.34	102.17	89.52	-4,380.21	3,150.75	1,659.54	1,467.90	191.64	8.660		
15,600.00	7,630.00	14,785.75	7,618.00	120.35	103.67	89.52	-4,480.21	3,150.41	1,659.54	1,464.74	194.80	8.519		
15,700.00	7,630.00	14,885.75	7,618.00	121.40	105.18	89.52	-4,580.21	3,150.07	1,659.54	1,461.57	197.97	8.383		
15,800.00	7,630.00	14,985.75	7,618.00	122.48	106.71	89.52	-4,680.21	3,149.73	1,659.54	1,458.40	201.15	8.250		
15,900.00	7,630.00	15,085.75	7,618.00	123.58	108.23	89.52	-4,780.21	3,149.39	1,659.55	1,455.20	204.34	8.121		
16,000.00	7,630.00	15,185.75	7,618.00	124.71	109.77	89.52	-4,880.21	3,149.06	1,659.55	1,452.00	207.55	7.996		
16,100.00	7,630.00	15,285.75	7,618.00	125.87	111.32	89.52	-4,980.21	3,148.72	1,659.55	1,448.79	210.76	7.874		
16,200.00	7,630.00	15,385.75	7,618.00	127.05	112.87	89.52	-5,080.21	3,148.38	1,659.55	1,445.57	213.99	7.755		
16,300.00	7,630.00	15,485.75	7,618.00	128.26	114.42	89.52	-5,180.21	3,148.04	1,659.55	1,442.33	217.22	7.640		
16,400.00	7,630.00	15,585.75	7,618.00	129.48	115.99	89.52	-5,280.21	3,147.70	1,659.56	1,439.09	220.46	7.528		
16,500.00	7,630.00	15,685.75	7,618.00	130.73	117.56	89.52	-5,380.21	3,147.36	1,659.56	1,435.84	223.72	7.418		
16,600.00	7,630.00	15,785.75	7,618.00	132.00	119.13	89.52	-5,480.21	3,147.02	1,659.56	1,432.58	226.98	7.312		
16,700.00	7,630.00	15,885.75	7,618.00	133.29	120.72	89.52	-5,580.21	3,146.68	1,659.56	1,429.32	230.25	7.208		
16,800.00	7,630.00	15,985.75	7,618.00	134.59	122.30	89.52	-5,680.21	3,146.34	1,659.57	1,426.04	233.52	7.107		
16,900.00	7,630.00	16,085.75	7,618.00	135.91	123.89	89.52	-5,780.21	3,146.00	1,659.57	1,422.76	236.81	7.008		
17,000.00	7,630.00	16,185.75	7,618.00	137.25	125.49	89.52	-5,880.21	3,145.66	1,659.57	1,419.47	240.10	6.912		
17,100.00	7,630.00	16,285.75	7,618.00	138.61	127.09	89.52	-5,980.20	3,145.32	1,659.57	1,416.17	243.40	6.818		
17,200.00	7,630.00	16,385.75	7,618.00	139.97	128.70	89.52	-6,080.20	3,144.98	1,659.57	1,412.87	246.70	6.727		
17,300.00	7,630.00	16,485.75	7,618.00	141.36	130.31	89.52	-6,180.20	3,144.64	1,659.58	1,409.56	250.01	6.638		
17,400.00	7,630.00	16,585.75	7,618.00	142.75	131.92	89.52	-6,280.20	3,144.30	1,659.58	1,406.25	253.33	6.551		
17,500.00	7,630.00	16,685.75	7,618.00	144.16	133.54	89.52	-6,380.20	3,143.96	1,659.58	1,402.93	256.65	6.466		
17,600.00	7,630.00	16,785.75	7,618.00	145.58	135.16	89.52	-6,480.20	3,143.63	1,659.58	1,399.60	259.98	6.383		
17,700.00	7,630.00	16,885.75	7,618.00	147.01	136.78	89.52	-6,580.20	3,143.29	1,659.58	1,396.27	263.31	6.303		
17,800.00	7,630.00	16,985.75	7,618.00	148.45	138.41	89.52	-6,680.20	3,142.95	1,659.59	1,392.93	266.65	6.224		
17,900.00	7,630.00	17,085.75	7,618.00	149.91	140.04	89.52	-6,780.20	3,142.61	1,659.59	1,389.59	270.00	6.147		
18,000.00	7,630.00	17,185.75	7,618.00	151.37	141.68	89.52	-6,880.20	3,142.27	1,659.59	1,386.24	273.35	6.071		
18,100.00	7,630.00	17,285.75	7,618.00	152.84	143.31	89.52	-6,980.20	3,141.93	1,659.59	1,382.89	276.70	5.998		
18,200.00	7,630.00	17,385.75	7,618.00	154.32	144.95	89.52	-7,080.20	3,141.59	1,659.59	1,379.54	280.06	5.926		
18,300.00	7,630.00	17,485.75	7,618.00	155.81	146.60	89.52	-7,180.20	3,141.25	1,659.60	1,376.18	283.42	5.856		
18,400.00	7,630.00	17,585.75	7,618.00	157.31	148.24	89.52	-7,280.20	3,140.91	1,659.60	1,372.81	286.79	5.787		
18,500.00	7,630.00	17,685.75	7,618.00	158.81	149.89	89.52	-7,380.20	3,140.57	1,659.60	1,369.45	290.16	5.720		
18,600.00	7,630.00	17,785.75	7,618.00	160.32	151.54	89.52	-7,480.20	3,140.23	1,659.60	1,366.07	293.53	5.654		
18,700.00	7,630.00	17,885.75	7,618.00	161.84	153.20	89.52	-7,580.20	3,139.89	1,659.60	1,362.70	296.91	5.590		
18,800.00	7,630.00	17,985.75	7,618.00	163.37	154.85	89.52	-7,680.19	3,139.55	1,659.61	1,359.32	300.29	5.527		
18,900.00	7,630.00	18,085.75	7,618.00	164.90	156.51	89.52	-7,780.19	3,139.21	1,659.61	1,355.94	303.67	5.465		
19,000.00	7,630.00	18,185.75	7,618.00	166.43	158.17	89.52	-7,880.19	3,138.87	1,659.61	1,352.55	307.06	5.405		
19,100.00	7,630.00	18,285.75	7,618.00	167.98	159.84	89.52	-7,980.19	3,138.54	1,659.61	1,349.16	310.45	5.346		
19,200.00	7,630.00	18,385.75	7,618.00	169.53	161.50	89.52	-8,080.19	3,138.20	1,659.62	1,345.77	313.85	5.288		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	18,485.75	7,618.00	171.08	163.17	89.52	-8,180.19	3,137.86	1,659.62	1,342.37	317.24	5.231	
19,400.00	7,630.00	18,585.75	7,618.00	172.64	164.84	89.52	-8,280.19	3,137.52	1,659.62	1,338.97	320.65	5.176	
19,500.00	7,630.00	18,685.75	7,618.00	174.21	166.51	89.52	-8,380.19	3,137.18	1,659.62	1,335.57	324.05	5.122	
19,518.56	7,630.00	18,704.31	7,618.00	174.50	166.82	89.52	-8,398.75	3,137.11	1,659.62	1,334.94	324.68	5.112 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	0.00	0.00	-89.48	0.36	-40.04	40.04				
100.00	100.00	101.00	101.00	0.13	0.14	-89.48	0.36	-40.04	40.04	39.77	0.27	146.976	
200.00	200.00	201.00	201.00	0.49	0.50	-89.48	0.36	-40.04	40.04	39.05	0.99	40.472	
300.00	300.00	301.00	301.00	0.85	0.85	-89.48	0.36	-40.04	40.04	38.34	1.71	23.467	
400.00	400.00	401.00	401.00	1.21	1.21	-89.48	0.36	-40.04	40.04	37.62	2.42	16.524	CC, ES
500.00	499.98	500.98	500.98	1.56	1.57	-157.16	0.36	-40.04	41.64	38.51	3.14	13.281	
600.00	599.84	600.84	600.84	1.92	1.93	-159.63	0.36	-40.04	46.51	42.66	3.85	12.085	
700.00	699.45	700.45	700.45	2.29	2.29	-162.75	0.36	-40.04	54.77	50.20	4.57	11.997	
800.00	798.70	799.70	799.70	2.67	2.64	-165.81	0.36	-40.04	66.51	61.23	5.28	12.588	
900.00	897.47	901.16	901.14	3.07	3.00	-168.09	1.27	-38.50	80.13	74.12	6.00	13.350	
1,000.00	995.62	1,003.13	1,002.96	3.50	3.36	-169.43	4.01	-33.83	93.88	87.16	6.72	13.970	
1,100.00	1,093.06	1,105.61	1,105.03	3.96	3.73	-170.19	8.61	-26.00	107.69	100.25	7.44	14.471	
1,200.00	1,189.64	1,208.59	1,207.21	4.46	4.12	-170.54	15.09	-14.95	121.52	113.35	8.17	14.877	
1,300.00	1,285.27	1,312.09	1,309.36	5.00	4.51	-170.63	23.47	-0.67	135.34	126.44	8.90	15.205	
1,400.00	1,379.82	1,416.09	1,411.35	5.60	4.94	-170.51	33.77	16.87	149.13	139.49	9.64	15.464	
1,500.00	1,473.17	1,520.59	1,513.02	6.25	5.40	-170.24	46.00	37.71	162.87	152.48	10.40	15.665	
1,600.00	1,565.21	1,625.61	1,614.23	6.95	5.90	-169.85	60.17	61.85	176.56	165.39	11.17	15.812	
1,700.00	1,655.84	1,731.12	1,714.81	7.72	6.45	-169.36	76.30	89.31	190.17	178.22	11.95	15.909	
1,800.00	1,744.94	1,837.14	1,814.63	8.55	7.05	-168.79	94.37	120.10	203.70	190.94	12.76	15.959	
1,900.00	1,832.39	1,943.65	1,913.51	9.45	7.71	-168.16	114.40	154.22	217.14	203.54	13.60	15.963	
2,000.00	1,918.11	2,050.65	2,011.30	10.41	8.44	-167.47	136.38	191.67	230.48	216.01	14.48	15.921	
2,100.00	2,001.97	2,158.14	2,107.84	11.45	9.24	-166.74	160.31	232.43	243.72	228.33	15.39	15.835	
2,200.00	2,083.88	2,266.11	2,202.94	12.56	10.11	-165.96	186.17	276.49	256.84	240.48	16.36	15.703	
2,300.00	2,163.74	2,374.55	2,296.46	13.74	11.07	-165.15	213.95	323.82	269.84	252.46	17.38	15.528	
2,400.00	2,241.45	2,483.45	2,388.22	14.99	12.11	-164.30	243.64	374.39	282.71	264.24	18.47	15.308	
2,421.22	2,257.65	2,506.61	2,407.45	15.26	12.33	-164.12	250.18	385.53	285.42	266.71	18.71	15.257	
2,500.00	2,317.63	2,584.51	2,471.95	16.29	13.12	-163.57	272.28	423.18	295.55	275.87	19.69	15.013	
2,600.00	2,393.75	2,683.62	2,554.03	17.62	14.15	-162.93	300.40	471.09	308.45	287.49	20.96	14.717	
2,700.00	2,469.88	2,782.72	2,636.11	18.95	15.19	-162.33	328.53	519.00	321.37	299.11	22.27	14.433	
2,800.00	2,546.01	2,881.83	2,718.18	20.30	16.24	-161.79	356.65	566.91	334.33	310.73	23.60	14.164	
2,900.00	2,622.13	2,980.94	2,800.26	21.65	17.31	-161.28	384.77	614.82	347.32	322.35	24.97	13.910	
3,000.00	2,698.26	3,080.05	2,882.33	23.01	18.38	-160.81	412.90	662.73	360.33	333.98	26.36	13.671	
3,100.00	2,774.38	3,179.16	2,964.41	24.37	19.47	-160.38	441.02	710.63	373.37	345.60	27.77	13.445	
3,200.00	2,850.51	3,278.26	3,046.48	25.74	20.55	-159.97	469.14	758.54	386.42	357.22	29.20	13.234	
3,300.00	2,926.64	3,377.37	3,128.56	27.11	21.65	-159.59	497.26	806.45	399.49	368.85	30.65	13.035	
3,400.00	3,002.76	3,476.48	3,210.63	28.49	22.74	-159.23	525.39	854.36	412.58	380.47	32.11	12.848	
3,500.00	3,078.89	3,575.59	3,292.71	29.87	23.85	-158.90	553.51	902.27	425.69	392.10	33.59	12.673	
3,600.00	3,155.02	3,674.70	3,374.78	31.25	24.95	-158.58	581.63	950.18	438.80	403.72	35.08	12.509	
3,700.00	3,231.14	3,773.81	3,456.86	32.63	26.06	-158.29	609.75	998.08	451.93	415.35	36.58	12.354	
3,800.00	3,307.27	3,872.91	3,538.93	34.01	27.17	-158.01	637.88	1,045.99	465.07	426.97	38.10	12.208	
3,900.00	3,383.39	3,972.02	3,621.01	35.40	28.28	-157.75	666.00	1,093.90	478.22	438.60	39.62	12.071	
4,000.00	3,459.52	4,071.13	3,703.08	36.79	29.40	-157.50	694.12	1,141.81	491.38	450.23	41.15	11.941	
4,100.00	3,535.65	4,170.24	3,785.16	38.18	30.51	-157.26	722.25	1,189.72	504.55	461.86	42.69	11.819	
4,200.00	3,611.77	4,269.35	3,867.23	39.57	31.63	-157.03	750.37	1,237.62	517.72	473.49	44.24	11.704	
4,300.00	3,687.90	4,368.45	3,949.31	40.96	32.75	-156.82	778.49	1,285.53	530.91	485.12	45.79	11.594	
4,400.00	3,764.02	4,467.56	4,031.38	42.35	33.87	-156.62	806.61	1,333.44	544.10	496.75	47.35	11.491	
4,500.00	3,840.15	4,566.67	4,113.46	43.74	34.99	-156.42	834.74	1,381.35	557.30	508.38	48.92	11.393	
4,600.00	3,916.28	4,665.78	4,195.54	45.13	36.12	-156.24	862.86	1,429.26	570.50	520.01	50.49	11.300	
4,700.00	3,992.40	4,764.89	4,277.61	46.53	37.24	-156.06	890.98	1,477.17	583.71	531.64	52.06	11.211	
4,800.00	4,068.53	4,864.00	4,359.69	47.92	38.36	-155.89	919.10	1,525.07	596.92	543.28	53.65	11.127	
4,900.00	4,144.66	4,963.10	4,441.76	49.32	39.49	-155.73	947.23	1,572.98	610.14	554.91	55.23	11.047	
5,000.00	4,220.78	5,062.21	4,523.84	50.71	40.62	-155.58	975.35	1,620.89	623.36	566.54	56.82	10.971	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,161.32	4,605.91	52.11	41.74	-155.43	1,003.47	1,668.80	636.59	578.18	58.41	10.898		
5,200.00	4,373.03	5,260.43	4,687.99	53.51	42.87	-155.29	1,031.59	1,716.71	649.82	589.81	60.01	10.828		
5,300.00	4,449.16	5,359.54	4,770.06	54.90	44.00	-155.15	1,059.72	1,764.62	663.06	601.45	61.61	10.762		
5,400.00	4,525.29	5,458.64	4,852.14	56.30	45.13	-155.02	1,087.84	1,812.52	676.30	613.08	63.21	10.699		
5,500.00	4,601.41	5,557.75	4,934.21	57.70	46.26	-154.89	1,115.96	1,860.43	689.54	624.72	64.82	10.638		
5,600.00	4,677.54	5,656.86	5,016.29	59.10	47.39	-154.77	1,144.09	1,908.34	702.78	636.35	66.43	10.580		
5,700.00	4,753.66	5,755.97	5,098.36	60.49	48.52	-154.66	1,172.21	1,956.25	716.03	647.99	68.04	10.524		
5,800.00	4,829.79	5,855.08	5,180.44	61.89	49.65	-154.54	1,200.33	2,004.16	729.28	659.63	69.65	10.470		
5,900.00	4,905.92	5,954.19	5,262.51	63.29	50.78	-154.44	1,228.45	2,052.07	742.54	671.27	71.27	10.419		
6,000.00	4,982.04	6,053.29	5,344.59	64.69	51.91	-154.33	1,256.58	2,099.97	755.79	682.90	72.89	10.369		
6,100.00	5,058.17	6,152.40	5,426.66	66.09	53.04	-154.23	1,284.70	2,147.88	769.05	694.54	74.51	10.322		
6,200.00	5,134.30	6,251.51	5,508.74	67.49	54.18	-154.13	1,312.82	2,195.79	782.31	706.18	76.13	10.276		
6,300.00	5,210.42	6,350.62	5,590.81	68.89	55.31	-154.04	1,340.94	2,243.70	795.57	717.82	77.75	10.232		
6,400.00	5,286.55	6,449.73	5,672.89	70.29	56.44	-153.95	1,369.07	2,291.61	808.84	729.46	79.38	10.190		
6,500.00	5,362.67	6,548.83	5,754.96	71.69	57.57	-153.86	1,397.19	2,339.51	822.11	741.10	81.01	10.149		
6,600.00	5,438.80	6,647.94	5,837.04	73.09	58.71	-153.77	1,425.31	2,387.42	835.38	752.74	82.64	10.109		
6,700.00	5,514.93	6,747.05	5,919.12	74.49	59.84	-153.69	1,453.43	2,435.33	848.65	764.38	84.27	10.071		
6,800.00	5,591.05	6,846.16	6,001.19	75.89	60.97	-153.61	1,481.56	2,483.24	861.92	776.02	85.90	10.034		
6,900.00	5,667.18	6,945.27	6,083.27	77.29	62.11	-153.53	1,509.68	2,531.15	875.19	787.66	87.53	9.999		
7,000.00	5,743.30	7,044.38	6,165.34	78.69	63.24	-153.46	1,537.80	2,579.06	888.47	799.30	89.16	9.964		
7,100.00	5,819.43	7,143.48	6,247.42	80.09	64.38	-153.38	1,565.93	2,626.96	901.75	810.95	90.80	9.931		
7,200.00	5,895.56	7,242.59	6,329.49	81.49	65.51	-153.31	1,594.05	2,674.87	915.02	822.59	92.44	9.899		
7,300.00	5,971.68	7,341.70	6,411.57	82.90	66.65	-153.24	1,622.17	2,722.78	928.30	834.23	94.07	9.868		
7,400.00	6,047.81	7,440.81	6,493.64	84.30	67.78	-153.17	1,650.29	2,770.69	941.58	845.87	95.71	9.838		
7,500.00	6,123.94	7,539.92	6,575.72	85.70	68.92	-153.11	1,678.42	2,818.60	954.87	857.51	97.35	9.808		
7,600.00	6,200.06	7,639.02	6,657.79	87.10	70.05	-153.05	1,706.54	2,866.51	968.15	869.16	98.99	9.780		
7,700.00	6,276.19	7,738.13	6,739.87	88.50	71.19	-152.98	1,734.66	2,914.41	981.44	880.80	100.64	9.752		
7,800.00	6,352.31	7,837.24	6,821.94	89.90	72.32	-152.92	1,762.78	2,962.32	994.72	892.44	102.28	9.726		
7,900.00	6,428.44	7,936.35	6,904.02	91.31	73.46	-152.87	1,790.91	3,010.23	1,008.01	904.09	103.92	9.700		
8,000.00	6,504.57	8,035.46	6,986.09	92.71	74.59	-152.81	1,819.03	3,058.14	1,021.30	915.73	105.57	9.674		
8,100.00	6,580.69	8,134.57	7,068.17	94.11	75.73	-152.75	1,847.15	3,106.05	1,034.58	927.37	107.21	9.650		
8,200.00	6,656.82	8,252.36	7,167.07	95.51	77.04	-153.05	1,874.15	3,163.75	1,047.26	938.83	108.43	9.659		
8,300.00	6,732.95	8,372.00	7,270.20	96.91	78.17	-154.62	1,877.90	3,223.84	1,057.89	950.58	107.31	9.858		
8,400.00	6,809.07	8,476.62	7,359.29	98.32	78.95	-157.00	1,860.81	3,275.69	1,067.91	963.31	104.60	10.209		
8,500.00	6,885.20	8,563.38	7,430.15	99.72	79.43	-159.62	1,832.61	3,316.87	1,079.44	978.05	101.40	10.646		
8,600.00	6,961.32	8,633.47	7,484.21	101.12	79.70	-162.10	1,801.01	3,348.25	1,094.42	996.09	98.33	11.130		
8,700.00	7,037.45	8,689.69	7,524.91	102.52	79.86	-164.30	1,770.28	3,371.87	1,114.23	1,018.64	95.59	11.657		
8,732.15	7,061.92	8,705.32	7,535.75	102.97	79.89	-164.94	1,760.93	3,378.14	1,121.77	1,027.00	94.76	11.837		
8,750.00	7,075.57	8,713.71	7,541.47	103.22	79.90	-167.76	1,755.78	3,381.46	1,126.20	1,031.88	94.33	11.940		
8,800.00	7,114.27	8,737.32	7,557.23	103.91	79.93	-175.99	1,740.75	3,390.59	1,139.35	1,046.14	93.21	12.224		
8,850.00	7,153.47	8,761.07	7,572.52	104.58	79.96	175.41	1,724.89	3,399.45	1,153.39	1,061.15	92.24	12.504		
8,900.00	7,192.85	8,784.94	7,587.31	105.21	79.97	166.67	1,708.22	3,408.01	1,168.09	1,076.69	91.40	12.780		
8,950.00	7,232.12	8,808.91	7,601.55	105.80	79.98	158.02	1,690.78	3,416.24	1,183.20	1,092.53	90.67	13.050		
9,000.00	7,270.99	8,832.98	7,613.20	106.35	79.98	149.69	1,672.60	3,424.13	1,198.51	1,108.47	90.04	13.310		
9,050.00	7,309.16	8,857.13	7,628.22	106.85	79.97	141.85	1,653.70	3,431.65	1,213.81	1,124.30	89.51	13.560		
9,100.00	7,346.32	8,881.35	7,640.57	107.30	79.94	134.63	1,634.13	3,438.78	1,228.91	1,139.83	89.08	13.796		
9,150.00	7,382.22	8,900.00	7,649.59	107.69	79.93	128.19	1,618.66	3,443.99	1,243.64	1,154.68	88.96	13.980		
9,200.00	7,416.56	8,929.98	7,663.17	108.02	79.88	122.21	1,593.11	3,451.81	1,257.78	1,169.28	88.50	14.212		
9,250.00	7,449.09	8,950.00	7,671.59	108.29	79.84	117.10	1,575.60	3,456.65	1,271.24	1,182.69	88.55	14.356		
9,300.00	7,479.56	8,978.81	7,682.76	108.51	79.78	112.48	1,549.84	3,463.08	1,283.84	1,195.49	88.35	14.532		
9,350.00	7,507.74	9,000.00	7,690.26	108.68	79.73	108.57	1,530.49	3,467.38	1,295.49	1,206.89	88.60	14.622		
9,400.00	7,533.41	9,027.80	7,699.15	108.79	79.66	105.14	1,504.65	3,472.47	1,306.05	1,217.37	88.68	14.728		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,450.00	7,556.39	9,050.00	7,705.47	108.86	79.59	102.30	1,483.68	3,476.08	1,315.46	1,226.29	89.17	14.752		
9,500.00	7,576.48	9,076.91	7,712.17	108.88	79.51	99.89	1,457.90	3,479.90	1,323.60	1,234.04	89.56	14.779		
9,550.00	7,593.55	9,100.00	7,717.09	108.86	79.43	97.96	1,435.52	3,482.69	1,330.42	1,240.13	90.30	14.734		
9,600.00	7,607.46	9,126.11	7,721.71	108.80	79.34	96.43	1,409.95	3,485.29	1,335.87	1,244.86	91.01	14.678		
9,650.00	7,618.11	9,150.00	7,725.04	108.71	79.26	95.32	1,386.37	3,487.16	1,339.89	1,247.90	91.99	14.565		
9,700.00	7,625.41	9,175.37	7,727.66	108.59	79.16	94.59	1,361.18	3,488.59	1,342.46	1,249.44	93.02	14.432		
9,750.00	7,629.30	9,200.00	7,729.27	108.45	79.06	94.25	1,336.62	3,489.45	1,343.55	1,249.34	94.22	14.260		
9,781.81	7,630.00	9,215.68	7,729.82	108.35	79.00	94.22	1,320.95	3,489.72	1,343.48	1,248.44	95.04	14.136		
9,800.00	7,630.00	9,224.65	7,729.97	108.29	78.96	94.23	1,311.98	3,489.77	1,343.32	1,247.81	95.52	14.064		
9,806.26	7,630.00	9,238.02	7,730.00	108.27	78.90	94.23	1,312.38	3,489.79	1,343.29	1,247.43	95.87	14.012		
9,900.00	7,630.00	9,317.99	7,730.00	107.97	78.58	94.23	1,218.65	3,489.48	1,343.29	1,248.29	95.01	14.139		
10,000.00	7,630.00	9,417.99	7,730.00	107.67	78.19	94.23	1,118.65	3,489.14	1,343.29	1,249.16	94.13	14.271		
10,100.00	7,630.00	9,517.99	7,730.00	107.38	77.82	94.23	1,018.65	3,488.80	1,343.29	1,249.92	93.38	14.386		
10,200.00	7,630.00	9,617.99	7,730.00	107.10	77.47	94.23	918.65	3,488.46	1,343.29	1,250.54	92.75	14.483		
10,300.00	7,630.00	9,717.99	7,730.00	106.84	77.14	94.23	818.65	3,488.12	1,343.29	1,251.04	92.26	14.560		
10,400.00	7,630.00	9,817.99	7,730.00	106.59	76.82	94.23	718.65	3,487.79	1,343.30	1,251.40	91.90	14.617		
10,500.00	7,630.00	9,917.99	7,730.00	106.35	76.53	94.23	618.65	3,487.45	1,343.30	1,251.62	91.67	14.653		
10,600.00	7,630.00	10,017.99	7,730.00	106.13	76.25	94.23	518.65	3,487.11	1,343.30	1,251.71	91.59	14.667		
10,700.00	7,630.00	10,117.99	7,730.00	105.92	75.99	94.23	418.65	3,486.77	1,343.30	1,251.66	91.63	14.660		
10,800.00	7,630.00	10,217.99	7,730.00	105.72	75.75	94.23	318.65	3,486.44	1,343.30	1,251.48	91.81	14.631		
10,900.00	7,630.00	10,317.99	7,730.00	105.54	75.53	94.23	218.65	3,486.10	1,343.30	1,251.17	92.13	14.580		
11,000.00	7,630.00	10,417.99	7,730.00	105.37	75.33	94.23	118.66	3,485.76	1,343.30	1,250.71	92.58	14.509		
11,100.00	7,630.00	10,517.99	7,730.00	105.21	75.14	94.23	18.66	3,485.42	1,343.30	1,250.13	93.17	14.418		
11,200.00	7,630.00	10,617.99	7,730.00	105.06	74.98	94.23	-81.34	3,485.08	1,343.30	1,249.42	93.88	14.309		
11,300.00	7,630.00	10,717.99	7,730.00	104.93	74.84	94.23	-181.34	3,484.75	1,343.30	1,248.58	94.72	14.182		
11,400.00	7,630.00	10,817.99	7,730.00	104.82	74.72	94.23	-281.34	3,484.41	1,343.30	1,247.62	95.68	14.040		
11,500.00	7,630.00	10,917.99	7,730.00	104.72	74.62	94.23	-381.34	3,484.07	1,343.30	1,246.54	96.76	13.883		
11,600.00	7,630.00	11,017.99	7,730.00	104.63	74.55	94.23	-481.34	3,483.73	1,343.30	1,245.35	97.95	13.713		
11,700.00	7,630.00	11,117.99	7,730.00	104.55	74.50	94.23	-581.34	3,483.40	1,343.30	1,244.04	99.26	13.533		
11,800.00	7,630.00	11,217.99	7,730.00	104.50	74.47	94.23	-681.34	3,483.06	1,343.30	1,242.63	100.67	13.343		
11,900.00	7,630.00	11,317.99	7,730.00	104.45	74.48	94.23	-781.34	3,482.72	1,343.30	1,241.11	102.19	13.145		
12,000.00	7,630.00	11,417.99	7,730.00	104.43	74.51	94.23	-881.34	3,482.38	1,343.30	1,239.50	103.80	12.941		
12,100.00	7,630.00	11,517.99	7,730.00	104.42	74.58	94.23	-981.34	3,482.04	1,343.30	1,237.79	105.51	12.731		
12,200.00	7,630.00	11,617.99	7,730.00	104.42	74.68	94.23	-1,081.34	3,481.71	1,343.31	1,236.00	107.31	12.518		
12,300.00	7,630.00	11,717.99	7,730.00	104.45	74.82	94.23	-1,181.34	3,481.37	1,343.31	1,234.12	109.19	12.303		
12,400.00	7,630.00	11,817.99	7,730.00	104.49	74.99	94.23	-1,281.34	3,481.03	1,343.31	1,232.16	111.15	12.086		
12,500.00	7,630.00	11,917.99	7,730.00	104.55	75.21	94.23	-1,381.34	3,480.69	1,343.31	1,230.13	113.18	11.869		
12,600.00	7,630.00	12,017.99	7,730.00	104.63	75.48	94.23	-1,481.34	3,480.35	1,343.31	1,228.02	115.29	11.652		
12,700.00	7,630.00	12,117.99	7,730.00	104.73	75.79	94.23	-1,581.34	3,480.02	1,343.31	1,225.84	117.47	11.436		
12,800.00	7,630.00	12,217.99	7,730.00	104.85	76.16	94.23	-1,681.33	3,479.68	1,343.31	1,223.60	119.71	11.222		
12,900.00	7,630.00	12,317.99	7,730.00	104.99	76.58	94.23	-1,781.33	3,479.34	1,343.31	1,221.30	122.01	11.010		
13,000.00	7,630.00	12,417.99	7,730.00	105.15	77.06	94.23	-1,881.33	3,479.00	1,343.31	1,218.95	124.36	10.801		
13,100.00	7,630.00	12,517.99	7,730.00	105.34	77.60	94.23	-1,981.33	3,478.67	1,343.31	1,216.53	126.78	10.596		
13,200.00	7,630.00	12,617.99	7,730.00	105.56	78.20	94.23	-2,081.33	3,478.33	1,343.31	1,214.07	129.24	10.394		
13,300.00	7,630.00	12,717.99	7,730.00	105.80	78.86	94.23	-2,181.33	3,477.99	1,343.31	1,211.56	131.75	10.196		
13,400.00	7,630.00	12,817.99	7,730.00	106.06	79.59	94.23	-2,281.33	3,477.65	1,343.31	1,209.00	134.31	10.002		
13,500.00	7,630.00	12,917.99	7,730.00	106.36	80.37	94.23	-2,381.33	3,477.31	1,343.31	1,206.40	136.91	9.812		
13,600.00	7,630.00	13,017.99	7,730.00	106.68	81.21	94.23	-2,481.33	3,476.98	1,343.31	1,203.76	139.55	9.626		
13,700.00	7,630.00	13,117.99	7,730.00	107.03	82.10	94.23	-2,581.33	3,476.64	1,343.31	1,201.08	142.23	9.445		
13,800.00	7,630.00	13,217.99	7,730.00	107.42	83.05	94.23	-2,681.33	3,476.30	1,343.31	1,198.37	144.95	9.268		
13,900.00	7,630.00	13,317.99	7,730.00	107.83	84.04	94.23	-2,781.33	3,475.96	1,343.31	1,195.62	147.69	9.095		
14,000.00	7,630.00	13,417.99	7,730.00	108.28	85.09	94.23	-2,881.33	3,475.63	1,343.32	1,192.84	150.48	8.927		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,630.00	13,517.99	7,730.00	108.77	86.17	94.23	-2,981.33	3,475.29	1,343.32	1,190.03	153.29	8.763		
14,200.00	7,630.00	13,617.99	7,730.00	109.29	87.30	94.23	-3,081.33	3,474.95	1,343.32	1,187.18	156.13	8.604		
14,300.00	7,630.00	13,717.99	7,730.00	109.84	88.46	94.23	-3,181.33	3,474.61	1,343.32	1,184.32	159.00	8.448		
14,400.00	7,630.00	13,817.99	7,730.00	110.43	89.66	94.23	-3,281.33	3,474.27	1,343.32	1,181.42	161.90	8.297		
14,500.00	7,630.00	13,917.99	7,730.00	111.06	90.89	94.23	-3,381.33	3,473.94	1,343.32	1,178.50	164.82	8.150		
14,600.00	7,630.00	14,017.99	7,730.00	111.72	92.14	94.23	-3,481.32	3,473.60	1,343.32	1,175.56	167.76	8.007		
14,700.00	7,630.00	14,117.99	7,730.00	112.42	93.43	94.23	-3,581.32	3,473.26	1,343.32	1,172.60	170.72	7.868		
14,800.00	7,630.00	14,217.99	7,730.00	113.16	94.74	94.23	-3,681.32	3,472.92	1,343.32	1,169.61	173.71	7.733		
14,900.00	7,630.00	14,317.99	7,730.00	113.94	96.07	94.23	-3,781.32	3,472.58	1,343.32	1,166.60	176.72	7.602		
15,000.00	7,630.00	14,417.99	7,730.00	114.75	97.42	94.23	-3,881.32	3,472.25	1,343.32	1,163.58	179.74	7.474		
15,100.00	7,630.00	14,517.99	7,730.00	115.60	98.79	94.23	-3,981.32	3,471.91	1,343.32	1,160.54	182.78	7.349		
15,200.00	7,630.00	14,617.99	7,730.00	116.48	100.17	94.23	-4,081.32	3,471.57	1,343.32	1,157.48	185.84	7.228		
15,300.00	7,630.00	14,717.99	7,730.00	117.40	101.58	94.23	-4,181.32	3,471.23	1,343.32	1,154.40	188.92	7.111		
15,400.00	7,630.00	14,817.99	7,730.00	118.35	103.00	94.23	-4,281.32	3,470.90	1,343.32	1,151.31	192.01	6.996		
15,500.00	7,630.00	14,917.99	7,730.00	119.34	104.43	94.23	-4,381.32	3,470.56	1,343.32	1,148.21	195.12	6.885		
15,600.00	7,630.00	15,017.99	7,730.00	120.35	105.88	94.23	-4,481.32	3,470.22	1,343.32	1,145.09	198.24	6.776		
15,700.00	7,630.00	15,117.99	7,730.00	121.40	107.34	94.23	-4,581.32	3,469.88	1,343.33	1,141.95	201.37	6.671		
15,800.00	7,630.00	15,217.99	7,730.00	122.48	108.81	94.23	-4,681.32	3,469.54	1,343.33	1,138.81	204.52	6.568		
15,900.00	7,630.00	15,317.99	7,730.00	123.58	110.29	94.23	-4,781.32	3,469.21	1,343.33	1,135.65	207.68	6.468		
16,000.00	7,630.00	15,417.99	7,730.00	124.71	111.78	94.23	-4,881.32	3,468.87	1,343.33	1,132.48	210.85	6.371		
16,100.00	7,630.00	15,517.99	7,730.00	125.87	113.28	94.23	-4,981.32	3,468.53	1,343.33	1,129.30	214.03	6.276		
16,200.00	7,630.00	15,617.99	7,730.00	127.05	114.79	94.23	-5,081.32	3,468.19	1,343.33	1,126.10	217.22	6.184		
16,300.00	7,630.00	15,717.99	7,730.00	128.26	116.31	94.23	-5,181.31	3,467.86	1,343.33	1,122.90	220.43	6.094		
16,400.00	7,630.00	15,817.99	7,730.00	129.48	117.84	94.23	-5,281.31	3,467.52	1,343.33	1,119.69	223.64	6.007		
16,500.00	7,630.00	15,917.99	7,730.00	130.73	119.37	94.23	-5,381.31	3,467.18	1,343.33	1,116.47	226.86	5.921		
16,600.00	7,630.00	16,017.99	7,730.00	132.00	120.91	94.23	-5,481.31	3,466.84	1,343.33	1,113.24	230.09	5.838		
16,700.00	7,630.00	16,117.99	7,730.00	133.29	122.46	94.23	-5,581.31	3,466.50	1,343.33	1,110.00	233.33	5.757		
16,800.00	7,630.00	16,217.99	7,730.00	134.59	124.01	94.23	-5,681.31	3,466.17	1,343.33	1,106.75	236.58	5.678		
16,900.00	7,630.00	16,317.99	7,730.00	135.91	125.58	94.23	-5,781.31	3,465.83	1,343.33	1,103.50	239.83	5.601		
17,000.00	7,630.00	16,417.99	7,730.00	137.25	127.14	94.23	-5,881.31	3,465.49	1,343.33	1,100.24	243.10	5.526		
17,100.00	7,630.00	16,517.99	7,730.00	138.61	128.72	94.23	-5,981.31	3,465.15	1,343.33	1,096.97	246.37	5.453		
17,200.00	7,630.00	16,617.99	7,730.00	139.97	130.29	94.23	-6,081.31	3,464.81	1,343.33	1,093.69	249.64	5.381		
17,300.00	7,630.00	16,717.99	7,730.00	141.36	131.88	94.23	-6,181.31	3,464.48	1,343.33	1,090.41	252.93	5.311		
17,400.00	7,630.00	16,817.99	7,730.00	142.75	133.46	94.23	-6,281.31	3,464.14	1,343.33	1,087.12	256.22	5.243		
17,500.00	7,630.00	16,917.99	7,730.00	144.16	135.06	94.23	-6,381.31	3,463.80	1,343.34	1,083.82	259.51	5.176		
17,600.00	7,630.00	17,017.99	7,730.00	145.58	136.65	94.23	-6,481.31	3,463.46	1,343.34	1,080.52	262.82	5.111		
17,700.00	7,630.00	17,117.99	7,730.00	147.01	138.26	94.23	-6,581.31	3,463.13	1,343.34	1,077.21	266.12	5.048		
17,800.00	7,630.00	17,217.99	7,730.00	148.45	139.86	94.23	-6,681.31	3,462.79	1,343.34	1,073.90	269.44	4.986		
17,900.00	7,630.00	17,317.99	7,730.00	149.91	141.47	94.23	-6,781.31	3,462.45	1,343.34	1,070.58	272.76	4.925		
18,000.00	7,630.00	17,417.99	7,730.00	151.37	143.08	94.23	-6,881.31	3,462.11	1,343.34	1,067.26	276.08	4.866		
18,100.00	7,630.00	17,517.99	7,730.00	152.84	144.70	94.23	-6,981.30	3,461.77	1,343.34	1,063.93	279.41	4.808		
18,200.00	7,630.00	17,617.99	7,730.00	154.32	146.32	94.23	-7,081.30	3,461.44	1,343.34	1,060.59	282.75	4.751		
18,300.00	7,630.00	17,717.99	7,730.00	155.81	147.95	94.23	-7,181.30	3,461.10	1,343.34	1,057.26	286.08	4.696		
18,400.00	7,630.00	17,817.99	7,730.00	157.31	149.57	94.23	-7,281.30	3,460.76	1,343.34	1,053.91	289.43	4.641		
18,500.00	7,630.00	17,917.99	7,730.00	158.81	151.20	94.23	-7,381.30	3,460.42	1,343.34	1,050.57	292.77	4.588		
18,600.00	7,630.00	18,017.99	7,730.00	160.32	152.84	94.23	-7,481.30	3,460.09	1,343.34	1,047.22	296.13	4.536		
18,700.00	7,630.00	18,117.99	7,730.00	161.84	154.47	94.23	-7,581.30	3,459.75	1,343.34	1,043.86	299.48	4.486		
18,800.00	7,630.00	18,217.99	7,730.00	163.37	156.11	94.23	-7,681.30	3,459.41	1,343.34	1,040.50	302.84	4.436		
18,900.00	7,630.00	18,317.99	7,730.00	164.90	157.76	94.23	-7,781.30	3,459.07	1,343.34	1,037.14	306.20	4.387		
19,000.00	7,630.00	18,417.99	7,730.00	166.43	159.40	94.23	-7,881.30	3,458.73	1,343.34	1,033.77	309.57	4.339		
19,100.00	7,630.00	18,517.99	7,730.00	167.98	161.05	94.23	-7,981.30	3,458.40	1,343.34	1,030.40	312.94	4.293		
19,200.00	7,630.00	18,617.99	7,730.00	169.53	162.70	94.23	-8,081.30	3,458.06	1,343.34	1,027.03	316.32	4.247		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,630.00	18,717.99	7,730.00	171.08	164.35	94.23	-8,181.30	3,457.72	1,343.35	1,023.65	319.69	4.202	
19,400.00	7,630.00	18,817.99	7,730.00	172.64	166.01	94.23	-8,281.30	3,457.38	1,343.35	1,020.27	323.07	4.158	
19,500.00	7,630.00	18,917.99	7,730.00	174.21	167.66	94.23	-8,381.30	3,457.04	1,343.35	1,016.89	326.46	4.115	
19,518.56	7,630.00	18,936.55	7,730.00	174.50	167.97	94.23	-8,399.86	3,456.98	1,343.35	1,016.26	327.09	4.107 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-90.00	0.00	-29.96	29.96					
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-29.96	29.96	29.69	0.27	109.971		
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-29.96	29.96	28.97	0.99	30.282		
300.00	300.00	301.00	301.00	0.85	0.85	-90.00	0.00	-29.96	29.96	28.25	1.71	17.558		
400.00	400.00	401.00	401.00	1.21	1.21	-90.00	0.00	-29.96	29.96	27.54	2.42	12.364 CC, ES		
500.00	499.98	500.98	500.98	1.56	1.57	-157.96	0.00	-29.96	31.57	28.44	3.14	10.068		
600.00	599.84	600.84	600.84	1.92	1.93	-161.02	0.00	-29.96	36.48	32.63	3.85	9.477		
700.00	699.45	700.46	700.46	2.29	2.29	-164.60	0.00	-29.96	44.81	40.24	4.57	9.815		
800.00	798.70	801.58	801.56	2.67	2.65	-167.33	0.85	-28.37	54.96	49.69	5.28	10.411		
900.00	897.47	903.08	902.91	3.07	3.01	-168.93	3.40	-23.62	65.23	59.24	5.99	10.887		
1,000.00	995.62	1,004.95	1,004.38	3.50	3.37	-169.86	7.67	-15.67	75.54	68.84	6.71	11.263		
1,100.00	1,093.06	1,107.20	1,105.83	3.96	3.75	-170.34	13.66	-4.50	85.86	78.44	7.43	11.562		
1,200.00	1,189.64	1,209.83	1,207.14	4.46	4.15	-170.53	21.39	9.91	96.16	88.01	8.15	11.798		
1,300.00	1,285.27	1,312.83	1,308.17	5.00	4.58	-170.51	30.87	27.58	106.43	97.55	8.88	11.981		
1,400.00	1,379.82	1,416.20	1,408.77	5.60	5.04	-170.32	42.11	48.52	116.65	107.03	9.62	12.121		
1,500.00	1,473.17	1,519.95	1,508.80	6.25	5.54	-170.02	55.10	72.74	126.81	116.43	10.38	12.220		
1,600.00	1,565.21	1,624.07	1,608.13	6.95	6.09	-169.61	69.85	100.23	136.91	125.76	11.15	12.282		
1,700.00	1,655.84	1,728.56	1,706.60	7.72	6.69	-169.13	86.36	131.01	146.92	134.99	11.94	12.309		
1,800.00	1,744.94	1,833.41	1,804.07	8.55	7.35	-168.59	104.62	165.05	156.86	144.11	12.75	12.303		
1,900.00	1,832.39	1,938.62	1,900.39	9.45	8.07	-167.99	124.63	202.34	166.70	153.11	13.59	12.266		
2,000.00	1,918.11	2,044.18	1,995.40	10.41	8.86	-167.34	146.37	242.86	176.45	161.98	14.47	12.197		
2,100.00	2,001.97	2,150.10	2,088.96	11.45	9.73	-166.65	169.83	286.59	186.09	170.71	15.38	12.096		
2,200.00	2,083.88	2,256.35	2,180.92	12.56	10.67	-165.93	195.00	333.50	195.62	179.27	16.35	11.965		
2,300.00	2,163.74	2,362.95	2,271.12	13.74	11.69	-165.17	221.85	383.54	205.04	187.67	17.37	11.804		
2,400.00	2,241.45	2,469.87	2,359.41	14.99	12.80	-164.39	250.35	436.67	214.33	195.88	18.45	11.614		
2,421.22	2,257.65	2,492.60	2,377.89	15.26	13.04	-164.22	256.61	448.34	216.29	197.59	18.69	11.571		
2,500.00	2,317.63	2,572.49	2,442.36	16.29	13.92	-163.63	278.92	489.92	223.09	203.42	19.67	11.340		
2,600.00	2,393.75	2,672.09	2,522.67	17.62	15.04	-162.94	306.76	541.82	231.68	210.70	20.98	11.042		
2,700.00	2,469.88	2,771.68	2,602.98	18.95	16.17	-162.30	334.61	593.72	240.31	217.98	22.33	10.762		
2,800.00	2,546.01	2,871.27	2,683.29	20.30	17.32	-161.71	362.45	645.62	248.96	225.25	23.71	10.500		
2,900.00	2,622.13	2,970.87	2,763.60	21.65	18.48	-161.15	390.30	697.52	257.63	232.51	25.12	10.256		
3,000.00	2,698.26	3,070.46	2,843.91	23.01	19.64	-160.63	418.14	749.42	266.33	239.77	26.56	10.028		
3,100.00	2,774.38	3,170.05	2,924.22	24.37	20.82	-160.15	445.99	801.32	275.05	247.02	28.02	9.816		
3,200.00	2,850.51	3,269.65	3,004.53	25.74	22.00	-159.69	473.83	853.22	283.78	254.28	29.51	9.618		
3,300.00	2,926.64	3,369.24	3,084.85	27.11	23.18	-159.26	501.68	905.11	292.53	261.52	31.01	9.433		
3,400.00	3,002.76	3,468.83	3,165.16	28.49	24.37	-158.86	529.52	957.01	301.30	268.77	32.54	9.261		
3,500.00	3,078.89	3,568.42	3,245.47	29.87	25.56	-158.48	557.37	1,008.91	310.09	276.01	34.08	9.100		
3,600.00	3,155.02	3,668.02	3,325.78	31.25	26.76	-158.11	585.21	1,060.81	318.88	283.25	35.63	8.950		
3,700.00	3,231.14	3,767.61	3,406.09	32.63	27.96	-157.77	613.05	1,112.71	327.69	290.49	37.20	8.809		
3,800.00	3,307.27	3,867.20	3,486.40	34.01	29.16	-157.45	640.90	1,164.61	336.51	297.72	38.78	8.677		
3,900.00	3,383.39	3,966.80	3,566.71	35.40	30.36	-157.14	668.74	1,216.51	345.33	304.96	40.38	8.553		
4,000.00	3,459.52	4,066.39	3,647.02	36.79	31.57	-156.85	696.59	1,268.41	354.17	312.19	41.98	8.437		
4,100.00	3,535.65	4,165.98	3,727.34	38.18	32.77	-156.57	724.43	1,320.31	363.02	319.42	43.59	8.327		
4,200.00	3,611.77	4,265.58	3,807.65	39.57	33.98	-156.31	752.28	1,372.21	371.87	326.66	45.22	8.224		
4,300.00	3,687.90	4,365.17	3,887.96	40.96	35.19	-156.06	780.12	1,424.11	380.73	333.89	46.85	8.127		
4,400.00	3,764.02	4,464.76	3,968.27	42.35	36.40	-155.82	807.97	1,476.01	389.60	341.11	48.49	8.035		
4,500.00	3,840.15	4,564.35	4,048.58	43.74	37.62	-155.59	835.81	1,527.91	398.48	348.34	50.13	7.948		
4,600.00	3,916.28	4,663.95	4,128.89	45.13	38.83	-155.37	863.66	1,579.81	407.36	355.57	51.79	7.866		
4,700.00	3,992.40	4,763.54	4,209.20	46.53	40.04	-155.16	891.50	1,631.71	416.24	362.80	53.45	7.788		
4,800.00	4,068.53	4,863.13	4,289.51	47.92	41.26	-154.96	919.34	1,683.61	425.14	370.03	55.11	7.714		
4,900.00	4,144.66	4,962.73	4,369.83	49.32	42.47	-154.76	947.19	1,735.51	434.03	377.25	56.78	7.644		
5,000.00	4,220.78	5,062.32	4,450.14	50.71	43.69	-154.58	975.03	1,787.41	442.94	384.48	58.46	7.577		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,161.91	4,530.45	52.11	44.91	-154.40	1,002.88	1,839.30	451.84	391.71	60.14	7.514		
5,200.00	4,373.03	5,261.50	4,610.76	53.51	46.12	-154.23	1,030.72	1,891.20	460.75	398.93	61.82	7.453		
5,300.00	4,449.16	5,361.10	4,691.07	54.90	47.34	-154.06	1,058.57	1,943.10	469.67	406.16	63.51	7.395		
5,400.00	4,525.29	5,460.69	4,771.38	56.30	48.56	-153.91	1,086.41	1,995.00	478.58	413.38	65.20	7.340		
5,500.00	4,601.41	5,560.28	4,851.69	57.70	49.78	-153.75	1,114.26	2,046.90	487.51	420.61	66.90	7.287		
5,600.00	4,677.54	5,659.88	4,932.00	59.10	51.00	-153.61	1,142.10	2,098.80	496.43	427.83	68.60	7.237		
5,700.00	4,753.66	5,759.47	5,012.31	60.49	52.22	-153.46	1,169.95	2,150.70	505.36	435.06	70.30	7.188		
5,800.00	4,829.79	5,859.06	5,092.63	61.89	53.44	-153.33	1,197.79	2,202.60	514.29	442.28	72.01	7.142		
5,900.00	4,905.92	5,958.66	5,172.94	63.29	54.66	-153.19	1,225.63	2,254.50	523.22	449.51	73.72	7.098		
6,000.00	4,982.04	6,058.25	5,253.25	64.69	55.88	-153.07	1,253.48	2,306.40	532.16	456.73	75.43	7.055		
6,100.00	5,058.17	6,157.84	5,333.56	66.09	57.10	-152.94	1,281.32	2,358.30	541.10	463.96	77.14	7.014		
6,200.00	5,134.30	6,257.43	5,413.87	67.49	58.32	-152.82	1,309.17	2,410.20	550.04	471.18	78.86	6.975		
6,300.00	5,210.42	6,357.03	5,494.18	68.89	59.54	-152.71	1,337.01	2,462.10	558.99	478.41	80.58	6.937		
6,400.00	5,286.55	6,456.62	5,574.49	70.29	60.77	-152.59	1,364.86	2,514.00	567.93	485.63	82.30	6.901		
6,500.00	5,362.67	6,556.21	5,654.80	71.69	61.99	-152.48	1,392.70	2,565.90	576.88	492.86	84.02	6.866		
6,600.00	5,438.80	6,655.81	5,735.12	73.09	63.21	-152.38	1,420.55	2,617.80	585.83	500.08	85.75	6.832		
6,700.00	5,514.93	6,755.40	5,815.43	74.49	64.43	-152.28	1,448.39	2,669.70	594.78	507.31	87.48	6.799		
6,800.00	5,591.05	6,854.99	5,895.74	75.89	65.66	-152.18	1,476.24	2,721.59	603.74	514.53	89.21	6.768		
6,900.00	5,667.18	6,954.59	5,976.05	77.29	66.88	-152.08	1,504.08	2,773.49	612.69	521.75	90.94	6.738		
7,000.00	5,743.30	7,054.18	6,056.36	78.69	68.10	-151.99	1,531.92	2,825.39	621.65	528.98	92.67	6.708		
7,100.00	5,819.43	7,153.77	6,136.67	80.09	69.33	-151.90	1,559.77	2,877.29	630.61	536.20	94.40	6.680		
7,200.00	5,895.56	7,253.36	6,216.98	81.49	70.55	-151.81	1,587.61	2,929.19	639.57	543.43	96.14	6.653		
7,300.00	5,971.68	7,352.96	6,297.29	82.90	71.77	-151.72	1,615.46	2,981.09	648.53	550.65	97.88	6.626		
7,400.00	6,047.81	7,452.55	6,377.61	84.30	73.00	-151.64	1,643.30	3,032.99	657.49	557.88	99.61	6.600		
7,500.00	6,123.94	7,552.14	6,457.92	85.70	74.22	-151.56	1,671.15	3,084.89	666.46	565.10	101.35	6.576		
7,600.00	6,200.06	7,651.74	6,538.23	87.10	75.44	-151.48	1,698.99	3,136.79	675.42	572.33	103.10	6.551		
7,700.00	6,276.19	7,751.33	6,618.54	88.50	76.67	-151.40	1,726.84	3,188.69	684.39	579.55	104.84	6.528		
7,800.00	6,352.31	7,850.92	6,698.85	89.90	77.89	-151.33	1,754.68	3,240.59	693.36	586.78	106.58	6.505		
7,900.00	6,428.44	7,950.51	6,779.16	91.31	79.12	-151.25	1,782.53	3,292.49	702.33	594.00	108.33	6.483		
8,000.00	6,504.57	8,050.11	6,859.47	92.71	80.34	-151.18	1,810.37	3,344.39	711.30	601.23	110.07	6.462		
8,100.00	6,580.69	8,149.70	6,939.78	94.11	81.57	-151.11	1,838.21	3,396.29	720.27	608.45	111.82	6.441		
8,200.00	6,656.82	8,251.55	7,021.94	95.51	82.82	-151.05	1,866.59	3,449.38	729.23	615.65	113.58	6.421		
8,300.00	6,732.95	8,375.06	7,124.24	96.91	84.24	-152.17	1,885.79	3,515.43	736.25	622.94	115.31	6.498		
8,400.00	6,809.07	8,488.24	7,219.08	98.32	85.35	-154.92	1,880.13	3,576.59	741.09	631.19	109.90	6.743		
8,500.00	6,885.20	8,585.01	7,298.14	99.72	86.10	-158.48	1,857.78	3,627.51	746.41	641.37	105.04	7.106		
8,600.00	6,961.32	8,664.42	7,359.92	101.12	86.57	-162.15	1,827.83	3,667.27	755.18	655.03	100.15	7.540		
8,700.00	7,037.45	8,728.44	7,406.84	102.52	86.85	-165.52	1,796.47	3,697.43	769.87	674.02	95.85	8.032		
8,732.15	7,061.92	8,746.23	7,419.33	102.97	86.91	-166.52	1,786.67	3,705.45	776.12	681.52	94.60	8.204		
8,750.00	7,075.57	8,755.76	7,425.91	103.22	86.94	-169.46	1,781.23	3,709.68	779.92	685.97	93.95	8.302		
8,800.00	7,114.27	8,782.32	7,443.85	103.91	87.02	-178.02	1,765.39	3,721.20	791.53	699.22	92.31	8.574		
8,850.00	7,153.47	8,808.76	7,461.08	104.58	87.08	173.07	1,748.66	3,732.25	804.34	713.42	90.93	8.846		
8,900.00	7,192.85	8,835.08	7,477.56	105.21	87.13	164.04	1,731.09	3,742.83	818.06	728.33	89.73	9.117		
8,950.00	7,232.12	8,861.30	7,493.30	105.80	87.17	155.13	1,712.70	3,752.92	832.40	743.72	88.68	9.387		
9,000.00	7,270.99	8,887.45	7,508.28	106.35	87.19	146.56	1,693.53	3,762.51	847.10	759.36	87.75	9.654		
9,050.00	7,309.16	8,913.53	7,522.46	106.85	87.21	138.51	1,673.63	3,771.60	861.93	775.01	86.92	9.917		
9,100.00	7,346.32	8,939.56	7,535.85	107.30	87.21	131.10	1,653.02	3,780.17	876.65	790.46	86.19	10.171		
9,150.00	7,382.22	8,965.54	7,548.42	107.69	87.20	124.39	1,631.75	3,788.20	891.06	805.50	85.56	10.414		
9,200.00	7,416.56	8,991.48	7,560.15	108.02	87.18	118.40	1,609.85	3,795.69	904.98	819.93	85.05	10.640		
9,250.00	7,449.09	9,017.39	7,571.02	108.29	87.15	113.10	1,587.38	3,802.63	918.24	833.56	84.68	10.844		
9,300.00	7,479.56	9,050.00	7,583.47	108.51	87.10	108.34	1,558.31	3,810.56	930.73	846.58	84.16	11.059		
9,350.00	7,507.74	9,069.14	7,590.12	108.68	87.06	104.45	1,540.87	3,814.80	942.20	857.78	84.43	11.160		
9,400.00	7,533.41	9,100.00	7,599.81	108.79	87.00	100.94	1,512.23	3,820.95	952.69	868.38	84.30	11.301		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,450.00	7,556.39	9,120.81	7,605.61	108.86	86.95	98.10	1,492.58	3,824.62	961.97	877.00	84.98	11.320		
9,500.00	7,576.48	9,150.00	7,612.72	108.88	86.88	95.65	1,464.64	3,829.12	970.06	884.70	85.36	11.365		
9,550.00	7,593.55	9,172.44	7,617.37	108.86	86.81	93.72	1,442.89	3,832.04	976.81	890.35	86.46	11.298		
9,600.00	7,607.46	9,200.00	7,622.09	108.80	86.72	92.17	1,415.90	3,835.00	982.22	894.80	87.42	11.236		
9,650.00	7,618.11	9,224.03	7,625.32	108.71	86.64	91.06	1,392.17	3,837.00	986.22	897.30	88.92	11.092		
9,700.00	7,625.41	9,250.00	7,627.87	108.59	86.55	90.32	1,366.37	3,838.56	988.78	898.30	90.47	10.929		
9,750.00	7,629.30	9,275.62	7,629.41	108.45	86.46	89.97	1,340.82	3,839.47	989.88	897.59	92.28	10.727		
9,781.81	7,630.00	9,292.02	7,629.90	108.35	86.40	89.94	1,324.43	3,839.73	989.81	896.30	93.52	10.584		
9,800.00	7,630.00	9,308.95	7,630.00	108.29	86.33	89.94	1,317.45	3,839.77	989.68	895.24	94.44	10.479		
9,900.00	7,630.00	9,401.00	7,630.00	107.97	85.98	89.94	1,217.45	3,839.43	989.68	896.29	93.39	10.598		
10,000.00	7,630.00	9,501.00	7,630.00	107.67	85.62	89.94	1,117.45	3,839.10	989.68	897.27	92.41	10.710		
10,100.00	7,630.00	9,601.00	7,630.00	107.38	85.27	89.94	1,017.45	3,838.76	989.68	898.12	91.56	10.809		
10,200.00	7,630.00	9,701.00	7,630.00	107.10	84.94	89.94	917.45	3,838.43	989.68	898.84	90.84	10.895		
10,300.00	7,630.00	9,801.00	7,630.00	106.84	84.63	89.94	817.45	3,838.09	989.68	899.43	90.25	10.966		
10,400.00	7,630.00	9,901.00	7,630.00	106.59	84.34	89.94	717.45	3,837.75	989.67	899.88	89.79	11.022		
10,500.00	7,630.00	10,001.00	7,630.00	106.35	84.06	89.94	617.45	3,837.42	989.67	900.19	89.48	11.060		
10,600.00	7,630.00	10,101.00	7,630.00	106.13	83.80	89.94	517.45	3,837.08	989.67	900.37	89.30	11.082		
10,700.00	7,630.00	10,201.00	7,630.00	105.92	83.55	89.94	417.45	3,836.74	989.67	900.41	89.27	11.087		
10,800.00	7,630.00	10,301.00	7,630.00	105.72	83.33	89.94	317.46	3,836.41	989.67	900.30	89.37	11.074		
10,900.00	7,630.00	10,401.00	7,630.00	105.54	83.11	89.94	217.46	3,836.07	989.67	900.06	89.61	11.044		
11,000.00	7,630.00	10,501.00	7,630.00	105.37	82.92	89.94	117.46	3,835.74	989.67	899.67	89.99	10.997		
11,100.00	7,630.00	10,601.00	7,630.00	105.21	82.74	89.94	17.46	3,835.40	989.67	899.16	90.51	10.934		
11,200.00	7,630.00	10,701.00	7,630.00	105.06	82.59	89.94	-82.54	3,835.06	989.67	898.50	91.16	10.856		
11,300.00	7,630.00	10,801.00	7,630.00	104.93	82.45	89.94	-182.54	3,834.73	989.66	897.72	91.95	10.763		
11,400.00	7,630.00	10,901.00	7,630.00	104.82	82.33	89.94	-282.54	3,834.39	989.66	896.80	92.86	10.658		
11,500.00	7,630.00	11,001.00	7,630.00	104.72	82.22	89.94	-382.54	3,834.05	989.66	895.77	93.90	10.540		
11,600.00	7,630.00	11,099.00	7,630.00	104.63	82.14	89.94	-482.54	3,833.72	989.66	894.62	95.04	10.413		
11,700.00	7,630.00	11,201.00	7,630.00	104.55	82.08	89.94	-582.54	3,833.38	989.66	893.34	96.32	10.274		
11,800.00	7,630.00	11,301.00	7,630.00	104.50	82.04	89.94	-682.54	3,833.05	989.66	891.95	97.71	10.129		
11,900.00	7,630.00	11,401.00	7,630.00	104.45	82.02	89.94	-782.54	3,832.71	989.66	890.46	99.20	9.977		
12,000.00	7,630.00	11,501.00	7,630.00	104.43	82.03	89.94	-882.54	3,832.37	989.66	888.87	100.79	9.819		
12,100.00	7,630.00	11,599.00	7,630.00	104.42	82.06	89.94	-982.54	3,832.04	989.66	887.19	102.46	9.659		
12,200.00	7,630.00	11,701.00	7,630.00	104.42	82.12	89.94	-1,082.54	3,831.70	989.66	885.39	104.26	9.492		
12,300.00	7,630.00	11,801.00	7,630.00	104.45	82.21	89.94	-1,182.54	3,831.37	989.65	883.52	106.13	9.325		
12,400.00	7,630.00	11,901.00	7,630.00	104.49	82.33	89.94	-1,282.54	3,831.03	989.65	881.57	108.08	9.156		
12,500.00	7,630.00	11,999.00	7,630.00	104.55	82.48	89.94	-1,382.54	3,830.69	989.65	879.56	110.10	8.989		
12,600.00	7,630.00	12,101.00	7,630.00	104.63	82.67	89.94	-1,482.53	3,830.36	989.65	877.43	112.22	8.819		
12,700.00	7,630.00	12,201.00	7,630.00	104.73	82.89	89.94	-1,582.53	3,830.02	989.65	875.25	114.40	8.651		
12,800.00	7,630.00	12,301.00	7,630.00	104.85	83.15	89.94	-1,682.53	3,829.68	989.65	873.01	116.64	8.484		
12,900.00	7,630.00	12,401.00	7,630.00	104.99	83.45	89.94	-1,782.53	3,829.35	989.65	870.70	118.95	8.320		
13,000.00	7,630.00	12,501.00	7,630.00	105.15	83.79	89.94	-1,882.53	3,829.01	989.65	868.33	121.31	8.158		
13,100.00	7,630.00	12,599.00	7,630.00	105.34	84.17	89.94	-1,982.53	3,828.68	989.65	865.94	123.71	8.000		
13,200.00	7,630.00	12,701.00	7,630.00	105.56	84.62	89.94	-2,082.53	3,828.34	989.64	863.44	126.21	7.841		
13,300.00	7,630.00	12,801.00	7,630.00	105.80	85.10	89.94	-2,182.53	3,828.00	989.64	860.91	128.73	7.688		
13,400.00	7,630.00	12,901.00	7,630.00	106.06	85.64	89.94	-2,282.53	3,827.67	989.64	858.34	131.30	7.537		
13,500.00	7,630.00	13,001.00	7,630.00	106.36	86.23	89.94	-2,382.53	3,827.33	989.64	855.73	133.91	7.390		
13,600.00	7,630.00	13,101.00	7,630.00	106.68	86.87	89.94	-2,482.53	3,827.00	989.64	853.07	136.57	7.247		
13,700.00	7,630.00	13,201.00	7,630.00	107.03	87.56	89.94	-2,582.53	3,826.66	989.64	850.38	139.26	7.106		
13,800.00	7,630.00	13,301.00	7,630.00	107.42	88.31	89.94	-2,682.53	3,826.32	989.64	847.65	141.99	6.970		
13,900.00	7,630.00	13,401.00	7,630.00	107.83	89.11	89.94	-2,782.53	3,825.99	989.64	844.88	144.76	6.837		
14,000.00	7,630.00	13,499.00	7,630.00	108.28	89.94	89.94	-2,882.53	3,825.65	989.64	842.11	147.53	6.708		
14,100.00	7,630.00	13,601.00	7,630.00	108.77	90.85	89.94	-2,982.53	3,825.31	989.63	839.25	150.38	6.581		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,630.00	13,701.00	7,630.00	109.29	91.79	89.94	-3,082.53	3,824.98	989.63	836.39	153.24	6.458		
14,300.00	7,630.00	13,801.00	7,630.00	109.84	92.78	89.94	-3,182.53	3,824.64	989.63	833.50	156.13	6.339		
14,400.00	7,630.00	13,901.00	7,630.00	110.43	93.81	89.94	-3,282.52	3,824.31	989.63	830.59	159.04	6.222		
14,500.00	7,630.00	14,001.00	7,630.00	111.06	94.87	89.94	-3,382.52	3,823.97	989.63	827.65	161.98	6.110		
14,600.00	7,630.00	14,101.00	7,630.00	111.72	95.98	89.94	-3,482.52	3,823.63	989.63	824.69	164.94	6.000		
14,700.00	7,630.00	14,201.00	7,630.00	112.42	97.12	89.94	-3,582.52	3,823.30	989.63	821.71	167.92	5.893		
14,800.00	7,630.00	14,301.00	7,630.00	113.16	98.29	89.94	-3,682.52	3,822.96	989.63	818.70	170.93	5.790		
14,900.00	7,630.00	14,401.00	7,630.00	113.94	99.50	89.94	-3,782.52	3,822.62	989.63	815.68	173.95	5.689		
15,000.00	7,630.00	14,501.00	7,630.00	114.75	100.73	89.94	-3,882.52	3,822.29	989.62	812.63	176.99	5.591		
15,100.00	7,630.00	14,601.00	7,630.00	115.60	101.99	89.94	-3,982.52	3,821.95	989.62	809.57	180.05	5.496		
15,200.00	7,630.00	14,701.00	7,630.00	116.48	103.27	89.94	-4,082.52	3,821.62	989.62	806.49	183.13	5.404		
15,300.00	7,630.00	14,801.00	7,630.00	117.40	104.58	89.94	-4,182.52	3,821.28	989.62	803.40	186.22	5.314		
15,400.00	7,630.00	14,901.00	7,630.00	118.35	105.90	89.94	-4,282.52	3,820.94	989.62	800.29	189.33	5.227		
15,500.00	7,630.00	14,999.00	7,630.00	119.34	107.22	89.94	-4,382.52	3,820.61	989.62	797.19	192.42	5.143		
15,600.00	7,630.00	15,101.00	7,630.00	120.35	108.61	89.94	-4,482.52	3,820.27	989.62	794.02	195.59	5.060		
15,700.00	7,630.00	15,201.00	7,630.00	121.40	110.00	89.94	-4,582.52	3,819.94	989.62	790.87	198.75	4.979		
15,800.00	7,630.00	15,301.00	7,630.00	122.48	111.39	89.94	-4,682.52	3,819.60	989.62	787.71	201.91	4.901		
15,900.00	7,630.00	15,401.00	7,630.00	123.58	112.81	89.94	-4,782.52	3,819.26	989.62	784.53	205.09	4.825		
16,000.00	7,630.00	15,501.00	7,630.00	124.71	114.23	89.94	-4,882.52	3,818.93	989.61	781.34	208.27	4.752		
16,100.00	7,630.00	15,601.00	7,630.00	125.87	115.67	89.94	-4,982.51	3,818.59	989.61	778.14	211.47	4.680		
16,200.00	7,630.00	15,699.00	7,630.00	127.05	117.10	89.94	-5,082.51	3,818.25	989.61	774.96	214.65	4.610		
16,300.00	7,630.00	15,799.00	7,630.00	128.26	118.56	89.94	-5,182.51	3,817.92	989.61	771.74	217.87	4.542		
16,400.00	7,630.00	15,901.00	7,630.00	129.48	120.06	89.94	-5,282.51	3,817.58	989.61	768.48	221.13	4.475		
16,500.00	7,630.00	16,001.00	7,630.00	130.73	121.55	89.94	-5,382.51	3,817.25	989.61	765.24	224.37	4.411		
16,600.00	7,630.00	16,101.00	7,630.00	132.00	123.04	89.94	-5,482.51	3,816.91	989.61	761.99	227.61	4.348		
16,700.00	7,630.00	16,201.00	7,630.00	133.29	124.54	89.94	-5,582.51	3,816.57	989.61	758.74	230.87	4.286		
16,800.00	7,630.00	16,299.00	7,630.00	134.59	126.03	89.94	-5,682.51	3,816.24	989.61	755.51	234.10	4.227		
16,900.00	7,630.00	16,399.00	7,630.00	135.91	127.55	89.94	-5,782.51	3,815.90	989.60	752.23	237.37	4.169		
17,000.00	7,630.00	16,501.00	7,630.00	137.25	129.10	89.94	-5,882.51	3,815.57	989.60	748.92	240.68	4.112		
17,100.00	7,630.00	16,601.00	7,630.00	138.61	130.64	89.94	-5,982.51	3,815.23	989.60	745.63	243.97	4.056		
17,200.00	7,630.00	16,701.00	7,630.00	139.97	132.18	89.94	-6,082.51	3,814.89	989.60	742.34	247.26	4.002		
17,300.00	7,630.00	16,801.00	7,630.00	141.36	133.73	89.94	-6,182.51	3,814.56	989.60	739.04	250.56	3.950		
17,400.00	7,630.00	16,901.00	7,630.00	142.75	135.28	89.94	-6,282.51	3,814.22	989.60	735.73	253.86	3.898		
17,500.00	7,630.00	17,001.00	7,630.00	144.16	136.84	89.94	-6,382.51	3,813.88	989.60	732.42	257.18	3.848		
17,600.00	7,630.00	17,101.00	7,630.00	145.58	138.41	89.94	-6,482.51	3,813.55	989.60	729.10	260.49	3.799		
17,700.00	7,630.00	17,201.00	7,630.00	147.01	139.98	89.94	-6,582.51	3,813.21	989.60	725.78	263.82	3.751		
17,800.00	7,630.00	17,299.00	7,630.00	148.45	141.53	89.94	-6,682.51	3,812.88	989.59	722.48	267.11	3.705		
17,900.00	7,630.00	17,399.00	7,630.00	149.91	143.11	89.94	-6,782.50	3,812.54	989.59	719.15	270.45	3.659		
18,000.00	7,630.00	17,501.00	7,630.00	151.37	144.73	89.94	-6,882.50	3,812.20	989.59	715.77	273.82	3.614		
18,100.00	7,630.00	17,601.00	7,630.00	152.84	146.32	89.94	-6,982.50	3,811.87	989.59	712.43	277.16	3.570		
18,200.00	7,630.00	17,701.00	7,630.00	154.32	147.91	89.94	-7,082.50	3,811.53	989.59	709.08	280.51	3.528		
18,300.00	7,630.00	17,801.00	7,630.00	155.81	149.51	89.94	-7,182.50	3,811.19	989.59	705.73	283.86	3.486		
18,400.00	7,630.00	17,899.00	7,630.00	157.31	151.09	89.94	-7,282.50	3,810.86	989.59	702.40	287.19	3.446		
18,500.00	7,630.00	17,999.00	7,630.00	158.81	152.69	89.94	-7,382.50	3,810.52	989.59	699.04	290.55	3.406		
18,600.00	7,630.00	18,101.00	7,630.00	160.32	154.34	89.94	-7,482.50	3,810.19	989.59	695.64	293.95	3.367		
18,700.00	7,630.00	18,199.00	7,630.00	161.84	155.92	89.94	-7,582.50	3,809.85	989.58	692.30	297.28	3.329		
18,800.00	7,630.00	18,301.00	7,630.00	163.37	157.57	89.94	-7,682.50	3,809.51	989.58	688.89	300.69	3.291		
18,900.00	7,630.00	18,401.00	7,630.00	164.90	159.19	89.94	-7,782.50	3,809.18	989.58	685.52	304.07	3.255		
19,000.00	7,630.00	18,501.00	7,630.00	166.43	160.82	89.94	-7,882.50	3,808.84	989.58	682.14	307.45	3.219		
19,100.00	7,630.00	18,601.00	7,630.00	167.98	162.45	89.94	-7,982.50	3,808.51	989.58	678.75	310.83	3.184		
19,200.00	7,630.00	18,701.00	7,630.00	169.53	164.08	89.94	-8,082.50	3,808.17	989.58	675.36	314.22	3.149		
19,300.00	7,630.00	18,801.00	7,630.00	171.08	165.71	89.94	-8,182.50	3,807.83	989.58	671.97	317.61	3.116		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,630.00	18,901.00	7,630.00	172.64	167.35	89.94	-8,282.50	3,807.50	989.58	668.58	321.00	3.083	
19,500.00	7,630.00	19,001.00	7,630.00	174.21	168.99	89.94	-8,382.50	3,807.16	989.58	665.18	324.40	3.051	
19,518.56	7,630.00	19,017.56	7,630.00	174.50	169.26	89.94	-8,401.06	3,807.10	989.58	664.58	324.99	3.045 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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 11-22H-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	101.00	0.13	0.14	-90.00	0.00	-20.16	20.16	19.89	0.27	73.999		
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-20.16	20.16	19.17	0.99	20.377		
300.00	300.00	301.00	301.00	0.85	0.85	-90.00	0.00	-20.16	20.16	18.45	1.71	11.815		
400.00	400.00	401.00	401.00	1.21	1.21	-90.00	0.00	-20.16	20.16	17.74	2.42	8.319 CC, ES		
500.00	499.98	500.98	500.98	1.56	1.57	-158.53	0.00	-20.16	21.77	18.64	3.14	6.944		
600.00	599.84	600.84	600.84	1.92	1.93	-162.61	0.00	-20.16	26.71	22.86	3.85	6.940		
700.00	699.45	701.61	701.59	2.29	2.29	-166.02	0.79	-18.54	33.42	28.86	4.56	7.330		
800.00	798.70	802.62	802.45	2.67	2.65	-168.02	3.16	-13.73	40.21	34.95	5.27	7.635		
900.00	897.47	903.87	903.31	3.07	3.01	-169.22	7.10	-5.71	47.04	41.07	5.98	7.871		
1,000.00	995.62	1,005.38	1,004.03	3.50	3.39	-169.91	12.63	5.54	53.87	47.18	6.69	8.053		
1,100.00	1,093.06	1,107.13	1,104.49	3.96	3.79	-170.27	19.75	20.02	60.69	53.28	7.41	8.193		
1,200.00	1,189.64	1,209.13	1,204.55	4.46	4.22	-170.39	28.46	37.74	67.48	59.35	8.13	8.300		
1,300.00	1,285.27	1,311.37	1,304.08	5.00	4.68	-170.35	38.77	58.69	74.22	65.36	8.86	8.377		
1,400.00	1,379.82	1,413.85	1,402.95	5.60	5.18	-170.17	50.66	82.89	80.92	71.32	9.60	8.428		
1,500.00	1,473.17	1,516.58	1,501.02	6.25	5.73	-169.89	64.14	110.31	87.57	77.21	10.36	8.456		
1,600.00	1,565.21	1,619.54	1,598.16	6.95	6.33	-169.54	79.20	140.94	94.15	83.03	11.13	8.463		
1,700.00	1,655.84	1,722.74	1,694.22	7.72	6.98	-169.11	95.83	174.76	100.67	88.75	11.91	8.449		
1,800.00	1,744.94	1,826.18	1,789.08	8.55	7.70	-168.64	114.02	211.76	107.11	94.39	12.73	8.416		
1,900.00	1,832.39	1,929.84	1,882.59	9.45	8.48	-168.11	133.75	251.89	113.48	99.91	13.57	8.364		
2,000.00	1,918.11	2,033.73	1,974.62	10.41	9.34	-167.55	155.01	295.14	119.76	105.32	14.44	8.294		
2,100.00	2,001.97	2,137.83	2,065.03	11.45	10.27	-166.95	177.77	341.45	125.96	110.61	15.35	8.206		
2,200.00	2,083.88	2,242.16	2,153.69	12.56	11.27	-166.32	202.03	390.78	132.06	115.76	16.30	8.100		
2,300.00	2,163.74	2,346.70	2,240.47	13.74	12.36	-165.67	227.74	443.08	138.07	120.76	17.31	7.977		
2,400.00	2,241.45	2,450.39	2,324.43	14.99	13.50	-165.00	254.58	497.68	144.05	125.66	18.39	7.831		
2,421.22	2,257.65	2,471.55	2,341.42	15.26	13.74	-164.89	260.15	509.01	145.52	126.87	18.65	7.802		
2,500.00	2,317.63	2,550.12	2,404.51	16.29	14.64	-164.54	280.81	551.03	151.28	131.66	19.61	7.713		
2,600.00	2,393.75	2,649.85	2,484.58	17.62	15.80	-164.14	307.04	604.38	158.59	137.73	20.86	7.602		
2,700.00	2,469.88	2,749.57	2,564.65	18.95	16.97	-163.77	333.27	657.73	165.91	143.78	22.13	7.496		
2,800.00	2,546.01	2,849.30	2,644.72	20.30	18.15	-163.44	359.49	711.07	173.24	149.81	23.43	7.395		
2,900.00	2,622.13	2,949.03	2,724.80	21.65	19.35	-163.13	385.72	764.42	180.57	155.83	24.74	7.300		
3,000.00	2,698.26	3,048.75	2,804.87	23.01	20.54	-162.84	411.95	817.76	187.90	161.84	26.06	7.209		
3,100.00	2,774.38	3,148.48	2,884.94	24.37	21.75	-162.58	438.17	871.11	195.24	167.83	27.41	7.124		
3,200.00	2,850.51	3,248.20	2,965.02	25.74	22.96	-162.34	464.40	924.46	202.58	173.82	28.76	7.043		
3,300.00	2,926.64	3,347.93	3,045.09	27.11	24.17	-162.11	490.62	977.80	209.93	179.80	30.13	6.967		
3,400.00	3,002.76	3,447.66	3,125.16	28.49	25.39	-161.90	516.85	1,031.15	217.28	185.77	31.51	6.896		
3,500.00	3,078.89	3,547.38	3,205.24	29.87	26.61	-161.70	543.08	1,084.50	224.63	191.74	32.90	6.829		
3,600.00	3,155.02	3,647.11	3,285.31	31.25	27.83	-161.52	569.30	1,137.84	231.99	197.70	34.29	6.765		
3,700.00	3,231.14	3,746.84	3,365.38	32.63	29.05	-161.34	595.53	1,191.19	239.35	203.65	35.69	6.705		
3,800.00	3,307.27	3,846.56	3,445.45	34.01	30.28	-161.18	621.76	1,244.54	246.70	209.60	37.10	6.649		
3,900.00	3,383.39	3,946.29	3,525.53	35.40	31.51	-161.02	647.98	1,297.88	254.07	215.55	38.52	6.596		
4,000.00	3,459.52	4,046.02	3,605.60	36.79	32.74	-160.88	674.21	1,351.23	261.43	221.49	39.94	6.545		
4,100.00	3,535.65	4,145.74	3,685.67	38.18	33.97	-160.74	700.44	1,404.58	268.79	227.43	41.37	6.498		
4,200.00	3,611.77	4,245.47	3,765.75	39.57	35.21	-160.61	726.66	1,457.92	276.16	233.36	42.80	6.452		
4,300.00	3,687.90	4,345.20	3,845.82	40.96	36.44	-160.49	752.89	1,511.27	283.53	239.29	44.24	6.409		
4,400.00	3,764.02	4,444.92	3,925.89	42.35	37.68	-160.37	779.12	1,564.62	290.90	245.22	45.68	6.369		
4,500.00	3,840.15	4,544.65	4,005.97	43.74	38.91	-160.26	805.34	1,617.96	298.27	251.15	47.12	6.330		
4,600.00	3,916.28	4,644.37	4,086.04	45.13	40.15	-160.16	831.57	1,671.31	305.64	257.07	48.57	6.293		
4,700.00	3,992.40	4,744.10	4,166.11	46.53	41.39	-160.05	857.80	1,724.66	313.01	262.99	50.02	6.258		
4,800.00	4,068.53	4,843.83	4,246.18	47.92	42.62	-159.96	884.02	1,778.00	320.38	268.91	51.47	6.225		
4,900.00	4,144.66	4,943.55	4,326.26	49.32	43.86	-159.87	910.25	1,831.35	327.75	274.83	52.93	6.193		
5,000.00	4,220.78	5,043.28	4,406.33	50.71	45.10	-159.78	936.48	1,884.69	335.13	280.74	54.38	6.162		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,143.01	4,486.40	52.11	46.34	-159.69	962.70	1,938.04	342.50	286.66	55.85	6.133		
5,200.00	4,373.03	5,242.73	4,566.48	53.51	47.59	-159.61	988.93	1,991.39	349.88	292.57	57.31	6.105		
5,300.00	4,449.16	5,342.46	4,646.55	54.90	48.83	-159.54	1,015.15	2,044.73	357.26	298.48	58.77	6.079		
5,400.00	4,525.29	5,442.19	4,726.62	56.30	50.07	-159.46	1,041.38	2,098.08	364.63	304.39	60.24	6.053		
5,500.00	4,601.41	5,541.91	4,806.70	57.70	51.31	-159.39	1,067.61	2,151.43	372.01	310.30	61.71	6.028		
5,600.00	4,677.54	5,641.64	4,886.77	59.10	52.55	-159.32	1,093.83	2,204.77	379.39	316.21	63.18	6.005		
5,700.00	4,753.66	5,741.37	4,966.84	60.49	53.80	-159.26	1,120.06	2,258.12	386.77	322.12	64.65	5.982		
5,800.00	4,829.79	5,841.09	5,046.91	61.89	55.04	-159.19	1,146.29	2,311.47	394.15	328.02	66.12	5.961		
5,900.00	4,905.92	5,940.82	5,126.99	63.29	56.28	-159.13	1,172.51	2,364.81	401.53	333.93	67.60	5.940		
6,000.00	4,982.04	6,040.54	5,207.06	64.69	57.53	-159.07	1,198.74	2,418.16	408.91	339.83	69.08	5.920		
6,100.00	5,058.17	6,140.27	5,287.13	66.09	58.77	-159.02	1,224.97	2,471.51	416.29	345.73	70.55	5.900		
6,200.00	5,134.30	6,240.00	5,367.21	67.49	60.01	-158.96	1,251.19	2,524.85	423.67	351.64	72.03	5.882		
6,300.00	5,210.42	6,339.72	5,447.28	68.89	61.26	-158.91	1,277.42	2,578.20	431.05	357.54	73.51	5.864		
6,400.00	5,286.55	6,439.45	5,527.35	70.29	62.50	-158.86	1,303.65	2,631.55	438.43	363.44	74.99	5.846		
6,500.00	5,362.67	6,539.18	5,607.43	71.69	63.75	-158.81	1,329.87	2,684.89	445.81	369.34	76.47	5.830		
6,600.00	5,438.80	6,638.90	5,687.50	73.09	64.99	-158.76	1,356.10	2,738.24	453.20	375.24	77.96	5.813		
6,700.00	5,514.93	6,738.63	5,767.57	74.49	66.24	-158.72	1,382.33	2,791.59	460.58	381.14	79.44	5.798		
6,800.00	5,591.05	6,838.36	5,847.64	75.89	67.49	-158.67	1,408.55	2,844.93	467.96	387.04	80.93	5.783		
6,900.00	5,667.18	6,938.08	5,927.72	77.29	68.73	-158.63	1,434.78	2,898.28	475.34	392.93	82.41	5.768		
7,000.00	5,743.30	7,037.81	6,007.79	78.69	69.98	-158.59	1,461.00	2,951.62	482.73	398.83	83.90	5.754		
7,100.00	5,819.43	7,137.54	6,087.86	80.09	71.22	-158.55	1,487.23	3,004.97	490.11	404.73	85.38	5.740		
7,200.00	5,895.56	7,237.26	6,167.94	81.49	72.47	-158.51	1,513.46	3,058.32	497.50	410.62	86.87	5.727		
7,300.00	5,971.68	7,336.99	6,248.01	82.90	73.72	-158.47	1,539.68	3,111.66	504.88	416.52	88.36	5.714		
7,400.00	6,047.81	7,436.72	6,328.08	84.30	74.96	-158.43	1,565.91	3,165.01	512.26	422.42	89.85	5.701		
7,500.00	6,123.94	7,536.44	6,408.16	85.70	76.21	-158.39	1,592.14	3,218.36	519.65	428.31	91.34	5.689		
7,600.00	6,200.06	7,636.17	6,488.23	87.10	77.45	-158.36	1,618.36	3,271.70	527.03	434.20	92.83	5.677		
7,700.00	6,276.19	7,735.89	6,568.30	88.50	78.70	-158.32	1,644.59	3,325.05	534.42	440.10	94.32	5.666		
7,800.00	6,352.31	7,835.62	6,648.37	89.90	79.95	-158.29	1,670.82	3,378.40	541.80	445.99	95.81	5.655		
7,900.00	6,428.44	7,935.35	6,728.45	91.31	81.20	-158.26	1,697.04	3,431.74	549.19	451.89	97.30	5.644		
8,000.00	6,504.57	8,035.07	6,808.52	92.71	82.44	-158.23	1,723.27	3,485.09	556.57	457.78	98.79	5.634		
8,100.00	6,580.69	8,134.80	6,888.59	94.11	83.69	-158.20	1,749.50	3,538.44	563.96	463.67	100.29	5.623		
8,200.00	6,656.82	8,234.53	6,968.67	95.51	84.94	-158.17	1,775.72	3,591.78	571.35	469.56	101.78	5.613		
8,300.00	6,732.95	8,334.25	7,048.74	96.91	86.18	-158.14	1,801.95	3,645.13	578.73	475.46	103.27	5.604		
8,400.00	6,809.07	8,433.98	7,128.81	98.32	87.43	-158.11	1,828.18	3,698.48	586.12	481.35	104.77	5.594		
8,500.00	6,885.20	8,533.71	7,208.89	99.72	88.68	-158.08	1,854.40	3,751.82	593.50	487.24	106.26	5.585		
8,600.00	6,961.32	8,634.75	7,290.17	101.12	89.94	-158.12	1,880.26	3,805.97	600.86	493.22	107.64	5.582		
8,700.00	7,037.45	8,737.11	7,374.59	102.52	91.14	-159.45	1,893.09	3,862.17	607.80	501.03	106.78	5.692		
8,732.15	7,061.92	8,768.63	7,400.83	102.97	91.48	-160.19	1,893.38	3,879.62	610.06	504.12	105.94	5.758		
8,750.00	7,075.57	8,785.80	7,415.12	103.22	91.66	-162.78	1,892.81	3,889.12	611.37	505.94	105.43	5.799		
8,800.00	7,114.27	8,833.18	7,454.41	103.91	92.13	-170.32	1,888.56	3,915.24	615.27	511.20	104.07	5.912		
8,850.00	7,153.47	8,879.57	7,492.47	104.58	92.55	-178.15	1,880.64	3,940.53	619.51	516.66	102.85	6.023		
8,900.00	7,192.85	8,925.04	7,529.14	105.21	92.91	173.94	1,869.32	3,964.88	624.02	522.22	101.80	6.130		
8,950.00	7,232.12	8,969.68	7,564.32	105.80	93.23	166.15	1,854.84	3,988.23	628.73	527.81	100.92	6.230		
9,000.00	7,270.99	9,013.57	7,597.89	106.35	93.51	158.69	1,837.44	4,010.50	633.59	533.39	100.20	6.323		
9,050.00	7,309.16	9,056.79	7,629.77	106.85	93.74	151.70	1,817.35	4,031.64	638.53	538.88	99.65	6.408		
9,100.00	7,346.32	9,099.41	7,659.89	107.30	93.93	145.30	1,794.77	4,051.59	643.47	544.24	99.23	6.485		
9,150.00	7,382.22	9,141.48	7,688.18	107.69	94.07	139.53	1,769.91	4,070.32	648.36	549.41	98.95	6.553		
9,200.00	7,416.56	9,183.06	7,714.57	108.02	94.19	134.40	1,742.95	4,087.79	653.12	554.34	98.79	6.611		
9,250.00	7,449.09	9,224.22	7,739.03	108.29	94.26	129.89	1,714.08	4,103.96	657.70	558.96	98.74	6.661		
9,300.00	7,479.56	9,265.01	7,761.51	108.51	94.31	125.96	1,683.47	4,118.81	662.03	563.23	98.80	6.701		
9,350.00	7,507.74	9,305.46	7,781.96	108.68	94.33	122.57	1,651.29	4,132.30	666.07	567.10	98.97	6.730		
9,400.00	7,533.41	9,345.64	7,800.35	108.79	94.33	119.67	1,617.70	4,144.42	669.77	570.51	99.26	6.748		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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 11-22H-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	7,556.39	9,385.57	7,816.65	108.86	94.29	117.22	1,582.86	4,155.14	673.07	573.42	99.65	6.754		
9,500.00	7,576.48	9,425.30	7,830.82	108.88	94.24	115.19	1,546.93	4,164.44	675.95	575.79	100.15	6.749		
9,550.00	7,593.55	9,464.88	7,842.84	108.86	94.17	113.55	1,510.07	4,172.32	678.36	577.59	100.77	6.732		
9,600.00	7,607.46	9,504.33	7,852.69	108.80	94.09	112.28	1,472.42	4,178.74	680.29	578.80	101.49	6.703		
9,650.00	7,618.11	9,543.70	7,860.35	108.71	93.98	111.35	1,434.13	4,183.70	681.71	579.39	102.32	6.662		
9,700.00	7,625.41	9,583.01	7,865.80	108.59	93.86	110.76	1,395.36	4,187.20	682.62	579.37	103.24	6.612		
9,750.00	7,629.30	9,622.31	7,869.02	108.45	93.73	110.48	1,356.25	4,189.21	682.99	578.75	104.24	6.552		
9,781.81	7,630.00	9,647.32	7,869.90	108.35	93.65	110.48	1,331.27	4,189.71	682.95	578.04	104.90	6.510		
9,793.52	7,630.00	9,662.45	7,870.00	108.31	93.59	110.49	1,322.76	4,189.75	682.91	577.69	105.22	6.490		
9,800.00	7,630.00	9,662.31	7,870.00	108.29	93.59	110.49	1,316.28	4,189.73	682.91	577.71	105.20	6.491		
9,900.00	7,630.00	9,762.31	7,870.00	107.97	93.24	110.49	1,216.28	4,189.39	682.91	578.20	104.71	6.522		
10,000.00	7,630.00	9,862.31	7,870.00	107.67	92.90	110.49	1,116.28	4,189.05	682.91	578.60	104.31	6.547		
10,100.00	7,630.00	9,962.31	7,870.00	107.38	92.57	110.49	1,016.28	4,188.71	682.91	578.89	104.02	6.565		
10,200.00	7,630.00	10,062.31	7,870.00	107.10	92.27	110.49	916.28	4,188.38	682.91	579.07	103.85	6.576		
10,300.00	7,630.00	10,162.31	7,870.00	106.84	91.97	110.49	816.28	4,188.04	682.91	579.14	103.77	6.581		
10,400.00	7,630.00	10,262.31	7,870.00	106.59	91.70	110.49	716.28	4,187.70	682.91	579.10	103.81	6.578		
10,500.00	7,630.00	10,362.31	7,870.00	106.35	91.44	110.49	616.29	4,187.36	682.91	578.95	103.96	6.569		
10,600.00	7,630.00	10,462.31	7,870.00	106.13	91.19	110.49	516.29	4,187.03	682.91	578.70	104.21	6.553		
10,700.00	7,630.00	10,562.31	7,870.00	105.92	90.96	110.49	416.29	4,186.69	682.91	578.34	104.57	6.531		
10,800.00	7,630.00	10,662.31	7,870.00	105.72	90.75	110.49	316.29	4,186.35	682.91	577.87	105.04	6.501		
10,900.00	7,630.00	10,762.31	7,870.00	105.54	90.55	110.49	216.29	4,186.01	682.91	577.30	105.61	6.466		
11,000.00	7,630.00	10,862.31	7,870.00	105.37	90.37	110.49	116.29	4,185.68	682.91	576.62	106.29	6.425		
11,100.00	7,630.00	10,962.31	7,870.00	105.21	90.20	110.49	16.29	4,185.34	682.91	575.85	107.06	6.379		
11,200.00	7,630.00	11,062.31	7,870.00	105.06	90.05	110.49	-83.71	4,185.00	682.91	574.97	107.94	6.327		
11,300.00	7,630.00	11,162.31	7,870.00	104.93	89.92	110.49	-183.71	4,184.66	682.91	574.00	108.91	6.270		
11,400.00	7,630.00	11,262.31	7,870.00	104.82	89.81	110.49	-283.71	4,184.33	682.91	572.94	109.98	6.210		
11,500.00	7,630.00	11,362.31	7,870.00	104.72	89.71	110.49	-383.71	4,183.99	682.91	571.78	111.13	6.145		
11,600.00	7,630.00	11,462.31	7,870.00	104.63	89.63	110.49	-483.71	4,183.65	682.91	570.53	112.38	6.077		
11,700.00	7,630.00	11,562.31	7,870.00	104.55	89.57	110.49	-583.71	4,183.32	682.91	569.20	113.71	6.006		
11,800.00	7,630.00	11,662.31	7,870.00	104.50	89.52	110.49	-683.71	4,182.98	682.91	567.79	115.12	5.932		
11,900.00	7,630.00	11,762.31	7,870.00	104.45	89.50	110.49	-783.71	4,182.64	682.91	566.30	116.61	5.856		
12,000.00	7,630.00	11,862.31	7,870.00	104.43	89.50	110.49	-883.71	4,182.30	682.91	564.73	118.19	5.778		
12,100.00	7,630.00	11,962.31	7,870.00	104.42	89.52	110.49	-983.71	4,181.97	682.91	563.09	119.83	5.699		
12,200.00	7,630.00	12,062.31	7,870.00	104.42	89.56	110.49	-1,083.71	4,181.63	682.91	561.37	121.54	5.619		
12,300.00	7,630.00	12,162.31	7,870.00	104.45	89.63	110.49	-1,183.70	4,181.29	682.91	559.59	123.32	5.538		
12,400.00	7,630.00	12,262.31	7,870.00	104.49	89.72	110.49	-1,283.70	4,180.95	682.91	557.75	125.17	5.456		
12,500.00	7,630.00	12,362.31	7,870.00	104.55	89.84	110.49	-1,383.70	4,180.62	682.91	555.84	127.08	5.374		
12,600.00	7,630.00	12,462.31	7,870.00	104.63	89.99	110.49	-1,483.70	4,180.28	682.91	553.87	129.04	5.292		
12,700.00	7,630.00	12,562.31	7,870.00	104.73	90.16	110.49	-1,583.70	4,179.94	682.91	551.85	131.07	5.210		
12,800.00	7,630.00	12,662.31	7,870.00	104.85	90.37	110.49	-1,683.70	4,179.60	682.91	549.77	133.14	5.129		
12,900.00	7,630.00	12,762.31	7,870.00	104.99	90.61	110.49	-1,783.70	4,179.27	682.91	547.64	135.27	5.048		
13,000.00	7,630.00	12,862.31	7,870.00	105.15	90.88	110.49	-1,883.70	4,178.93	682.91	545.46	137.45	4.968		
13,100.00	7,630.00	12,962.31	7,870.00	105.34	91.19	110.49	-1,983.70	4,178.59	682.91	543.24	139.67	4.889		
13,200.00	7,630.00	13,062.31	7,870.00	105.56	91.53	110.49	-2,083.70	4,178.25	682.91	540.97	141.94	4.811		
13,300.00	7,630.00	13,162.31	7,870.00	105.80	91.92	110.49	-2,183.70	4,177.92	682.91	538.66	144.25	4.734		
13,400.00	7,630.00	13,262.31	7,870.00	106.06	92.35	110.49	-2,283.70	4,177.58	682.91	536.31	146.61	4.658		
13,500.00	7,630.00	13,362.31	7,870.00	106.36	92.81	110.49	-2,383.70	4,177.24	682.92	533.92	149.00	4.583		
13,600.00	7,630.00	13,462.31	7,870.00	106.68	93.32	110.49	-2,483.70	4,176.90	682.92	531.49	151.42	4.510		
13,700.00	7,630.00	13,562.31	7,870.00	107.03	93.88	110.49	-2,583.70	4,176.57	682.92	529.03	153.89	4.438		
13,800.00	7,630.00	13,662.31	7,870.00	107.42	94.48	110.49	-2,683.70	4,176.23	682.92	526.53	156.38	4.367		
13,900.00	7,630.00	13,762.31	7,870.00	107.83	95.13	110.49	-2,783.70	4,175.89	682.92	524.01	158.91	4.298		
14,000.00	7,630.00	13,862.31	7,870.00	108.28	95.82	110.49	-2,883.70	4,175.55	682.92	521.45	161.47	4.229		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	13,962.31	7,870.00	108.77	96.55	110.49	-2,983.69	4,175.22	682.92	518.86	164.05	4.163		
14,200.00	7,630.00	14,062.31	7,870.00	109.29	97.34	110.49	-3,083.69	4,174.88	682.92	516.25	166.67	4.098		
14,300.00	7,630.00	14,162.31	7,870.00	109.84	98.16	110.49	-3,183.69	4,174.54	682.92	513.61	169.31	4.034		
14,400.00	7,630.00	14,262.31	7,870.00	110.43	99.03	110.49	-3,283.69	4,174.21	682.92	510.95	171.97	3.971		
14,500.00	7,630.00	14,362.31	7,870.00	111.06	99.94	110.49	-3,383.69	4,173.87	682.92	508.26	174.66	3.910		
14,600.00	7,630.00	14,462.31	7,870.00	111.72	100.89	110.49	-3,483.69	4,173.53	682.92	505.55	177.37	3.850		
14,700.00	7,630.00	14,562.31	7,870.00	112.42	101.88	110.49	-3,583.69	4,173.19	682.92	502.81	180.10	3.792		
14,800.00	7,630.00	14,662.31	7,870.00	113.16	102.91	110.49	-3,683.69	4,172.86	682.92	500.06	182.86	3.735		
14,900.00	7,630.00	14,762.31	7,870.00	113.94	103.97	110.49	-3,783.69	4,172.52	682.92	497.29	185.63	3.679		
15,000.00	7,630.00	14,862.31	7,870.00	114.75	105.07	110.49	-3,883.69	4,172.18	682.92	494.49	188.42	3.624		
15,100.00	7,630.00	14,962.31	7,870.00	115.60	106.20	110.49	-3,983.69	4,171.84	682.92	491.68	191.24	3.571		
15,200.00	7,630.00	15,062.31	7,870.00	116.48	107.36	110.49	-4,083.69	4,171.51	682.92	488.85	194.06	3.519		
15,300.00	7,630.00	15,162.31	7,870.00	117.40	108.55	110.49	-4,183.69	4,171.17	682.92	486.01	196.91	3.468		
15,400.00	7,630.00	15,262.31	7,870.00	118.35	109.76	110.49	-4,283.69	4,170.83	682.92	483.15	199.77	3.419		
15,500.00	7,630.00	15,362.31	7,870.00	119.34	111.00	110.49	-4,383.69	4,170.49	682.92	480.27	202.65	3.370		
15,600.00	7,630.00	15,462.31	7,870.00	120.35	112.26	110.49	-4,483.69	4,170.16	682.92	477.38	205.54	3.323		
15,700.00	7,630.00	15,562.31	7,870.00	121.40	113.54	110.49	-4,583.69	4,169.82	682.92	474.48	208.44	3.276		
15,800.00	7,630.00	15,662.31	7,870.00	122.48	114.85	110.49	-4,683.68	4,169.48	682.92	471.56	211.36	3.231		
15,900.00	7,630.00	15,762.31	7,870.00	123.58	116.17	110.49	-4,783.68	4,169.14	682.92	468.63	214.29	3.187		
16,000.00	7,630.00	15,862.31	7,870.00	124.71	117.51	110.49	-4,883.68	4,168.81	682.92	465.69	217.23	3.144		
16,100.00	7,630.00	15,962.31	7,870.00	125.87	118.87	110.49	-4,983.68	4,168.47	682.92	462.73	220.19	3.102		
16,200.00	7,630.00	16,062.31	7,870.00	127.05	120.25	110.49	-5,083.68	4,168.13	682.92	459.76	223.15	3.060		
16,300.00	7,630.00	16,162.31	7,870.00	128.26	121.64	110.49	-5,183.68	4,167.79	682.92	456.79	226.13	3.020		
16,400.00	7,630.00	16,262.31	7,870.00	129.48	123.04	110.49	-5,283.68	4,167.46	682.92	453.80	229.12	2.981		
16,500.00	7,630.00	16,362.31	7,870.00	130.73	124.46	110.49	-5,383.68	4,167.12	682.92	450.80	232.12	2.942		
16,600.00	7,630.00	16,462.31	7,870.00	132.00	125.89	110.49	-5,483.68	4,166.78	682.92	447.79	235.12	2.904		
16,700.00	7,630.00	16,562.31	7,870.00	133.29	127.33	110.49	-5,583.68	4,166.44	682.92	444.78	238.14	2.868		
16,800.00	7,630.00	16,662.31	7,870.00	134.59	128.79	110.49	-5,683.68	4,166.11	682.92	441.75	241.17	2.832		
16,900.00	7,630.00	16,762.31	7,870.00	135.91	130.25	110.49	-5,783.68	4,165.77	682.92	438.72	244.20	2.797		
17,000.00	7,630.00	16,862.31	7,870.00	137.25	131.73	110.49	-5,883.68	4,165.43	682.92	435.68	247.25	2.762		
17,100.00	7,630.00	16,962.31	7,870.00	138.61	133.21	110.49	-5,983.68	4,165.10	682.92	432.62	250.30	2.728		
17,200.00	7,630.00	17,062.31	7,870.00	139.97	134.70	110.49	-6,083.68	4,164.76	682.92	429.57	253.35	2.696		
17,300.00	7,630.00	17,162.31	7,870.00	141.36	136.20	110.49	-6,183.68	4,164.42	682.92	426.50	256.42	2.663		
17,400.00	7,630.00	17,262.31	7,870.00	142.75	137.71	110.49	-6,283.68	4,164.08	682.92	423.43	259.49	2.632		
17,500.00	7,630.00	17,362.31	7,870.00	144.16	139.23	110.49	-6,383.68	4,163.75	682.92	420.35	262.57	2.601		
17,600.00	7,630.00	17,462.31	7,870.00	145.58	140.75	110.49	-6,483.67	4,163.41	682.92	417.26	265.66	2.571		
17,700.00	7,630.00	17,562.31	7,870.00	147.01	142.29	110.49	-6,583.67	4,163.07	682.92	414.17	268.75	2.541		
17,800.00	7,630.00	17,662.31	7,870.00	148.45	143.82	110.49	-6,683.67	4,162.73	682.92	411.07	271.85	2.512		
17,900.00	7,630.00	17,762.31	7,870.00	149.91	145.37	110.49	-6,783.67	4,162.40	682.92	407.96	274.96	2.484		
18,000.00	7,630.00	17,862.31	7,870.00	151.37	146.92	110.49	-6,883.67	4,162.06	682.92	404.85	278.07	2.456		
18,100.00	7,630.00	17,962.31	7,870.00	152.84	148.47	110.49	-6,983.67	4,161.72	682.92	401.73	281.19	2.429		
18,200.00	7,630.00	18,062.31	7,870.00	154.32	150.04	110.49	-7,083.67	4,161.38	682.92	398.61	284.31	2.402		
18,300.00	7,630.00	18,162.31	7,870.00	155.81	151.60	110.49	-7,183.67	4,161.05	682.92	395.48	287.44	2.376		
18,400.00	7,630.00	18,262.31	7,870.00	157.31	153.18	110.49	-7,283.67	4,160.71	682.92	392.35	290.57	2.350		
18,500.00	7,630.00	18,362.31	7,870.00	158.81	154.75	110.49	-7,383.67	4,160.37	682.92	389.21	293.71	2.325		
18,600.00	7,630.00	18,462.31	7,870.00	160.32	156.33	110.49	-7,483.67	4,160.03	682.92	386.07	296.85	2.301		
18,700.00	7,630.00	18,562.31	7,870.00	161.84	157.92	110.49	-7,583.67	4,159.70	682.92	382.92	300.00	2.276		
18,800.00	7,630.00	18,662.31	7,870.00	163.37	159.51	110.49	-7,683.67	4,159.36	682.92	379.77	303.15	2.253		
18,900.00	7,630.00	18,762.31	7,870.00	164.90	161.11	110.49	-7,783.67	4,159.02	682.92	376.61	306.31	2.230		
19,000.00	7,630.00	18,862.31	7,870.00	166.43	162.71	110.49	-7,883.67	4,158.68	682.92	373.45	309.47	2.207		
19,100.00	7,630.00	18,962.31	7,870.00	167.98	164.31	110.49	-7,983.67	4,158.35	682.92	370.29	312.64	2.184		
19,200.00	7,630.00	19,062.31	7,870.00	169.53	165.91	110.49	-8,083.67	4,158.01	682.92	367.12	315.80	2.162		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	19,162.31	7,870.00	171.08	167.52	110.49	-8,183.67	4,157.67	682.92	363.95	318.98	2.141	
19,400.00	7,630.00	19,262.31	7,870.00	172.64	169.14	110.49	-8,283.66	4,157.33	682.92	360.77	322.15	2.120	
19,500.00	7,630.00	19,362.31	7,870.00	174.21	170.75	110.49	-8,383.66	4,157.00	682.92	357.59	325.33	2.099	
19,518.56	7,630.00	19,380.87	7,870.00	174.50	171.05	110.49	-8,402.23	4,156.93	682.92	357.00	325.92	2.095 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-10.08	10.08					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-10.08	10.08	9.81	0.27	37.493		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-10.08	10.08	9.09	0.99	10.225		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-10.08	10.08	8.38	1.70	5.920		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-10.08	10.08	7.66	2.42	4.166 CC		
500.00	499.98	499.98	499.98	1.56	1.57	-160.09	0.00	-10.08	11.70	8.57	3.13	3.737		
600.00	599.84	600.36	600.34	1.92	1.92	-164.47	0.73	-8.48	15.04	11.20	3.84	3.917		
700.00	699.45	700.87	700.70	2.29	2.28	-166.98	2.94	-3.68	18.43	13.89	4.54	4.058		
800.00	798.70	801.50	800.94	2.67	2.65	-168.48	6.61	4.33	21.85	16.60	5.25	4.163		
900.00	897.47	902.25	900.93	3.07	3.03	-169.37	11.76	15.54	25.27	19.32	5.96	4.243		
1,000.00	995.62	1,003.12	1,000.54	3.50	3.43	-169.88	18.38	29.97	28.69	22.02	6.67	4.302		
1,100.00	1,093.06	1,104.11	1,099.64	3.96	3.85	-170.12	26.47	47.60	32.08	24.70	7.38	4.345		
1,200.00	1,189.64	1,205.22	1,198.12	4.46	4.31	-170.17	36.02	68.42	35.46	27.36	8.11	4.375		
1,300.00	1,285.27	1,306.45	1,295.84	5.00	4.82	-170.08	47.03	92.41	38.81	29.98	8.84	4.392		
1,400.00	1,379.82	1,407.80	1,392.69	5.60	5.36	-169.88	59.49	119.56	42.14	32.56	9.58	4.399		
1,500.00	1,473.17	1,509.27	1,488.52	6.25	5.96	-169.59	73.38	149.84	45.43	35.09	10.34	4.395		
1,600.00	1,565.21	1,610.85	1,583.22	6.95	6.60	-169.24	88.70	183.23	48.68	37.57	11.11	4.383		
1,700.00	1,655.84	1,712.54	1,676.66	7.72	7.32	-168.84	105.43	219.68	51.90	40.00	11.90	4.361		
1,800.00	1,744.94	1,814.34	1,768.72	8.55	8.10	-168.38	123.55	259.18	55.07	42.36	12.72	4.331		
1,900.00	1,832.39	1,916.26	1,859.27	9.45	8.94	-167.89	143.05	301.67	58.20	44.64	13.56	4.292		
2,000.00	1,918.11	2,018.28	1,948.19	10.41	9.85	-167.36	163.90	347.11	61.29	46.85	14.44	4.246		
2,100.00	2,001.97	2,120.40	2,035.37	11.45	10.84	-166.80	186.08	395.45	64.32	48.97	15.35	4.191		
2,200.00	2,083.88	2,222.63	2,120.68	12.56	11.90	-166.22	209.57	446.63	67.31	51.00	16.30	4.128		
2,300.00	2,163.74	2,324.95	2,204.00	13.74	13.03	-165.61	234.34	500.60	70.24	52.93	17.31	4.058		
2,400.00	2,241.45	2,427.37	2,285.23	14.99	14.24	-164.98	260.35	557.30	73.12	54.75	18.36	3.981		
2,421.22	2,257.65	2,448.68	2,301.88	15.26	14.50	-164.85	265.90	569.39	73.77	55.15	18.62	3.961		
2,500.00	2,317.63	2,527.42	2,363.38	16.29	15.47	-164.48	286.40	614.06	76.47	56.86	19.61	3.900		
2,600.00	2,393.75	2,627.36	2,441.45	17.62	16.71	-164.05	312.42	670.77	79.90	59.01	20.88	3.826		
2,700.00	2,469.88	2,727.30	2,519.52	18.95	17.97	-163.66	338.44	727.48	83.33	61.15	22.19	3.756		
2,800.00	2,546.01	2,827.24	2,597.59	20.30	19.24	-163.29	364.47	784.19	86.77	63.26	23.51	3.691		
2,900.00	2,622.13	2,927.18	2,675.66	21.65	20.52	-162.96	390.49	840.90	90.21	65.35	24.86	3.629		
3,000.00	2,698.26	3,027.12	2,753.73	23.01	21.80	-162.64	416.51	897.61	93.65	67.43	26.22	3.572		
3,100.00	2,774.38	3,127.05	2,831.80	24.37	23.09	-162.35	442.53	954.32	97.10	69.50	27.60	3.518		
3,200.00	2,850.51	3,226.99	2,909.87	25.74	24.38	-162.08	468.55	1,011.03	100.55	71.55	28.99	3.468		
3,300.00	2,926.64	3,326.93	2,987.94	27.11	25.68	-161.83	494.58	1,067.73	104.00	73.60	30.40	3.421		
3,400.00	3,002.76	3,426.87	3,066.01	28.49	26.98	-161.60	520.60	1,124.44	107.45	75.63	31.82	3.377		
3,500.00	3,078.89	3,526.81	3,144.08	29.87	28.29	-161.37	546.62	1,181.15	110.90	77.66	33.24	3.336		
3,600.00	3,155.02	3,626.75	3,222.15	31.25	29.59	-161.17	572.64	1,237.86	114.36	79.68	34.68	3.298		
3,700.00	3,231.14	3,726.69	3,300.22	32.63	30.90	-160.97	598.66	1,294.57	117.82	81.69	36.12	3.261		
3,800.00	3,307.27	3,826.63	3,378.29	34.01	32.21	-160.79	624.68	1,351.28	121.27	83.70	37.58	3.227		
3,900.00	3,383.39	3,926.57	3,456.36	35.40	33.53	-160.61	650.71	1,407.99	124.73	85.70	39.04	3.195		
4,000.00	3,459.52	4,026.51	3,534.43	36.79	34.84	-160.45	676.73	1,464.70	128.19	87.69	40.50	3.165		
4,100.00	3,535.65	4,126.45	3,612.50	38.18	36.15	-160.29	702.75	1,521.40	131.65	89.68	41.98	3.136		
4,200.00	3,611.77	4,226.39	3,690.57	39.57	37.47	-160.14	728.77	1,578.11	135.12	91.66	43.45	3.110		
4,300.00	3,687.90	4,326.33	3,768.64	40.96	38.79	-160.00	754.79	1,634.82	138.58	93.65	44.93	3.084		
4,400.00	3,764.02	4,426.27	3,846.71	42.35	40.11	-159.87	780.82	1,691.53	142.04	95.62	46.42	3.060		
4,500.00	3,840.15	4,526.21	3,924.78	43.74	41.43	-159.74	806.84	1,748.24	145.51	97.60	47.91	3.037		
4,600.00	3,916.28	4,626.15	4,002.85	45.13	42.75	-159.62	832.86	1,804.95	148.97	99.57	49.41	3.015		
4,700.00	3,992.40	4,726.09	4,080.92	46.53	44.07	-159.50	858.88	1,861.66	152.44	101.54	50.91	2.995		
4,800.00	4,068.53	4,826.03	4,158.99	47.92	45.39	-159.39	884.90	1,918.37	155.91	103.50	52.41	2.975		
4,900.00	4,144.66	4,925.96	4,237.06	49.32	46.71	-159.29	910.93	1,975.07	159.37	105.46	53.91	2.956		
5,000.00	4,220.78	5,025.90	4,315.13	50.71	48.03	-159.18	936.95	2,031.78	162.84	107.42	55.42	2.938		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,125.84	4,393.19	52.11	49.36	-159.09	962.97	2,088.49	166.31	109.38	56.93	2.921		
5,200.00	4,373.03	5,225.78	4,471.26	53.51	50.68	-158.99	988.99	2,145.20	169.78	111.34	58.44	2.905		
5,300.00	4,449.16	5,325.72	4,549.33	54.90	52.01	-158.90	1,015.01	2,201.91	173.25	113.29	59.96	2.890		
5,400.00	4,525.29	5,425.66	4,627.40	56.30	53.33	-158.82	1,041.03	2,258.62	176.72	115.24	61.48	2.875		
5,500.00	4,601.41	5,525.60	4,705.47	57.70	54.66	-158.74	1,067.06	2,315.33	180.19	117.19	62.99	2.860		
5,600.00	4,677.54	5,625.54	4,783.54	59.10	55.98	-158.66	1,093.08	2,372.04	183.66	119.14	64.52	2.847		
5,700.00	4,753.66	5,725.48	4,861.61	60.49	57.31	-158.58	1,119.10	2,428.74	187.13	121.09	66.04	2.834		
5,800.00	4,829.79	5,825.42	4,939.68	61.89	58.63	-158.51	1,145.12	2,485.45	190.60	123.03	67.56	2.821		
5,900.00	4,905.92	5,925.36	5,017.75	63.29	59.96	-158.43	1,171.14	2,542.16	194.07	124.98	69.09	2.809		
6,000.00	4,982.04	6,025.30	5,095.82	64.69	61.29	-158.37	1,197.17	2,598.87	197.54	126.92	70.62	2.797		
6,100.00	5,058.17	6,125.24	5,173.89	66.09	62.61	-158.30	1,223.19	2,655.58	201.01	128.86	72.15	2.786		
6,200.00	5,134.30	6,225.18	5,251.96	67.49	63.94	-158.23	1,249.21	2,712.29	204.49	130.81	73.68	2.775		
6,300.00	5,210.42	6,325.12	5,330.03	68.89	65.27	-158.17	1,275.23	2,769.00	207.96	132.75	75.21	2.765		
6,400.00	5,286.55	6,425.06	5,408.10	70.29	66.59	-158.11	1,301.25	2,825.71	211.43	134.68	76.75	2.755		
6,500.00	5,362.67	6,525.00	5,486.17	71.69	67.92	-158.05	1,327.28	2,882.41	214.90	136.62	78.28	2.745		
6,600.00	5,438.80	6,624.94	5,564.24	73.09	69.25	-158.00	1,353.30	2,939.12	218.38	138.56	79.82	2.736		
6,700.00	5,514.93	6,724.87	5,642.31	74.49	70.58	-157.94	1,379.32	2,995.83	221.85	140.49	81.35	2.727		
6,800.00	5,591.05	6,824.81	5,720.38	75.89	71.91	-157.89	1,405.34	3,052.54	225.32	142.43	82.89	2.718		
6,900.00	5,667.18	6,924.75	5,798.45	77.29	73.23	-157.84	1,431.36	3,109.25	228.80	144.36	84.43	2.710		
7,000.00	5,743.30	7,024.69	5,876.52	78.69	74.56	-157.79	1,457.38	3,165.96	232.27	146.30	85.97	2.702		
7,100.00	5,819.43	7,124.63	5,954.59	80.09	75.89	-157.74	1,483.41	3,222.67	235.74	148.23	87.51	2.694		
7,200.00	5,895.56	7,224.57	6,032.66	81.49	77.22	-157.70	1,509.43	3,279.38	239.22	150.16	89.05	2.686		
7,300.00	5,971.68	7,324.51	6,110.73	82.90	78.55	-157.65	1,535.45	3,336.08	242.69	152.10	90.60	2.679		
7,400.00	6,047.81	7,424.45	6,188.80	84.30	79.88	-157.61	1,561.47	3,392.79	246.17	154.03	92.14	2.672		
7,500.00	6,123.94	7,524.39	6,266.87	85.70	81.21	-157.56	1,587.49	3,449.50	249.64	155.96	93.68	2.665		
7,600.00	6,200.06	7,624.33	6,344.94	87.10	82.54	-157.52	1,613.52	3,506.21	253.12	157.89	95.23	2.658		
7,700.00	6,276.19	7,724.27	6,423.01	88.50	83.87	-157.48	1,639.54	3,562.92	256.59	159.82	96.78	2.651		
7,800.00	6,352.31	7,824.21	6,501.08	89.90	85.20	-157.44	1,665.56	3,619.63	260.07	161.74	98.32	2.645		
7,900.00	6,428.44	7,924.15	6,579.15	91.31	86.53	-157.40	1,691.58	3,676.34	263.54	163.67	99.87	2.639		
8,000.00	6,504.57	8,024.09	6,657.22	92.71	87.85	-157.37	1,717.60	3,733.05	267.02	165.60	101.42	2.633		
8,100.00	6,580.69	8,124.03	6,735.29	94.11	89.18	-157.33	1,743.62	3,789.75	270.49	167.53	102.96	2.627		
8,200.00	6,656.82	8,223.97	6,813.36	95.51	90.51	-157.29	1,769.65	3,846.46	273.97	169.46	104.51	2.621		
8,300.00	6,732.95	8,323.91	6,891.42	96.91	91.84	-157.26	1,795.67	3,903.17	277.44	171.38	106.06	2.616		
8,400.00	6,809.07	8,423.85	6,969.49	98.32	93.17	-157.23	1,821.69	3,959.88	280.92	173.31	107.61	2.611		
8,500.00	6,885.20	8,523.78	7,047.56	99.72	94.50	-157.19	1,847.71	4,016.59	284.39	175.23	109.16	2.605		
8,600.00	6,961.32	8,623.72	7,125.63	101.12	95.83	-157.16	1,873.73	4,073.30	287.87	177.16	110.71	2.600		
8,700.00	7,037.45	8,726.00	7,206.47	102.52	97.17	-158.17	1,895.17	4,131.99	291.03	180.66	110.36	2.637		
8,732.15	7,061.92	8,758.45	7,232.60	102.97	97.58	-159.20	1,898.37	4,150.96	291.91	182.91	109.00	2.678		
8,750.00	7,075.57	8,776.24	7,246.97	103.22	97.79	-161.93	1,899.35	4,161.39	292.43	184.33	108.10	2.705		
8,800.00	7,114.27	8,825.52	7,286.85	103.91	98.37	-169.85	1,899.17	4,190.31	294.12	188.40	105.71	2.782		
8,850.00	7,153.47	8,874.02	7,325.96	104.58	98.89	-178.05	1,894.87	4,218.66	296.12	192.52	103.59	2.858		
8,900.00	7,192.85	8,921.80	7,364.06	105.21	99.37	173.68	1,886.65	4,246.26	298.40	196.61	101.79	2.932		
8,950.00	7,232.12	8,968.90	7,400.96	105.80	99.80	165.54	1,874.74	4,272.98	300.92	200.61	100.31	3.000		
9,000.00	7,270.99	9,015.37	7,436.48	106.35	100.17	157.75	1,859.36	4,298.69	303.64	204.50	99.13	3.063		
9,050.00	7,309.16	9,061.26	7,470.45	106.85	100.49	150.46	1,840.74	4,323.26	306.50	208.26	98.24	3.120		
9,100.00	7,346.32	9,106.62	7,502.73	107.30	100.77	143.78	1,819.10	4,346.61	309.46	211.88	97.58	3.171		
9,150.00	7,382.22	9,151.48	7,533.22	107.69	101.00	137.76	1,794.65	4,368.63	312.45	215.34	97.11	3.218		
9,200.00	7,416.56	9,195.90	7,561.78	108.02	101.18	132.40	1,767.63	4,389.26	315.43	218.63	96.79	3.259		
9,250.00	7,449.09	9,239.91	7,588.34	108.29	101.31	127.69	1,738.24	4,408.42	318.34	221.72	96.62	3.295		
9,300.00	7,479.56	9,283.57	7,612.81	108.51	101.41	123.57	1,706.69	4,426.06	321.14	224.56	96.59	3.325		
9,350.00	7,507.74	9,326.91	7,635.11	108.68	101.47	120.02	1,673.19	4,442.12	323.78	227.09	96.69	3.349		
9,400.00	7,533.41	9,369.97	7,655.17	108.79	101.50	116.99	1,637.94	4,456.55	326.22	229.27	96.95	3.365		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	9,412.78	7,672.95	108.86	101.50	114.42	1,601.15	4,469.32	328.42	231.03	97.38	3.372		
9,500.00	7,576.48	9,455.40	7,688.38	108.88	101.48	112.30	1,563.01	4,480.38	330.34	232.33	98.01	3.370		
9,550.00	7,593.55	9,497.85	7,701.44	108.86	101.42	110.58	1,523.73	4,489.72	331.96	233.11	98.86	3.358		
9,600.00	7,607.46	9,540.17	7,712.08	108.80	101.34	109.25	1,483.49	4,497.30	333.26	233.34	99.92	3.335		
9,650.00	7,618.11	9,582.39	7,720.27	108.71	101.25	108.28	1,442.48	4,503.10	334.21	233.00	101.21	3.302		
9,700.00	7,625.41	9,624.55	7,725.99	108.59	101.13	107.65	1,400.92	4,507.11	334.81	232.10	102.71	3.260		
9,750.00	7,629.30	9,666.68	7,729.22	108.45	101.00	107.37	1,358.98	4,509.31	335.05	230.66	104.39	3.210		
9,780.00	7,630.00	9,709.48	7,730.00	108.36	100.86	107.37	1,335.20	4,509.79	334.99	229.18	105.81	3.166		
9,781.81	7,630.00	9,707.67	7,730.00	108.35	100.87	107.37	1,333.40	4,509.79	334.99	229.18	105.81	3.166		
9,800.00	7,630.00	9,710.47	7,730.00	108.29	100.86	107.37	1,315.21	4,509.73	334.99	229.25	105.75	3.168		
9,900.00	7,630.00	9,810.47	7,730.00	107.97	100.52	107.37	1,215.21	4,509.39	335.00	229.84	105.16	3.186		
10,000.00	7,630.00	9,910.47	7,730.00	107.67	100.20	107.37	1,115.21	4,509.05	335.00	230.33	104.67	3.200		
10,100.00	7,630.00	10,010.47	7,730.00	107.38	99.90	107.37	1,015.21	4,508.71	335.00	230.70	104.30	3.212		
10,200.00	7,630.00	10,110.47	7,730.00	107.10	99.61	107.37	915.21	4,508.37	335.00	230.97	104.03	3.220		
10,300.00	7,630.00	10,210.47	7,730.00	106.84	99.33	107.37	815.21	4,508.03	335.00	231.12	103.88	3.225		
10,400.00	7,630.00	10,310.47	7,730.00	106.59	99.07	107.37	715.21	4,507.69	335.00	231.17	103.84	3.226		
10,500.00	7,630.00	10,410.47	7,730.00	106.35	98.82	107.37	615.21	4,507.35	335.00	231.10	103.91	3.224		
10,600.00	7,630.00	10,510.47	7,730.00	106.13	98.58	107.37	515.21	4,507.02	335.01	230.92	104.09	3.218		
10,700.00	7,630.00	10,610.47	7,730.00	105.92	98.36	107.37	415.21	4,506.68	335.01	230.63	104.38	3.209		
10,800.00	7,630.00	10,710.47	7,730.00	105.72	98.16	107.37	315.21	4,506.34	335.01	230.22	104.78	3.197		
10,900.00	7,630.00	10,810.47	7,730.00	105.54	97.97	107.37	215.21	4,506.00	335.01	229.72	105.30	3.182		
11,000.00	7,630.00	10,910.47	7,730.00	105.37	97.79	107.37	115.21	4,505.66	335.01	229.10	105.91	3.163		
11,100.00	7,630.00	11,010.47	7,730.00	105.21	97.63	107.37	15.21	4,505.32	335.01	228.38	106.64	3.142		
11,200.00	7,630.00	11,110.47	7,730.00	105.06	97.48	107.37	-84.79	4,504.98	335.01	227.55	107.46	3.117		
11,300.00	7,630.00	11,210.47	7,730.00	104.93	97.35	107.37	-184.79	4,504.64	335.02	226.62	108.39	3.091		
11,400.00	7,630.00	11,310.47	7,730.00	104.82	97.23	107.37	-284.79	4,504.31	335.02	225.60	109.42	3.062		
11,500.00	7,630.00	11,410.47	7,730.00	104.72	97.13	107.37	-384.78	4,503.97	335.02	224.48	110.54	3.031		
11,600.00	7,630.00	11,510.47	7,730.00	104.63	97.05	107.37	-484.78	4,503.63	335.02	223.27	111.75	2.998		
11,700.00	7,630.00	11,610.47	7,730.00	104.55	96.98	107.37	-584.78	4,503.29	335.02	221.97	113.06	2.963		
11,800.00	7,630.00	11,710.47	7,730.00	104.50	96.93	107.37	-684.78	4,502.95	335.02	220.58	114.45	2.927		
11,900.00	7,630.00	11,810.47	7,730.00	104.45	96.89	107.37	-784.78	4,502.61	335.02	219.10	115.92	2.890		
12,000.00	7,630.00	11,910.47	7,730.00	104.43	96.88	107.37	-884.78	4,502.27	335.03	217.55	117.47	2.852		
12,100.00	7,630.00	12,010.47	7,730.00	104.42	96.88	107.37	-984.78	4,501.93	335.03	215.92	119.11	2.813		
12,200.00	7,630.00	12,110.47	7,730.00	104.42	96.90	107.37	-1,084.78	4,501.60	335.03	214.22	120.81	2.773		
12,300.00	7,630.00	12,210.47	7,730.00	104.45	96.94	107.37	-1,184.78	4,501.26	335.03	212.44	122.59	2.733		
12,400.00	7,630.00	12,310.47	7,730.00	104.49	97.00	107.37	-1,284.78	4,500.92	335.03	210.60	124.43	2.693		
12,500.00	7,630.00	12,410.47	7,730.00	104.55	97.09	107.37	-1,384.78	4,500.58	335.03	208.69	126.34	2.652		
12,600.00	7,630.00	12,510.47	7,730.00	104.63	97.19	107.37	-1,484.78	4,500.24	335.03	206.72	128.31	2.611		
12,700.00	7,630.00	12,610.47	7,730.00	104.73	97.33	107.37	-1,584.78	4,499.90	335.04	204.70	130.34	2.570		
12,800.00	7,630.00	12,710.47	7,730.00	104.85	97.48	107.37	-1,684.78	4,499.56	335.04	202.61	132.43	2.530		
12,900.00	7,630.00	12,810.47	7,730.00	104.99	97.66	107.37	-1,784.78	4,499.22	335.04	200.47	134.57	2.490		
13,000.00	7,630.00	12,910.47	7,730.00	105.15	97.87	107.37	-1,884.78	4,498.89	335.04	198.28	136.76	2.450		
13,100.00	7,630.00	13,010.47	7,730.00	105.34	98.11	107.37	-1,984.78	4,498.55	335.04	196.04	139.00	2.410		
13,200.00	7,630.00	13,110.47	7,730.00	105.56	98.38	107.37	-2,084.77	4,498.21	335.04	193.75	141.29	2.371		
13,300.00	7,630.00	13,210.47	7,730.00	105.80	98.68	107.37	-2,184.77	4,497.87	335.05	191.42	143.62	2.333		
13,400.00	7,630.00	13,310.47	7,730.00	106.06	99.01	107.37	-2,284.77	4,497.53	335.05	189.05	146.00	2.295		
13,500.00	7,630.00	13,410.47	7,730.00	106.36	99.38	107.37	-2,384.77	4,497.19	335.05	186.64	148.41	2.258		
13,600.00	7,630.00	13,510.47	7,730.00	106.68	99.78	107.37	-2,484.77	4,496.85	335.05	184.19	150.86	2.221		
13,700.00	7,630.00	13,610.47	7,730.00	107.03	100.22	107.37	-2,584.77	4,496.51	335.05	181.70	153.35	2.185		
13,800.00	7,630.00	13,710.47	7,730.00	107.42	100.70	107.37	-2,684.77	4,496.18	335.05	179.18	155.87	2.149		
13,900.00	7,630.00	13,810.47	7,730.00	107.83	101.21	107.37	-2,784.77	4,495.84	335.05	176.62	158.43	2.115		
14,000.00	7,630.00	13,910.47	7,730.00	108.28	101.77	107.37	-2,884.77	4,495.50	335.06	174.04	161.02	2.081		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	14,010.47	7,730.00	108.77	102.36	107.36	-2,984.77	4,495.16	335.06	171.42	163.64	2.048		
14,200.00	7,630.00	14,110.47	7,730.00	109.29	103.00	107.36	-3,084.77	4,494.82	335.06	168.77	166.29	2.015		
14,300.00	7,630.00	14,210.47	7,730.00	109.84	103.67	107.36	-3,184.77	4,494.48	335.06	166.10	168.96	1.983		
14,400.00	7,630.00	14,310.47	7,730.00	110.43	104.39	107.36	-3,284.77	4,494.14	335.06	163.40	171.66	1.952		
14,500.00	7,630.00	14,410.47	7,730.00	111.06	105.15	107.36	-3,384.77	4,493.80	335.06	160.68	174.38	1.921		
14,600.00	7,630.00	14,510.47	7,730.00	111.72	105.95	107.36	-3,484.77	4,493.46	335.06	157.93	177.13	1.892		
14,700.00	7,630.00	14,610.47	7,730.00	112.42	106.79	107.36	-3,584.77	4,493.13	335.07	155.16	179.90	1.862		
14,800.00	7,630.00	14,710.47	7,730.00	113.16	107.67	107.36	-3,684.77	4,492.79	335.07	152.37	182.70	1.834		
14,900.00	7,630.00	14,810.47	7,730.00	113.94	108.58	107.36	-3,784.77	4,492.45	335.07	149.56	185.51	1.806		
15,000.00	7,630.00	14,910.47	7,730.00	114.75	109.53	107.36	-3,884.76	4,492.11	335.07	146.73	188.34	1.779		
15,100.00	7,630.00	15,010.47	7,730.00	115.60	110.52	107.36	-3,984.76	4,491.77	335.07	143.88	191.19	1.753		
15,200.00	7,630.00	15,110.47	7,730.00	116.48	111.54	107.36	-4,084.76	4,491.43	335.07	141.01	194.06	1.727		
15,300.00	7,630.00	15,210.47	7,730.00	117.40	112.60	107.36	-4,184.76	4,491.09	335.07	138.13	196.95	1.701		
15,400.00	7,630.00	15,310.47	7,730.00	118.35	113.68	107.36	-4,284.76	4,490.75	335.08	135.23	199.85	1.677		
15,500.00	7,630.00	15,410.47	7,730.00	119.34	114.80	107.36	-4,384.76	4,490.42	335.08	132.31	202.77	1.653		
15,600.00	7,630.00	15,510.47	7,730.00	120.35	115.94	107.36	-4,484.76	4,490.08	335.08	129.38	205.70	1.629		
15,700.00	7,630.00	15,610.47	7,730.00	121.40	117.12	107.36	-4,584.76	4,489.74	335.08	126.43	208.65	1.606		
15,800.00	7,630.00	15,710.47	7,730.00	122.48	118.31	107.36	-4,684.76	4,489.40	335.08	123.47	211.61	1.583		
15,900.00	7,630.00	15,810.47	7,730.00	123.58	119.54	107.36	-4,784.76	4,489.06	335.08	120.50	214.59	1.562		
16,000.00	7,630.00	15,910.47	7,730.00	124.71	120.78	107.36	-4,884.76	4,488.72	335.08	117.51	217.57	1.540		
16,100.00	7,630.00	16,010.47	7,730.00	125.87	122.05	107.36	-4,984.76	4,488.38	335.09	114.51	220.57	1.519		
16,200.00	7,630.00	16,110.47	7,730.00	127.05	123.33	107.36	-5,084.76	4,488.04	335.09	111.50	223.58	1.499 Level 3		
16,300.00	7,630.00	16,210.47	7,730.00	128.26	124.64	107.36	-5,184.76	4,487.71	335.09	108.48	226.61	1.479 Level 3		
16,400.00	7,630.00	16,310.47	7,730.00	129.48	125.96	107.36	-5,284.76	4,487.37	335.09	105.45	229.64	1.459 Level 3		
16,500.00	7,630.00	16,410.47	7,730.00	130.73	127.30	107.36	-5,384.76	4,487.03	335.09	102.41	232.68	1.440 Level 3		
16,600.00	7,630.00	16,510.47	7,730.00	132.00	128.66	107.36	-5,484.76	4,486.69	335.09	99.36	235.74	1.421 Level 3		
16,700.00	7,630.00	16,610.47	7,730.00	133.29	130.03	107.36	-5,584.75	4,486.35	335.09	96.30	238.80	1.403 Level 3		
16,800.00	7,630.00	16,710.47	7,730.00	134.59	131.42	107.36	-5,684.75	4,486.01	335.10	93.22	241.87	1.385 Level 3		
16,900.00	7,630.00	16,810.47	7,730.00	135.91	132.82	107.36	-5,784.75	4,485.67	335.10	90.14	244.95	1.368 Level 3		
17,000.00	7,630.00	16,910.47	7,730.00	137.25	134.24	107.36	-5,884.75	4,485.33	335.10	87.06	248.04	1.351 Level 3		
17,100.00	7,630.00	17,010.47	7,730.00	138.61	135.66	107.36	-5,984.75	4,485.00	335.10	83.96	251.14	1.334 Level 3		
17,200.00	7,630.00	17,110.47	7,730.00	139.97	137.10	107.36	-6,084.75	4,484.66	335.10	80.86	254.25	1.318 Level 3		
17,300.00	7,630.00	17,210.47	7,730.00	141.36	138.55	107.36	-6,184.75	4,484.32	335.10	77.74	257.36	1.302 Level 3		
17,400.00	7,630.00	17,310.47	7,730.00	142.75	140.01	107.36	-6,284.75	4,483.98	335.10	74.63	260.48	1.286 Level 3		
17,500.00	7,630.00	17,410.47	7,730.00	144.16	141.47	107.36	-6,384.75	4,483.64	335.11	71.50	263.61	1.271 Level 3		
17,600.00	7,630.00	17,510.47	7,730.00	145.58	142.95	107.36	-6,484.75	4,483.30	335.11	68.37	266.74	1.256 Level 3		
17,700.00	7,630.00	17,610.47	7,730.00	147.01	144.44	107.36	-6,584.75	4,482.96	335.11	65.23	269.88	1.242 Level 2		
17,800.00	7,630.00	17,710.47	7,730.00	148.45	145.94	107.36	-6,684.75	4,482.62	335.11	62.08	273.03	1.227 Level 2		
17,900.00	7,630.00	17,810.47	7,730.00	149.91	147.44	107.36	-6,784.75	4,482.29	335.11	58.93	276.18	1.213 Level 2		
18,000.00	7,630.00	17,910.47	7,730.00	151.37	148.95	107.36	-6,884.75	4,481.95	335.11	55.77	279.34	1.200 Level 2		
18,100.00	7,630.00	18,010.47	7,730.00	152.84	150.47	107.36	-6,984.75	4,481.61	335.11	52.61	282.51	1.186 Level 2		
18,200.00	7,630.00	18,110.47	7,730.00	154.32	151.99	107.36	-7,084.75	4,481.27	335.12	49.44	285.68	1.173 Level 2		
18,300.00	7,630.00	18,210.47	7,730.00	155.81	153.53	107.36	-7,184.75	4,480.93	335.12	46.26	288.85	1.160 Level 2		
18,400.00	7,630.00	18,310.47	7,730.00	157.31	155.07	107.36	-7,284.75	4,480.59	335.12	43.08	292.04	1.148 Level 2		
18,500.00	7,630.00	18,410.47	7,730.00	158.81	156.61	107.36	-7,384.74	4,480.25	335.12	39.90	295.22	1.135 Level 2		
18,600.00	7,630.00	18,510.47	7,730.00	160.32	158.16	107.36	-7,484.74	4,479.91	335.12	36.71	298.41	1.123 Level 2		
18,700.00	7,630.00	18,610.47	7,730.00	161.84	159.72	107.36	-7,584.74	4,479.58	335.12	33.51	301.61	1.111 Level 2		
18,800.00	7,630.00	18,710.47	7,730.00	163.37	161.28	107.36	-7,684.74	4,479.24	335.12	30.31	304.81	1.099 Level 2		
18,900.00	7,630.00	18,810.47	7,730.00	164.90	162.84	107.36	-7,784.74	4,478.90	335.13	27.11	308.02	1.088 Level 2		
19,000.00	7,630.00	18,910.47	7,730.00	166.43	164.42	107.36	-7,884.74	4,478.56	335.13	23.90	311.22	1.077 Level 2		
19,100.00	7,630.00	19,010.47	7,730.00	167.98	165.99	107.36	-7,984.74	4,478.22	335.13	20.69	314.44	1.066 Level 2		
19,200.00	7,630.00	19,110.47	7,730.00	169.53	167.57	107.36	-8,084.74	4,477.88	335.13	17.47	317.66	1.055 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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
19,300.00	7,630.00	19,210.47	7,730.00	171.08	169.16	107.36	-8,184.74	4,477.54	335.13	14.25	320.88	1.044	Level 2
19,400.00	7,630.00	19,310.47	7,730.00	172.64	170.75	107.36	-8,284.74	4,477.20	335.13	11.03	324.10	1.034	Level 2
19,500.00	7,630.00	19,410.47	7,730.00	174.21	172.34	107.36	-8,384.74	4,476.86	335.13	7.80	327.33	1.024	Level 2
19,518.56	7,630.00	19,429.03	7,730.00	174.50	172.64	107.36	-8,403.30	4,476.80	335.14	7.20	327.93	1.022	Level 2, ES, SF

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	10.08	10.08					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	10.08	10.08	9.81	0.27	37.493		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	10.08	10.08	9.09	0.99	10.225		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	10.08	10.08	8.38	1.70	5.920 CC		
400.00	400.00	399.63	399.61	1.21	1.20	86.84	0.64	11.69	11.71	9.30	2.42	4.848		
500.00	499.98	499.13	498.97	1.56	1.56	16.03	2.58	16.50	15.05	11.93	3.12	4.825		
600.00	599.84	598.50	597.96	1.92	1.93	13.71	5.78	24.50	18.44	14.62	3.82	4.828		
700.00	699.45	697.76	696.48	2.29	2.31	12.35	10.26	35.67	21.84	17.32	4.52	4.832		
800.00	798.70	796.90	794.41	2.67	2.71	11.55	16.00	49.98	25.24	20.02	5.22	4.833		
900.00	897.47	895.93	891.64	3.07	3.14	11.11	22.99	67.40	28.62	22.70	5.93	4.828		
1,000.00	995.62	994.84	988.05	3.50	3.61	10.93	31.21	87.91	31.99	25.35	6.64	4.819		
1,100.00	1,093.06	1,093.64	1,083.53	3.96	4.11	10.92	40.66	111.46	35.33	27.98	7.36	4.803		
1,200.00	1,189.64	1,192.33	1,177.97	4.46	4.66	11.05	51.32	138.02	38.65	30.57	8.08	4.782		
1,300.00	1,285.27	1,290.91	1,271.27	5.00	5.25	11.27	63.16	167.56	41.93	33.11	8.82	4.755		
1,400.00	1,379.82	1,389.38	1,363.31	5.60	5.90	11.57	76.18	200.02	45.18	35.61	9.57	4.722		
1,500.00	1,473.17	1,487.75	1,454.01	6.25	6.60	11.93	90.35	235.35	48.39	38.06	10.33	4.682		
1,600.00	1,565.21	1,586.01	1,543.25	6.95	7.36	12.35	105.66	273.51	51.56	40.44	11.12	4.637		
1,700.00	1,655.84	1,684.18	1,630.95	7.72	8.18	12.80	122.08	314.45	54.69	42.76	11.93	4.585		
1,800.00	1,744.94	1,782.24	1,716.99	8.55	9.06	13.30	139.59	358.11	57.78	45.01	12.77	4.526		
1,900.00	1,832.39	1,880.21	1,801.29	9.45	10.01	13.82	158.16	404.43	60.82	47.18	13.63	4.461		
2,000.00	1,918.11	1,978.09	1,883.76	10.41	11.03	14.37	177.78	453.35	63.81	49.27	14.53	4.390		
2,100.00	2,001.97	2,075.88	1,964.31	11.45	12.11	14.94	198.42	504.80	66.75	51.27	15.48	4.312		
2,200.00	2,083.88	2,173.58	2,042.85	12.56	13.26	15.53	220.05	558.73	69.64	53.17	16.47	4.228		
2,300.00	2,163.74	2,271.19	2,119.29	13.74	14.48	16.15	242.65	615.06	72.48	54.96	17.51	4.138		
2,400.00	2,241.45	2,369.76	2,194.54	14.99	15.76	16.85	266.34	674.15	74.97	56.27	18.70	4.009		
2,421.22	2,257.65	2,390.98	2,210.66	15.26	16.05	17.07	271.48	686.95	75.19	56.19	19.00	3.958		
2,500.00	2,317.63	2,469.75	2,270.51	16.29	17.10	17.95	290.54	734.49	75.73	55.60	20.13	3.762		
2,600.00	2,393.75	2,569.73	2,346.47	17.62	18.45	19.05	314.74	794.82	76.45	54.82	21.63	3.535		
2,700.00	2,469.88	2,669.72	2,422.44	18.95	19.81	20.13	338.94	855.16	77.19	53.99	23.20	3.328		
2,800.00	2,546.01	2,769.71	2,498.41	20.30	21.18	21.19	363.14	915.50	77.96	53.13	24.83	3.140		
2,900.00	2,622.13	2,869.69	2,574.38	21.65	22.55	22.22	387.34	975.84	78.75	52.22	26.53	2.968		
3,000.00	2,698.26	2,969.68	2,650.34	23.01	23.93	23.24	411.54	1,036.18	79.57	51.28	28.30	2.812		
3,100.00	2,774.38	3,069.67	2,726.31	24.37	25.31	24.23	435.74	1,096.51	80.42	50.30	30.12	2.670		
3,200.00	2,850.51	3,169.65	2,802.28	25.74	26.69	25.21	459.94	1,156.85	81.29	49.28	32.00	2.540		
3,300.00	2,926.64	3,269.64	2,878.25	27.11	28.08	26.16	484.14	1,217.19	82.18	48.23	33.94	2.421		
3,400.00	3,002.76	3,369.63	2,954.21	28.49	29.47	27.09	508.35	1,277.53	83.09	47.15	35.94	2.312		
3,500.00	3,078.89	3,469.62	3,030.18	29.87	30.87	28.01	532.55	1,337.87	84.03	46.04	37.99	2.212		
3,600.00	3,155.02	3,569.60	3,106.15	31.25	32.26	28.90	556.75	1,398.20	84.98	44.90	40.08	2.120		
3,700.00	3,231.14	3,669.59	3,182.11	32.63	33.66	29.77	580.95	1,458.54	85.96	43.74	42.22	2.036		
3,800.00	3,307.27	3,769.58	3,258.08	34.01	35.06	30.62	605.15	1,518.88	86.96	42.55	44.41	1.958		
3,900.00	3,383.39	3,869.56	3,334.05	35.40	36.46	31.46	629.35	1,579.22	87.97	41.33	46.64	1.886		
4,000.00	3,459.52	3,969.55	3,410.02	36.79	37.86	32.27	653.55	1,639.56	89.00	40.10	48.91	1.820		
4,100.00	3,535.65	4,069.54	3,485.98	38.18	39.26	33.06	677.75	1,699.89	90.05	38.84	51.21	1.758		
4,200.00	3,611.77	4,169.52	3,561.95	39.57	40.66	33.84	701.95	1,760.23	91.12	37.56	53.56	1.701		
4,300.00	3,687.90	4,269.51	3,637.92	40.96	42.07	34.60	726.15	1,820.57	92.20	36.27	55.93	1.648		
4,400.00	3,764.02	4,369.50	3,713.89	42.35	43.47	35.34	750.35	1,880.91	93.30	34.96	58.34	1.599		
4,500.00	3,840.15	4,469.48	3,789.85	43.74	44.88	36.06	774.55	1,941.25	94.42	33.64	60.78	1.554		
4,600.00	3,916.28	4,569.47	3,865.82	45.13	46.29	36.77	798.75	2,001.58	95.55	32.31	63.24	1.511		
4,700.00	3,992.40	4,669.46	3,941.79	46.53	47.69	37.46	822.95	2,061.92	96.69	30.96	65.73	1.471 Level 3		
4,800.00	4,068.53	4,769.44	4,017.75	47.92	49.10	38.13	847.15	2,122.26	97.85	29.60	68.25	1.434 Level 3		
4,900.00	4,144.66	4,869.43	4,093.72	49.32	50.51	38.79	871.35	2,182.60	99.02	28.23	70.79	1.399 Level 3		
5,000.00	4,220.78	4,969.42	4,169.69	50.71	51.92	39.43	895.55	2,242.94	100.20	26.85	73.35	1.366 Level 3		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	5,069.40	4,245.66	52.11	53.32	40.06	919.75	2,303.27	101.40	25.46	75.93	1.335 Level 3		
5,200.00	4,373.03	5,169.39	4,321.62	53.51	54.73	40.67	943.95	2,363.61	102.60	24.07	78.54	1.306 Level 3		
5,300.00	4,449.16	5,269.38	4,397.59	54.90	56.14	41.27	968.15	2,423.95	103.82	22.67	81.16	1.279 Level 3		
5,400.00	4,525.29	5,369.36	4,473.56	56.30	57.55	41.85	992.35	2,484.29	105.05	21.26	83.79	1.254 Level 3		
5,500.00	4,601.41	5,469.35	4,549.53	57.70	58.96	42.42	1,016.55	2,544.63	106.29	19.85	86.44	1.230 Level 2		
5,600.00	4,677.54	5,569.34	4,625.49	59.10	60.37	42.98	1,040.75	2,604.96	107.54	18.43	89.11	1.207 Level 2		
5,700.00	4,753.66	5,669.32	4,701.46	60.49	61.78	43.52	1,064.95	2,665.30	108.80	17.01	91.79	1.185 Level 2		
5,800.00	4,829.79	5,769.31	4,777.43	61.89	63.19	44.05	1,089.15	2,725.64	110.07	15.59	94.48	1.165 Level 2		
5,900.00	4,905.92	5,869.30	4,853.40	63.29	64.61	44.57	1,113.35	2,785.98	111.35	14.16	97.19	1.146 Level 2		
6,000.00	4,982.04	5,969.28	4,929.36	64.69	66.02	45.08	1,137.55	2,846.32	112.64	12.74	99.91	1.127 Level 2		
6,100.00	5,058.17	6,069.27	5,005.33	66.09	67.43	45.58	1,161.75	2,906.65	113.94	11.31	102.63	1.110 Level 2		
6,200.00	5,134.30	6,169.26	5,081.30	67.49	68.84	46.06	1,185.95	2,966.99	115.25	9.87	105.37	1.094 Level 2		
6,300.00	5,210.42	6,269.24	5,157.26	68.89	70.25	46.54	1,210.15	3,027.33	116.56	8.44	108.12	1.078 Level 2		
6,400.00	5,286.55	6,369.23	5,233.23	70.29	71.66	47.00	1,234.35	3,087.67	117.88	7.01	110.87	1.063 Level 2		
6,500.00	5,362.67	6,469.22	5,309.20	71.69	73.08	47.45	1,258.55	3,148.01	119.21	5.57	113.64	1.049 Level 2		
6,600.00	5,438.80	6,569.21	5,385.17	73.09	74.49	47.90	1,282.75	3,208.34	120.54	4.14	116.41	1.036 Level 2		
6,700.00	5,514.93	6,669.19	5,461.13	74.49	75.90	48.33	1,306.95	3,268.68	121.89	2.70	119.18	1.023 Level 2		
6,800.00	5,591.05	6,769.18	5,537.10	75.89	77.31	48.75	1,331.15	3,329.02	123.24	1.27	121.97	1.010 Level 2		
6,900.00	5,667.18	6,869.17	5,613.07	77.29	78.73	49.17	1,355.35	3,389.36	124.59	-0.16	124.76	0.999 Level 1		
7,000.00	5,743.30	6,969.15	5,689.04	78.69	80.14	49.57	1,379.55	3,449.70	125.96	-1.60	127.55	0.987 Level 1		
7,100.00	5,819.43	7,069.14	5,765.00	80.09	81.55	49.97	1,403.75	3,510.03	127.33	-3.03	130.35	0.977 Level 1		
7,200.00	5,895.56	7,169.13	5,840.97	81.49	82.96	50.36	1,427.95	3,570.37	128.70	-4.46	133.16	0.967 Level 1		
7,300.00	5,971.68	7,269.11	5,916.94	82.90	84.38	50.74	1,452.15	3,630.71	130.08	-5.89	135.97	0.957 Level 1		
7,400.00	6,047.81	7,369.10	5,992.90	84.30	85.79	51.11	1,476.35	3,691.05	131.47	-7.32	138.79	0.947 Level 1		
7,500.00	6,123.94	7,469.09	6,068.87	85.70	87.20	51.48	1,500.55	3,751.39	132.86	-8.74	141.60	0.938 Level 1		
7,600.00	6,200.06	7,569.07	6,144.84	87.10	88.62	51.83	1,524.75	3,811.72	134.26	-10.17	144.43	0.930 Level 1		
7,700.00	6,276.19	7,669.06	6,220.81	88.50	90.03	52.18	1,548.95	3,872.06	135.66	-11.59	147.25	0.921 Level 1		
7,800.00	6,352.31	7,769.05	6,296.77	89.90	91.44	52.53	1,573.15	3,932.40	137.07	-13.01	150.08	0.913 Level 1		
7,900.00	6,428.44	7,869.03	6,372.74	91.31	92.86	52.86	1,597.35	3,992.74	138.48	-14.43	152.91	0.906 Level 1		
8,000.00	6,504.57	7,969.02	6,448.71	92.71	94.27	53.19	1,621.56	4,053.08	139.90	-15.85	155.75	0.898 Level 1		
8,100.00	6,580.69	8,069.01	6,524.68	94.11	95.69	53.51	1,645.76	4,113.41	141.32	-17.26	158.58	0.891 Level 1		
8,200.00	6,656.82	8,168.99	6,600.64	95.51	97.10	53.83	1,669.96	4,173.75	142.74	-18.68	161.42	0.884 Level 1		
8,300.00	6,732.95	8,268.98	6,676.61	96.91	98.51	54.14	1,694.16	4,234.09	144.17	-20.09	164.26	0.878 Level 1		
8,400.00	6,809.07	8,368.97	6,752.58	98.32	99.93	54.44	1,718.36	4,294.43	145.61	-21.50	167.10	0.871 Level 1		
8,500.00	6,885.20	8,468.95	6,828.54	99.72	101.34	54.74	1,742.56	4,354.77	147.05	-22.90	169.95	0.865 Level 1		
8,600.00	6,961.32	8,568.94	6,904.51	101.12	102.76	55.03	1,766.76	4,415.10	148.49	-24.31	172.79	0.859 Level 1		
8,700.00	7,037.45	8,668.93	6,980.48	102.52	104.17	55.32	1,790.96	4,475.44	149.93	-25.71	175.64	0.854 Level 1		
8,732.15	7,061.92	8,701.07	7,004.90	102.97	104.62	55.41	1,798.74	4,494.84	150.40	-26.16	176.56	0.852 Level 1		
8,750.00	7,075.57	8,718.92	7,018.46	103.22	104.88	53.36	1,803.06	4,505.61	150.49	-26.44	176.93	0.851 Level 1		
8,800.00	7,114.27	8,768.81	7,056.37	103.91	105.58	46.29	1,815.13	4,535.72	148.98	-27.41	176.40	0.845 Level 1		
8,850.00	7,153.47	8,818.26	7,093.93	104.58	106.28	37.29	1,827.10	4,565.56	145.07	-28.18	173.25	0.837 Level 1, ES		
8,900.00	7,192.85	8,868.87	7,130.87	105.21	106.97	26.40	1,838.87	4,594.89	139.27	-27.43	166.69	0.835 Level 1, SF		
8,950.00	7,232.12	8,914.28	7,166.89	105.80	107.64	13.65	1,850.34	4,623.50	132.48	-23.03	155.51	0.852 Level 1		
9,000.00	7,270.99	8,960.14	7,201.73	106.35	108.29	-0.79	1,861.44	4,651.18	126.17	-12.38	138.55	0.911 Level 1		
9,050.00	7,309.16	9,004.09	7,235.12	106.85	108.91	-16.39	1,872.08	4,677.70	122.42	5.69	116.73	1.049 Level 2		
9,065.05	7,320.46	9,016.89	7,244.85	106.99	109.09	-21.16	1,875.18	4,685.42	122.16	12.06	110.10	1.110 Level 2		
9,100.00	7,346.32	9,045.79	7,266.81	107.30	109.50	-32.10	1,882.17	4,702.87	123.72	25.97	97.75	1.266 Level 3		
9,150.00	7,382.22	9,084.94	7,296.55	107.69	110.05	-46.67	1,891.65	4,726.49	132.20	36.34	95.86	1.379 Level 3		
9,200.00	7,416.56	9,124.04	7,326.32	108.02	110.61	-59.80	1,900.79	4,750.13	148.55	36.53	112.02	1.326 Level 3		
9,250.00	7,449.09	9,167.42	7,359.78	108.29	111.21	-71.61	1,908.25	4,776.70	170.83	39.28	131.55	1.299 Level 3		
9,300.00	7,479.56	9,213.88	7,396.00	108.51	111.84	-81.60	1,912.63	4,805.44	197.07	50.27	146.80	1.342 Level 3		
9,350.00	7,507.74	9,264.29	7,435.48	108.68	112.49	-90.03	1,913.13	4,836.76	225.86	69.28	156.58	1.442 Level 3		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,533.41	9,319.85	7,478.85	108.79	113.16	-97.20	1,908.54	4,871.14	256.14	94.98	161.16	1.589		
9,450.00	7,556.39	9,382.21	7,526.86	108.86	113.86	-103.37	1,897.05	4,909.19	287.04	126.35	160.70	1.786		
9,500.00	7,576.48	9,453.67	7,580.31	108.88	114.56	-108.74	1,875.79	4,951.51	317.72	162.90	154.82	2.052		
9,550.00	7,593.55	9,537.37	7,639.71	108.86	115.23	-113.43	1,840.35	4,998.51	347.25	204.72	142.53	2.436		
9,600.00	7,607.46	9,637.35	7,704.46	108.80	115.82	-117.45	1,784.13	5,049.68	374.41	252.27	122.15	3.065		
9,650.00	7,618.11	9,757.98	7,770.97	108.71	116.25	-120.73	1,698.55	5,102.14	397.61	305.42	92.18	4.313		
9,700.00	7,625.41	9,901.80	7,829.86	108.59	116.38	-123.09	1,576.23	5,148.45	414.75	358.69	56.06	7.398		
9,750.00	7,629.30	9,750.00	7,861.56	108.45	116.86	-124.17	1,447.72	5,173.16	423.47	378.89	44.58	9.499		
9,781.81	7,630.00	10,154.11	7,870.00	108.35	115.90	-124.44	1,331.14	5,179.46	424.35	358.68	65.67	6.462		
9,800.00	7,630.00	10,172.30	7,870.00	108.29	115.84	-124.44	1,312.95	5,179.40	424.35	358.93	65.42	6.487		
9,900.00	7,630.00	10,272.30	7,870.00	107.97	115.54	-124.44	1,212.95	5,179.07	424.35	360.26	64.09	6.621		
10,000.00	7,630.00	10,372.30	7,870.00	107.67	115.26	-124.44	1,112.95	5,178.73	424.35	361.46	62.89	6.748		
10,100.00	7,630.00	10,472.30	7,870.00	107.38	114.98	-124.44	1,012.95	5,178.39	424.35	362.55	61.81	6.866		
10,200.00	7,630.00	10,572.30	7,870.00	107.10	114.72	-124.44	912.95	5,178.06	424.35	363.49	60.86	6.973		
10,300.00	7,630.00	10,672.30	7,870.00	106.84	114.47	-124.44	812.95	5,177.72	424.35	364.30	60.05	7.067		
10,400.00	7,630.00	10,772.30	7,870.00	106.59	114.24	-124.44	712.95	5,177.39	424.36	364.97	59.39	7.145		
10,500.00	7,630.00	10,872.30	7,870.00	106.35	114.01	-124.44	612.95	5,177.05	424.36	365.48	58.88	7.208		
10,600.00	7,630.00	10,972.30	7,870.00	106.13	113.80	-124.44	512.95	5,176.72	424.36	365.84	58.52	7.252		
10,700.00	7,630.00	11,072.30	7,870.00	105.92	113.60	-124.44	412.95	5,176.38	424.36	366.04	58.32	7.277		
10,800.00	7,630.00	11,172.30	7,870.00	105.72	113.41	-124.44	312.95	5,176.04	424.36	366.08	58.28	7.282		
10,900.00	7,630.00	11,272.30	7,870.00	105.54	113.24	-124.44	212.95	5,175.71	424.36	365.97	58.39	7.267		
11,000.00	7,630.00	11,372.30	7,870.00	105.37	113.08	-124.44	112.95	5,175.37	424.36	365.69	58.67	7.233		
11,100.00	7,630.00	11,472.30	7,870.00	105.21	112.93	-124.44	12.96	5,175.04	424.36	365.26	59.10	7.180		
11,200.00	7,630.00	11,572.30	7,870.00	105.06	112.79	-124.44	-87.04	5,174.70	424.37	364.68	59.69	7.110		
11,300.00	7,630.00	11,672.30	7,870.00	104.93	112.67	-124.44	-187.04	5,174.37	424.37	363.95	60.42	7.024		
11,400.00	7,630.00	11,772.30	7,870.00	104.82	112.56	-124.44	-287.04	5,174.03	424.37	363.08	61.29	6.924		
11,500.00	7,630.00	11,872.30	7,870.00	104.72	112.46	-124.44	-387.04	5,173.70	424.37	362.07	62.30	6.811		
11,600.00	7,630.00	11,972.30	7,870.00	104.63	112.38	-124.44	-487.04	5,173.36	424.37	360.93	63.45	6.689		
11,700.00	7,630.00	12,072.30	7,870.00	104.55	112.31	-124.44	-587.04	5,173.02	424.37	359.66	64.71	6.558		
11,800.00	7,630.00	12,172.30	7,870.00	104.50	112.25	-124.44	-687.04	5,172.69	424.37	358.28	66.09	6.421		
11,900.00	7,630.00	12,272.30	7,870.00	104.45	112.21	-124.44	-787.04	5,172.35	424.38	356.79	67.58	6.279		
12,000.00	7,630.00	12,372.30	7,870.00	104.43	112.18	-124.44	-887.04	5,172.02	424.38	355.20	69.17	6.135		
12,100.00	7,630.00	12,472.30	7,870.00	104.42	112.16	-124.44	-987.04	5,171.68	424.38	353.52	70.86	5.989		
12,200.00	7,630.00	12,572.30	7,870.00	104.42	112.16	-124.44	-1,087.04	5,171.35	424.38	351.74	72.64	5.842		
12,300.00	7,630.00	12,672.30	7,870.00	104.45	112.18	-124.44	-1,187.04	5,171.01	424.38	349.88	74.50	5.697		
12,400.00	7,630.00	12,772.30	7,870.00	104.49	112.22	-124.44	-1,287.04	5,170.67	424.38	347.95	76.43	5.552		
12,500.00	7,630.00	12,872.30	7,870.00	104.55	112.27	-124.44	-1,387.04	5,170.34	424.38	345.95	78.44	5.410		
12,600.00	7,630.00	12,972.30	7,870.00	104.63	112.33	-124.44	-1,487.04	5,170.00	424.39	343.88	80.51	5.271		
12,700.00	7,630.00	13,072.30	7,870.00	104.73	112.42	-124.44	-1,587.04	5,169.67	424.39	341.75	82.64	5.135		
12,800.00	7,630.00	13,172.30	7,870.00	104.85	112.52	-124.44	-1,687.04	5,169.33	424.39	339.56	84.83	5.003		
12,900.00	7,630.00	13,272.30	7,870.00	104.99	112.64	-124.44	-1,787.03	5,169.00	424.39	337.33	87.06	4.874		
13,000.00	7,630.00	13,372.30	7,870.00	105.15	112.79	-124.44	-1,887.03	5,168.66	424.39	335.04	89.35	4.750		
13,100.00	7,630.00	13,472.30	7,870.00	105.34	112.95	-124.44	-1,987.03	5,168.33	424.39	332.71	91.68	4.629		
13,200.00	7,630.00	13,572.30	7,870.00	105.56	113.13	-124.44	-2,087.03	5,167.99	424.39	330.34	94.05	4.512		
13,300.00	7,630.00	13,672.30	7,870.00	105.80	113.34	-124.44	-2,187.03	5,167.65	424.39	327.93	96.46	4.400		
13,400.00	7,630.00	13,772.30	7,870.00	106.06	113.57	-124.44	-2,287.03	5,167.32	424.40	325.49	98.91	4.291		
13,500.00	7,630.00	13,872.30	7,870.00	106.36	113.82	-124.44	-2,387.03	5,166.98	424.40	323.01	101.38	4.186		
13,600.00	7,630.00	13,972.30	7,870.00	106.68	114.09	-124.44	-2,487.03	5,166.65	424.40	320.51	103.89	4.085		
13,700.00	7,630.00	14,072.30	7,870.00	107.03	114.40	-124.44	-2,587.03	5,166.31	424.40	317.97	106.43	3.988		
13,800.00	7,630.00	14,172.30	7,870.00	107.42	114.72	-124.44	-2,687.03	5,165.98	424.40	315.41	108.99	3.894		
13,900.00	7,630.00	14,272.30	7,870.00	107.83	115.08	-124.44	-2,787.03	5,165.64	424.40	312.83	111.57	3.804		
14,000.00	7,630.00	14,372.30	7,870.00	108.28	115.46	-124.44	-2,887.03	5,165.31	424.40	310.22	114.18	3.717		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,630.00	14,472.30	7,870.00	108.77	115.87	-124.44	-2,987.03	5,164.97	424.41	307.59	116.81	3.633		
14,200.00	7,630.00	14,572.30	7,870.00	109.29	116.32	-124.44	-3,087.03	5,164.63	424.41	304.95	119.46	3.553		
14,300.00	7,630.00	14,672.30	7,870.00	109.84	116.79	-124.44	-3,187.03	5,164.30	424.41	302.28	122.13	3.475		
14,400.00	7,630.00	14,772.30	7,870.00	110.43	117.29	-124.44	-3,287.03	5,163.96	424.41	299.59	124.81	3.400		
14,500.00	7,630.00	14,872.30	7,870.00	111.06	117.83	-124.44	-3,387.03	5,163.63	424.41	296.89	127.52	3.328		
14,600.00	7,630.00	14,972.30	7,870.00	111.72	118.39	-124.44	-3,487.02	5,163.29	424.41	294.18	130.23	3.259		
14,700.00	7,630.00	15,072.30	7,870.00	112.42	118.99	-124.44	-3,587.02	5,162.96	424.41	291.45	132.96	3.192		
14,800.00	7,630.00	15,172.30	7,870.00	113.16	119.63	-124.44	-3,687.02	5,162.62	424.42	288.71	135.71	3.127		
14,900.00	7,630.00	15,272.30	7,870.00	113.94	120.29	-124.44	-3,787.02	5,162.28	424.42	285.95	138.47	3.065		
15,000.00	7,630.00	15,372.30	7,870.00	114.75	120.99	-124.44	-3,887.02	5,161.95	424.42	283.18	141.24	3.005		
15,100.00	7,630.00	15,472.30	7,870.00	115.60	121.73	-124.44	-3,987.02	5,161.61	424.42	280.40	144.02	2.947		
15,200.00	7,630.00	15,572.30	7,870.00	116.48	122.49	-124.44	-4,087.02	5,161.28	424.42	277.61	146.81	2.891		
15,300.00	7,630.00	15,672.30	7,870.00	117.40	123.29	-124.44	-4,187.02	5,160.94	424.42	274.81	149.61	2.837		
15,400.00	7,630.00	15,772.30	7,870.00	118.35	124.12	-124.44	-4,287.02	5,160.61	424.42	272.01	152.42	2.785		
15,500.00	7,630.00	15,872.30	7,870.00	119.34	124.99	-124.44	-4,387.02	5,160.27	424.42	269.19	155.24	2.734		
15,600.00	7,630.00	15,972.30	7,870.00	120.35	125.88	-124.43	-4,487.02	5,159.94	424.43	266.36	158.06	2.685		
15,700.00	7,630.00	16,072.30	7,870.00	121.40	126.81	-124.43	-4,587.02	5,159.60	424.43	263.53	160.90	2.638		
15,800.00	7,630.00	16,172.30	7,870.00	122.48	127.77	-124.43	-4,687.02	5,159.26	424.43	260.69	163.74	2.592		
15,900.00	7,630.00	16,272.30	7,870.00	123.58	128.76	-124.43	-4,787.02	5,158.93	424.43	257.84	166.59	2.548		
16,000.00	7,630.00	16,372.30	7,870.00	124.71	129.77	-124.43	-4,887.02	5,158.59	424.43	254.98	169.45	2.505		
16,100.00	7,630.00	16,472.30	7,870.00	125.87	130.82	-124.43	-4,987.02	5,158.26	424.43	252.12	172.31	2.463		
16,200.00	7,630.00	16,572.30	7,870.00	127.05	131.89	-124.43	-5,087.02	5,157.92	424.43	249.25	175.18	2.423		
16,300.00	7,630.00	16,672.30	7,870.00	128.26	132.98	-124.43	-5,187.02	5,157.59	424.44	246.38	178.06	2.384		
16,400.00	7,630.00	16,772.30	7,870.00	129.48	134.10	-124.43	-5,287.01	5,157.25	424.44	243.50	180.94	2.346		
16,500.00	7,630.00	16,872.30	7,870.00	130.73	135.25	-124.43	-5,387.01	5,156.91	424.44	240.61	183.83	2.309		
16,600.00	7,630.00	16,972.30	7,870.00	132.00	136.42	-124.43	-5,487.01	5,156.58	424.44	237.72	186.72	2.273		
16,700.00	7,630.00	17,072.30	7,870.00	133.29	137.61	-124.43	-5,587.01	5,156.24	424.44	234.83	189.61	2.238		
16,800.00	7,630.00	17,172.30	7,870.00	134.59	138.82	-124.43	-5,687.01	5,155.91	424.44	231.93	192.52	2.205		
16,900.00	7,630.00	17,272.30	7,870.00	135.91	140.05	-124.43	-5,787.01	5,155.57	424.44	229.02	195.42	2.172		
17,000.00	7,630.00	17,372.30	7,870.00	137.25	141.30	-124.43	-5,887.01	5,155.24	424.45	226.11	198.33	2.140		
17,100.00	7,630.00	17,472.30	7,870.00	138.61	142.57	-124.43	-5,987.01	5,154.90	424.45	223.20	201.25	2.109		
17,200.00	7,630.00	17,572.30	7,870.00	139.97	143.85	-124.43	-6,087.01	5,154.57	424.45	220.29	204.16	2.079		
17,300.00	7,630.00	17,672.30	7,870.00	141.36	145.16	-124.43	-6,187.01	5,154.23	424.45	217.37	207.08	2.050		
17,400.00	7,630.00	17,772.30	7,870.00	142.75	146.48	-124.43	-6,287.01	5,153.89	424.45	214.44	210.01	2.021		
17,500.00	7,630.00	17,872.30	7,870.00	144.16	147.81	-124.43	-6,387.01	5,153.56	424.45	211.51	212.94	1.993		
17,600.00	7,630.00	17,972.30	7,870.00	145.58	149.16	-124.43	-6,487.01	5,153.22	424.45	208.58	215.87	1.966		
17,700.00	7,630.00	18,072.30	7,870.00	147.01	150.52	-124.43	-6,587.01	5,152.89	424.45	205.65	218.80	1.940		
17,800.00	7,630.00	18,172.30	7,870.00	148.45	151.90	-124.43	-6,687.01	5,152.55	424.46	202.71	221.74	1.914		
17,900.00	7,630.00	18,272.30	7,870.00	149.91	153.28	-124.43	-6,787.01	5,152.22	424.46	199.78	224.68	1.889		
18,000.00	7,630.00	18,372.30	7,870.00	151.37	154.68	-124.43	-6,887.01	5,151.88	424.46	196.83	227.63	1.865		
18,100.00	7,630.00	18,472.30	7,870.00	152.84	156.10	-124.43	-6,987.01	5,151.55	424.46	193.89	230.57	1.841		
18,200.00	7,630.00	18,572.30	7,870.00	154.32	157.52	-124.43	-7,087.00	5,151.21	424.46	190.94	233.52	1.818		
18,300.00	7,630.00	18,672.30	7,870.00	155.81	158.95	-124.43	-7,187.00	5,150.87	424.46	187.99	236.47	1.795		
18,400.00	7,630.00	18,772.30	7,870.00	157.31	160.39	-124.43	-7,287.00	5,150.54	424.46	185.04	239.43	1.773		
18,500.00	7,630.00	18,872.30	7,870.00	158.81	161.84	-124.43	-7,387.00	5,150.20	424.47	182.08	242.38	1.751		
18,600.00	7,630.00	18,972.30	7,870.00	160.32	163.31	-124.43	-7,487.00	5,149.87	424.47	179.13	245.34	1.730		
18,700.00	7,630.00	19,072.30	7,870.00	161.84	164.77	-124.43	-7,587.00	5,149.53	424.47	176.17	248.30	1.709		
18,800.00	7,630.00	19,172.30	7,870.00	163.37	166.25	-124.43	-7,687.00	5,149.20	424.47	173.21	251.26	1.689		
18,900.00	7,630.00	19,272.30	7,870.00	164.90	167.74	-124.43	-7,787.00	5,148.86	424.47	170.24	254.23	1.670		
19,000.00	7,630.00	19,372.30	7,870.00	166.43	169.23	-124.43	-7,887.00	5,148.52	424.47	167.28	257.19	1.650		
19,100.00	7,630.00	19,472.30	7,870.00	167.98	170.73	-124.43	-7,987.00	5,148.19	424.47	164.31	260.16	1.632		
19,200.00	7,630.00	19,572.30	7,870.00	169.53	172.24	-124.43	-8,087.00	5,147.85	424.48	161.34	263.13	1.613		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	19,672.30	7,870.00	171.08	173.75	-124.43	-8,187.00	5,147.52	424.48	158.37	266.10	1.595	
19,400.00	7,630.00	19,772.30	7,870.00	172.64	175.28	-124.43	-8,287.00	5,147.18	424.48	155.40	269.08	1.578	
19,500.00	7,630.00	19,872.30	7,870.00	174.21	176.80	-124.43	-8,387.00	5,146.85	424.48	152.43	272.05	1.560	
19,518.56	7,630.00	19,890.86	7,870.00	174.50	177.09	-124.43	-8,405.56	5,146.78	424.48	151.88	272.60	1.557	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	19.88	19.88					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	19.88	19.88	19.61	0.27	73.944		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	19.88	19.88	18.89	0.99	20.167 CC, ES		
300.00	300.00	299.32	299.30	0.85	0.85	88.38	0.61	21.49	21.51	19.81	1.70	12.655		
400.00	400.00	398.39	398.23	1.21	1.20	84.73	2.43	26.30	26.47	24.06	2.41	10.967		
500.00	499.98	497.16	496.62	1.56	1.57	14.95	5.45	34.28	33.19	30.08	3.12	10.646		
600.00	599.84	595.69	594.43	1.92	1.95	13.16	9.65	45.40	39.96	36.15	3.82	10.474		
700.00	699.45	693.99	691.54	2.29	2.36	12.08	15.02	59.62	46.73	42.22	4.51	10.351		
800.00	798.70	792.07	787.86	2.67	2.79	11.44	21.56	76.90	53.48	48.26	5.22	10.251		
900.00	897.47	889.92	883.27	3.07	3.26	11.10	29.24	97.21	60.18	54.26	5.92	10.161		
1,000.00	995.62	987.56	977.68	3.50	3.77	10.95	38.04	120.50	66.84	60.20	6.64	10.073		
1,100.00	1,093.06	1,084.98	1,070.97	3.96	4.32	10.96	47.96	146.73	73.44	66.09	7.35	9.994		
1,200.00	1,189.64	1,182.19	1,163.06	4.46	4.91	11.07	58.96	175.84	79.97	71.89	8.08	9.898		
1,300.00	1,285.27	1,279.20	1,253.86	5.00	5.56	11.27	71.04	207.78	86.42	77.61	8.82	9.801		
1,400.00	1,379.82	1,376.00	1,343.25	5.60	6.26	11.53	84.17	242.51	92.80	83.23	9.57	9.698		
1,500.00	1,473.17	1,472.61	1,431.17	6.25	7.01	11.85	98.33	279.96	99.09	88.76	10.34	9.587		
1,600.00	1,565.21	1,569.03	1,517.51	6.95	7.82	12.21	113.49	320.08	105.30	94.18	11.12	9.467		
1,700.00	1,655.84	1,665.25	1,602.20	7.72	8.69	12.61	129.65	362.81	111.41	99.48	11.93	9.338		
1,800.00	1,744.94	1,761.30	1,685.15	8.55	9.62	13.03	146.77	408.09	117.42	104.66	12.76	9.199		
1,900.00	1,832.39	1,857.16	1,766.28	9.45	10.61	13.49	164.82	455.85	123.33	109.70	13.63	9.051		
2,000.00	1,918.11	1,952.86	1,845.51	10.41	11.67	13.97	183.79	506.03	129.13	114.61	14.52	8.893		
2,100.00	2,001.97	2,048.38	1,922.78	11.45	12.79	14.47	203.65	558.56	134.83	119.37	15.45	8.725		
2,200.00	2,083.88	2,143.75	1,998.01	12.56	13.97	14.99	224.38	613.38	140.41	123.98	16.43	8.547		
2,300.00	2,163.74	2,238.96	2,071.12	13.74	15.22	15.53	245.94	670.42	145.87	128.42	17.45	8.360		
2,400.00	2,241.45	2,334.02	2,142.06	14.99	16.53	16.08	268.32	729.60	151.22	132.69	18.52	8.163		
2,421.22	2,257.65	2,354.17	2,156.83	15.26	16.82	16.20	273.17	742.43	152.34	133.58	18.76	8.121		
2,500.00	2,317.63	2,430.69	2,212.17	16.29	17.93	16.59	291.86	791.86	157.27	137.55	19.71	7.977		
2,600.00	2,393.75	2,530.47	2,284.08	17.62	19.39	17.03	316.32	856.56	163.90	142.83	21.07	7.779		
2,700.00	2,469.88	2,630.24	2,355.98	18.95	20.87	17.44	340.78	921.26	170.54	148.09	22.45	7.596		
2,800.00	2,546.01	2,730.01	2,427.88	20.30	22.36	17.82	365.24	985.96	177.19	153.33	23.86	7.427		
2,900.00	2,622.13	2,829.78	2,499.79	21.65	23.85	18.16	389.70	1,050.66	183.85	158.56	25.29	7.271		
3,000.00	2,698.26	2,929.55	2,571.69	23.01	25.35	18.49	414.16	1,115.36	190.51	163.78	26.73	7.127		
3,100.00	2,774.38	3,029.33	2,643.59	24.37	26.86	18.79	438.62	1,180.06	197.18	168.99	28.19	6.994		
3,200.00	2,850.51	3,129.10	2,715.50	25.74	28.37	19.08	463.08	1,244.76	203.86	174.19	29.67	6.871		
3,300.00	2,926.64	3,228.87	2,787.40	27.11	29.88	19.34	487.54	1,309.46	210.54	179.38	31.16	6.756		
3,400.00	3,002.76	3,328.64	2,859.30	28.49	31.39	19.59	512.00	1,374.16	217.22	184.56	32.67	6.650		
3,500.00	3,078.89	3,428.41	2,931.21	29.87	32.91	19.82	536.46	1,438.86	223.91	189.73	34.18	6.551		
3,600.00	3,155.02	3,528.19	3,003.11	31.25	34.43	20.05	560.92	1,503.56	230.60	194.90	35.70	6.459		
3,700.00	3,231.14	3,627.96	3,075.01	32.63	35.95	20.25	585.38	1,568.26	237.29	200.06	37.24	6.373		
3,800.00	3,307.27	3,727.73	3,146.91	34.01	37.47	20.45	609.84	1,632.96	243.99	205.22	38.78	6.292		
3,900.00	3,383.39	3,827.50	3,218.82	35.40	39.00	20.64	634.30	1,697.66	250.69	210.37	40.32	6.217		
4,000.00	3,459.52	3,927.28	3,290.72	36.79	40.52	20.81	658.76	1,762.36	257.39	215.51	41.88	6.146		
4,100.00	3,535.65	4,027.05	3,362.62	38.18	42.05	20.98	683.22	1,827.06	264.10	220.66	43.44	6.080		
4,200.00	3,611.77	4,126.82	3,434.53	39.57	43.57	21.14	707.68	1,891.76	270.81	225.80	45.01	6.017		
4,300.00	3,687.90	4,226.59	3,506.43	40.96	45.10	21.29	732.14	1,956.46	277.51	230.93	46.58	5.958		
4,400.00	3,764.02	4,326.36	3,578.33	42.35	46.63	21.44	756.60	2,021.16	284.22	236.07	48.16	5.902		
4,500.00	3,840.15	4,426.14	3,650.24	43.74	48.16	21.57	781.06	2,085.86	290.94	241.20	49.74	5.849		
4,600.00	3,916.28	4,525.91	3,722.14	45.13	49.69	21.70	805.53	2,150.56	297.65	246.33	51.33	5.799		
4,700.00	3,992.40	4,625.68	3,794.04	46.53	51.22	21.83	829.99	2,215.26	304.37	251.45	52.92	5.752		
4,800.00	4,068.53	4,725.45	3,865.95	47.92	52.75	21.95	854.45	2,279.96	311.08	256.57	54.51	5.707		
4,900.00	4,144.66	4,825.22	3,937.85	49.32	54.29	22.07	878.91	2,344.66	317.80	261.69	56.11	5.664		
5,000.00	4,220.78	4,925.00	4,009.75	50.71	55.82	22.18	903.37	2,409.36	324.52	266.81	57.71	5.624		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,024.77	4,081.66	52.11	57.35	22.28	927.83	2,474.06	331.24	271.93	59.31	5.585		
5,200.00	4,373.03	5,124.54	4,153.56	53.51	58.89	22.38	952.29	2,538.76	337.96	277.05	60.92	5.548		
5,300.00	4,449.16	5,224.31	4,225.46	54.90	60.42	22.48	976.75	2,603.46	344.69	282.16	62.53	5.513		
5,400.00	4,525.29	5,324.08	4,297.37	56.30	61.95	22.58	1,001.21	2,668.16	351.41	287.27	64.14	5.479		
5,500.00	4,601.41	5,423.86	4,369.27	57.70	63.49	22.67	1,025.67	2,732.86	358.13	292.38	65.75	5.447		
5,600.00	4,677.54	5,523.63	4,441.17	59.10	65.02	22.75	1,050.13	2,797.56	364.86	297.49	67.37	5.416		
5,700.00	4,753.66	5,623.40	4,513.08	60.49	66.56	22.84	1,074.59	2,862.26	371.58	302.60	68.98	5.386		
5,800.00	4,829.79	5,723.17	4,584.98	61.89	68.09	22.92	1,099.05	2,926.96	378.31	307.71	70.60	5.358		
5,900.00	4,905.92	5,822.94	4,656.88	63.29	69.63	23.00	1,123.51	2,991.66	385.04	312.81	72.23	5.331		
6,000.00	4,982.04	5,922.72	4,728.79	64.69	71.16	23.07	1,147.97	3,056.36	391.77	317.92	73.85	5.305		
6,100.00	5,058.17	6,022.49	4,800.69	66.09	72.70	23.14	1,172.43	3,121.06	398.50	323.02	75.47	5.280		
6,200.00	5,134.30	6,122.26	4,872.59	67.49	74.24	23.22	1,196.89	3,185.76	405.23	328.13	77.10	5.256		
6,300.00	5,210.42	6,222.03	4,944.50	68.89	75.77	23.28	1,221.35	3,250.46	411.96	333.23	78.73	5.233		
6,400.00	5,286.55	6,321.81	5,016.40	70.29	77.31	23.35	1,245.81	3,315.16	418.69	338.33	80.36	5.210		
6,500.00	5,362.67	6,421.58	5,088.30	71.69	78.85	23.41	1,270.27	3,379.86	425.42	343.43	81.99	5.189		
6,600.00	5,438.80	6,521.35	5,160.20	73.09	80.38	23.48	1,294.73	3,444.56	432.15	348.53	83.62	5.168		
6,700.00	5,514.93	6,621.12	5,232.11	74.49	81.92	23.54	1,319.20	3,509.26	438.88	353.63	85.26	5.148		
6,800.00	5,591.05	6,720.89	5,304.01	75.89	83.46	23.59	1,343.66	3,573.96	445.62	358.73	86.89	5.129		
6,900.00	5,667.18	6,820.67	5,375.91	77.29	85.00	23.65	1,368.12	3,638.66	452.35	363.82	88.53	5.110		
7,000.00	5,743.30	6,920.44	5,447.82	78.69	86.53	23.71	1,392.58	3,703.36	459.08	368.92	90.16	5.092		
7,100.00	5,819.43	7,020.21	5,519.72	80.09	88.07	23.76	1,417.04	3,768.06	465.82	374.02	91.80	5.074		
7,200.00	5,895.56	7,119.98	5,591.62	81.49	89.61	23.81	1,441.50	3,832.76	472.55	379.11	93.44	5.057		
7,300.00	5,971.68	7,219.75	5,663.53	82.90	91.15	23.86	1,465.96	3,897.46	479.29	384.21	95.08	5.041		
7,400.00	6,047.81	7,319.53	5,735.43	84.30	92.68	23.91	1,490.42	3,962.16	486.02	389.30	96.72	5.025		
7,500.00	6,123.94	7,419.30	5,807.33	85.70	94.22	23.96	1,514.88	4,026.86	492.76	394.40	98.36	5.010		
7,600.00	6,200.06	7,519.07	5,879.24	87.10	95.76	24.00	1,539.34	4,091.56	499.49	399.49	100.00	4.995		
7,700.00	6,276.19	7,618.84	5,951.14	88.50	97.30	24.05	1,563.80	4,156.26	506.23	404.58	101.64	4.980		
7,800.00	6,352.31	7,718.61	6,023.04	89.90	98.84	24.09	1,588.26	4,220.96	512.96	409.68	103.29	4.966		
7,900.00	6,428.44	7,818.39	6,094.95	91.31	100.37	24.13	1,612.72	4,285.66	519.70	414.77	104.93	4.953		
8,000.00	6,504.57	7,918.16	6,166.85	92.71	101.91	24.18	1,637.18	4,350.36	526.44	419.86	106.58	4.940		
8,100.00	6,580.69	8,017.93	6,238.75	94.11	103.45	24.22	1,661.64	4,415.06	533.18	424.95	108.22	4.927		
8,200.00	6,656.82	8,117.70	6,310.66	95.51	104.99	24.26	1,686.10	4,479.76	539.91	430.04	109.87	4.914		
8,300.00	6,732.95	8,217.47	6,382.56	96.91	106.53	24.30	1,710.56	4,544.46	546.65	435.14	111.52	4.902		
8,400.00	6,809.07	8,317.25	6,454.46	98.32	108.07	24.33	1,735.02	4,609.16	553.39	440.23	113.16	4.890		
8,500.00	6,885.20	8,417.02	6,526.37	99.72	109.61	24.37	1,759.48	4,673.86	560.13	445.32	114.81	4.879		
8,600.00	6,961.32	8,516.79	6,598.27	101.12	111.14	24.41	1,783.94	4,738.56	566.87	450.41	116.46	4.867		
8,700.00	7,037.45	8,616.56	6,670.17	102.52	112.68	24.44	1,808.40	4,803.26	573.60	455.50	118.11	4.857		
8,732.15	7,061.92	8,648.64	6,693.29	102.97	113.18	24.45	1,816.27	4,824.06	575.77	457.13	118.64	4.853		
8,750.00	7,075.57	8,666.45	6,706.12	103.22	113.45	22.53	1,820.64	4,835.61	576.94	458.07	118.87	4.853		
8,800.00	7,114.27	8,716.22	6,741.99	103.91	114.22	16.53	1,832.84	4,867.88	579.91	461.00	118.91	4.877		
8,850.00	7,153.47	8,765.52	6,777.52	104.58	114.98	9.76	1,844.92	4,899.85	582.48	464.43	118.05	4.934		
8,900.00	7,192.85	8,813.98	6,812.45	105.21	115.73	2.46	1,856.80	4,931.28	584.79	468.47	116.32	5.027		
8,950.00	7,232.12	8,861.23	6,846.50	105.80	116.46	-5.12	1,868.39	4,961.92	587.08	473.27	113.81	5.158		
9,000.00	7,270.99	8,906.91	6,879.42	106.35	117.16	-12.71	1,879.59	4,991.54	589.67	479.00	110.67	5.328		
9,050.00	7,309.16	8,950.66	6,910.95	106.85	117.84	-20.05	1,890.31	5,019.91	592.94	485.81	107.13	5.535		
9,100.00	7,346.32	8,992.17	6,940.86	107.30	118.48	-26.95	1,900.49	5,046.83	597.31	493.82	103.49	5.771		
9,150.00	7,382.22	9,034.99	6,971.88	107.69	119.13	-33.41	1,910.10	5,074.73	603.13	502.79	100.34	6.011		
9,200.00	7,416.56	9,080.97	7,005.66	108.02	119.83	-39.36	1,917.02	5,105.12	610.37	512.13	98.25	6.213		
9,250.00	7,449.09	9,129.88	7,041.95	108.29	120.55	-44.79	1,920.36	5,137.74	618.97	521.71	97.26	6.364		
9,300.00	7,479.56	9,182.42	7,081.00	108.51	121.29	-49.75	1,919.30	5,172.83	628.81	531.56	97.25	6.466		
9,350.00	7,507.74	9,239.44	7,123.12	108.68	122.05	-54.31	1,912.72	5,210.66	639.72	541.84	97.88	6.536		
9,400.00	7,533.41	9,302.01	7,168.54	108.79	122.81	-58.53	1,899.06	5,251.43	651.48	552.80	98.68	6.602		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	9,371.50	7,217.35	108.86	123.55	-62.48	1,876.20	5,295.22	663.75	564.64	99.11	6.697		
9,500.00	7,576.48	9,449.51	7,269.25	108.88	124.25	-66.19	1,841.31	5,341.75	676.12	577.45	98.67	6.852		
9,550.00	7,593.55	9,537.78	7,323.13	108.86	124.86	-69.63	1,790.86	5,389.99	688.01	590.87	97.14	7.082		
9,600.00	7,607.46	9,637.86	7,376.43	108.80	125.32	-72.74	1,721.02	5,437.66	698.75	603.77	94.98	7.357		
9,650.00	7,618.11	9,750.40	7,424.58	108.71	125.58	-75.31	1,629.02	5,480.62	707.51	613.71	93.80	7.543		
9,700.00	7,625.41	9,874.12	7,460.99	108.59	125.58	-77.11	1,515.56	5,512.96	713.46	617.15	96.31	7.408		
9,750.00	7,629.30	10,004.95	7,478.91	108.45	125.34	-77.89	1,387.20	5,528.63	715.92	611.50	104.42	6.856		
9,769.06	7,629.89	9,769.06	7,479.68	108.39	126.04	-77.89	1,356.96	5,529.22	715.80	608.92	106.88	6.697		
9,781.81	7,630.00	10,062.23	7,480.00	108.35	125.18	-77.90	1,329.96	5,529.42	715.81	607.99	107.82	6.639		
9,800.00	7,630.00	10,080.42	7,480.00	108.29	125.13	-77.90	1,311.77	5,529.36	715.81	608.14	107.67	6.648		
9,900.00	7,630.00	10,180.42	7,480.00	107.97	124.85	-77.90	1,211.77	5,529.02	715.81	608.87	106.94	6.693		
10,000.00	7,630.00	10,280.42	7,480.00	107.67	124.58	-77.90	1,111.77	5,528.68	715.81	609.49	106.32	6.733		
10,100.00	7,630.00	10,380.42	7,480.00	107.38	124.32	-77.90	1,011.77	5,528.35	715.81	610.00	105.81	6.765		
10,200.00	7,630.00	10,480.42	7,480.00	107.10	124.07	-77.90	911.77	5,528.01	715.81	610.41	105.40	6.791		
10,300.00	7,630.00	10,580.42	7,480.00	106.84	123.83	-77.90	811.77	5,527.67	715.81	610.69	105.12	6.810		
10,400.00	7,630.00	10,680.42	7,480.00	106.59	123.61	-77.90	711.77	5,527.33	715.81	610.87	104.94	6.821		
10,500.00	7,630.00	10,780.42	7,480.00	106.35	123.39	-77.90	611.77	5,527.00	715.81	610.93	104.88	6.825		
10,600.00	7,630.00	10,880.42	7,480.00	106.13	123.19	-77.90	511.77	5,526.66	715.81	610.87	104.94	6.821		
10,700.00	7,630.00	10,980.42	7,480.00	105.92	122.99	-77.90	411.77	5,526.32	715.81	610.70	105.11	6.810		
10,800.00	7,630.00	11,080.42	7,480.00	105.72	122.81	-77.90	311.77	5,525.99	715.81	610.42	105.39	6.792		
10,900.00	7,630.00	11,180.42	7,480.00	105.54	122.64	-77.90	211.77	5,525.65	715.81	610.02	105.79	6.766		
11,000.00	7,630.00	11,280.42	7,480.00	105.37	122.48	-77.90	111.77	5,525.31	715.81	609.51	106.30	6.734		
11,100.00	7,630.00	11,380.42	7,480.00	105.21	122.33	-77.90	11.77	5,524.98	715.81	608.89	106.92	6.695		
11,200.00	7,630.00	11,480.42	7,480.00	105.06	122.20	-77.90	-88.23	5,524.64	715.81	608.16	107.65	6.649		
11,300.00	7,630.00	11,580.42	7,480.00	104.93	122.07	-77.90	-188.23	5,524.30	715.81	607.33	108.49	6.598		
11,400.00	7,630.00	11,680.42	7,480.00	104.82	121.96	-77.90	-288.23	5,523.97	715.81	606.39	109.43	6.541		
11,500.00	7,630.00	11,780.42	7,480.00	104.72	121.86	-77.90	-388.23	5,523.63	715.82	605.35	110.47	6.480		
11,600.00	7,630.00	11,880.42	7,480.00	104.63	121.77	-77.90	-488.22	5,523.29	715.82	604.21	111.61	6.414		
11,700.00	7,630.00	11,980.42	7,480.00	104.55	121.69	-77.90	-588.22	5,522.96	715.82	602.97	112.84	6.344		
11,800.00	7,630.00	12,080.42	7,480.00	104.50	121.62	-77.90	-688.22	5,522.62	715.82	601.65	114.17	6.270		
11,900.00	7,630.00	12,180.42	7,480.00	104.45	121.57	-77.90	-788.22	5,522.28	715.82	600.23	115.58	6.193		
12,000.00	7,630.00	12,280.42	7,480.00	104.43	121.53	-77.90	-888.22	5,521.95	715.82	598.73	117.09	6.114		
12,100.00	7,630.00	12,380.42	7,480.00	104.42	121.50	-77.90	-988.22	5,521.61	715.82	597.15	118.67	6.032		
12,200.00	7,630.00	12,480.42	7,480.00	104.42	121.48	-77.90	-1,088.22	5,521.27	715.82	595.48	120.33	5.949		
12,300.00	7,630.00	12,580.42	7,480.00	104.45	121.48	-77.90	-1,188.22	5,520.94	715.82	593.74	122.07	5.864		
12,400.00	7,630.00	12,680.42	7,480.00	104.49	121.49	-77.90	-1,288.22	5,520.60	715.82	591.93	123.89	5.778		
12,500.00	7,630.00	12,780.42	7,480.00	104.55	121.52	-77.90	-1,388.22	5,520.26	715.82	590.05	125.77	5.692		
12,600.00	7,630.00	12,880.42	7,480.00	104.63	121.56	-77.90	-1,488.22	5,519.92	715.82	588.10	127.72	5.605		
12,700.00	7,630.00	12,980.42	7,480.00	104.73	121.61	-77.90	-1,588.22	5,519.59	715.82	586.09	129.73	5.518		
12,800.00	7,630.00	13,080.42	7,480.00	104.85	121.68	-77.90	-1,688.22	5,519.25	715.82	584.02	131.80	5.431		
12,900.00	7,630.00	13,180.42	7,480.00	104.99	121.77	-77.90	-1,788.22	5,518.91	715.82	581.89	133.94	5.345		
13,000.00	7,630.00	13,280.42	7,480.00	105.15	121.87	-77.90	-1,888.22	5,518.58	715.82	579.70	136.12	5.259		
13,100.00	7,630.00	13,380.42	7,480.00	105.34	121.99	-77.90	-1,988.22	5,518.24	715.82	577.46	138.36	5.174		
13,200.00	7,630.00	13,480.42	7,480.00	105.56	122.13	-77.90	-2,088.22	5,517.90	715.82	575.17	140.65	5.089		
13,300.00	7,630.00	13,580.42	7,480.00	105.80	122.28	-77.90	-2,188.22	5,517.57	715.82	572.84	142.99	5.006		
13,400.00	7,630.00	13,680.42	7,480.00	106.06	122.46	-77.90	-2,288.21	5,517.23	715.82	570.45	145.37	4.924		
13,500.00	7,630.00	13,780.42	7,480.00	106.36	122.65	-77.90	-2,388.21	5,516.89	715.82	568.03	147.79	4.843		
13,600.00	7,630.00	13,880.42	7,480.00	106.68	122.86	-77.90	-2,488.21	5,516.56	715.82	565.56	150.26	4.764		
13,700.00	7,630.00	13,980.42	7,480.00	107.03	123.09	-77.90	-2,588.21	5,516.22	715.82	563.06	152.77	4.686		
13,800.00	7,630.00	14,080.42	7,480.00	107.42	123.35	-77.90	-2,688.21	5,515.88	715.83	560.52	155.31	4.609		
13,900.00	7,630.00	14,180.42	7,480.00	107.83	123.62	-77.90	-2,788.21	5,515.55	715.83	557.94	157.89	4.534		
14,000.00	7,630.00	14,280.42	7,480.00	108.28	123.92	-77.90	-2,888.21	5,515.21	715.83	555.33	160.50	4.460		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,630.00	14,380.42	7,480.00	108.77	124.25	-77.90	-2,988.21	5,514.87	715.83	552.68	163.14	4.388		
14,200.00	7,630.00	14,480.42	7,480.00	109.29	124.59	-77.90	-3,088.21	5,514.54	715.83	550.01	165.82	4.317		
14,300.00	7,630.00	14,580.42	7,480.00	109.84	124.96	-77.90	-3,188.21	5,514.20	715.83	547.31	168.52	4.248		
14,400.00	7,630.00	14,680.42	7,480.00	110.43	125.36	-77.90	-3,288.21	5,513.86	715.83	544.57	171.25	4.180		
14,500.00	7,630.00	14,780.42	7,480.00	111.06	125.78	-77.90	-3,388.21	5,513.53	715.83	541.82	174.01	4.114		
14,600.00	7,630.00	14,880.42	7,480.00	111.72	126.23	-77.90	-3,488.21	5,513.19	715.83	539.03	176.79	4.049		
14,700.00	7,630.00	14,980.42	7,480.00	112.42	126.71	-77.90	-3,588.21	5,512.85	715.83	536.23	179.60	3.986		
14,800.00	7,630.00	15,080.42	7,480.00	113.16	127.22	-77.90	-3,688.21	5,512.51	715.83	533.40	182.43	3.924		
14,900.00	7,630.00	15,180.42	7,480.00	113.94	127.75	-77.90	-3,788.21	5,512.18	715.83	530.55	185.28	3.863		
15,000.00	7,630.00	15,280.42	7,480.00	114.75	128.32	-77.90	-3,888.21	5,511.84	715.83	527.68	188.15	3.804		
15,100.00	7,630.00	15,380.42	7,480.00	115.60	128.91	-77.90	-3,988.20	5,511.50	715.83	524.78	191.05	3.747		
15,200.00	7,630.00	15,480.42	7,480.00	116.48	129.54	-77.90	-4,088.20	5,511.17	715.83	521.87	193.96	3.691		
15,300.00	7,630.00	15,580.42	7,480.00	117.40	130.19	-77.90	-4,188.20	5,510.83	715.83	518.94	196.89	3.636		
15,400.00	7,630.00	15,680.42	7,480.00	118.35	130.88	-77.90	-4,288.20	5,510.49	715.83	516.00	199.83	3.582		
15,500.00	7,630.00	15,780.42	7,480.00	119.34	131.59	-77.90	-4,388.20	5,510.16	715.83	513.03	202.80	3.530		
15,600.00	7,630.00	15,880.42	7,480.00	120.35	132.34	-77.90	-4,488.20	5,509.82	715.83	510.06	205.78	3.479		
15,700.00	7,630.00	15,980.42	7,480.00	121.40	133.12	-77.90	-4,588.20	5,509.48	715.83	507.06	208.77	3.429		
15,800.00	7,630.00	16,080.42	7,480.00	122.48	133.92	-77.90	-4,688.20	5,509.15	715.83	504.05	211.78	3.380		
15,900.00	7,630.00	16,180.42	7,480.00	123.58	134.76	-77.90	-4,788.20	5,508.81	715.83	501.03	214.80	3.332		
16,000.00	7,630.00	16,280.42	7,480.00	124.71	135.63	-77.90	-4,888.20	5,508.47	715.83	497.99	217.84	3.286		
16,100.00	7,630.00	16,380.42	7,480.00	125.87	136.52	-77.90	-4,988.20	5,508.14	715.83	494.94	220.89	3.241		
16,200.00	7,630.00	16,480.42	7,480.00	127.05	137.45	-77.90	-5,088.20	5,507.80	715.84	491.88	223.95	3.196		
16,300.00	7,630.00	16,580.42	7,480.00	128.26	138.40	-77.90	-5,188.20	5,507.46	715.84	488.81	227.03	3.153		
16,400.00	7,630.00	16,680.42	7,480.00	129.48	139.38	-77.90	-5,288.20	5,507.13	715.84	485.73	230.11	3.111		
16,500.00	7,630.00	16,780.42	7,480.00	130.73	140.39	-77.90	-5,388.20	5,506.79	715.84	482.63	233.21	3.070		
16,600.00	7,630.00	16,880.42	7,480.00	132.00	141.42	-77.90	-5,488.20	5,506.45	715.84	479.52	236.31	3.029		
16,700.00	7,630.00	16,980.42	7,480.00	133.29	142.48	-77.90	-5,588.20	5,506.12	715.84	476.41	239.43	2.990		
16,800.00	7,630.00	17,080.42	7,480.00	134.59	143.56	-77.90	-5,688.20	5,505.78	715.84	473.28	242.56	2.951		
16,900.00	7,630.00	17,180.42	7,480.00	135.91	144.67	-77.90	-5,788.19	5,505.44	715.84	470.15	245.69	2.914		
17,000.00	7,630.00	17,280.42	7,480.00	137.25	145.80	-77.90	-5,888.19	5,505.10	715.84	467.00	248.83	2.877		
17,100.00	7,630.00	17,380.42	7,480.00	138.61	146.95	-77.90	-5,988.19	5,504.77	715.84	463.85	251.99	2.841		
17,200.00	7,630.00	17,480.42	7,480.00	139.97	148.13	-77.90	-6,088.19	5,504.43	715.84	460.69	255.15	2.806		
17,300.00	7,630.00	17,580.42	7,480.00	141.36	149.32	-77.90	-6,188.19	5,504.09	715.84	457.52	258.32	2.771		
17,400.00	7,630.00	17,680.42	7,480.00	142.75	150.53	-77.90	-6,288.19	5,503.76	715.84	454.35	261.49	2.737		
17,500.00	7,630.00	17,780.42	7,480.00	144.16	151.77	-77.90	-6,388.19	5,503.42	715.84	451.16	264.68	2.705		
17,600.00	7,630.00	17,880.42	7,480.00	145.58	153.02	-77.90	-6,488.19	5,503.08	715.84	447.97	267.87	2.672		
17,700.00	7,630.00	17,980.42	7,480.00	147.01	154.28	-77.90	-6,588.19	5,502.75	715.84	444.77	271.07	2.641		
17,800.00	7,630.00	18,080.42	7,480.00	148.45	155.57	-77.90	-6,688.19	5,502.41	715.84	441.57	274.27	2.610		
17,900.00	7,630.00	18,180.42	7,480.00	149.91	156.87	-77.90	-6,788.19	5,502.07	715.84	438.36	277.48	2.580		
18,000.00	7,630.00	18,280.42	7,480.00	151.37	158.18	-77.90	-6,888.19	5,501.74	715.84	435.14	280.70	2.550		
18,100.00	7,630.00	18,380.42	7,480.00	152.84	159.51	-77.90	-6,988.19	5,501.40	715.84	431.92	283.93	2.521		
18,200.00	7,630.00	18,480.42	7,480.00	154.32	160.86	-77.90	-7,088.19	5,501.06	715.84	428.69	287.15	2.493		
18,300.00	7,630.00	18,580.42	7,480.00	155.81	162.21	-77.90	-7,188.19	5,500.73	715.84	425.45	290.39	2.465		
18,400.00	7,630.00	18,680.42	7,480.00	157.31	163.58	-77.90	-7,288.19	5,500.39	715.84	422.21	293.63	2.438		
18,500.00	7,630.00	18,780.42	7,480.00	158.81	164.97	-77.90	-7,388.19	5,500.05	715.85	418.97	296.88	2.411		
18,600.00	7,630.00	18,880.42	7,480.00	160.32	166.36	-77.90	-7,488.19	5,499.72	715.85	415.72	300.13	2.385		
18,700.00	7,630.00	18,980.42	7,480.00	161.84	167.76	-77.90	-7,588.18	5,499.38	715.85	412.46	303.38	2.360		
18,800.00	7,630.00	19,080.42	7,480.00	163.37	169.18	-77.90	-7,688.18	5,499.04	715.85	409.20	306.64	2.334		
18,900.00	7,630.00	19,180.42	7,480.00	164.90	170.61	-77.90	-7,788.18	5,498.71	715.85	405.94	309.91	2.310		
19,000.00	7,630.00	19,280.42	7,480.00	166.43	172.04	-77.90	-7,888.18	5,498.37	715.85	402.67	313.18	2.286		
19,100.00	7,630.00	19,380.42	7,480.00	167.98	173.49	-77.90	-7,988.18	5,498.03	715.85	399.40	316.45	2.262		
19,200.00	7,630.00	19,480.42	7,480.00	169.53	174.94	-77.90	-8,088.18	5,497.69	715.85	396.12	319.73	2.239		

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	19,580.42	7,480.00	171.08	176.40	-77.90	-8,188.18	5,497.36	715.85	392.84	323.01	2.216	
19,400.00	7,630.00	19,680.42	7,480.00	172.64	177.87	-77.90	-8,288.18	5,497.02	715.85	389.55	326.30	2.194	
19,500.00	7,630.00	19,780.42	7,480.00	174.21	179.35	-77.90	-8,388.18	5,496.68	715.85	386.26	329.59	2.172	
19,518.56	7,630.00	19,798.98	7,480.00	174.50	179.63	-77.90	-8,406.74	5,496.62	715.85	385.65	330.20	2.168 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	0.00	0.00	0.00	0.00	90.70	-0.36	29.96	29.96					
100.00	100.00	100.00	100.00	0.13	0.13	90.70	-0.36	29.96	29.96	29.69	0.27	111.445	CC, ES	
200.00	200.00	198.99	198.97	0.49	0.49	89.62	0.21	31.57	31.59	30.60	0.99	32.020		
300.00	300.00	297.74	297.58	0.85	0.85	86.98	1.92	36.39	36.52	34.81	1.71	21.415		
400.00	400.00	396.03	395.50	1.21	1.22	83.89	4.75	44.36	44.84	42.42	2.42	18.510		
500.00	499.98	493.83	492.59	1.56	1.60	14.77	8.68	55.43	54.92	51.79	3.13	17.569		
600.00	599.84	591.30	588.90	1.92	2.01	13.32	13.70	69.56	65.02	61.20	3.82	17.017		
700.00	699.45	688.44	684.31	2.29	2.45	12.44	19.78	86.71	75.10	70.58	4.52	16.618		
800.00	798.70	785.26	778.74	2.67	2.93	11.91	26.93	106.83	85.13	79.91	5.22	16.304		
900.00	897.47	881.75	872.09	3.07	3.44	11.63	35.10	129.85	95.09	89.16	5.93	16.038		
1,000.00	995.62	977.94	964.26	3.50	3.99	11.52	44.29	155.74	104.96	98.32	6.64	15.814		
1,100.00	1,093.06	1,073.82	1,055.17	3.96	4.58	11.54	54.48	184.44	114.73	107.37	7.36	15.590		
1,200.00	1,189.64	1,169.40	1,144.74	4.46	5.23	11.65	65.64	215.88	124.39	116.30	8.09	15.376		
1,300.00	1,285.27	1,264.69	1,232.87	5.00	5.92	11.84	77.76	250.01	133.93	125.10	8.83	15.165		
1,400.00	1,379.82	1,359.69	1,319.49	5.60	6.67	12.09	90.81	286.78	143.35	133.76	9.59	14.952		
1,500.00	1,473.17	1,454.42	1,404.53	6.25	7.47	12.39	104.78	326.10	152.63	142.27	10.36	14.734		
1,600.00	1,565.21	1,548.88	1,487.90	6.95	8.32	12.73	119.63	367.94	161.77	150.62	11.15	14.510		
1,700.00	1,655.84	1,643.08	1,569.54	7.72	9.24	13.10	135.35	412.21	170.76	158.80	11.96	14.276		
1,800.00	1,744.94	1,737.02	1,649.37	8.55	10.21	13.50	151.91	458.86	179.60	166.80	12.80	14.033		
1,900.00	1,832.39	1,830.72	1,727.34	9.45	11.24	13.93	169.29	507.82	188.28	174.61	13.66	13.779		
2,000.00	1,918.11	1,924.17	1,803.38	10.41	12.33	14.38	187.47	559.02	196.79	182.23	14.56	13.514		
2,100.00	2,001.97	2,017.40	1,877.42	11.45	13.48	14.84	206.42	612.40	205.14	189.64	15.50	13.237		
2,200.00	2,083.88	2,110.40	1,949.41	12.56	14.70	15.33	226.12	667.89	213.31	196.84	16.47	12.949		
2,300.00	2,163.74	2,203.19	2,019.29	13.74	15.97	15.83	246.54	725.41	221.30	203.81	17.49	12.650		
2,400.00	2,241.45	2,296.06	2,087.22	14.99	17.30	16.34	267.73	785.08	229.11	210.53	18.58	12.332		
2,421.22	2,257.65	2,317.22	2,102.48	15.26	17.62	16.47	272.63	798.89	230.64	211.78	18.86	12.227		
2,500.00	2,317.63	2,404.21	2,159.14	16.29	18.90	16.98	290.84	850.17	236.08	216.09	20.00	11.807		
2,600.00	2,393.75	2,504.49	2,231.07	17.62	20.40	17.59	313.95	915.27	243.01	221.60	21.40	11.354		
2,700.00	2,469.88	2,595.24	2,303.00	18.95	21.76	18.17	337.06	980.37	249.96	227.18	22.78	10.971		
2,800.00	2,546.01	2,694.97	2,374.93	20.30	23.26	18.72	360.17	1,045.47	256.94	232.68	24.25	10.593		
2,900.00	2,622.13	2,794.69	2,446.85	21.65	24.76	19.24	383.29	1,110.56	263.94	238.18	25.76	10.248		
3,000.00	2,698.26	2,905.58	2,518.78	23.01	26.44	19.73	406.40	1,175.66	270.96	243.59	27.36	9.902		
3,100.00	2,774.38	2,994.15	2,590.71	24.37	27.79	20.20	429.51	1,240.76	277.99	249.15	28.84	9.640		
3,200.00	2,850.51	3,093.88	2,662.64	25.74	29.30	20.64	452.62	1,305.86	285.05	254.63	30.42	9.372		
3,300.00	2,926.64	3,193.60	2,734.57	27.11	30.82	21.06	475.73	1,370.95	292.12	260.11	32.01	9.125		
3,400.00	3,002.76	3,293.33	2,806.50	28.49	32.35	21.46	498.85	1,436.05	299.21	265.58	33.63	8.897		
3,500.00	3,078.89	3,393.06	2,878.42	29.87	33.87	21.85	521.96	1,501.15	306.31	271.04	35.27	8.685		
3,600.00	3,155.02	3,507.22	2,950.35	31.25	35.62	22.21	545.07	1,566.25	313.42	276.39	37.03	8.464		
3,700.00	3,231.14	3,607.49	3,022.28	32.63	37.15	22.56	568.18	1,631.34	320.55	281.85	38.70	8.282		
3,800.00	3,307.27	3,707.76	3,094.21	34.01	38.69	22.90	591.29	1,696.44	327.69	287.29	40.39	8.113		
3,900.00	3,383.39	3,808.04	3,166.14	35.40	40.23	23.22	614.40	1,761.54	334.84	292.74	42.09	7.954		
4,000.00	3,459.52	3,908.31	3,238.06	36.79	41.77	23.53	637.52	1,826.64	341.99	298.18	43.81	7.806		
4,100.00	3,535.65	3,991.42	3,309.99	38.18	43.05	23.82	660.63	1,891.73	349.16	303.76	45.40	7.690		
4,200.00	3,611.77	4,108.85	3,381.92	39.57	44.85	24.10	683.74	1,956.83	356.34	309.06	47.27	7.538		
4,300.00	3,687.90	4,209.13	3,453.85	40.96	46.39	24.38	706.85	2,021.93	363.52	314.50	49.02	7.416		
4,400.00	3,764.02	4,309.40	3,525.78	42.35	47.94	24.64	729.96	2,087.03	370.71	319.94	50.78	7.301		
4,500.00	3,840.15	4,409.67	3,597.70	43.74	49.48	24.89	753.08	2,152.12	377.91	325.37	52.55	7.192		
4,600.00	3,916.28	4,490.05	3,669.63	45.13	50.72	25.13	776.19	2,217.22	385.12	330.96	54.16	7.110		
4,700.00	3,992.40	4,569.78	3,741.56	46.53	52.25	25.36	799.30	2,282.32	392.34	336.39	55.94	7.013		
4,800.00	4,068.53	4,649.51	3,813.49	47.92	53.79	25.59	822.41	2,347.42	399.55	341.83	57.73	6.921		
4,900.00	4,144.66	4,729.24	3,885.42	49.32	55.33	25.80	845.52	2,412.51	406.78	347.26	59.52	6.834		
5,000.00	4,220.78	4,808.96	3,957.35	50.71	56.86	26.01	868.63	2,477.61	414.01	352.69	61.32	6.752		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,988.69	4,029.27	52.11	58.40	26.21	891.75	2,542.71	421.25	358.12	63.13	6.673		
5,200.00	4,373.03	5,088.42	4,101.20	53.51	59.94	26.41	914.86	2,607.81	428.49	363.55	64.94	6.598		
5,300.00	4,449.16	5,188.14	4,173.13	54.90	61.48	26.60	937.97	2,672.90	435.74	368.98	66.76	6.527		
5,400.00	4,525.29	5,287.87	4,245.06	56.30	63.02	26.78	961.08	2,738.00	442.99	374.41	68.58	6.459		
5,500.00	4,601.41	5,387.60	4,316.99	57.70	64.56	26.96	984.19	2,803.10	450.24	379.83	70.41	6.395		
5,600.00	4,677.54	5,487.32	4,388.91	59.10	66.10	27.13	1,007.30	2,868.19	457.50	385.26	72.24	6.333		
5,700.00	4,753.66	5,587.05	4,460.84	60.49	67.64	27.29	1,030.42	2,933.29	464.76	390.68	74.08	6.274		
5,800.00	4,829.79	5,686.78	4,532.77	61.89	69.18	27.45	1,053.53	2,998.39	472.03	396.11	75.92	6.217		
5,900.00	4,905.92	5,786.51	4,604.70	63.29	70.71	27.61	1,076.64	3,063.49	479.30	401.53	77.77	6.163		
6,000.00	4,982.04	5,886.23	4,676.63	64.69	72.26	27.76	1,099.75	3,128.58	486.57	406.95	79.62	6.111		
6,100.00	5,058.17	5,985.96	4,748.55	66.09	73.80	27.90	1,122.86	3,193.68	493.85	412.38	81.48	6.061		
6,200.00	5,134.30	6,085.69	4,820.48	67.49	75.34	28.05	1,145.98	3,258.78	501.13	417.80	83.33	6.014		
6,300.00	5,210.42	6,185.41	4,892.41	68.89	76.88	28.18	1,169.09	3,323.88	508.41	423.22	85.19	5.968		
6,400.00	5,286.55	6,285.14	4,964.34	70.29	78.42	28.32	1,192.20	3,388.97	515.70	428.64	87.06	5.924		
6,500.00	5,362.67	6,384.87	5,036.27	71.69	79.96	28.45	1,215.31	3,454.07	522.99	434.06	88.93	5.881		
6,600.00	5,438.80	6,484.60	5,108.20	73.09	81.50	28.58	1,238.42	3,519.17	530.28	439.48	90.80	5.840		
6,700.00	5,514.93	6,584.32	5,180.12	74.49	83.04	28.70	1,261.53	3,584.27	537.57	444.90	92.67	5.801		
6,800.00	5,591.05	6,684.05	5,252.05	75.89	84.58	28.82	1,284.65	3,649.36	544.87	450.32	94.55	5.763		
6,900.00	5,667.18	6,783.78	5,323.98	77.29	86.12	28.94	1,307.76	3,714.46	552.17	455.74	96.43	5.726		
7,000.00	5,743.30	6,883.50	5,395.91	78.69	87.66	29.05	1,330.87	3,779.56	559.47	461.16	98.31	5.691		
7,100.00	5,819.43	6,983.23	5,467.84	80.09	89.21	29.16	1,353.98	3,844.66	566.77	466.58	100.19	5.657		
7,200.00	5,895.56	7,082.96	5,539.76	81.49	90.75	29.27	1,377.09	3,909.75	574.08	472.00	102.08	5.624		
7,300.00	5,971.68	7,182.68	5,611.69	82.90	92.29	29.37	1,400.21	3,974.85	581.38	477.42	103.97	5.592		
7,400.00	6,047.81	7,282.41	5,683.62	84.30	93.83	29.48	1,423.32	4,039.95	588.69	482.83	105.86	5.561		
7,500.00	6,123.94	7,382.14	5,755.55	85.70	95.37	29.58	1,446.43	4,105.05	596.00	488.25	107.75	5.531		
7,600.00	6,200.06	7,481.87	5,827.48	87.10	96.92	29.68	1,469.54	4,170.14	603.32	493.67	109.65	5.502		
7,700.00	6,276.19	7,581.59	5,899.40	88.50	98.46	29.77	1,492.65	4,235.24	610.63	499.09	111.54	5.474		
7,800.00	6,352.31	7,681.32	5,971.33	89.90	100.00	29.86	1,515.76	4,300.34	617.95	504.50	113.44	5.447		
7,900.00	6,428.44	7,781.05	6,043.26	91.31	101.54	29.96	1,538.88	4,365.44	625.26	509.92	115.34	5.421		
8,000.00	6,504.57	7,880.77	6,115.19	92.71	103.08	30.04	1,561.99	4,430.53	632.58	515.34	117.24	5.395		
8,100.00	6,580.69	7,980.50	6,187.12	94.11	104.63	30.13	1,585.10	4,495.63	639.90	520.76	119.15	5.371		
8,200.00	6,656.82	8,080.23	6,259.05	95.51	106.17	30.22	1,608.21	4,560.73	647.23	526.17	121.05	5.347		
8,300.00	6,732.95	8,179.96	6,330.97	96.91	107.71	30.30	1,631.32	4,625.83	654.55	531.59	122.96	5.323		
8,400.00	6,809.07	8,279.68	6,402.90	98.32	109.25	30.38	1,654.43	4,690.92	661.87	537.01	124.87	5.301		
8,500.00	6,885.20	8,379.41	6,474.83	99.72	110.80	30.46	1,677.55	4,756.02	669.20	542.42	126.78	5.279		
8,600.00	6,961.32	8,479.14	6,546.76	101.12	112.34	30.54	1,700.66	4,821.12	676.53	547.84	128.69	5.257		
8,700.00	7,037.45	8,578.86	6,618.69	102.52	113.88	30.61	1,723.77	4,886.21	683.86	553.25	130.60	5.236		
8,732.15	7,061.92	8,610.93	6,641.81	102.97	114.38	30.64	1,731.20	4,907.14	686.21	555.00	131.22	5.230		
8,750.00	7,075.57	8,628.73	6,654.65	103.22	114.65	28.73	1,735.33	4,918.77	687.46	555.95	131.51	5.228		
8,800.00	7,114.27	8,678.53	6,690.57	103.91	115.42	22.80	1,746.87	4,951.27	690.33	558.57	131.76	5.239		
8,850.00	7,153.47	8,727.92	6,726.19	104.58	116.19	16.12	1,758.31	4,983.51	692.30	561.11	131.19	5.277		
8,900.00	7,192.85	8,776.53	6,761.25	105.21	116.94	8.92	1,769.58	5,015.24	693.49	563.70	129.79	5.343		
8,950.00	7,232.12	8,823.98	6,795.48	105.80	117.67	1.44	1,780.58	5,046.22	694.11	566.52	127.59	5.440		
9,000.00	7,270.99	8,869.92	6,826.61	106.35	118.39	-6.07	1,791.22	5,076.20	694.43	569.79	124.63	5.572		
9,050.00	7,309.16	8,914.00	6,860.40	106.85	119.07	-13.38	1,801.44	5,104.97	694.77	573.76	121.01	5.742		
9,100.00	7,346.32	8,955.87	6,890.60	107.30	119.72	-20.31	1,811.14	5,132.31	695.52	578.67	116.85	5.952		
9,150.00	7,382.22	8,995.22	6,918.99	107.69	120.32	-26.71	1,820.26	5,158.00	697.10	584.71	112.38	6.203		
9,200.00	7,416.56	9,031.76	6,945.34	108.02	120.89	-32.48	1,828.73	5,181.85	699.93	592.04	107.89	6.487		
9,250.00	7,449.09	9,065.20	6,969.46	108.29	121.41	-37.53	1,836.48	5,203.67	704.44	600.69	103.76	6.789		
9,300.00	7,479.56	9,104.71	6,991.16	108.51	122.02	-41.81	1,843.45	5,223.32	711.03	610.56	100.46	7.077		
9,350.00	7,507.74	9,121.80	7,010.28	108.68	122.28	-45.26	1,849.60	5,240.62	720.01	621.74	98.26	7.327		
9,400.00	7,533.41	9,144.53	7,026.67	108.79	122.63	-47.84	1,854.86	5,255.46	731.62	633.96	97.66	7.491		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	9,163.30	7,040.21	108.86	122.92	-49.53	1,859.21	5,267.71	746.03	647.27	98.75	7.555		
9,500.00	7,576.48	9,177.98	7,050.80	108.88	123.15	-50.30	1,862.62	5,277.29	763.24	661.79	101.46	7.523		
9,550.00	7,593.55	9,188.44	7,058.35	108.86	123.31	-50.14	1,865.04	5,284.12	783.20	677.68	105.52	7.423		
9,600.00	7,607.46	9,194.62	7,062.80	108.80	123.41	-49.04	1,866.47	5,288.16	805.70	695.15	110.56	7.288		
9,650.00	7,618.11	9,203.54	7,064.13	108.71	123.55	-47.03	1,866.90	5,289.36	830.49	714.24	116.25	7.144		
9,700.00	7,625.41	9,193.96	7,062.32	108.59	123.40	-44.14	1,866.32	5,287.72	857.20	735.12	122.08	7.022		
9,750.00	7,629.30	9,187.12	7,057.39	108.45	123.29	-40.47	1,864.73	5,283.26	885.44	757.50	127.93	6.921		
9,781.81	7,630.00	9,180.54	7,052.64	108.35	123.19	-37.79	1,863.21	5,278.96	903.99	772.44	131.55	6.872		
9,800.00	7,630.00	9,176.28	7,049.57	108.29	123.13	-37.47	1,862.22	5,276.18	914.81	781.24	133.57	6.849		
9,900.00	7,630.00	9,152.89	7,032.70	107.97	122.76	-35.73	1,856.80	5,260.91	977.88	833.80	144.08	6.787		
10,000.00	7,630.00	9,129.49	7,015.83	107.67	122.40	-34.01	1,851.38	5,245.64	1,046.20	892.82	153.38	6.821		
10,100.00	7,630.00	10,770.93	7,730.00	107.38	132.29	-95.39	1,010.54	5,888.37	1,064.65	971.23	93.43	11.396		
10,200.00	7,630.00	10,870.93	7,730.00	107.10	132.06	-95.39	910.54	5,888.04	1,064.65	972.06	92.59	11.498		
10,300.00	7,630.00	10,970.93	7,730.00	106.84	131.83	-95.39	810.54	5,887.70	1,064.65	972.77	91.89	11.587		
10,400.00	7,630.00	11,070.93	7,730.00	106.59	131.62	-95.39	710.54	5,887.36	1,064.65	973.34	91.31	11.660		
10,500.00	7,630.00	11,170.93	7,730.00	106.35	131.41	-95.39	610.54	5,887.02	1,064.65	973.78	90.87	11.716		
10,600.00	7,630.00	11,270.93	7,730.00	106.13	131.22	-95.39	510.54	5,886.68	1,064.65	974.09	90.56	11.756		
10,700.00	7,630.00	11,370.93	7,730.00	105.92	131.04	-95.39	410.55	5,886.35	1,064.65	974.26	90.39	11.778		
10,800.00	7,630.00	11,470.93	7,730.00	105.72	130.86	-95.39	310.55	5,886.01	1,064.65	974.29	90.36	11.783		
10,900.00	7,630.00	11,570.93	7,730.00	105.54	130.70	-95.39	210.55	5,885.67	1,064.65	974.19	90.46	11.769		
11,000.00	7,630.00	11,670.93	7,730.00	105.37	130.55	-95.39	110.55	5,885.33	1,064.65	973.95	90.70	11.738		
11,100.00	7,630.00	11,770.93	7,730.00	105.21	130.41	-95.39	10.55	5,884.99	1,064.65	973.57	91.08	11.690		
11,200.00	7,630.00	11,870.93	7,730.00	105.06	130.28	-95.39	-89.45	5,884.66	1,064.65	973.06	91.59	11.625		
11,300.00	7,630.00	11,970.93	7,730.00	104.93	130.16	-95.39	-189.45	5,884.32	1,064.65	972.42	92.23	11.544		
11,400.00	7,630.00	12,070.93	7,730.00	104.82	130.05	-95.39	-289.45	5,883.98	1,064.64	971.65	93.00	11.448		
11,500.00	7,630.00	12,170.93	7,730.00	104.72	129.95	-95.39	-389.45	5,883.64	1,064.64	970.75	93.90	11.339		
11,600.00	7,630.00	12,270.93	7,730.00	104.63	129.87	-95.39	-489.45	5,883.30	1,064.64	969.73	94.91	11.217		
11,700.00	7,630.00	12,370.93	7,730.00	104.55	129.79	-95.39	-589.45	5,882.97	1,064.64	968.59	96.05	11.084		
11,800.00	7,630.00	12,470.93	7,730.00	104.50	129.73	-95.39	-689.45	5,882.63	1,064.64	967.34	97.30	10.941		
11,900.00	7,630.00	12,570.93	7,730.00	104.45	129.68	-95.39	-789.45	5,882.29	1,064.64	965.98	98.67	10.790		
12,000.00	7,630.00	12,670.93	7,730.00	104.43	129.64	-95.39	-889.45	5,881.95	1,064.64	964.51	100.13	10.632		
12,100.00	7,630.00	12,770.93	7,730.00	104.42	129.61	-95.39	-989.45	5,881.61	1,064.64	962.94	101.70	10.468		
12,200.00	7,630.00	12,870.93	7,730.00	104.42	129.59	-95.39	-1,089.45	5,881.28	1,064.64	961.27	103.36	10.300		
12,300.00	7,630.00	12,970.93	7,730.00	104.45	129.59	-95.39	-1,189.45	5,880.94	1,064.64	959.52	105.12	10.128		
12,400.00	7,630.00	13,070.93	7,730.00	104.49	129.59	-95.39	-1,289.45	5,880.60	1,064.64	957.67	106.96	9.953		
12,500.00	7,630.00	13,170.93	7,730.00	104.55	129.62	-95.39	-1,389.44	5,880.26	1,064.64	955.75	108.89	9.777		
12,600.00	7,630.00	13,270.93	7,730.00	104.63	129.65	-95.39	-1,489.44	5,879.92	1,064.64	953.74	110.89	9.601		
12,700.00	7,630.00	13,370.93	7,730.00	104.73	129.70	-95.39	-1,589.44	5,879.59	1,064.64	951.66	112.97	9.424		
12,800.00	7,630.00	13,470.93	7,730.00	104.85	129.76	-95.39	-1,689.44	5,879.25	1,064.63	949.51	115.12	9.248		
12,900.00	7,630.00	13,570.93	7,730.00	104.99	129.84	-95.39	-1,789.44	5,878.91	1,064.63	947.30	117.34	9.073		
13,000.00	7,630.00	13,670.93	7,730.00	105.15	129.93	-95.39	-1,889.44	5,878.57	1,064.63	945.02	119.61	8.901		
13,100.00	7,630.00	13,770.93	7,730.00	105.34	130.03	-95.39	-1,989.44	5,878.23	1,064.63	942.68	121.95	8.730		
13,200.00	7,630.00	13,870.93	7,730.00	105.56	130.15	-95.39	-2,089.44	5,877.90	1,064.63	940.29	124.34	8.562		
13,300.00	7,630.00	13,970.93	7,730.00	105.80	130.29	-95.39	-2,189.44	5,877.56	1,064.63	937.84	126.79	8.397		
13,400.00	7,630.00	14,070.93	7,730.00	106.06	130.44	-95.39	-2,289.44	5,877.22	1,064.63	935.35	129.28	8.235		
13,500.00	7,630.00	14,170.93	7,730.00	106.36	130.61	-95.39	-2,389.44	5,876.88	1,064.63	932.81	131.82	8.076		
13,600.00	7,630.00	14,270.93	7,730.00	106.68	130.80	-95.39	-2,489.44	5,876.55	1,064.63	930.22	134.41	7.921		
13,700.00	7,630.00	14,370.93	7,730.00	107.03	131.01	-95.39	-2,589.44	5,876.21	1,064.63	927.59	137.04	7.769		
13,800.00	7,630.00	14,470.93	7,730.00	107.42	131.23	-95.39	-2,689.44	5,875.87	1,064.63	924.92	139.70	7.621		
13,900.00	7,630.00	14,570.93	7,730.00	107.83	131.48	-95.39	-2,789.44	5,875.53	1,064.63	922.22	142.41	7.476		
14,000.00	7,630.00	14,670.93	7,730.00	108.28	131.74	-95.39	-2,889.44	5,875.19	1,064.63	919.48	145.15	7.335		
14,100.00	7,630.00	14,770.93	7,730.00	108.77	132.02	-95.39	-2,989.44	5,874.86	1,064.63	916.71	147.92	7.197		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,630.00	14,870.93	7,730.00	109.29	132.33	-95.39	-3,089.43	5,874.52	1,064.62	913.90	150.72	7.064		
14,300.00	7,630.00	14,970.93	7,730.00	109.84	132.65	-95.39	-3,189.43	5,874.18	1,064.62	911.07	153.55	6.933		
14,400.00	7,630.00	15,070.93	7,730.00	110.43	133.00	-95.39	-3,289.43	5,873.84	1,064.62	908.21	156.42	6.806		
14,500.00	7,630.00	15,170.93	7,730.00	111.06	133.37	-95.39	-3,389.43	5,873.50	1,064.62	905.32	159.30	6.683		
14,600.00	7,630.00	15,270.93	7,730.00	111.72	133.76	-95.39	-3,489.43	5,873.17	1,064.62	902.41	162.21	6.563		
14,700.00	7,630.00	15,370.93	7,730.00	112.42	134.18	-95.39	-3,589.43	5,872.83	1,064.62	899.47	165.15	6.446		
14,800.00	7,630.00	15,470.93	7,730.00	113.16	134.62	-95.39	-3,689.43	5,872.49	1,064.62	896.51	168.11	6.333		
14,900.00	7,630.00	15,570.93	7,730.00	113.94	135.09	-95.39	-3,789.43	5,872.15	1,064.62	893.53	171.09	6.223		
15,000.00	7,630.00	15,670.93	7,730.00	114.75	135.58	-95.39	-3,889.43	5,871.81	1,064.62	890.53	174.09	6.115		
15,100.00	7,630.00	15,770.93	7,730.00	115.60	136.10	-95.39	-3,989.43	5,871.48	1,064.62	887.51	177.11	6.011		
15,200.00	7,630.00	15,870.93	7,730.00	116.48	136.65	-95.39	-4,089.43	5,871.14	1,064.62	884.47	180.15	5.910		
15,300.00	7,630.00	15,970.93	7,730.00	117.40	137.22	-95.39	-4,189.43	5,870.80	1,064.62	881.41	183.20	5.811		
15,400.00	7,630.00	16,070.93	7,730.00	118.35	137.82	-95.39	-4,289.43	5,870.46	1,064.62	878.34	186.27	5.715		
15,500.00	7,630.00	16,170.93	7,730.00	119.34	138.44	-95.39	-4,389.43	5,870.12	1,064.62	875.25	189.36	5.622		
15,600.00	7,630.00	16,270.93	7,730.00	120.35	139.10	-95.39	-4,489.43	5,869.79	1,064.61	872.15	192.46	5.532		
15,700.00	7,630.00	16,370.93	7,730.00	121.40	139.78	-95.39	-4,589.43	5,869.45	1,064.61	869.03	195.58	5.443		
15,800.00	7,630.00	16,470.93	7,730.00	122.48	140.49	-95.39	-4,689.43	5,869.11	1,064.61	865.90	198.71	5.358		
15,900.00	7,630.00	16,570.93	7,730.00	123.58	141.23	-95.39	-4,789.43	5,868.77	1,064.61	862.76	201.85	5.274		
16,000.00	7,630.00	16,670.93	7,730.00	124.71	142.00	-95.39	-4,889.42	5,868.43	1,064.61	859.61	205.01	5.193		
16,100.00	7,630.00	16,770.93	7,730.00	125.87	142.79	-95.39	-4,989.42	5,868.10	1,064.61	856.44	208.17	5.114		
16,200.00	7,630.00	16,870.93	7,730.00	127.05	143.61	-95.39	-5,089.42	5,867.76	1,064.61	853.26	211.35	5.037		
16,300.00	7,630.00	16,970.93	7,730.00	128.26	144.46	-95.39	-5,189.42	5,867.42	1,064.61	850.07	214.54	4.962		
16,400.00	7,630.00	17,070.93	7,730.00	129.48	145.34	-95.39	-5,289.42	5,867.08	1,064.61	846.87	217.74	4.889		
16,500.00	7,630.00	17,170.93	7,730.00	130.73	146.24	-95.39	-5,389.42	5,866.74	1,064.61	843.66	220.95	4.818		
16,600.00	7,630.00	17,270.93	7,730.00	132.00	147.17	-95.39	-5,489.42	5,866.41	1,064.61	840.44	224.17	4.749		
16,700.00	7,630.00	17,370.93	7,730.00	133.29	148.12	-95.39	-5,589.42	5,866.07	1,064.61	837.21	227.39	4.682		
16,800.00	7,630.00	17,470.93	7,730.00	134.59	149.10	-95.39	-5,689.42	5,865.73	1,064.61	833.98	230.63	4.616		
16,900.00	7,630.00	17,570.93	7,730.00	135.91	150.11	-95.39	-5,789.42	5,865.39	1,064.61	830.73	233.87	4.552		
17,000.00	7,630.00	17,670.93	7,730.00	137.25	151.13	-95.39	-5,889.42	5,865.05	1,064.60	827.48	237.13	4.490		
17,100.00	7,630.00	17,770.93	7,730.00	138.61	152.19	-95.39	-5,989.42	5,864.72	1,064.60	824.22	240.38	4.429		
17,200.00	7,630.00	17,870.93	7,730.00	139.97	153.26	-95.39	-6,089.42	5,864.38	1,064.60	820.95	243.65	4.369		
17,300.00	7,630.00	17,970.93	7,730.00	141.36	154.36	-95.39	-6,189.42	5,864.04	1,064.60	817.68	246.93	4.311		
17,400.00	7,630.00	18,070.93	7,730.00	142.75	155.47	-95.39	-6,289.42	5,863.70	1,064.60	814.40	250.21	4.255		
17,500.00	7,630.00	18,170.93	7,730.00	144.16	156.61	-95.39	-6,389.42	5,863.36	1,064.60	811.11	253.49	4.200		
17,600.00	7,630.00	18,270.93	7,730.00	145.58	157.77	-95.39	-6,489.42	5,863.03	1,064.60	807.81	256.79	4.146		
17,700.00	7,630.00	18,370.93	7,730.00	147.01	158.95	-95.39	-6,589.41	5,862.69	1,064.60	804.51	260.09	4.093		
17,800.00	7,630.00	18,470.93	7,730.00	148.45	160.15	-95.39	-6,689.41	5,862.35	1,064.60	801.21	263.39	4.042		
17,900.00	7,630.00	18,570.93	7,730.00	149.91	161.36	-95.39	-6,789.41	5,862.01	1,064.60	797.90	266.70	3.992		
18,000.00	7,630.00	18,670.93	7,730.00	151.37	162.59	-95.39	-6,889.41	5,861.67	1,064.60	794.58	270.02	3.943		
18,100.00	7,630.00	18,770.93	7,730.00	152.84	163.84	-95.39	-6,989.41	5,861.34	1,064.60	791.26	273.34	3.895		
18,200.00	7,630.00	18,870.93	7,730.00	154.32	165.11	-95.39	-7,089.41	5,861.00	1,064.60	787.93	276.66	3.848		
18,300.00	7,630.00	18,970.93	7,730.00	155.81	166.39	-95.39	-7,189.41	5,860.66	1,064.59	784.60	280.00	3.802		
18,400.00	7,630.00	19,070.93	7,730.00	157.31	167.68	-95.39	-7,289.41	5,860.32	1,064.59	781.26	283.33	3.757		
18,500.00	7,630.00	19,170.93	7,730.00	158.81	168.99	-95.39	-7,389.41	5,859.98	1,064.59	777.92	286.67	3.714		
18,600.00	7,630.00	19,270.93	7,730.00	160.32	170.32	-95.39	-7,489.41	5,859.65	1,064.59	774.58	290.02	3.671		
18,700.00	7,630.00	19,370.93	7,730.00	161.84	171.65	-95.39	-7,589.41	5,859.31	1,064.59	771.23	293.36	3.629		
18,800.00	7,630.00	19,470.93	7,730.00	163.37	173.00	-95.39	-7,689.41	5,858.97	1,064.59	767.88	296.72	3.588		
18,900.00	7,630.00	19,570.93	7,730.00	164.90	174.36	-95.39	-7,789.41	5,858.63	1,064.59	764.52	300.07	3.548		
19,000.00	7,630.00	19,670.93	7,730.00	166.43	175.74	-95.39	-7,889.41	5,858.29	1,064.59	761.16	303.43	3.508		
19,100.00	7,630.00	19,770.93	7,730.00	167.98	177.12	-95.39	-7,989.41	5,857.96	1,064.59	757.79	306.80	3.470		
19,200.00	7,630.00	19,870.93	7,730.00	169.53	178.52	-95.39	-8,089.41	5,857.62	1,064.59	754.43	310.16	3.432		
19,300.00	7,630.00	19,970.93	7,730.00	171.08	179.92	-95.39	-8,189.41	5,857.28	1,064.59	751.05	313.53	3.395		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,400.00	7,630.00	20,070.93	7,730.00	172.64	181.34	-95.39	-8,289.41	5,856.94	1,064.59	747.68	316.91	3.359	
19,500.00	7,630.00	20,170.93	7,730.00	174.21	182.76	-95.39	-8,389.40	5,856.60	1,064.59	744.30	320.28	3.324	
19,518.56	7,630.00	20,189.49	7,730.00	174.50	183.03	-95.39	-8,407.97	5,856.54	1,064.59	743.67	320.91	3.317 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.58	0.73	-100.24	100.24					
100.00	100.00	102.00	102.00	0.13	0.14	-89.58	0.73	-100.24	100.24	99.97	0.28	363.171		
200.00	200.00	202.00	202.00	0.49	0.50	-89.58	0.73	-100.24	100.24	99.25	0.99	100.954		
300.00	300.00	302.00	302.00	0.85	0.86	-89.58	0.73	-100.24	100.24	98.53	1.71	58.625		
400.00	400.00	402.00	402.00	1.21	1.22	-89.58	0.73	-100.24	100.24	97.82	2.43	41.306 CC, ES		
500.00	499.98	501.98	501.98	1.56	1.58	-156.69	0.73	-100.24	101.84	98.70	3.14	32.441		
600.00	599.84	601.84	601.84	1.92	1.93	-157.77	0.73	-100.24	106.67	102.82	3.85	27.690		
700.00	699.45	701.45	701.45	2.29	2.29	-159.35	0.73	-100.24	114.79	110.22	4.57	25.125		
800.00	798.70	800.70	800.70	2.67	2.65	-161.23	0.73	-100.24	126.27	120.98	5.29	23.882		
900.00	897.47	900.53	899.47	3.07	3.00	-163.18	0.73	-100.24	141.19	135.17	6.01	23.486		
1,000.00	995.62	1,002.38	997.62	3.50	3.37	-165.07	0.73	-100.24	159.57	152.82	6.75	23.653		
1,100.00	1,093.06	1,104.94	1,095.06	3.96	3.74	-166.79	0.73	-100.24	181.42	173.93	7.49	24.234		
1,200.00	1,189.64	1,208.36	1,191.64	4.46	4.11	-168.32	0.73	-100.24	206.73	198.50	8.23	25.112		
1,300.00	1,285.27	1,287.27	1,287.27	5.00	4.39	-169.65	0.73	-100.24	235.48	226.58	8.89	26.477		
1,400.00	1,379.82	1,381.82	1,381.82	5.60	4.73	-170.80	0.73	-100.24	267.61	258.00	9.61	27.834		
1,500.00	1,473.17	1,482.13	1,482.12	6.25	5.09	-171.70	1.66	-99.52	302.22	291.86	10.36	29.158		
1,600.00	1,565.21	1,584.90	1,584.78	6.95	5.45	-172.14	5.44	-96.58	337.48	326.35	11.13	30.324		
1,700.00	1,655.84	1,688.67	1,688.19	7.72	5.83	-172.19	12.21	-91.33	373.26	361.36	11.90	31.356		
1,800.00	1,744.94	1,793.42	1,792.19	8.55	6.20	-171.96	22.04	-83.71	409.53	396.84	12.69	32.268		
1,900.00	1,832.39	1,899.13	1,896.61	9.45	6.60	-171.51	35.00	-73.65	446.26	432.77	13.50	33.067		
2,000.00	1,918.11	2,005.78	2,001.27	10.41	7.01	-170.87	51.14	-61.13	483.45	469.13	14.32	33.756		
2,100.00	2,001.97	2,113.34	2,105.99	11.45	7.45	-170.09	70.54	-46.08	521.10	505.93	15.17	34.340		
2,200.00	2,083.88	2,221.81	2,210.58	12.56	7.92	-169.19	93.22	-28.48	559.21	543.14	16.07	34.806		
2,300.00	2,163.74	2,331.15	2,314.84	13.74	8.43	-168.18	119.24	-8.29	597.79	580.79	17.00	35.161		
2,400.00	2,241.45	2,441.35	2,418.57	14.99	8.99	-167.09	148.62	14.51	636.86	618.87	17.99	35.397		
2,421.22	2,257.65	2,464.84	2,440.49	15.26	9.12	-166.85	155.29	19.68	645.21	627.00	18.21	35.426		
2,500.00	2,317.63	2,552.84	2,521.98	16.29	9.61	-166.06	181.54	40.04	675.45	656.40	19.05	35.455		
2,600.00	2,393.75	2,666.45	2,625.60	17.62	10.29	-164.93	218.32	68.58	711.47	691.28	20.19	35.235		
2,700.00	2,469.88	2,758.42	2,708.81	18.95	10.88	-164.03	249.27	92.59	746.40	725.08	21.32	35.013		
2,800.00	2,546.01	2,851.47	2,792.99	20.30	11.49	-163.19	280.59	116.89	781.49	759.01	22.48	34.761		
2,900.00	2,622.13	2,944.52	2,877.18	21.65	12.12	-162.43	311.91	141.19	816.71	793.03	23.68	34.493		
3,000.00	2,698.26	3,037.57	2,961.37	23.01	12.77	-161.72	343.22	165.49	852.05	827.14	24.90	34.215		
3,100.00	2,774.38	3,130.63	3,045.56	24.37	13.42	-161.08	374.54	189.79	887.49	861.33	26.15	33.933		
3,200.00	2,850.51	3,223.68	3,129.74	25.74	14.09	-160.48	405.86	214.09	923.02	895.59	27.43	33.651		
3,300.00	2,926.64	3,316.73	3,213.93	27.11	14.77	-159.93	437.18	238.39	958.64	929.91	28.72	33.373		
3,400.00	3,002.76	3,409.78	3,298.12	28.49	15.45	-159.41	468.50	262.69	994.33	964.29	30.04	33.101		
3,500.00	3,078.89	3,502.84	3,382.30	29.87	16.14	-158.93	499.82	286.99	1,030.08	998.71	31.37	32.836		
3,600.00	3,155.02	3,604.11	3,466.49	31.25	16.90	-158.49	531.13	311.29	1,065.90	1,033.13	32.77	32.528		
3,700.00	3,231.14	3,688.94	3,550.68	32.63	17.54	-158.07	562.45	335.59	1,101.77	1,067.69	34.08	32.330		
3,800.00	3,307.27	3,781.99	3,634.86	34.01	18.25	-157.68	593.77	359.89	1,137.68	1,102.23	35.45	32.091		
3,900.00	3,383.39	3,875.04	3,719.05	35.40	18.96	-157.31	625.09	384.18	1,173.64	1,136.80	36.84	31.861		
4,000.00	3,459.52	3,968.10	3,803.24	36.79	19.67	-156.96	656.41	408.48	1,209.64	1,171.41	38.23	31.640		
4,100.00	3,535.65	4,061.15	3,887.43	38.18	20.39	-156.64	687.73	432.78	1,245.68	1,206.04	39.64	31.428		
4,200.00	3,611.77	4,154.20	3,971.61	39.57	21.11	-156.33	719.05	457.08	1,281.74	1,240.70	41.05	31.225		
4,300.00	3,687.90	4,247.25	4,055.80	40.96	21.84	-156.04	750.36	481.38	1,317.84	1,275.38	42.47	31.031		
4,400.00	3,764.02	4,340.31	4,139.99	42.35	22.56	-155.76	781.68	505.68	1,353.97	1,310.08	43.90	30.845		
4,500.00	3,840.15	4,433.36	4,224.17	43.74	23.29	-155.50	813.00	529.98	1,390.13	1,344.79	45.33	30.666		
4,600.00	3,916.28	4,526.41	4,308.36	45.13	24.02	-155.25	844.32	554.28	1,426.30	1,379.53	46.77	30.495		
4,700.00	3,992.40	4,619.46	4,392.55	46.53	24.75	-155.02	875.64	578.58	1,462.50	1,414.29	48.22	30.332		
4,800.00	4,068.53	4,712.52	4,476.74	47.92	25.48	-154.79	906.96	602.88	1,498.72	1,449.05	49.67	30.175		
4,900.00	4,144.66	4,805.57	4,560.92	49.32	26.22	-154.58	938.27	627.18	1,534.96	1,483.84	51.12	30.024		
5,000.00	4,220.78	4,901.38	4,645.11	50.71	26.98	-154.38	969.59	651.48	1,571.22	1,518.62	52.60	29.870		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	5,008.33	4,729.30	52.11	27.83	-154.18	1,000.91	675.77	1,607.49	1,553.33	54.16	29.680		
5,200.00	4,373.03	5,084.73	4,813.48	53.51	28.43	-153.99	1,032.23	700.07	1,643.78	1,588.26	55.52	29.609		
5,300.00	4,449.16	5,177.78	4,897.67	54.90	29.17	-153.82	1,063.55	724.37	1,680.08	1,623.10	56.99	29.481		
5,400.00	4,525.29	5,270.83	4,981.86	56.30	29.91	-153.64	1,094.87	748.67	1,716.40	1,657.94	58.46	29.359		
5,500.00	4,601.41	5,363.88	5,066.04	57.70	30.65	-153.48	1,126.19	772.97	1,752.73	1,692.79	59.94	29.241		
5,600.00	4,677.54	5,456.94	5,150.23	59.10	31.40	-153.32	1,157.50	797.27	1,789.07	1,727.65	61.42	29.127		
5,700.00	4,753.66	5,549.99	5,234.42	60.49	32.14	-153.17	1,188.82	821.57	1,825.43	1,762.52	62.91	29.018		
5,800.00	4,829.79	5,643.04	5,318.61	61.89	32.88	-153.03	1,220.14	845.87	1,861.79	1,797.40	64.39	28.913		
5,900.00	4,905.92	5,736.09	5,402.79	63.29	33.63	-152.89	1,251.46	870.17	1,898.16	1,832.28	65.88	28.812		
6,000.00	4,982.04	5,829.15	5,486.98	64.69	34.38	-152.75	1,282.78	894.47	1,934.55	1,867.18	67.37	28.714		
6,100.00	5,058.17	5,922.20	5,571.17	66.09	35.12	-152.63	1,314.10	918.77	1,970.94	1,902.07	68.86	28.620		
6,200.00	5,134.30	6,015.25	5,655.35	67.49	35.87	-152.50	1,345.41	943.06	2,007.34	1,936.98	70.36	28.530		
6,300.00	5,210.42	6,108.30	5,739.54	68.89	36.62	-152.38	1,376.73	967.36	2,043.75	1,971.89	71.86	28.442		
6,400.00	5,286.55	6,201.36	5,823.73	70.29	37.36	-152.26	1,408.05	991.66	2,080.16	2,006.81	73.36	28.357		
6,500.00	5,362.67	6,305.59	5,907.92	71.69	38.20	-152.15	1,439.37	1,015.96	2,116.59	2,041.65	74.93	28.246		
6,600.00	5,438.80	6,387.46	5,992.10	73.09	38.86	-152.04	1,470.69	1,040.26	2,153.02	2,076.66	76.36	28.196		
6,700.00	5,514.93	6,480.51	6,076.29	74.49	39.61	-151.94	1,502.01	1,064.56	2,189.45	2,111.59	77.86	28.120		
6,800.00	5,591.05	6,573.57	6,160.48	75.89	40.36	-151.84	1,533.33	1,088.86	2,225.90	2,146.53	79.37	28.046		
6,900.00	5,667.18	6,666.62	6,244.66	77.29	41.11	-151.74	1,564.64	1,113.16	2,262.34	2,181.47	80.87	27.974		
7,000.00	5,743.30	6,759.67	6,328.85	78.69	41.86	-151.65	1,595.96	1,137.46	2,298.80	2,216.42	82.38	27.905		
7,100.00	5,819.43	6,852.72	6,413.04	80.09	42.61	-151.55	1,627.28	1,161.76	2,335.26	2,251.37	83.89	27.837		
7,200.00	5,895.56	6,945.78	6,497.22	81.49	43.36	-151.47	1,658.60	1,186.06	2,371.72	2,286.32	85.40	27.772		
7,300.00	5,971.68	7,038.83	6,581.41	82.90	44.11	-151.38	1,689.92	1,210.36	2,408.19	2,321.28	86.91	27.709		
7,400.00	6,047.81	7,131.88	6,665.60	84.30	44.86	-151.29	1,721.24	1,234.65	2,444.66	2,356.24	88.42	27.647		
7,500.00	6,123.94	7,224.93	6,749.79	85.70	45.62	-151.21	1,752.55	1,258.95	2,481.14	2,391.20	89.94	27.588		
7,600.00	6,200.06	7,317.99	6,833.97	87.10	46.37	-151.13	1,783.87	1,283.25	2,517.62	2,426.17	91.45	27.530		
7,700.00	6,276.19	7,425.07	6,931.31	88.50	47.21	-151.08	1,818.50	1,311.34	2,554.03	2,460.93	93.10	27.433		
7,800.00	6,352.31	7,563.18	7,062.21	89.90	48.05	-151.59	1,839.19	1,349.03	2,589.19	2,494.94	94.25	27.472		
7,900.00	6,428.44	7,686.41	7,180.07	91.31	48.45	-152.66	1,829.68	1,382.87	2,623.17	2,528.94	94.23	27.837		
8,000.00	6,504.57	7,788.01	7,273.99	92.71	48.56	-153.92	1,802.27	1,409.76	2,656.94	2,563.36	93.58	28.391		
8,100.00	6,580.69	7,868.46	7,344.16	94.11	48.51	-155.13	1,768.58	1,429.82	2,691.47	2,598.74	92.73	29.026		
8,200.00	6,656.82	7,931.43	7,395.51	95.51	48.41	-156.19	1,735.28	1,444.46	2,727.49	2,635.61	91.87	29.687		
8,300.00	6,732.95	7,980.94	7,433.25	96.91	48.29	-157.08	1,705.10	1,455.20	2,765.46	2,674.37	91.09	30.359		
8,400.00	6,809.07	8,020.34	7,461.40	98.32	48.17	-157.83	1,678.73	1,463.20	2,805.67	2,715.28	90.39	31.041		
8,500.00	6,885.20	8,050.00	7,481.41	99.72	48.07	-158.41	1,657.59	1,468.88	2,848.23	2,758.44	89.79	31.722		
8,600.00	6,961.32	8,078.27	7,499.47	101.12	47.96	-158.97	1,636.46	1,474.00	2,893.20	2,804.07	89.14	32.459		
8,700.00	7,037.45	8,100.00	7,512.67	102.52	47.87	-159.41	1,619.61	1,477.74	2,940.58	2,852.02	88.56	33.206		
8,732.15	7,061.92	8,100.00	7,512.67	102.97	47.87	-159.41	1,619.61	1,477.74	2,956.33	2,867.82	88.50	33.403		
8,750.00	7,075.57	8,109.62	7,518.31	103.22	47.83	-162.65	1,611.98	1,479.33	2,965.16	2,876.89	88.27	33.591		
8,800.00	7,114.27	8,120.15	7,524.35	103.91	47.78	-171.72	1,603.52	1,481.04	2,990.35	2,902.36	87.99	33.984		
8,850.00	7,153.47	8,131.85	7,530.88	104.58	47.73	178.83	1,594.00	1,482.88	3,015.95	2,928.23	87.72	34.382		
8,900.00	7,192.85	8,150.00	7,540.64	105.21	47.65	169.14	1,578.94	1,485.64	3,041.72	2,954.39	87.34	34.827		
8,950.00	7,232.12	8,150.00	7,540.64	105.80	47.65	159.87	1,578.94	1,485.64	3,067.44	2,980.07	87.37	35.109		
9,000.00	7,270.99	8,172.56	7,552.12	106.35	47.54	150.60	1,559.79	1,488.87	3,092.84	3,005.89	86.95	35.572		
9,050.00	7,309.16	8,187.65	7,559.38	106.85	47.46	142.01	1,546.73	1,490.91	3,117.75	3,031.04	86.71	35.956		
9,100.00	7,346.32	8,200.00	7,565.09	107.30	47.40	134.12	1,535.89	1,492.52	3,141.95	3,055.38	86.56	36.296		
9,150.00	7,382.22	8,219.59	7,573.67	107.69	47.30	126.90	1,518.45	1,494.92	3,165.23	3,078.94	86.29	36.683		
9,200.00	7,416.56	8,236.32	7,580.54	108.02	47.21	120.47	1,503.32	1,496.85	3,187.41	3,101.31	86.10	37.018		
9,250.00	7,449.09	8,250.00	7,585.85	108.29	47.14	114.82	1,490.79	1,498.33	3,208.33	3,122.31	86.03	37.295		
9,300.00	7,479.56	8,271.00	7,593.43	108.51	47.02	109.82	1,471.32	1,500.44	3,227.82	3,142.00	85.82	37.613		
9,350.00	7,507.74	8,300.00	7,602.75	108.68	46.86	105.45	1,443.99	1,503.03	3,245.77	3,160.32	85.45	37.984		
9,400.00	7,533.41	8,300.00	7,602.75	108.79	46.86	101.86	1,443.99	1,503.03	3,261.95	3,176.13	85.82	38.011		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,325.42	7,609.82	108.86	46.72	98.71	1,419.65	1,504.98	3,276.31	3,190.69	85.62	38.266		
9,500.00	7,576.48	8,350.00	7,615.67	108.88	46.58	96.09	1,395.83	1,506.58	3,288.77	3,203.29	85.48	38.474		
9,550.00	7,593.55	8,350.00	7,615.67	108.86	46.58	94.03	1,395.83	1,506.58	3,299.26	3,213.26	86.00	38.365		
9,600.00	7,607.46	8,381.75	7,621.76	108.80	46.39	92.36	1,364.72	1,508.22	3,307.54	3,221.77	85.77	38.562		
9,650.00	7,618.11	8,400.00	7,624.51	108.71	46.28	91.16	1,346.69	1,508.95	3,313.75	3,227.82	85.93	38.563		
9,700.00	7,625.41	8,419.89	7,626.87	108.59	46.16	90.37	1,326.96	1,509.56	3,317.77	3,231.67	86.09	38.536		
9,750.00	7,629.30	8,450.00	7,629.19	108.45	45.98	89.99	1,296.94	1,510.13	3,319.62	3,233.59	86.03	38.585		
9,781.81	7,630.00	8,450.00	7,629.19	108.35	45.98	89.95	1,296.94	1,510.13	3,319.57	3,233.04	86.52	38.366		
9,800.00	7,630.00	8,450.00	7,629.19	108.29	45.98	89.95	1,296.94	1,510.13	3,319.36	3,232.55	86.81	38.238		
9,857.54	7,630.00	8,482.86	7,630.00	108.11	45.78	89.97	1,267.81	1,510.26	3,319.01	3,232.08	86.93	38.181		
9,900.00	7,630.00	8,521.60	7,630.00	107.97	45.55	89.97	1,225.36	1,510.12	3,319.01	3,232.51	86.50	38.372		
10,000.00	7,630.00	8,621.60	7,630.00	107.67	44.99	89.97	1,125.36	1,509.78	3,319.01	3,233.48	85.53	38.807		
10,100.00	7,630.00	8,721.60	7,630.00	107.38	44.45	89.97	1,025.36	1,509.44	3,319.01	3,234.31	84.70	39.187		
10,200.00	7,630.00	8,821.60	7,630.00	107.10	43.95	89.97	925.36	1,509.10	3,319.01	3,235.00	84.01	39.508		
10,300.00	7,630.00	8,921.60	7,630.00	106.84	43.47	89.97	825.36	1,508.77	3,319.01	3,235.55	83.47	39.765		
10,400.00	7,630.00	9,021.60	7,630.00	106.59	43.03	89.97	725.36	1,508.43	3,319.01	3,235.94	83.07	39.953		
10,500.00	7,630.00	9,121.60	7,630.00	106.35	42.61	89.97	625.36	1,508.09	3,319.01	3,236.18	82.83	40.069		
10,600.00	7,630.00	9,221.60	7,630.00	106.13	42.22	89.97	525.36	1,507.75	3,319.02	3,236.27	82.74	40.112		
10,700.00	7,630.00	9,321.60	7,630.00	105.92	41.86	89.97	425.36	1,507.41	3,319.02	3,236.21	82.81	40.081		
10,800.00	7,630.00	9,421.60	7,630.00	105.72	41.52	89.97	325.36	1,507.07	3,319.02	3,235.99	83.02	39.976		
10,900.00	7,630.00	9,521.60	7,630.00	105.54	41.20	89.97	225.36	1,506.73	3,319.02	3,235.63	83.39	39.800		
11,000.00	7,630.00	9,621.60	7,630.00	105.37	40.90	89.97	125.36	1,506.40	3,319.02	3,235.11	83.91	39.555		
11,100.00	7,630.00	9,721.60	7,630.00	105.21	40.62	89.97	25.36	1,506.06	3,319.02	3,234.45	84.57	39.246		
11,200.00	7,630.00	9,821.60	7,630.00	105.06	40.36	89.97	-74.63	1,505.72	3,319.02	3,233.65	85.37	38.876		
11,300.00	7,630.00	9,921.60	7,630.00	104.93	40.11	89.97	-174.63	1,505.38	3,319.02	3,232.71	86.32	38.452		
11,400.00	7,630.00	10,021.60	7,630.00	104.82	39.88	89.97	-274.63	1,505.04	3,319.03	3,231.63	87.39	37.979		
11,500.00	7,630.00	10,121.60	7,630.00	104.72	40.22	89.97	-374.63	1,504.70	3,319.03	3,230.43	88.60	37.463		
11,600.00	7,630.00	10,221.60	7,630.00	104.63	41.15	89.97	-474.63	1,504.37	3,319.03	3,229.11	89.92	36.911		
11,700.00	7,630.00	10,321.60	7,630.00	104.55	42.16	89.97	-574.63	1,504.03	3,319.03	3,227.67	91.36	36.327		
11,800.00	7,630.00	10,421.60	7,630.00	104.50	43.21	89.97	-674.63	1,503.69	3,319.03	3,226.11	92.92	35.720		
11,900.00	7,630.00	10,521.60	7,630.00	104.45	44.30	89.97	-774.63	1,503.35	3,319.03	3,224.45	94.58	35.092		
12,000.00	7,630.00	10,621.60	7,630.00	104.43	45.42	89.97	-874.63	1,503.01	3,319.03	3,222.69	96.34	34.451		
12,100.00	7,630.00	10,721.60	7,630.00	104.42	46.57	89.97	-974.63	1,502.67	3,319.03	3,220.84	98.20	33.799		
12,200.00	7,630.00	10,821.60	7,630.00	104.42	47.76	89.97	-1,074.63	1,502.33	3,319.04	3,218.89	100.14	33.143		
12,300.00	7,630.00	10,921.60	7,630.00	104.45	48.97	89.97	-1,174.63	1,502.00	3,319.04	3,216.86	102.17	32.484		
12,400.00	7,630.00	11,021.60	7,630.00	104.49	50.21	89.97	-1,274.63	1,501.66	3,319.04	3,214.75	104.28	31.827		
12,500.00	7,630.00	11,121.60	7,630.00	104.55	51.47	89.97	-1,374.63	1,501.32	3,319.04	3,212.57	106.47	31.174		
12,600.00	7,630.00	11,221.60	7,630.00	104.63	52.76	89.97	-1,474.63	1,500.98	3,319.04	3,210.32	108.73	30.527		
12,700.00	7,630.00	11,321.60	7,630.00	104.73	54.07	89.97	-1,574.63	1,500.64	3,319.04	3,208.00	111.05	29.889		
12,800.00	7,630.00	11,421.60	7,630.00	104.85	55.41	89.97	-1,674.63	1,500.30	3,319.04	3,205.61	113.43	29.261		
12,900.00	7,630.00	11,521.60	7,630.00	104.99	56.76	89.97	-1,774.62	1,499.96	3,319.04	3,203.17	115.87	28.644		
13,000.00	7,630.00	11,621.60	7,630.00	105.15	58.13	89.97	-1,874.62	1,499.63	3,319.05	3,200.68	118.37	28.040		
13,100.00	7,630.00	11,721.60	7,630.00	105.34	59.52	89.97	-1,974.62	1,499.29	3,319.05	3,198.13	120.92	27.449		
13,200.00	7,630.00	11,821.60	7,630.00	105.56	60.93	89.97	-2,074.62	1,498.95	3,319.05	3,195.54	123.51	26.873		
13,300.00	7,630.00	11,921.60	7,630.00	105.80	62.35	89.97	-2,174.62	1,498.61	3,319.05	3,192.90	126.15	26.310		
13,400.00	7,630.00	12,021.60	7,630.00	106.06	63.79	89.97	-2,274.62	1,498.27	3,319.05	3,190.22	128.83	25.762		
13,500.00	7,630.00	12,121.60	7,630.00	106.36	65.24	89.97	-2,374.62	1,497.93	3,319.05	3,187.49	131.56	25.229		
13,600.00	7,630.00	12,221.60	7,630.00	106.68	66.71	89.97	-2,474.62	1,497.60	3,319.05	3,184.73	134.32	24.710		
13,700.00	7,630.00	12,321.60	7,630.00	107.03	68.19	89.97	-2,574.62	1,497.26	3,319.05	3,181.94	137.11	24.206		
13,800.00	7,630.00	12,421.60	7,630.00	107.42	69.68	89.97	-2,674.62	1,496.92	3,319.06	3,179.11	139.94	23.717		
13,900.00	7,630.00	12,521.60	7,630.00	107.83	71.18	89.97	-2,774.62	1,496.58	3,319.06	3,176.25	142.80	23.242		
14,000.00	7,630.00	12,621.60	7,630.00	108.28	72.69	89.97	-2,874.62	1,496.24	3,319.06	3,173.37	145.69	22.781		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	12,721.60	7,630.00	108.77	74.21	89.97	-2,974.62	1,495.90	3,319.06	3,170.45	148.61	22.334		
14,200.00	7,630.00	12,821.60	7,630.00	109.29	75.74	89.97	-3,074.62	1,495.56	3,319.06	3,167.51	151.55	21.900		
14,300.00	7,630.00	12,921.60	7,630.00	109.84	77.28	89.97	-3,174.62	1,495.23	3,319.06	3,164.54	154.52	21.480		
14,400.00	7,630.00	13,021.60	7,630.00	110.43	78.83	89.97	-3,274.62	1,494.89	3,319.06	3,161.55	157.51	21.072		
14,500.00	7,630.00	13,121.60	7,630.00	111.06	80.39	89.97	-3,374.62	1,494.55	3,319.06	3,158.54	160.53	20.676		
14,600.00	7,630.00	13,221.60	7,630.00	111.72	81.95	89.97	-3,474.62	1,494.21	3,319.07	3,155.51	163.56	20.293		
14,700.00	7,630.00	13,321.60	7,630.00	112.42	83.52	89.97	-3,574.61	1,493.87	3,319.07	3,152.45	166.61	19.921		
14,800.00	7,630.00	13,421.60	7,630.00	113.16	85.10	89.97	-3,674.61	1,493.53	3,319.07	3,149.38	169.68	19.560		
14,900.00	7,630.00	13,521.60	7,630.00	113.94	86.69	89.97	-3,774.61	1,493.19	3,319.07	3,146.30	172.77	19.210		
15,000.00	7,630.00	13,621.60	7,630.00	114.75	88.28	89.97	-3,874.61	1,492.86	3,319.07	3,143.19	175.88	18.871		
15,100.00	7,630.00	13,721.60	7,630.00	115.60	89.88	89.97	-3,974.61	1,492.52	3,319.07	3,140.07	179.00	18.542		
15,200.00	7,630.00	13,821.60	7,630.00	116.48	91.48	89.97	-4,074.61	1,492.18	3,319.07	3,136.93	182.14	18.223		
15,300.00	7,630.00	13,921.60	7,630.00	117.40	93.09	89.97	-4,174.61	1,491.84	3,319.07	3,133.78	185.29	17.913		
15,400.00	7,630.00	14,021.60	7,630.00	118.35	94.70	89.97	-4,274.61	1,491.50	3,319.08	3,130.62	188.46	17.612		
15,500.00	7,630.00	14,121.60	7,630.00	119.34	96.32	89.97	-4,374.61	1,491.16	3,319.08	3,127.44	191.63	17.320		
15,600.00	7,630.00	14,221.60	7,630.00	120.35	97.95	89.97	-4,474.61	1,490.83	3,319.08	3,124.26	194.82	17.036		
15,700.00	7,630.00	14,321.60	7,630.00	121.40	99.57	89.97	-4,574.61	1,490.49	3,319.08	3,121.06	198.02	16.761		
15,800.00	7,630.00	14,421.60	7,630.00	122.48	101.21	89.97	-4,674.61	1,490.15	3,319.08	3,117.84	201.24	16.493		
15,900.00	7,630.00	14,521.60	7,630.00	123.58	102.84	89.97	-4,774.61	1,489.81	3,319.08	3,114.62	204.46	16.233		
16,000.00	7,630.00	14,621.60	7,630.00	124.71	104.48	89.97	-4,874.61	1,489.47	3,319.08	3,111.39	207.69	15.981		
16,100.00	7,630.00	14,721.60	7,630.00	125.87	106.13	89.97	-4,974.61	1,489.13	3,319.08	3,108.15	210.94	15.735		
16,200.00	7,630.00	14,821.60	7,630.00	127.05	107.78	89.97	-5,074.61	1,488.79	3,319.09	3,104.90	214.19	15.496		
16,300.00	7,630.00	14,921.60	7,630.00	128.26	109.43	89.97	-5,174.61	1,488.46	3,319.09	3,101.64	217.45	15.264		
16,400.00	7,630.00	15,021.60	7,630.00	129.48	111.08	89.97	-5,274.60	1,488.12	3,319.09	3,098.37	220.72	15.038		
16,500.00	7,630.00	15,121.60	7,630.00	130.73	112.74	89.97	-5,374.60	1,487.78	3,319.09	3,095.09	224.00	14.818		
16,600.00	7,630.00	15,221.60	7,630.00	132.00	114.40	89.97	-5,474.60	1,487.44	3,319.09	3,091.81	227.28	14.603		
16,700.00	7,630.00	15,321.60	7,630.00	133.29	116.07	89.97	-5,574.60	1,487.10	3,319.09	3,088.52	230.57	14.395		
16,800.00	7,630.00	15,421.60	7,630.00	134.59	117.73	89.97	-5,674.60	1,486.76	3,319.09	3,085.22	233.87	14.192		
16,900.00	7,630.00	15,521.60	7,630.00	135.91	119.40	89.97	-5,774.60	1,486.42	3,319.09	3,081.92	237.18	13.994		
17,000.00	7,630.00	15,621.60	7,630.00	137.25	121.07	89.97	-5,874.60	1,486.09	3,319.10	3,078.60	240.49	13.801		
17,100.00	7,630.00	15,721.60	7,630.00	138.61	122.75	89.97	-5,974.60	1,485.75	3,319.10	3,075.29	243.81	13.613		
17,200.00	7,630.00	15,821.60	7,630.00	139.97	124.42	89.97	-6,074.60	1,485.41	3,319.10	3,071.96	247.14	13.430		
17,300.00	7,630.00	15,921.60	7,630.00	141.36	126.10	89.97	-6,174.60	1,485.07	3,319.10	3,068.63	250.47	13.252		
17,400.00	7,630.00	16,021.60	7,630.00	142.75	127.78	89.97	-6,274.60	1,484.73	3,319.10	3,065.30	253.80	13.078		
17,500.00	7,630.00	16,121.60	7,630.00	144.16	129.47	89.97	-6,374.60	1,484.39	3,319.10	3,061.96	257.14	12.908		
17,600.00	7,630.00	16,221.60	7,630.00	145.58	131.15	89.97	-6,474.60	1,484.06	3,319.10	3,058.61	260.49	12.742		
17,700.00	7,630.00	16,321.60	7,630.00	147.01	132.84	89.97	-6,574.60	1,483.72	3,319.10	3,055.26	263.84	12.580		
17,800.00	7,630.00	16,421.60	7,630.00	148.45	134.53	89.97	-6,674.60	1,483.38	3,319.11	3,051.91	267.20	12.422		
17,900.00	7,630.00	16,521.60	7,630.00	149.91	136.22	89.97	-6,774.60	1,483.04	3,319.11	3,048.55	270.56	12.268		
18,000.00	7,630.00	16,621.60	7,630.00	151.37	137.92	89.97	-6,874.60	1,482.70	3,319.11	3,045.19	273.92	12.117		
18,100.00	7,630.00	16,721.60	7,630.00	152.84	139.61	89.97	-6,974.60	1,482.36	3,319.11	3,041.82	277.29	11.970		
18,200.00	7,630.00	16,821.60	7,630.00	154.32	141.31	89.97	-7,074.59	1,482.02	3,319.11	3,038.45	280.67	11.826		
18,300.00	7,630.00	16,921.60	7,630.00	155.81	143.01	89.97	-7,174.59	1,481.69	3,319.11	3,035.07	284.04	11.685		
18,400.00	7,630.00	17,021.60	7,630.00	157.31	144.70	89.97	-7,274.59	1,481.35	3,319.11	3,031.69	287.42	11.548		
18,500.00	7,630.00	17,121.60	7,630.00	158.81	146.41	89.97	-7,374.59	1,481.01	3,319.11	3,028.31	290.81	11.413		
18,600.00	7,630.00	17,221.60	7,630.00	160.32	148.11	89.97	-7,474.59	1,480.67	3,319.12	3,024.92	294.20	11.282		
18,700.00	7,630.00	17,321.60	7,630.00	161.84	149.81	89.97	-7,574.59	1,480.33	3,319.12	3,021.53	297.59	11.153		
18,800.00	7,630.00	17,421.60	7,630.00	163.37	151.52	89.97	-7,674.59	1,479.99	3,319.12	3,018.14	300.98	11.028		
18,900.00	7,630.00	17,521.60	7,630.00	164.90	153.23	89.97	-7,774.59	1,479.65	3,319.12	3,014.74	304.38	10.905		
19,000.00	7,630.00	17,621.60	7,630.00	166.43	154.93	89.97	-7,874.59	1,479.32	3,319.12	3,011.34	307.78	10.784		
19,100.00	7,630.00	17,721.60	7,630.00	167.98	156.64	89.97	-7,974.59	1,478.98	3,319.12	3,007.94	311.19	10.666		
19,200.00	7,630.00	17,821.60	7,630.00	169.53	158.35	89.97	-8,074.59	1,478.64	3,319.12	3,004.53	314.59	10.551		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	17,921.60	7,630.00	171.08	160.07	89.97	-8,174.59	1,478.30	3,319.12	3,001.12	318.00	10.437	
19,400.00	7,630.00	18,021.60	7,630.00	172.64	161.78	89.97	-8,274.59	1,477.96	3,319.13	2,997.71	321.41	10.327	
19,500.00	7,630.00	18,121.60	7,630.00	174.21	163.49	89.97	-8,374.59	1,477.62	3,319.13	2,994.30	324.83	10.218	
19,518.56	7,630.00	18,140.16	7,630.00	174.50	163.81	89.97	-8,393.15	1,477.56	3,319.13	2,993.66	325.46	10.198 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	48.28	1,788.18	2,005.31	8,174.88					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	48.28	1,788.18	2,005.31	8,080.50	8,001.32	79.19	102.041		
200.00	200.00	16,236.00	7,569.74	0.49	158.98	48.28	1,788.18	2,005.31	7,986.26	7,906.91	79.35	100.646		
300.00	300.00	16,236.00	7,569.74	0.85	158.98	48.28	1,788.18	2,005.31	7,892.16	7,812.64	79.53	99.237		
400.00	400.00	16,236.00	7,569.74	1.21	158.98	48.28	1,788.18	2,005.31	7,798.21	7,718.49	79.72	97.815		
500.00	499.98	16,236.00	7,569.74	1.56	158.98	-20.34	1,788.18	2,005.31	7,703.85	7,623.92	79.94	96.375		
600.00	599.84	16,236.00	7,569.74	1.92	158.98	-22.64	1,788.18	2,005.31	7,608.59	7,528.44	80.15	94.932		
700.00	699.45	16,236.00	7,569.74	2.29	158.98	-25.47	1,788.18	2,005.31	7,512.50	7,432.15	80.34	93.506		
800.00	798.70	16,236.00	7,569.74	2.67	158.98	-29.01	1,788.18	2,005.31	7,415.67	7,335.15	80.52	92.098		
900.00	897.47	16,236.00	7,569.74	3.07	158.98	-33.55	1,788.18	2,005.31	7,318.20	7,237.52	80.67	90.712		
1,000.00	995.62	16,236.00	7,569.74	3.50	158.98	-39.44	1,788.18	2,005.31	7,220.17	7,139.36	80.81	89.351		
1,100.00	1,093.06	16,236.00	7,569.74	3.96	158.98	-47.21	1,788.18	2,005.31	7,121.70	7,040.78	80.91	88.016		
1,200.00	1,189.64	16,236.00	7,569.74	4.46	158.98	-57.43	1,788.18	2,005.31	7,022.87	6,941.88	80.99	86.708		
1,300.00	1,285.27	16,236.00	7,569.74	5.00	158.98	-70.45	1,788.18	2,005.31	6,923.81	6,842.76	81.05	85.430		
1,400.00	1,379.82	16,236.00	7,569.74	5.60	158.98	-85.70	1,788.18	2,005.31	6,824.61	6,743.55	81.07	84.183		
1,500.00	1,473.17	16,236.00	7,569.74	6.25	158.98	-101.35	1,788.18	2,005.31	6,725.41	6,644.35	81.06	82.966		
1,600.00	1,565.21	16,236.00	7,569.74	6.95	158.98	-115.28	1,788.18	2,005.31	6,626.33	6,545.30	81.03	81.780		
1,700.00	1,655.84	16,236.00	7,569.74	7.72	158.98	-126.47	1,788.18	2,005.31	6,527.48	6,446.52	80.96	80.625		
1,800.00	1,744.94	16,236.00	7,569.74	8.55	158.98	-135.03	1,788.18	2,005.31	6,429.01	6,348.15	80.87	79.501		
1,900.00	1,832.39	16,236.00	7,569.74	9.45	158.98	-141.51	1,788.18	2,005.31	6,331.06	6,250.32	80.75	78.406		
2,000.00	1,918.11	16,236.00	7,569.74	10.41	158.98	-146.46	1,788.18	2,005.31	6,233.78	6,153.17	80.60	77.339		
2,100.00	2,001.97	16,236.00	7,569.74	11.45	158.98	-150.31	1,788.18	2,005.31	6,137.30	6,056.86	80.44	76.297		
2,200.00	2,083.88	16,236.00	7,569.74	12.56	158.98	-153.35	1,788.18	2,005.31	6,041.81	5,961.55	80.26	75.278		
2,300.00	2,163.74	16,236.00	7,569.74	13.74	158.98	-155.79	1,788.18	2,005.31	5,947.46	5,867.39	80.07	74.279		
2,400.00	2,241.45	16,236.00	7,569.74	14.99	158.98	-157.80	1,788.18	2,005.31	5,854.42	5,774.55	79.87	73.296		
2,421.22	2,257.65	16,236.00	7,569.74	15.26	158.98	-158.17	1,788.18	2,005.31	5,834.86	5,755.04	79.83	73.094		
2,500.00	2,317.63	16,236.00	7,569.74	16.29	158.98	-158.17	1,788.18	2,005.31	5,762.47	5,682.78	79.69	72.311		
2,600.00	2,393.75	16,236.00	7,569.74	17.62	158.98	-158.17	1,788.18	2,005.31	5,670.82	5,591.28	79.54	71.297		
2,700.00	2,469.88	16,236.00	7,569.74	18.95	158.98	-158.17	1,788.18	2,005.31	5,579.46	5,500.05	79.41	70.264		
2,800.00	2,546.01	16,236.00	7,569.74	20.30	158.98	-158.17	1,788.18	2,005.31	5,488.40	5,409.10	79.30	69.213		
2,900.00	2,622.13	16,236.00	7,569.74	21.65	158.98	-158.17	1,788.18	2,005.31	5,397.65	5,318.44	79.21	68.145		
3,000.00	2,698.26	16,236.00	7,569.74	23.01	158.98	-158.17	1,788.18	2,005.31	5,307.24	5,228.10	79.14	67.060		
3,100.00	2,774.38	16,236.00	7,569.74	24.37	158.98	-158.17	1,788.18	2,005.31	5,217.18	5,138.08	79.10	65.960		
3,200.00	2,850.51	16,236.00	7,569.74	25.74	158.98	-158.17	1,788.18	2,005.31	5,127.48	5,048.41	79.07	64.844		
3,300.00	2,926.64	16,236.00	7,569.74	27.11	158.98	-158.17	1,788.18	2,005.31	5,038.18	4,959.10	79.08	63.712		
3,400.00	3,002.76	16,236.00	7,569.74	28.49	158.98	-158.17	1,788.18	2,005.31	4,949.28	4,870.17	79.10	62.566		
3,500.00	3,078.89	16,236.00	7,569.74	29.87	158.98	-158.17	1,788.18	2,005.31	4,860.81	4,781.65	79.16	61.404		
3,600.00	3,155.02	16,236.00	7,569.74	31.25	158.98	-158.17	1,788.18	2,005.31	4,772.80	4,693.56	79.25	60.227		
3,700.00	3,231.14	16,236.00	7,569.74	32.63	158.98	-158.17	1,788.18	2,005.31	4,685.28	4,605.91	79.37	59.033		
3,800.00	3,307.27	16,236.00	7,569.74	34.01	158.98	-158.17	1,788.18	2,005.31	4,598.26	4,518.73	79.52	57.823		
3,900.00	3,383.39	16,236.00	7,569.74	35.40	158.98	-158.17	1,788.18	2,005.31	4,511.77	4,432.05	79.72	56.595		
4,000.00	3,459.52	16,236.00	7,569.74	36.79	158.98	-158.17	1,788.18	2,005.31	4,425.86	4,345.90	79.96	55.350		
4,100.00	3,535.65	16,236.00	7,569.74	38.18	158.98	-158.17	1,788.18	2,005.31	4,340.55	4,260.30	80.25	54.087		
4,200.00	3,611.77	16,236.00	7,569.74	39.57	158.98	-158.17	1,788.18	2,005.31	4,255.88	4,175.29	80.60	52.805		
4,300.00	3,687.90	16,236.00	7,569.74	40.96	158.98	-158.17	1,788.18	2,005.31	4,171.89	4,090.89	81.00	51.504		
4,400.00	3,764.02	16,236.00	7,569.74	42.35	158.98	-158.17	1,788.18	2,005.31	4,088.62	4,007.15	81.47	50.183		
4,500.00	3,840.15	16,236.00	7,569.74	43.74	158.98	-158.17	1,788.18	2,005.31	4,006.12	3,924.10	82.02	48.842		
4,600.00	3,916.28	16,236.00	7,569.74	45.13	158.98	-158.17	1,788.18	2,005.31	3,924.43	3,841.78	82.65	47.482		
4,700.00	3,992.40	16,236.00	7,569.74	46.53	158.98	-158.17	1,788.18	2,005.31	3,843.60	3,760.23	83.37	46.101		
4,800.00	4,068.53	16,236.00	7,569.74	47.92	158.98	-158.17	1,788.18	2,005.31	3,763.70	3,679.50	84.19	44.702		
4,900.00	4,144.66	16,236.00	7,569.74	49.32	158.98	-158.17	1,788.18	2,005.31	3,684.78	3,599.65	85.13	43.286		
5,000.00	4,220.78	16,236.00	7,569.74	50.71	158.98	-158.17	1,788.18	2,005.31	3,606.90	3,520.72	86.18	41.853		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	16,236.00	7,569.74	52.11	158.98	-158.17	1,788.18	2,005.31	3,530.14	3,442.77	87.37	40.405	
5,200.00	4,373.03	16,236.00	7,569.74	53.51	158.98	-158.17	1,788.18	2,005.31	3,454.56	3,365.86	88.70	38.947	
5,300.00	4,449.16	16,236.00	7,569.74	54.90	158.98	-158.17	1,788.18	2,005.31	3,380.26	3,290.07	90.19	37.481	
5,400.00	4,525.29	16,236.00	7,569.74	56.30	158.98	-158.17	1,788.18	2,005.31	3,307.31	3,215.47	91.84	36.011	
5,500.00	4,601.41	16,236.00	7,569.74	57.70	158.98	-158.17	1,788.18	2,005.31	3,235.81	3,142.13	93.68	34.543	
5,600.00	4,677.54	16,236.00	7,569.74	59.10	158.98	-158.17	1,788.18	2,005.31	3,165.85	3,070.15	95.70	33.081	
5,700.00	4,753.66	16,236.00	7,569.74	60.49	158.98	-158.17	1,788.18	2,005.31	3,097.54	2,999.61	97.93	31.631	
5,800.00	4,829.79	16,236.00	7,569.74	61.89	158.98	-158.17	1,788.18	2,005.31	3,030.99	2,930.62	100.37	30.200	
5,900.00	4,905.92	16,236.00	7,569.74	63.29	158.98	-158.17	1,788.18	2,005.31	2,966.32	2,863.30	103.02	28.793	
6,000.00	4,982.04	16,236.00	7,569.74	64.69	158.98	-158.17	1,788.18	2,005.31	2,903.65	2,797.75	105.90	27.419	
6,100.00	5,058.17	16,236.00	7,569.74	66.09	158.98	-158.17	1,788.18	2,005.31	2,843.12	2,734.11	109.01	26.082	
6,200.00	5,134.30	16,236.00	7,569.74	67.49	158.98	-158.17	1,788.18	2,005.31	2,784.87	2,672.52	112.34	24.789	
6,300.00	5,210.42	16,236.00	7,569.74	68.89	158.98	-158.17	1,788.18	2,005.31	2,729.03	2,613.13	115.90	23.546	
6,400.00	5,286.55	16,236.00	7,569.74	70.29	158.98	-158.17	1,788.18	2,005.31	2,675.78	2,556.09	119.68	22.357	
6,500.00	5,362.67	16,236.00	7,569.74	71.69	158.98	-158.17	1,788.18	2,005.31	2,625.25	2,501.58	123.67	21.228	
6,600.00	5,438.80	16,236.00	7,569.74	73.09	158.98	-158.17	1,788.18	2,005.31	2,577.61	2,449.76	127.85	20.161	
6,700.00	5,514.93	16,236.00	7,569.74	74.49	158.98	-158.17	1,788.18	2,005.31	2,533.02	2,400.82	132.21	19.160	
6,800.00	5,591.05	16,236.00	7,569.74	75.89	158.98	-158.17	1,788.18	2,005.31	2,491.66	2,354.94	136.72	18.225	
6,900.00	5,667.18	16,236.00	7,569.74	77.29	158.98	-158.17	1,788.18	2,005.31	2,453.67	2,312.32	141.35	17.359	
7,000.00	5,743.30	16,236.00	7,569.74	78.69	158.98	-158.17	1,788.18	2,005.31	2,419.23	2,273.15	146.08	16.561	
7,100.00	5,819.43	16,236.00	7,569.74	80.09	158.98	-158.17	1,788.18	2,005.31	2,388.47	2,237.61	150.86	15.832	
7,200.00	5,895.56	16,236.00	7,569.74	81.49	158.98	-158.17	1,788.18	2,005.31	2,361.56	2,205.89	155.66	15.171	
7,300.00	5,971.68	16,236.00	7,569.74	82.90	158.98	-158.17	1,788.18	2,005.31	2,338.61	2,178.16	160.45	14.576	
7,400.00	6,047.81	16,236.00	7,569.74	84.30	158.98	-158.17	1,788.18	2,005.31	2,319.75	2,154.58	165.17	14.045	
7,500.00	6,123.94	16,236.00	7,569.74	85.70	158.98	-158.17	1,788.18	2,005.31	2,305.08	2,135.30	169.78	13.577	
7,600.00	6,200.06	16,236.00	7,569.74	87.10	158.98	-158.17	1,788.18	2,005.31	2,294.68	2,120.43	174.25	13.169	
7,700.00	6,276.19	16,236.00	7,569.74	88.50	158.98	-158.17	1,788.18	2,005.31	2,288.60	2,110.07	178.53	12.819	
7,789.26	6,344.14	16,236.00	7,569.74	89.75	158.98	-158.17	1,788.18	2,005.31	2,286.86	2,104.69	182.17	12.554 CC	
7,800.00	6,352.31	16,236.00	7,569.74	89.90	158.98	-158.17	1,788.18	2,005.31	2,286.88	2,104.29	182.59	12.525	
7,900.00	6,428.44	16,236.00	7,569.74	91.31	158.98	-158.17	1,788.18	2,005.31	2,289.54	2,103.14	186.40	12.283 ES	
8,000.00	6,504.57	16,236.00	7,569.74	92.71	158.98	-158.17	1,788.18	2,005.31	2,296.55	2,106.61	189.93	12.091	
8,100.00	6,580.69	16,236.00	7,569.74	94.11	158.98	-158.17	1,788.18	2,005.31	2,307.87	2,114.70	193.17	11.947	
8,200.00	6,656.82	16,236.00	7,569.74	95.51	158.98	-158.17	1,788.18	2,005.31	2,323.45	2,127.36	196.09	11.849	
8,300.00	6,732.95	16,214.76	7,569.85	96.91	158.61	-157.66	1,809.42	2,005.69	2,343.10	2,144.27	198.83	11.784	
8,400.00	6,809.07	16,188.39	7,569.99	98.32	158.15	-157.03	1,835.79	2,006.17	2,366.51	2,165.19	201.32	11.755 SF	
8,500.00	6,885.20	16,158.57	7,570.12	99.72	157.63	-156.31	1,865.60	2,006.70	2,393.56	2,190.03	203.53	11.760	
8,600.00	6,961.32	16,129.14	7,570.19	101.12	157.12	-155.61	1,895.02	2,007.24	2,424.11	2,218.64	205.47	11.798	
8,700.00	7,037.45	16,100.09	7,570.17	102.52	156.62	-154.91	1,924.07	2,007.77	2,458.03	2,250.90	207.13	11.867	
8,732.15	7,061.92	16,091.10	7,570.15	102.97	156.46	-154.70	1,933.06	2,007.94	2,469.63	2,262.02	207.61	11.896	
8,750.00	7,075.57	16,086.42	7,570.14	103.22	156.38	-157.31	1,937.73	2,008.03	2,476.24	2,268.38	207.86	11.913	
8,800.00	7,114.27	16,076.41	7,570.11	103.91	156.21	-165.11	1,947.74	2,008.21	2,495.61	2,287.07	208.54	11.967	
8,850.00	7,153.47	16,070.96	7,570.08	104.58	156.11	-173.47	1,953.19	2,008.31	2,516.11	2,306.93	209.18	12.028	
8,900.00	7,192.85	16,070.05	7,570.08	105.21	156.10	177.78	1,954.10	2,008.33	2,537.60	2,327.84	209.76	12.097	
8,950.00	7,232.12	16,073.63	7,570.10	105.80	156.16	168.89	1,950.52	2,008.26	2,559.89	2,349.59	210.29	12.173	
9,000.00	7,270.99	16,081.63	7,570.13	106.35	156.30	160.08	1,942.52	2,008.11	2,582.77	2,372.00	210.76	12.254	
9,050.00	7,309.16	16,093.92	7,570.16	106.85	156.51	151.54	1,930.23	2,007.89	2,606.02	2,394.83	211.18	12.340	
9,100.00	7,346.32	16,110.82	7,570.19	107.30	156.80	143.43	1,913.34	2,007.57	2,629.39	2,417.84	211.55	12.429	
9,150.00	7,382.22	16,132.10	7,570.18	107.69	157.17	135.84	1,892.06	2,007.18	2,652.63	2,440.75	211.87	12.520	
9,200.00	7,416.56	16,157.36	7,570.13	108.02	157.61	128.85	1,866.80	2,006.72	2,675.46	2,463.30	212.17	12.610	
9,250.00	7,449.09	16,186.40	7,570.00	108.29	158.12	122.48	1,837.77	2,006.20	2,697.64	2,485.20	212.44	12.698	
9,300.00	7,479.56	16,217.31	7,569.84	108.51	158.65	116.78	1,806.86	2,005.65	2,718.89	2,506.18	212.71	12.782	
9,350.00	7,507.74	16,236.00	7,569.74	108.68	158.98	111.94	1,788.18	2,005.31	2,739.02	2,525.94	213.08	12.855	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	16,236.00	7,569.74	108.79	158.98	107.93	1,788.18	2,005.31	2,758.16	2,544.59	213.56	12.915		
9,450.00	7,556.39	16,236.00	7,569.74	108.86	158.98	104.41	1,788.18	2,005.31	2,776.25	2,562.20	214.05	12.970		
9,500.00	7,576.48	16,236.00	7,569.74	108.88	158.98	101.37	1,788.18	2,005.31	2,793.17	2,578.64	214.53	13.020		
9,550.00	7,593.55	16,236.00	7,569.74	108.86	158.98	98.76	1,788.18	2,005.31	2,808.82	2,593.81	215.00	13.064		
9,600.00	7,607.46	16,236.00	7,569.74	108.80	158.98	96.57	1,788.18	2,005.31	2,823.09	2,607.62	215.47	13.102		
9,650.00	7,618.11	16,236.00	7,569.74	108.71	158.98	94.78	1,788.18	2,005.31	2,835.91	2,619.98	215.94	13.133		
9,700.00	7,625.41	16,236.00	7,569.74	108.59	158.98	93.36	1,788.18	2,005.31	2,847.20	2,630.80	216.40	13.157		
9,750.00	7,629.30	16,236.00	7,569.74	108.45	158.98	92.32	1,788.18	2,005.31	2,856.88	2,640.04	216.85	13.175		
9,781.81	7,630.00	16,236.00	7,569.74	108.35	158.98	91.84	1,788.18	2,005.31	2,862.18	2,645.05	217.13	13.182		
9,800.00	7,630.00	16,236.00	7,569.74	108.29	158.98	91.84	1,788.18	2,005.31	2,865.08	2,647.79	217.29	13.186		
9,900.00	7,630.00	16,236.00	7,569.74	107.97	158.98	91.84	1,788.18	2,005.31	2,882.98	2,664.93	218.05	13.222		
10,000.00	7,630.00	16,236.00	7,569.74	107.67	158.98	91.84	1,788.18	2,005.31	2,904.22	2,685.60	218.62	13.284		
10,100.00	7,630.00	16,236.00	7,569.74	107.38	158.98	91.84	1,788.18	2,005.31	2,928.72	2,709.71	219.01	13.372		
10,200.00	7,630.00	16,236.00	7,569.74	107.10	158.98	91.84	1,788.18	2,005.31	2,956.40	2,737.18	219.22	13.486		
10,300.00	7,630.00	16,236.00	7,569.74	106.84	158.98	91.84	1,788.18	2,005.31	2,987.17	2,767.91	219.26	13.624		
10,400.00	7,630.00	16,236.00	7,569.74	106.59	158.98	91.84	1,788.18	2,005.31	3,020.94	2,801.81	219.13	13.786		
10,500.00	7,630.00	16,236.00	7,569.74	106.35	158.98	91.84	1,788.18	2,005.31	3,057.62	2,838.77	218.85	13.971		
10,600.00	7,630.00	16,236.00	7,569.74	106.13	158.98	91.84	1,788.18	2,005.31	3,097.08	2,878.67	218.42	14.180		
10,700.00	7,630.00	16,236.00	7,569.74	105.92	158.98	91.84	1,788.18	2,005.31	3,139.24	2,921.39	217.85	14.410		
10,800.00	7,630.00	16,236.00	7,569.74	105.72	158.98	91.84	1,788.18	2,005.31	3,183.98	2,966.83	217.15	14.662		
10,900.00	7,630.00	16,236.00	7,569.74	105.54	158.98	91.84	1,788.18	2,005.31	3,231.20	3,014.85	216.35	14.935		
11,000.00	7,630.00	16,236.00	7,569.74	105.37	158.98	91.84	1,788.18	2,005.31	3,280.78	3,065.35	215.44	15.228		
11,100.00	7,630.00	16,236.00	7,569.74	105.21	158.98	91.84	1,788.18	2,005.31	3,332.63	3,118.19	214.44	15.541		
11,200.00	7,630.00	16,236.00	7,569.74	105.06	158.98	91.84	1,788.18	2,005.31	3,386.64	3,173.28	213.36	15.873		
11,300.00	7,630.00	16,236.00	7,569.74	104.93	158.98	91.84	1,788.18	2,005.31	3,442.71	3,230.50	212.21	16.223		
11,400.00	7,630.00	16,236.00	7,569.74	104.82	158.98	91.84	1,788.18	2,005.31	3,500.74	3,289.73	211.00	16.591		
11,500.00	7,630.00	16,236.00	7,569.74	104.72	158.98	91.84	1,788.18	2,005.31	3,560.63	3,350.88	209.74	16.976		
11,600.00	7,630.00	16,236.00	7,569.74	104.63	158.98	91.84	1,788.18	2,005.31	3,622.29	3,413.84	208.45	17.378		
11,700.00	7,630.00	16,236.00	7,569.74	104.55	158.98	91.84	1,788.18	2,005.31	3,685.63	3,478.52	207.11	17.795		
11,800.00	7,630.00	16,236.00	7,569.74	104.50	158.98	91.84	1,788.18	2,005.31	3,750.57	3,544.82	205.75	18.228		
11,900.00	7,630.00	16,236.00	7,569.74	104.45	158.98	91.84	1,788.18	2,005.31	3,817.03	3,612.65	204.37	18.677		
12,000.00	7,630.00	16,236.00	7,569.74	104.43	158.98	91.84	1,788.18	2,005.31	3,884.92	3,681.94	202.98	19.139		
12,100.00	7,630.00	16,236.00	7,569.74	104.42	158.98	91.84	1,788.18	2,005.31	3,954.18	3,752.59	201.58	19.616		
12,200.00	7,630.00	16,236.00	7,569.74	104.42	158.98	91.84	1,788.18	2,005.31	4,024.72	3,824.55	200.18	20.106		
12,300.00	7,630.00	16,236.00	7,569.74	104.45	158.98	91.84	1,788.18	2,005.31	4,096.50	3,897.73	198.77	20.609		
12,400.00	7,630.00	16,236.00	7,569.74	104.49	158.98	91.84	1,788.18	2,005.31	4,169.44	3,972.06	197.37	21.124		
12,500.00	7,630.00	16,236.00	7,569.74	104.55	158.98	91.84	1,788.18	2,005.31	4,243.48	4,047.50	195.98	21.652		
12,600.00	7,630.00	16,236.00	7,569.74	104.63	158.98	91.84	1,788.18	2,005.31	4,318.57	4,123.97	194.60	22.192		
12,700.00	7,630.00	16,236.00	7,569.74	104.73	158.98	91.84	1,788.18	2,005.31	4,394.65	4,201.41	193.24	22.743		
12,800.00	7,630.00	16,236.00	7,569.74	104.85	158.98	91.84	1,788.18	2,005.31	4,471.67	4,279.79	191.88	23.304		
12,900.00	7,630.00	16,236.00	7,569.74	104.99	158.98	91.84	1,788.18	2,005.31	4,549.59	4,359.04	190.55	23.877		
13,000.00	7,630.00	16,236.00	7,569.74	105.15	158.98	91.84	1,788.18	2,005.31	4,628.35	4,439.12	189.23	24.459		
13,100.00	7,630.00	16,236.00	7,569.74	105.34	158.98	91.84	1,788.18	2,005.31	4,707.93	4,519.99	187.93	25.051		
13,200.00	7,630.00	16,236.00	7,569.74	105.56	158.98	91.84	1,788.18	2,005.31	4,788.26	4,601.61	186.65	25.653		
13,300.00	7,630.00	16,236.00	7,569.74	105.80	158.98	91.84	1,788.18	2,005.31	4,869.33	4,683.93	185.40	26.264		
13,400.00	7,630.00	16,236.00	7,569.74	106.06	158.98	91.84	1,788.18	2,005.31	4,951.09	4,766.92	184.17	26.884		
13,500.00	7,630.00	16,236.00	7,569.74	106.36	158.98	91.84	1,788.18	2,005.31	5,033.51	4,850.55	182.96	27.512		
13,600.00	7,630.00	16,236.00	7,569.74	106.68	158.98	91.84	1,788.18	2,005.31	5,116.55	4,934.78	181.77	28.149		
13,700.00	7,630.00	16,236.00	7,569.74	107.03	158.98	91.84	1,788.18	2,005.31	5,200.19	5,019.59	180.60	28.794		
13,800.00	7,630.00	16,236.00	7,569.74	107.42	158.98	91.84	1,788.18	2,005.31	5,284.40	5,104.94	179.46	29.446		
13,900.00	7,630.00	16,236.00	7,569.74	107.83	158.98	91.84	1,788.18	2,005.31	5,369.15	5,190.81	178.34	30.106		
14,000.00	7,630.00	16,236.00	7,569.74	108.28	158.98	91.84	1,788.18	2,005.31	5,454.42	5,277.17	177.25	30.773		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	16,236.00	7,569.74	108.77	158.98	91.84	1,788.18	2,005.31	5,540.18	5,364.00	176.18	31.447		
14,200.00	7,630.00	16,236.00	7,569.74	109.29	158.98	91.84	1,788.18	2,005.31	5,626.41	5,451.28	175.13	32.127		
14,300.00	7,630.00	16,236.00	7,569.74	109.84	158.98	91.84	1,788.18	2,005.31	5,713.09	5,538.99	174.10	32.814		
14,400.00	7,630.00	16,236.00	7,569.74	110.43	158.98	91.84	1,788.18	2,005.31	5,800.20	5,627.10	173.10	33.508		
14,500.00	7,630.00	16,236.00	7,569.74	111.06	158.98	91.84	1,788.18	2,005.31	5,887.72	5,715.60	172.12	34.207		
14,600.00	7,630.00	16,236.00	7,569.74	111.72	158.98	91.84	1,788.18	2,005.31	5,975.63	5,804.47	171.16	34.912		
14,700.00	7,630.00	16,236.00	7,569.74	112.42	158.98	91.84	1,788.18	2,005.31	6,063.91	5,893.69	170.22	35.623		
14,800.00	7,630.00	16,236.00	7,569.74	113.16	158.98	91.84	1,788.18	2,005.31	6,152.56	5,983.25	169.31	36.339		
14,900.00	7,630.00	16,236.00	7,569.74	113.94	158.98	91.84	1,788.18	2,005.31	6,241.54	6,073.13	168.41	37.061		
15,000.00	7,630.00	16,236.00	7,569.74	114.75	158.98	91.84	1,788.18	2,005.31	6,330.86	6,163.32	167.54	37.788		
15,100.00	7,630.00	16,236.00	7,569.74	115.60	158.98	91.84	1,788.18	2,005.31	6,420.49	6,253.81	166.68	38.519		
15,200.00	7,630.00	16,236.00	7,569.74	116.48	158.98	91.84	1,788.18	2,005.31	6,510.42	6,344.57	165.85	39.255		
15,300.00	7,630.00	16,236.00	7,569.74	117.40	158.98	91.84	1,788.18	2,005.31	6,600.64	6,435.61	165.03	39.996		
15,400.00	7,630.00	16,236.00	7,569.74	118.35	158.98	91.84	1,788.18	2,005.31	6,691.14	6,526.91	164.23	40.741		
15,500.00	7,630.00	16,236.00	7,569.74	119.34	158.98	91.84	1,788.18	2,005.31	6,781.91	6,618.45	163.46	41.491		
15,600.00	7,630.00	16,236.00	7,569.74	120.35	158.98	91.84	1,788.18	2,005.31	6,872.93	6,710.24	162.69	42.245		
15,700.00	7,630.00	16,236.00	7,569.74	121.40	158.98	91.84	1,788.18	2,005.31	6,964.20	6,802.25	161.95	43.002		
15,800.00	7,630.00	16,236.00	7,569.74	122.48	158.98	91.84	1,788.18	2,005.31	7,055.71	6,894.48	161.22	43.764		
15,900.00	7,630.00	16,236.00	7,569.74	123.58	158.98	91.84	1,788.18	2,005.31	7,147.44	6,986.93	160.51	44.529		
16,000.00	7,630.00	16,236.00	7,569.74	124.71	158.98	91.84	1,788.18	2,005.31	7,239.39	7,079.57	159.82	45.297		
16,100.00	7,630.00	16,236.00	7,569.74	125.87	158.98	91.84	1,788.18	2,005.31	7,331.56	7,172.42	159.14	46.070		
16,200.00	7,630.00	16,236.00	7,569.74	127.05	158.98	91.84	1,788.18	2,005.31	7,423.92	7,265.44	158.48	46.845		
16,300.00	7,630.00	16,236.00	7,569.74	128.26	158.98	91.84	1,788.18	2,005.31	7,516.48	7,358.65	157.83	47.624		
16,400.00	7,630.00	16,236.00	7,569.74	129.48	158.98	91.84	1,788.18	2,005.31	7,609.23	7,452.04	157.20	48.405		
16,500.00	7,630.00	16,236.00	7,569.74	130.73	158.98	91.84	1,788.18	2,005.31	7,702.17	7,545.59	156.58	49.190		
16,600.00	7,630.00	16,236.00	7,569.74	132.00	158.98	91.84	1,788.18	2,005.31	7,795.27	7,639.30	155.97	49.978		
16,700.00	7,630.00	16,236.00	7,569.74	133.29	158.98	91.84	1,788.18	2,005.31	7,888.55	7,733.16	155.38	50.768		
16,800.00	7,630.00	16,236.00	7,569.74	134.59	158.98	91.84	1,788.18	2,005.31	7,981.98	7,827.18	154.81	51.561		
16,900.00	7,630.00	16,236.00	7,569.74	135.91	158.98	91.84	1,788.18	2,005.31	8,075.58	7,921.34	154.24	52.357		
17,000.00	7,630.00	16,236.00	7,569.74	137.25	158.98	91.84	1,788.18	2,005.31	8,169.33	8,015.64	153.69	53.155		
17,100.00	7,630.00	16,236.00	7,569.74	138.61	158.98	91.84	1,788.18	2,005.31	8,263.22	8,110.07	153.15	53.955		
17,200.00	7,630.00	16,236.00	7,569.74	139.97	158.98	91.84	1,788.18	2,005.31	8,357.25	8,204.63	152.62	54.758		
17,300.00	7,630.00	16,236.00	7,569.74	141.36	158.98	91.84	1,788.18	2,005.31	8,451.43	8,299.32	152.11	55.563		
17,400.00	7,630.00	16,236.00	7,569.74	142.75	158.98	91.84	1,788.18	2,005.31	8,545.73	8,394.13	151.60	56.370		
17,500.00	7,630.00	16,236.00	7,569.74	144.16	158.98	91.84	1,788.18	2,005.31	8,640.16	8,489.06	151.11	57.179		
17,600.00	7,630.00	16,236.00	7,569.74	145.58	158.98	91.84	1,788.18	2,005.31	8,734.72	8,584.10	150.62	57.990		
17,700.00	7,630.00	16,236.00	7,569.74	147.01	158.98	91.84	1,788.18	2,005.31	8,829.40	8,679.24	150.15	58.803		
17,800.00	7,630.00	16,236.00	7,569.74	148.45	158.98	91.84	1,788.18	2,005.31	8,924.19	8,774.50	149.69	59.618		
17,900.00	7,630.00	16,236.00	7,569.74	149.91	158.98	91.84	1,788.18	2,005.31	9,019.09	8,869.86	149.24	60.435		
18,000.00	7,630.00	16,236.00	7,569.74	151.37	158.98	91.84	1,788.18	2,005.31	9,114.11	8,965.31	148.79	61.253		
18,100.00	7,630.00	16,236.00	7,569.74	152.84	158.98	91.84	1,788.18	2,005.31	9,209.23	9,060.86	148.36	62.073		
18,200.00	7,630.00	16,236.00	7,569.74	154.32	158.98	91.84	1,788.18	2,005.31	9,304.45	9,156.51	147.94	62.894		
18,300.00	7,630.00	16,236.00	7,569.74	155.81	158.98	91.84	1,788.18	2,005.31	9,399.77	9,252.24	147.52	63.717		
18,400.00	7,630.00	16,236.00	7,569.74	157.31	158.98	91.84	1,788.18	2,005.31	9,495.19	9,348.07	147.12	64.541		
18,500.00	7,630.00	16,236.00	7,569.74	158.81	158.98	91.84	1,788.18	2,005.31	9,590.70	9,443.97	146.72	65.366		
18,600.00	7,630.00	16,236.00	7,569.74	160.32	158.98	91.84	1,788.18	2,005.31	9,686.30	9,539.96	146.33	66.193		
18,700.00	7,630.00	16,236.00	7,569.74	161.84	158.98	91.84	1,788.18	2,005.31	9,781.99	9,636.03	145.95	67.021		
18,800.00	7,630.00	16,236.00	7,569.74	163.37	158.98	91.84	1,788.18	2,005.31	9,877.76	9,732.18	145.58	67.851		
18,900.00	7,630.00	16,236.00	7,569.74	164.90	158.98	91.84	1,788.18	2,005.31	9,973.62	9,828.40	145.22	68.681		

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,659.00	7,678.61	0.00	161.70	37.76	1,782.50	1,380.80	8,147.80					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	37.76	1,782.50	1,380.80	8,051.76	7,973.18	78.58	102.469		
200.00	200.00	16,659.00	7,678.61	0.49	161.70	37.76	1,782.50	1,380.80	7,955.81	7,877.17	78.64	101.169		
300.00	300.00	16,659.00	7,678.61	0.85	161.70	37.76	1,782.50	1,380.80	7,859.96	7,781.25	78.71	99.858		
400.00	400.00	16,659.00	7,678.61	1.21	161.70	37.76	1,782.50	1,380.80	7,764.21	7,685.42	78.80	98.537		
500.00	499.98	16,659.00	7,678.61	1.56	161.70	-32.50	1,782.50	1,380.80	7,668.15	7,589.26	78.89	97.200		
600.00	599.84	16,659.00	7,678.61	1.92	161.70	-36.85	1,782.50	1,380.80	7,571.40	7,492.41	78.99	95.858		
700.00	699.45	16,659.00	7,678.61	2.29	161.70	-42.27	1,782.50	1,380.80	7,474.05	7,394.98	79.07	94.529		
800.00	798.70	16,659.00	7,678.61	2.67	161.70	-49.05	1,782.50	1,380.80	7,376.20	7,297.07	79.13	93.214		
900.00	897.47	16,659.00	7,678.61	3.07	161.70	-57.48	1,782.50	1,380.80	7,277.96	7,198.78	79.18	91.916		
1,000.00	995.62	16,659.00	7,678.61	3.50	161.70	-67.71	1,782.50	1,380.80	7,179.43	7,100.22	79.21	90.636		
1,100.00	1,093.06	16,659.00	7,678.61	3.96	161.70	-79.52	1,782.50	1,380.80	7,080.72	7,001.50	79.22	89.376		
1,200.00	1,189.64	16,659.00	7,678.61	4.46	161.70	-92.13	1,782.50	1,380.80	6,981.94	6,902.73	79.22	88.137		
1,300.00	1,285.27	16,659.00	7,678.61	5.00	161.70	-104.36	1,782.50	1,380.80	6,883.22	6,804.03	79.19	86.918		
1,400.00	1,379.82	16,659.00	7,678.61	5.60	161.70	-115.23	1,782.50	1,380.80	6,784.69	6,705.54	79.15	85.721		
1,500.00	1,473.17	16,659.00	7,678.61	6.25	161.70	-124.32	1,782.50	1,380.80	6,686.46	6,607.37	79.09	84.544		
1,600.00	1,565.21	16,659.00	7,678.61	6.95	161.70	-131.68	1,782.50	1,380.80	6,588.68	6,509.67	79.01	83.386		
1,700.00	1,655.84	16,659.00	7,678.61	7.72	161.70	-137.56	1,782.50	1,380.80	6,491.49	6,412.56	78.93	82.245		
1,800.00	1,744.94	16,659.00	7,678.61	8.55	161.70	-142.26	1,782.50	1,380.80	6,395.04	6,316.21	78.84	81.119		
1,900.00	1,832.39	16,659.00	7,678.61	9.45	161.70	-146.06	1,782.50	1,380.80	6,299.48	6,220.74	78.74	80.004		
2,000.00	1,918.11	16,659.00	7,678.61	10.41	161.70	-149.16	1,782.50	1,380.80	6,204.98	6,126.33	78.64	78.899		
2,100.00	2,001.97	16,659.00	7,678.61	11.45	161.70	-151.72	1,782.50	1,380.80	6,111.69	6,033.13	78.56	77.797		
2,200.00	2,083.88	16,659.00	7,678.61	12.56	161.70	-153.85	1,782.50	1,380.80	6,019.80	5,941.31	78.49	76.696		
2,300.00	2,163.74	16,659.00	7,678.61	13.74	161.70	-155.65	1,782.50	1,380.80	5,929.47	5,851.03	78.44	75.591		
2,400.00	2,241.45	16,659.00	7,678.61	14.99	161.70	-157.18	1,782.50	1,380.80	5,840.91	5,762.49	78.42	74.479		
2,421.22	2,257.65	16,659.00	7,678.61	15.26	161.70	-157.47	1,782.50	1,380.80	5,822.36	5,743.94	78.42	74.247		
2,500.00	2,317.63	16,659.00	7,678.61	16.29	161.70	-157.47	1,782.50	1,380.80	5,753.79	5,675.34	78.45	73.346		
2,600.00	2,393.75	16,659.00	7,678.61	17.62	161.70	-157.47	1,782.50	1,380.80	5,667.13	5,588.61	78.52	72.174		
2,700.00	2,469.88	16,659.00	7,678.61	18.95	161.70	-157.47	1,782.50	1,380.80	5,580.91	5,502.28	78.63	70.976		
2,800.00	2,546.01	16,659.00	7,678.61	20.30	161.70	-157.47	1,782.50	1,380.80	5,495.17	5,416.39	78.78	69.753		
2,900.00	2,622.13	16,659.00	7,678.61	21.65	161.70	-157.47	1,782.50	1,380.80	5,409.91	5,330.94	78.97	68.507		
3,000.00	2,698.26	16,659.00	7,678.61	23.01	161.70	-157.47	1,782.50	1,380.80	5,325.17	5,245.97	79.20	67.239		
3,100.00	2,774.38	16,659.00	7,678.61	24.37	161.70	-157.47	1,782.50	1,380.80	5,240.96	5,161.49	79.47	65.949		
3,200.00	2,850.51	16,659.00	7,678.61	25.74	161.70	-157.47	1,782.50	1,380.80	5,157.32	5,077.53	79.79	64.639		
3,300.00	2,926.64	16,659.00	7,678.61	27.11	161.70	-157.47	1,782.50	1,380.80	5,074.27	4,994.12	80.15	63.309		
3,400.00	3,002.76	16,659.00	7,678.61	28.49	161.70	-157.47	1,782.50	1,380.80	4,991.84	4,911.27	80.57	61.959		
3,500.00	3,078.89	16,659.00	7,678.61	29.87	161.70	-157.47	1,782.50	1,380.80	4,910.06	4,829.02	81.04	60.591		
3,600.00	3,155.02	16,659.00	7,678.61	31.25	161.70	-157.47	1,782.50	1,380.80	4,828.97	4,747.41	81.57	59.203		
3,700.00	3,231.14	16,659.00	7,678.61	32.63	161.70	-157.47	1,782.50	1,380.80	4,748.60	4,666.44	82.16	57.798		
3,800.00	3,307.27	16,659.00	7,678.61	34.01	161.70	-157.47	1,782.50	1,380.80	4,668.99	4,586.17	82.82	56.376		
3,900.00	3,383.39	16,659.00	7,678.61	35.40	161.70	-157.47	1,782.50	1,380.80	4,590.18	4,506.63	83.55	54.938		
4,000.00	3,459.52	16,659.00	7,678.61	36.79	161.70	-157.47	1,782.50	1,380.80	4,512.21	4,427.85	84.36	53.486		
4,100.00	3,535.65	16,659.00	7,678.61	38.18	161.70	-157.47	1,782.50	1,380.80	4,435.12	4,349.86	85.26	52.020		
4,200.00	3,611.77	16,659.00	7,678.61	39.57	161.70	-157.47	1,782.50	1,380.80	4,358.96	4,272.72	86.24	50.543		
4,300.00	3,687.90	16,659.00	7,678.61	40.96	161.70	-157.47	1,782.50	1,380.80	4,283.79	4,196.46	87.32	49.057		
4,400.00	3,764.02	16,659.00	7,678.61	42.35	161.70	-157.47	1,782.50	1,380.80	4,209.64	4,121.13	88.51	47.563		
4,500.00	3,840.15	16,659.00	7,678.61	43.74	161.70	-157.47	1,782.50	1,380.80	4,136.59	4,046.79	89.80	46.066		
4,600.00	3,916.28	16,659.00	7,678.61	45.13	161.70	-157.47	1,782.50	1,380.80	4,064.68	3,973.47	91.20	44.567		
4,700.00	3,992.40	16,659.00	7,678.61	46.53	161.70	-157.47	1,782.50	1,380.80	3,993.98	3,901.25	92.73	43.071		
4,800.00	4,068.53	16,659.00	7,678.61	47.92	161.70	-157.47	1,782.50	1,380.80	3,924.56	3,830.17	94.38	41.580		
4,900.00	4,144.66	16,659.00	7,678.61	49.32	161.70	-157.47	1,782.50	1,380.80	3,856.47	3,760.30	96.17	40.100		
5,000.00	4,220.78	16,659.00	7,678.61	50.71	161.70	-157.47	1,782.50	1,380.80	3,789.81	3,691.71	98.10	38.634		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	16,659.00	7,678.61	52.11	161.70	-157.47	1,782.50	1,380.80	3,724.64	3,624.48	100.16	37.186		
5,200.00	4,373.03	16,659.00	7,678.61	53.51	161.70	-157.47	1,782.50	1,380.80	3,661.04	3,558.66	102.37	35.761		
5,300.00	4,449.16	16,659.00	7,678.61	54.90	161.70	-157.47	1,782.50	1,380.80	3,599.09	3,494.35	104.74	34.363		
5,400.00	4,525.29	16,659.00	7,678.61	56.30	161.70	-157.47	1,782.50	1,380.80	3,538.89	3,431.64	107.25	32.997		
5,500.00	4,601.41	16,659.00	7,678.61	57.70	161.70	-157.47	1,782.50	1,380.80	3,480.51	3,370.60	109.91	31.666		
5,600.00	4,677.54	16,659.00	7,678.61	59.10	161.70	-157.47	1,782.50	1,380.80	3,424.07	3,311.34	112.73	30.374		
5,700.00	4,753.66	16,659.00	7,678.61	60.49	161.70	-157.47	1,782.50	1,380.80	3,369.64	3,253.95	115.69	29.125		
5,800.00	4,829.79	16,659.00	7,678.61	61.89	161.70	-157.47	1,782.50	1,380.80	3,317.34	3,198.54	118.81	27.923		
5,900.00	4,905.92	16,659.00	7,678.61	63.29	161.70	-157.47	1,782.50	1,380.80	3,267.27	3,145.21	122.06	26.769		
6,000.00	4,982.04	16,659.00	7,678.61	64.69	161.70	-157.47	1,782.50	1,380.80	3,219.52	3,094.08	125.44	25.666		
6,100.00	5,058.17	16,659.00	7,678.61	66.09	161.70	-157.47	1,782.50	1,380.80	3,174.20	3,045.26	128.94	24.617		
6,200.00	5,134.30	16,659.00	7,678.61	67.49	161.70	-157.47	1,782.50	1,380.80	3,131.43	2,998.86	132.56	23.622		
6,300.00	5,210.42	16,659.00	7,678.61	68.89	161.70	-157.47	1,782.50	1,380.80	3,091.29	2,955.01	136.28	22.683		
6,400.00	5,286.55	16,659.00	7,678.61	70.29	161.70	-157.47	1,782.50	1,380.80	3,053.91	2,913.82	140.09	21.800		
6,500.00	5,362.67	16,659.00	7,678.61	71.69	161.70	-157.47	1,782.50	1,380.80	3,019.37	2,875.41	143.96	20.974		
6,600.00	5,438.80	16,659.00	7,678.61	73.09	161.70	-157.47	1,782.50	1,380.80	2,987.79	2,839.91	147.88	20.204		
6,700.00	5,514.93	16,659.00	7,678.61	74.49	161.70	-157.47	1,782.50	1,380.80	2,959.25	2,807.41	151.84	19.490		
6,800.00	5,591.05	16,659.00	7,678.61	75.89	161.70	-157.47	1,782.50	1,380.80	2,933.84	2,778.04	155.80	18.831		
6,900.00	5,667.18	16,659.00	7,678.61	77.29	161.70	-157.47	1,782.50	1,380.80	2,911.64	2,751.89	159.75	18.226		
7,000.00	5,743.30	16,659.00	7,678.61	78.69	161.70	-157.47	1,782.50	1,380.80	2,892.74	2,729.07	163.67	17.674		
7,100.00	5,819.43	16,659.00	7,678.61	80.09	161.70	-157.47	1,782.50	1,380.80	2,877.19	2,709.65	167.53	17.174		
7,200.00	5,895.56	16,659.00	7,678.61	81.49	161.70	-157.47	1,782.50	1,380.80	2,865.04	2,693.73	171.32	16.724		
7,300.00	5,971.68	16,659.00	7,678.61	82.90	161.70	-157.47	1,782.50	1,380.80	2,856.35	2,681.35	175.00	16.322		
7,400.00	6,047.81	16,659.00	7,678.61	84.30	161.70	-157.47	1,782.50	1,380.80	2,851.14	2,672.57	178.56	15.967		
7,498.68	6,122.93	16,659.00	7,678.61	85.68	161.70	-157.47	1,782.50	1,380.80	2,849.43	2,667.48	181.95	15.661 CC		
7,500.00	6,123.94	16,659.00	7,678.61	85.70	161.70	-157.47	1,782.50	1,380.80	2,849.43	2,667.44	181.99	15.657		
7,600.00	6,200.06	16,659.00	7,678.61	87.10	161.70	-157.47	1,782.50	1,380.80	2,851.23	2,665.97	185.26	15.390 ES		
7,700.00	6,276.19	16,659.00	7,678.61	88.50	161.70	-157.47	1,782.50	1,380.80	2,856.53	2,668.17	188.36	15.165		
7,800.00	6,352.31	16,659.00	7,678.61	89.90	161.70	-157.47	1,782.50	1,380.80	2,865.32	2,674.04	191.28	14.980		
7,900.00	6,428.44	16,659.00	7,678.61	91.31	161.70	-157.47	1,782.50	1,380.80	2,877.55	2,683.55	194.01	14.832		
8,000.00	6,504.57	16,659.00	7,678.61	92.71	161.70	-157.47	1,782.50	1,380.80	2,893.19	2,696.66	196.53	14.721		
8,100.00	6,580.69	16,659.00	7,678.61	94.11	161.70	-157.47	1,782.50	1,380.80	2,912.19	2,713.33	198.85	14.645		
8,200.00	6,656.82	16,659.00	7,678.61	95.51	161.70	-157.47	1,782.50	1,380.80	2,934.47	2,733.50	200.97	14.602		
8,300.00	6,732.95	16,659.00	7,678.61	96.91	161.70	-157.47	1,782.50	1,380.80	2,959.96	2,757.08	202.88	14.590 SF		
8,400.00	6,809.07	16,648.02	7,678.48	98.32	161.50	-157.26	1,793.48	1,380.71	2,988.56	2,783.92	204.64	14.604		
8,500.00	6,885.20	16,623.74	7,678.19	99.72	161.08	-156.78	1,817.75	1,380.53	3,020.04	2,813.77	206.27	14.641		
8,600.00	6,961.32	16,600.02	7,677.92	101.12	160.67	-156.32	1,841.47	1,380.36	3,054.28	2,846.56	207.72	14.704		
8,700.00	7,037.45	16,576.61	7,677.70	102.52	160.26	-155.87	1,864.88	1,380.19	3,091.19	2,882.19	209.00	14.790		
8,732.15	7,061.92	16,569.00	7,677.64	102.97	160.13	-155.72	1,872.50	1,380.14	3,103.61	2,894.23	209.37	14.823		
8,750.00	7,075.57	16,565.01	7,677.61	103.22	160.06	-158.43	1,876.48	1,380.11	3,110.64	2,901.06	209.58	14.843		
8,800.00	7,114.27	16,556.58	7,677.56	103.91	159.91	-166.43	1,884.91	1,380.06	3,131.01	2,920.88	210.13	14.900		
8,850.00	7,153.47	16,552.29	7,677.54	104.58	159.84	-174.95	1,889.21	1,380.03	3,152.25	2,941.58	210.67	14.963		
8,900.00	7,192.85	16,552.21	7,677.54	105.21	159.84	176.22	1,889.28	1,380.03	3,174.20	2,963.02	211.18	15.031		
8,950.00	7,232.12	16,556.42	7,677.56	105.80	159.91	167.31	1,885.07	1,380.06	3,196.67	2,985.02	211.66	15.103		
9,000.00	7,270.99	16,564.93	7,677.61	106.35	160.06	158.54	1,876.56	1,380.11	3,219.48	3,007.38	212.11	15.179		
9,050.00	7,309.16	16,577.75	7,677.71	106.85	160.28	150.11	1,863.74	1,380.20	3,242.41	3,029.89	212.52	15.257		
9,100.00	7,346.32	16,594.83	7,677.86	107.30	160.58	142.16	1,846.67	1,380.32	3,265.24	3,052.32	212.91	15.336		
9,150.00	7,382.22	16,616.09	7,678.10	107.69	160.95	134.79	1,825.41	1,380.48	3,287.72	3,074.44	213.28	15.415		
9,200.00	7,416.56	16,641.25	7,678.40	108.02	161.39	128.04	1,800.25	1,380.66	3,309.62	3,096.00	213.63	15.493		
9,250.00	7,449.09	16,659.00	7,678.61	108.29	161.70	122.10	1,782.50	1,380.80	3,330.72	3,116.71	214.01	15.563		
9,300.00	7,479.56	16,659.00	7,678.61	108.51	161.70	117.05	1,782.50	1,380.80	3,351.02	3,136.54	214.48	15.624		
9,350.00	7,507.74	16,659.00	7,678.61	108.68	161.70	112.57	1,782.50	1,380.80	3,370.41	3,155.47	214.94	15.681		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	16,659.00	7,678.61	108.79	161.70	108.64	1,782.50	1,380.80	3,388.77	3,173.37	215.40	15.733		
9,450.00	7,556.39	16,659.00	7,678.61	108.86	161.70	105.21	1,782.50	1,380.80	3,405.97	3,190.12	215.85	15.780		
9,500.00	7,576.48	16,659.00	7,678.61	108.88	161.70	102.25	1,782.50	1,380.80	3,421.91	3,205.61	216.30	15.820		
9,550.00	7,593.55	16,659.00	7,678.61	108.86	161.70	99.74	1,782.50	1,380.80	3,436.47	3,219.73	216.75	15.855		
9,600.00	7,607.46	16,659.00	7,678.61	108.80	161.70	97.65	1,782.50	1,380.80	3,449.58	3,232.38	217.19	15.883		
9,650.00	7,618.11	16,659.00	7,678.61	108.71	161.70	95.96	1,782.50	1,380.80	3,461.13	3,243.50	217.64	15.903		
9,700.00	7,625.41	16,659.00	7,678.61	108.59	161.70	94.65	1,782.50	1,380.80	3,471.07	3,252.99	218.08	15.916		
9,750.00	7,629.30	16,659.00	7,678.61	108.45	161.70	93.72	1,782.50	1,380.80	3,479.33	3,260.81	218.52	15.922		
9,781.81	7,630.00	16,659.00	7,678.61	108.35	161.70	93.31	1,782.50	1,380.80	3,483.69	3,264.89	218.80	15.922		
9,800.00	7,630.00	16,659.00	7,678.61	108.29	161.70	93.31	1,782.50	1,380.80	3,486.03	3,267.08	218.95	15.921		
9,900.00	7,630.00	16,659.00	7,678.61	107.97	161.70	93.31	1,782.50	1,380.80	3,500.54	3,280.79	219.74	15.930		
10,000.00	7,630.00	16,659.00	7,678.61	107.67	161.70	93.31	1,782.50	1,380.80	3,517.83	3,297.41	220.41	15.960		
10,100.00	7,630.00	16,659.00	7,678.61	107.38	161.70	93.31	1,782.50	1,380.80	3,537.86	3,316.90	220.96	16.011		
10,200.00	7,630.00	16,659.00	7,678.61	107.10	161.70	93.31	1,782.50	1,380.80	3,560.59	3,339.20	221.39	16.083		
10,300.00	7,630.00	16,659.00	7,678.61	106.84	161.70	93.31	1,782.50	1,380.80	3,585.97	3,364.27	221.69	16.175		
10,400.00	7,630.00	16,659.00	7,678.61	106.59	161.70	93.31	1,782.50	1,380.80	3,613.93	3,392.05	221.88	16.288		
10,500.00	7,630.00	16,659.00	7,678.61	106.35	161.70	93.31	1,782.50	1,380.80	3,644.43	3,422.47	221.95	16.420		
10,600.00	7,630.00	16,659.00	7,678.61	106.13	161.70	93.31	1,782.50	1,380.80	3,677.39	3,455.47	221.92	16.571		
10,700.00	7,630.00	16,659.00	7,678.61	105.92	161.70	93.31	1,782.50	1,380.80	3,712.75	3,490.98	221.77	16.741		
10,800.00	7,630.00	16,659.00	7,678.61	105.72	161.70	93.31	1,782.50	1,380.80	3,750.45	3,528.93	221.53	16.930		
10,900.00	7,630.00	16,659.00	7,678.61	105.54	161.70	93.31	1,782.50	1,380.80	3,790.41	3,569.23	221.18	17.137		
11,000.00	7,630.00	16,659.00	7,678.61	105.37	161.70	93.31	1,782.50	1,380.80	3,832.57	3,611.82	220.75	17.361		
11,100.00	7,630.00	16,659.00	7,678.61	105.21	161.70	93.31	1,782.50	1,380.80	3,876.85	3,656.61	220.24	17.603		
11,200.00	7,630.00	16,659.00	7,678.61	105.06	161.70	93.31	1,782.50	1,380.80	3,923.17	3,703.53	219.64	17.862		
11,300.00	7,630.00	16,659.00	7,678.61	104.93	161.70	93.31	1,782.50	1,380.80	3,971.48	3,752.50	218.98	18.137		
11,400.00	7,630.00	16,659.00	7,678.61	104.82	161.70	93.31	1,782.50	1,380.80	4,021.69	3,803.44	218.24	18.427		
11,500.00	7,630.00	16,659.00	7,678.61	104.72	161.70	93.31	1,782.50	1,380.80	4,073.74	3,856.28	217.45	18.734		
11,600.00	7,630.00	16,659.00	7,678.61	104.63	161.70	93.31	1,782.50	1,380.80	4,127.55	3,910.94	216.61	19.055		
11,700.00	7,630.00	16,659.00	7,678.61	104.55	161.70	93.31	1,782.50	1,380.80	4,183.06	3,967.35	215.72	19.391		
11,800.00	7,630.00	16,659.00	7,678.61	104.50	161.70	93.31	1,782.50	1,380.80	4,240.21	4,025.42	214.79	19.742		
11,900.00	7,630.00	16,659.00	7,678.61	104.45	161.70	93.31	1,782.50	1,380.80	4,298.92	4,085.11	213.81	20.106		
12,000.00	7,630.00	16,659.00	7,678.61	104.43	161.70	93.31	1,782.50	1,380.80	4,359.14	4,146.33	212.81	20.484		
12,100.00	7,630.00	16,659.00	7,678.61	104.42	161.70	93.31	1,782.50	1,380.80	4,420.79	4,209.01	211.78	20.874		
12,200.00	7,630.00	16,659.00	7,678.61	104.42	161.70	93.31	1,782.50	1,380.80	4,483.83	4,273.11	210.73	21.278		
12,300.00	7,630.00	16,659.00	7,678.61	104.45	161.70	93.31	1,782.50	1,380.80	4,548.20	4,338.55	209.65	21.694		
12,400.00	7,630.00	16,659.00	7,678.61	104.49	161.70	93.31	1,782.50	1,380.80	4,613.83	4,405.27	208.56	22.122		
12,500.00	7,630.00	16,659.00	7,678.61	104.55	161.70	93.31	1,782.50	1,380.80	4,680.69	4,473.22	207.46	22.562		
12,600.00	7,630.00	16,659.00	7,678.61	104.63	161.70	93.31	1,782.50	1,380.80	4,748.70	4,542.35	206.35	23.013		
12,700.00	7,630.00	16,659.00	7,678.61	104.73	161.70	93.31	1,782.50	1,380.80	4,817.83	4,612.60	205.24	23.475		
12,800.00	7,630.00	16,659.00	7,678.61	104.85	161.70	93.31	1,782.50	1,380.80	4,888.03	4,683.92	204.12	23.947		
12,900.00	7,630.00	16,659.00	7,678.61	104.99	161.70	93.31	1,782.50	1,380.80	4,959.26	4,756.26	203.00	24.430		
13,000.00	7,630.00	16,659.00	7,678.61	105.15	161.70	93.31	1,782.50	1,380.80	5,031.46	4,829.58	201.88	24.924		
13,100.00	7,630.00	16,659.00	7,678.61	105.34	161.70	93.31	1,782.50	1,380.80	5,104.60	4,903.84	200.76	25.426		
13,200.00	7,630.00	16,659.00	7,678.61	105.56	161.70	93.31	1,782.50	1,380.80	5,178.63	4,978.99	199.65	25.939		
13,300.00	7,630.00	16,659.00	7,678.61	105.80	161.70	93.31	1,782.50	1,380.80	5,253.53	5,054.99	198.54	26.461		
13,400.00	7,630.00	16,659.00	7,678.61	106.06	161.70	93.31	1,782.50	1,380.80	5,329.25	5,131.81	197.44	26.991		
13,500.00	7,630.00	16,659.00	7,678.61	106.36	161.70	93.31	1,782.50	1,380.80	5,405.77	5,209.41	196.36	27.530		
13,600.00	7,630.00	16,659.00	7,678.61	106.68	161.70	93.31	1,782.50	1,380.80	5,483.03	5,287.76	195.28	28.078		
13,700.00	7,630.00	16,659.00	7,678.61	107.03	161.70	93.31	1,782.50	1,380.80	5,561.03	5,366.81	194.21	28.634		
13,800.00	7,630.00	16,659.00	7,678.61	107.42	161.70	93.31	1,782.50	1,380.80	5,639.71	5,446.56	193.15	29.198		
13,900.00	7,630.00	16,659.00	7,678.61	107.83	161.70	93.31	1,782.50	1,380.80	5,719.06	5,526.95	192.11	29.769		
14,000.00	7,630.00	16,659.00	7,678.61	108.28	161.70	93.31	1,782.50	1,380.80	5,799.06	5,607.97	191.08	30.348		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	16,659.00	7,678.61	108.77	161.70	93.31	1,782.50	1,380.80	5,879.66	5,689.59	190.07	30.935		
14,200.00	7,630.00	16,659.00	7,678.61	109.29	161.70	93.31	1,782.50	1,380.80	5,960.85	5,771.79	189.06	31.528		
14,300.00	7,630.00	16,659.00	7,678.61	109.84	161.70	93.31	1,782.50	1,380.80	6,042.61	5,854.53	188.08	32.128		
14,400.00	7,630.00	16,659.00	7,678.61	110.43	161.70	93.31	1,782.50	1,380.80	6,124.90	5,937.80	187.10	32.735		
14,500.00	7,630.00	16,659.00	7,678.61	111.06	161.70	93.31	1,782.50	1,380.80	6,207.72	6,021.57	186.15	33.349		
14,600.00	7,630.00	16,659.00	7,678.61	111.72	161.70	93.31	1,782.50	1,380.80	6,291.04	6,105.83	185.20	33.968		
14,700.00	7,630.00	16,659.00	7,678.61	112.42	161.70	93.31	1,782.50	1,380.80	6,374.83	6,190.56	184.28	34.594		
14,800.00	7,630.00	16,659.00	7,678.61	113.16	161.70	93.31	1,782.50	1,380.80	6,459.09	6,275.73	183.36	35.226		
14,900.00	7,630.00	16,659.00	7,678.61	113.94	161.70	93.31	1,782.50	1,380.80	6,543.79	6,361.32	182.47	35.863		
15,000.00	7,630.00	16,659.00	7,678.61	114.75	161.70	93.31	1,782.50	1,380.80	6,628.92	6,447.33	181.59	36.506		
15,100.00	7,630.00	16,659.00	7,678.61	115.60	161.70	93.31	1,782.50	1,380.80	6,714.45	6,533.73	180.72	37.154		
15,200.00	7,630.00	16,659.00	7,678.61	116.48	161.70	93.31	1,782.50	1,380.80	6,800.38	6,620.52	179.87	37.808		
15,300.00	7,630.00	16,659.00	7,678.61	117.40	161.70	93.31	1,782.50	1,380.80	6,886.70	6,707.66	179.03	38.466		
15,400.00	7,630.00	16,659.00	7,678.61	118.35	161.70	93.31	1,782.50	1,380.80	6,973.37	6,795.16	178.21	39.130		
15,500.00	7,630.00	16,659.00	7,678.61	119.34	161.70	93.31	1,782.50	1,380.80	7,060.40	6,883.00	177.40	39.798		
15,600.00	7,630.00	16,659.00	7,678.61	120.35	161.70	93.31	1,782.50	1,380.80	7,147.77	6,971.16	176.61	40.471		
15,700.00	7,630.00	16,659.00	7,678.61	121.40	161.70	93.31	1,782.50	1,380.80	7,235.47	7,059.63	175.84	41.149		
15,800.00	7,630.00	16,659.00	7,678.61	122.48	161.70	93.31	1,782.50	1,380.80	7,323.48	7,148.40	175.07	41.831		
15,900.00	7,630.00	16,659.00	7,678.61	123.58	161.70	93.31	1,782.50	1,380.80	7,411.79	7,237.47	174.32	42.517		
16,000.00	7,630.00	16,659.00	7,678.61	124.71	161.70	93.31	1,782.50	1,380.80	7,500.40	7,326.81	173.59	43.208		
16,100.00	7,630.00	16,659.00	7,678.61	125.87	161.70	93.31	1,782.50	1,380.80	7,589.29	7,416.42	172.87	43.902		
16,200.00	7,630.00	16,659.00	7,678.61	127.05	161.70	93.31	1,782.50	1,380.80	7,678.46	7,506.30	172.16	44.600		
16,300.00	7,630.00	16,659.00	7,678.61	128.26	161.70	93.31	1,782.50	1,380.80	7,767.89	7,596.42	171.47	45.302		
16,400.00	7,630.00	16,659.00	7,678.61	129.48	161.70	93.31	1,782.50	1,380.80	7,857.57	7,686.78	170.79	46.008		
16,500.00	7,630.00	16,659.00	7,678.61	130.73	161.70	93.31	1,782.50	1,380.80	7,947.50	7,777.38	170.12	46.717		
16,600.00	7,630.00	16,659.00	7,678.61	132.00	161.70	93.31	1,782.50	1,380.80	8,037.67	7,868.20	169.46	47.430		
16,700.00	7,630.00	16,659.00	7,678.61	133.29	161.70	93.31	1,782.50	1,380.80	8,128.07	7,959.25	168.82	48.146		
16,800.00	7,630.00	16,659.00	7,678.61	134.59	161.70	93.31	1,782.50	1,380.80	8,218.69	8,050.50	168.19	48.865		
16,900.00	7,630.00	16,659.00	7,678.61	135.91	161.70	93.31	1,782.50	1,380.80	8,309.52	8,141.95	167.57	49.588		
17,000.00	7,630.00	16,659.00	7,678.61	137.25	161.70	93.31	1,782.50	1,380.80	8,400.57	8,233.60	166.96	50.313		
17,100.00	7,630.00	16,659.00	7,678.61	138.61	161.70	93.31	1,782.50	1,380.80	8,491.81	8,325.44	166.37	51.042		
17,200.00	7,630.00	16,659.00	7,678.61	139.97	161.70	93.31	1,782.50	1,380.80	8,583.25	8,417.47	165.79	51.773		
17,300.00	7,630.00	16,659.00	7,678.61	141.36	161.70	93.31	1,782.50	1,380.80	8,674.88	8,509.67	165.21	52.507		
17,400.00	7,630.00	16,659.00	7,678.61	142.75	161.70	93.31	1,782.50	1,380.80	8,766.69	8,602.04	164.65	53.244		
17,500.00	7,630.00	16,659.00	7,678.61	144.16	161.70	93.31	1,782.50	1,380.80	8,858.68	8,694.58	164.10	53.984		
17,600.00	7,630.00	16,659.00	7,678.61	145.58	161.70	93.31	1,782.50	1,380.80	8,950.84	8,787.29	163.56	54.726		
17,700.00	7,630.00	16,659.00	7,678.61	147.01	161.70	93.31	1,782.50	1,380.80	9,043.17	8,880.14	163.03	55.470		
17,800.00	7,630.00	16,659.00	7,678.61	148.45	161.70	93.31	1,782.50	1,380.80	9,135.66	8,973.15	162.51	56.217		
17,900.00	7,630.00	16,659.00	7,678.61	149.91	161.70	93.31	1,782.50	1,380.80	9,228.31	9,066.31	162.00	56.966		
18,000.00	7,630.00	16,659.00	7,678.61	151.37	161.70	93.31	1,782.50	1,380.80	9,321.11	9,159.61	161.50	57.717		
18,100.00	7,630.00	16,659.00	7,678.61	152.84	161.70	93.31	1,782.50	1,380.80	9,414.05	9,253.05	161.00	58.471		
18,200.00	7,630.00	16,659.00	7,678.61	154.32	161.70	93.31	1,782.50	1,380.80	9,507.14	9,346.62	160.52	59.226		
18,300.00	7,630.00	16,659.00	7,678.61	155.81	161.70	93.31	1,782.50	1,380.80	9,600.37	9,440.32	160.05	59.984		
18,400.00	7,630.00	16,659.00	7,678.61	157.31	161.70	93.31	1,782.50	1,380.80	9,693.73	9,534.15	159.58	60.744		
18,500.00	7,630.00	16,659.00	7,678.61	158.81	161.70	93.31	1,782.50	1,380.80	9,787.22	9,628.09	159.13	61.505		
18,600.00	7,630.00	16,659.00	7,678.61	160.32	161.70	93.31	1,782.50	1,380.80	9,880.84	9,722.16	158.68	62.268		
18,700.00	7,630.00	16,659.00	7,678.61	161.84	161.70	93.31	1,782.50	1,380.80	9,974.59	9,816.35	158.24	63.033		

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,530.00	7,789.95	0.00	159.85	41.68	1,780.17	1,584.79	8,290.92					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	41.68	1,780.17	1,584.79	8,195.19	8,118.14	77.05	106.360		
200.00	200.00	16,530.00	7,789.95	0.49	159.85	41.68	1,780.17	1,584.79	8,099.56	8,022.42	77.14	105.000		
300.00	300.00	16,530.00	7,789.95	0.85	159.85	41.68	1,780.17	1,584.79	8,004.04	7,926.81	77.24	103.628		
400.00	400.00	16,530.00	7,789.95	1.21	159.85	41.68	1,780.17	1,584.79	7,908.64	7,831.29	77.35	102.244		
500.00	499.98	16,530.00	7,789.95	1.56	159.85	-28.02	1,780.17	1,584.79	7,812.88	7,735.40	77.48	100.842		
600.00	599.84	16,530.00	7,789.95	1.92	159.85	-31.68	1,780.17	1,584.79	7,716.37	7,638.77	77.60	99.437		
700.00	699.45	16,530.00	7,789.95	2.29	159.85	-36.28	1,780.17	1,584.79	7,619.21	7,541.50	77.71	98.045		
800.00	798.70	16,530.00	7,789.95	2.67	159.85	-42.10	1,780.17	1,584.79	7,521.48	7,443.68	77.81	96.670		
900.00	897.47	16,530.00	7,789.95	3.07	159.85	-49.54	1,780.17	1,584.79	7,423.29	7,345.41	77.88	95.314		
1,000.00	995.62	16,530.00	7,789.95	3.50	159.85	-58.98	1,780.17	1,584.79	7,324.73	7,246.79	77.94	93.980		
1,100.00	1,093.06	16,530.00	7,789.95	3.96	159.85	-70.57	1,780.17	1,584.79	7,225.93	7,147.95	77.98	92.668		
1,200.00	1,189.64	16,530.00	7,789.95	4.46	159.85	-83.89	1,780.17	1,584.79	7,126.98	7,048.99	77.99	91.381		
1,300.00	1,285.27	16,530.00	7,789.95	5.00	159.85	-97.70	1,780.17	1,584.79	7,028.00	6,950.02	77.99	90.118		
1,400.00	1,379.82	16,530.00	7,789.95	5.60	159.85	-110.50	1,780.17	1,584.79	6,929.13	6,851.17	77.96	88.881		
1,500.00	1,473.17	16,530.00	7,789.95	6.25	159.85	-121.33	1,780.17	1,584.79	6,830.48	6,752.57	77.91	87.668		
1,600.00	1,565.21	16,530.00	7,789.95	6.95	159.85	-130.01	1,780.17	1,584.79	6,732.19	6,654.34	77.85	86.479		
1,700.00	1,655.84	16,530.00	7,789.95	7.72	159.85	-136.81	1,780.17	1,584.79	6,634.39	6,556.63	77.76	85.313		
1,800.00	1,744.94	16,530.00	7,789.95	8.55	159.85	-142.15	1,780.17	1,584.79	6,537.24	6,459.57	77.67	84.168		
1,900.00	1,832.39	16,530.00	7,789.95	9.45	159.85	-146.36	1,780.17	1,584.79	6,440.88	6,363.31	77.56	83.041		
2,000.00	1,918.11	16,530.00	7,789.95	10.41	159.85	-149.74	1,780.17	1,584.79	6,345.46	6,268.01	77.45	81.928		
2,100.00	2,001.97	16,530.00	7,789.95	11.45	159.85	-152.48	1,780.17	1,584.79	6,251.15	6,173.81	77.34	80.827		
2,200.00	2,083.88	16,530.00	7,789.95	12.56	159.85	-154.74	1,780.17	1,584.79	6,158.12	6,080.88	77.24	79.732		
2,300.00	2,163.74	16,530.00	7,789.95	13.74	159.85	-156.62	1,780.17	1,584.79	6,066.54	5,989.40	77.14	78.640		
2,400.00	2,241.45	16,530.00	7,789.95	14.99	159.85	-158.20	1,780.17	1,584.79	5,976.60	5,899.52	77.07	77.546		
2,421.22	2,257.65	16,530.00	7,789.95	15.26	159.85	-158.50	1,780.17	1,584.79	5,957.74	5,880.68	77.05	77.319		
2,500.00	2,317.63	16,530.00	7,789.95	16.29	159.85	-158.50	1,780.17	1,584.79	5,887.99	5,810.96	77.03	76.435		
2,600.00	2,393.75	16,530.00	7,789.95	17.62	159.85	-158.50	1,780.17	1,584.79	5,799.79	5,722.75	77.04	75.285		
2,700.00	2,469.88	16,530.00	7,789.95	18.95	159.85	-158.50	1,780.17	1,584.79	5,711.98	5,634.90	77.08	74.109		
2,800.00	2,546.01	16,530.00	7,789.95	20.30	159.85	-158.50	1,780.17	1,584.79	5,624.57	5,547.43	77.15	72.909		
2,900.00	2,622.13	16,530.00	7,789.95	21.65	159.85	-158.50	1,780.17	1,584.79	5,537.59	5,460.34	77.25	71.685		
3,000.00	2,698.26	16,530.00	7,789.95	23.01	159.85	-158.50	1,780.17	1,584.79	5,451.06	5,373.68	77.39	70.440		
3,100.00	2,774.38	16,530.00	7,789.95	24.37	159.85	-158.50	1,780.17	1,584.79	5,365.00	5,287.44	77.56	69.174		
3,200.00	2,850.51	16,530.00	7,789.95	25.74	159.85	-158.50	1,780.17	1,584.79	5,279.42	5,201.66	77.77	67.887		
3,300.00	2,926.64	16,530.00	7,789.95	27.11	159.85	-158.50	1,780.17	1,584.79	5,194.37	5,116.35	78.02	66.580		
3,400.00	3,002.76	16,530.00	7,789.95	28.49	159.85	-158.50	1,780.17	1,584.79	5,109.85	5,031.54	78.31	65.252		
3,500.00	3,078.89	16,530.00	7,789.95	29.87	159.85	-158.50	1,780.17	1,584.79	5,025.90	4,947.26	78.65	63.906		
3,600.00	3,155.02	16,530.00	7,789.95	31.25	159.85	-158.50	1,780.17	1,584.79	4,942.55	4,863.52	79.03	62.540		
3,700.00	3,231.14	16,530.00	7,789.95	32.63	159.85	-158.50	1,780.17	1,584.79	4,859.83	4,780.36	79.47	61.154		
3,800.00	3,307.27	16,530.00	7,789.95	34.01	159.85	-158.50	1,780.17	1,584.79	4,777.77	4,697.81	79.96	59.750		
3,900.00	3,383.39	16,530.00	7,789.95	35.40	159.85	-158.50	1,780.17	1,584.79	4,696.41	4,615.89	80.52	58.328		
4,000.00	3,459.52	16,530.00	7,789.95	36.79	159.85	-158.50	1,780.17	1,584.79	4,615.77	4,534.63	81.14	56.887		
4,100.00	3,535.65	16,530.00	7,789.95	38.18	159.85	-158.50	1,780.17	1,584.79	4,535.91	4,454.08	81.83	55.430		
4,200.00	3,611.77	16,530.00	7,789.95	39.57	159.85	-158.50	1,780.17	1,584.79	4,456.86	4,374.26	82.60	53.957		
4,300.00	3,687.90	16,530.00	7,789.95	40.96	159.85	-158.50	1,780.17	1,584.79	4,378.67	4,295.22	83.45	52.470		
4,400.00	3,764.02	16,530.00	7,789.95	42.35	159.85	-158.50	1,780.17	1,584.79	4,301.38	4,216.99	84.39	50.969		
4,500.00	3,840.15	16,530.00	7,789.95	43.74	159.85	-158.50	1,780.17	1,584.79	4,225.04	4,139.62	85.43	49.457		
4,600.00	3,916.28	16,530.00	7,789.95	45.13	159.85	-158.50	1,780.17	1,584.79	4,149.71	4,063.15	86.57	47.937		
4,700.00	3,992.40	16,530.00	7,789.95	46.53	159.85	-158.50	1,780.17	1,584.79	4,075.45	3,987.63	87.81	46.410		
4,800.00	4,068.53	16,530.00	7,789.95	47.92	159.85	-158.50	1,780.17	1,584.79	4,002.30	3,913.12	89.18	44.881		
4,900.00	4,144.66	16,530.00	7,789.95	49.32	159.85	-158.50	1,780.17	1,584.79	3,930.33	3,839.67	90.66	43.352		
5,000.00	4,220.78	16,530.00	7,789.95	50.71	159.85	-158.50	1,780.17	1,584.79	3,859.62	3,767.34	92.28	41.827		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	16,530.00	7,789.95	52.11	159.85	-158.50	1,780.17	1,584.79	3,790.22	3,696.19	94.03	40.310		
5,200.00	4,373.03	16,530.00	7,789.95	53.51	159.85	-158.50	1,780.17	1,584.79	3,722.22	3,626.30	95.92	38.806		
5,300.00	4,449.16	16,530.00	7,789.95	54.90	159.85	-158.50	1,780.17	1,584.79	3,655.68	3,557.73	97.96	37.319		
5,400.00	4,525.29	16,530.00	7,789.95	56.30	159.85	-158.50	1,780.17	1,584.79	3,590.70	3,490.56	100.15	35.855		
5,500.00	4,601.41	16,530.00	7,789.95	57.70	159.85	-158.50	1,780.17	1,584.79	3,527.36	3,424.87	102.49	34.416		
5,600.00	4,677.54	16,530.00	7,789.95	59.10	159.85	-158.50	1,780.17	1,584.79	3,465.75	3,360.75	104.99	33.009		
5,700.00	4,753.66	16,530.00	7,789.95	60.49	159.85	-158.50	1,780.17	1,584.79	3,405.96	3,298.30	107.66	31.637		
5,800.00	4,829.79	16,530.00	7,789.95	61.89	159.85	-158.50	1,780.17	1,584.79	3,348.08	3,237.61	110.48	30.306		
5,900.00	4,905.92	16,530.00	7,789.95	63.29	159.85	-158.50	1,780.17	1,584.79	3,292.23	3,178.78	113.46	29.018		
6,000.00	4,982.04	16,530.00	7,789.95	64.69	159.85	-158.50	1,780.17	1,584.79	3,238.51	3,121.92	116.59	27.777		
6,100.00	5,058.17	16,530.00	7,789.95	66.09	159.85	-158.50	1,780.17	1,584.79	3,187.01	3,067.14	119.87	26.587		
6,200.00	5,134.30	16,530.00	7,789.95	67.49	159.85	-158.50	1,780.17	1,584.79	3,137.86	3,014.57	123.30	25.449		
6,300.00	5,210.42	16,530.00	7,789.95	68.89	159.85	-158.50	1,780.17	1,584.79	3,091.17	2,964.31	126.86	24.367		
6,400.00	5,286.55	16,530.00	7,789.95	70.29	159.85	-158.50	1,780.17	1,584.79	3,047.04	2,916.50	130.54	23.342		
6,500.00	5,362.67	16,530.00	7,789.95	71.69	159.85	-158.50	1,780.17	1,584.79	3,005.59	2,871.26	134.33	22.375		
6,600.00	5,438.80	16,530.00	7,789.95	73.09	159.85	-158.50	1,780.17	1,584.79	2,966.93	2,828.73	138.21	21.467		
6,700.00	5,514.93	16,530.00	7,789.95	74.49	159.85	-158.50	1,780.17	1,584.79	2,931.18	2,789.02	142.16	20.618		
6,800.00	5,591.05	16,530.00	7,789.95	75.89	159.85	-158.50	1,780.17	1,584.79	2,898.44	2,752.26	146.18	19.828		
6,900.00	5,667.18	16,530.00	7,789.95	77.29	159.85	-158.50	1,780.17	1,584.79	2,868.81	2,718.59	150.23	19.096		
7,000.00	5,743.30	16,530.00	7,789.95	78.69	159.85	-158.50	1,780.17	1,584.79	2,842.40	2,688.11	154.29	18.423		
7,100.00	5,819.43	16,530.00	7,789.95	80.09	159.85	-158.50	1,780.17	1,584.79	2,819.28	2,660.94	158.34	17.805		
7,200.00	5,895.56	16,530.00	7,789.95	81.49	159.85	-158.50	1,780.17	1,584.79	2,799.55	2,637.19	162.36	17.243		
7,300.00	5,971.68	16,530.00	7,789.95	82.90	159.85	-158.50	1,780.17	1,584.79	2,783.27	2,616.96	166.31	16.735		
7,400.00	6,047.81	16,530.00	7,789.95	84.30	159.85	-158.50	1,780.17	1,584.79	2,770.51	2,600.32	170.19	16.279		
7,500.00	6,123.94	16,530.00	7,789.95	85.70	159.85	-158.50	1,780.17	1,584.79	2,761.31	2,587.36	173.95	15.874		
7,600.00	6,200.06	16,530.00	7,789.95	87.10	159.85	-158.50	1,780.17	1,584.79	2,755.72	2,578.13	177.59	15.517		
7,700.00	6,276.19	16,530.00	7,789.95	88.50	159.85	-158.50	1,780.17	1,584.79	2,753.75	2,572.67	181.08	15.207		
7,704.36	6,279.50	16,530.00	7,789.95	88.56	159.85	-158.50	1,780.17	1,584.79	2,753.74	2,572.51	181.23	15.195 CC		
7,800.00	6,352.31	16,530.00	7,789.95	89.90	159.85	-158.50	1,780.17	1,584.79	2,755.40	2,571.00	184.40	14.943 ES		
7,900.00	6,428.44	16,530.00	7,789.95	91.31	159.85	-158.50	1,780.17	1,584.79	2,760.68	2,573.15	187.54	14.721		
8,000.00	6,504.57	16,530.00	7,789.95	92.71	159.85	-158.50	1,780.17	1,584.79	2,769.57	2,579.09	190.47	14.540		
8,100.00	6,580.69	16,530.00	7,789.95	94.11	159.85	-158.50	1,780.17	1,584.79	2,782.02	2,588.81	193.21	14.399		
8,200.00	6,656.82	16,530.00	7,789.95	95.51	159.85	-158.50	1,780.17	1,584.79	2,797.99	2,602.27	195.72	14.296		
8,300.00	6,732.95	16,530.00	7,789.95	96.91	159.85	-158.50	1,780.17	1,584.79	2,817.43	2,619.41	198.02	14.228		
8,400.00	6,809.07	16,530.00	7,789.95	98.32	159.85	-158.50	1,780.17	1,584.79	2,840.25	2,640.15	200.10	14.194		
8,500.00	6,885.20	16,530.00	7,789.95	99.72	159.85	-158.50	1,780.17	1,584.79	2,866.38	2,664.43	201.96	14.193 SF		
8,600.00	6,961.32	16,530.00	7,789.95	101.12	159.85	-158.50	1,780.17	1,584.79	2,895.73	2,692.13	203.60	14.223		
8,700.00	7,037.45	16,530.00	7,789.95	102.52	159.85	-158.50	1,780.17	1,584.79	2,928.21	2,723.18	205.03	14.282		
8,732.15	7,061.92	16,530.00	7,789.95	102.97	159.85	-158.50	1,780.17	1,584.79	2,939.30	2,733.85	205.45	14.307		
8,750.00	7,075.57	16,530.00	7,789.95	103.22	159.85	-161.20	1,780.17	1,584.79	2,945.60	2,739.92	205.68	14.321		
8,800.00	7,114.27	16,530.00	7,789.95	103.91	159.85	-169.11	1,780.17	1,584.79	2,963.86	2,757.54	206.32	14.365		
8,850.00	7,153.47	16,530.00	7,789.95	104.58	159.85	-177.42	1,780.17	1,584.79	2,982.88	2,775.91	206.97	14.412		
8,900.00	7,192.85	16,530.00	7,789.95	105.21	159.85	174.06	1,780.17	1,584.79	3,002.51	2,794.89	207.62	14.462		
8,950.00	7,232.12	16,530.00	7,789.95	105.80	159.85	165.56	1,780.17	1,584.79	3,022.59	2,814.32	208.27	14.513		
9,000.00	7,270.99	16,530.00	7,789.95	106.35	159.85	157.30	1,780.17	1,584.79	3,042.96	2,834.05	208.91	14.566		
9,050.00	7,309.16	16,530.00	7,789.95	106.85	159.85	149.44	1,780.17	1,584.79	3,063.46	2,853.92	209.54	14.620		
9,100.00	7,346.32	16,530.00	7,789.95	107.30	159.85	142.13	1,780.17	1,584.79	3,083.92	2,873.76	210.16	14.674		
9,150.00	7,382.22	16,530.00	7,789.95	107.69	159.85	135.40	1,780.17	1,584.79	3,104.21	2,893.44	210.77	14.728		
9,200.00	7,416.56	16,530.00	7,789.95	108.02	159.85	129.30	1,780.17	1,584.79	3,124.17	2,912.80	211.37	14.781		
9,250.00	7,449.09	16,530.00	7,789.95	108.29	159.85	123.81	1,780.17	1,584.79	3,143.65	2,931.70	211.95	14.832		
9,300.00	7,479.56	16,530.00	7,789.95	108.51	159.85	118.90	1,780.17	1,584.79	3,162.52	2,949.99	212.52	14.881		
9,350.00	7,507.74	16,530.00	7,789.95	108.68	159.85	114.55	1,780.17	1,584.79	3,180.64	2,967.56	213.08	14.927		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	16,530.00	7,789.95	108.79	159.85	110.71	1,780.17	1,584.79	3,197.90	2,984.26	213.63	14.969		
9,450.00	7,556.39	16,530.00	7,789.95	108.86	159.85	107.35	1,780.17	1,584.79	3,214.17	3,000.00	214.17	15.008		
9,500.00	7,576.48	16,530.00	7,789.95	108.88	159.85	104.45	1,780.17	1,584.79	3,229.34	3,014.65	214.70	15.041		
9,550.00	7,593.55	16,530.00	7,789.95	108.86	159.85	101.97	1,780.17	1,584.79	3,243.33	3,028.11	215.21	15.070		
9,600.00	7,607.46	16,530.00	7,789.95	108.80	159.85	99.89	1,780.17	1,584.79	3,256.03	3,040.30	215.72	15.094		
9,650.00	7,618.11	16,530.00	7,789.95	108.71	159.85	98.19	1,780.17	1,584.79	3,267.36	3,051.14	216.22	15.111		
9,700.00	7,625.41	16,530.00	7,789.95	108.59	159.85	96.87	1,780.17	1,584.79	3,277.26	3,060.56	216.70	15.123		
9,750.00	7,629.30	16,530.00	7,789.95	108.45	159.85	95.90	1,780.17	1,584.79	3,285.67	3,068.49	217.18	15.129		
9,781.81	7,630.00	16,530.00	7,789.95	108.35	159.85	95.47	1,780.17	1,584.79	3,290.21	3,072.73	217.47	15.129		
9,800.00	7,630.00	16,530.00	7,789.95	108.29	159.85	95.47	1,780.17	1,584.79	3,292.67	3,075.03	217.64	15.129		
9,900.00	7,630.00	16,530.00	7,789.95	107.97	159.85	95.47	1,780.17	1,584.79	3,307.98	3,089.51	218.46	15.142		
10,000.00	7,630.00	16,530.00	7,789.95	107.67	159.85	95.47	1,780.17	1,584.79	3,326.22	3,107.07	219.15	15.178		
10,100.00	7,630.00	16,530.00	7,789.95	107.38	159.85	95.47	1,780.17	1,584.79	3,347.35	3,127.64	219.70	15.236		
10,200.00	7,630.00	16,530.00	7,789.95	107.10	159.85	95.47	1,780.17	1,584.79	3,371.31	3,151.20	220.12	15.316		
10,300.00	7,630.00	16,530.00	7,789.95	106.84	159.85	95.47	1,780.17	1,584.79	3,398.06	3,177.66	220.40	15.418		
10,400.00	7,630.00	16,530.00	7,789.95	106.59	159.85	95.47	1,780.17	1,584.79	3,427.51	3,206.96	220.55	15.541		
10,500.00	7,630.00	16,530.00	7,789.95	106.35	159.85	95.47	1,780.17	1,584.79	3,459.60	3,239.03	220.57	15.685		
10,600.00	7,630.00	16,530.00	7,789.95	106.13	159.85	95.47	1,780.17	1,584.79	3,494.26	3,273.79	220.46	15.850		
10,700.00	7,630.00	16,530.00	7,789.95	105.92	159.85	95.47	1,780.17	1,584.79	3,531.41	3,311.16	220.25	16.034		
10,800.00	7,630.00	16,530.00	7,789.95	105.72	159.85	95.47	1,780.17	1,584.79	3,570.98	3,351.06	219.92	16.238		
10,900.00	7,630.00	16,530.00	7,789.95	105.54	159.85	95.47	1,780.17	1,584.79	3,612.88	3,393.39	219.49	16.460		
11,000.00	7,630.00	16,530.00	7,789.95	105.37	159.85	95.47	1,780.17	1,584.79	3,657.04	3,438.07	218.96	16.702		
11,100.00	7,630.00	16,530.00	7,789.95	105.21	159.85	95.47	1,780.17	1,584.79	3,703.37	3,485.02	218.35	16.961		
11,200.00	7,630.00	16,530.00	7,789.95	105.06	159.85	95.47	1,780.17	1,584.79	3,751.79	3,534.14	217.65	17.237		
11,300.00	7,630.00	16,530.00	7,789.95	104.93	159.85	95.47	1,780.17	1,584.79	3,802.23	3,585.35	216.89	17.531		
11,400.00	7,630.00	16,530.00	7,789.95	104.82	159.85	95.47	1,780.17	1,584.79	3,854.61	3,638.56	216.05	17.841		
11,500.00	7,630.00	16,530.00	7,789.95	104.72	159.85	95.47	1,780.17	1,584.79	3,908.84	3,693.68	215.16	18.167		
11,600.00	7,630.00	16,530.00	7,789.95	104.63	159.85	95.47	1,780.17	1,584.79	3,964.85	3,750.64	214.21	18.509		
11,700.00	7,630.00	16,530.00	7,789.95	104.55	159.85	95.47	1,780.17	1,584.79	4,022.57	3,809.35	213.22	18.866		
11,800.00	7,630.00	16,530.00	7,789.95	104.50	159.85	95.47	1,780.17	1,584.79	4,081.92	3,869.73	212.19	19.237		
11,900.00	7,630.00	16,530.00	7,789.95	104.45	159.85	95.47	1,780.17	1,584.79	4,142.84	3,931.72	211.12	19.623		
12,000.00	7,630.00	16,530.00	7,789.95	104.43	159.85	95.47	1,780.17	1,584.79	4,205.25	3,995.22	210.02	20.023		
12,100.00	7,630.00	16,530.00	7,789.95	104.42	159.85	95.47	1,780.17	1,584.79	4,269.09	4,060.19	208.90	20.436		
12,200.00	7,630.00	16,530.00	7,789.95	104.42	159.85	95.47	1,780.17	1,584.79	4,334.30	4,126.53	207.77	20.862		
12,300.00	7,630.00	16,530.00	7,789.95	104.45	159.85	95.47	1,780.17	1,584.79	4,400.82	4,194.20	206.61	21.300		
12,400.00	7,630.00	16,530.00	7,789.95	104.49	159.85	95.47	1,780.17	1,584.79	4,468.58	4,263.13	205.45	21.751		
12,500.00	7,630.00	16,530.00	7,789.95	104.55	159.85	95.47	1,780.17	1,584.79	4,537.53	4,333.26	204.27	22.213		
12,600.00	7,630.00	16,530.00	7,789.95	104.63	159.85	95.47	1,780.17	1,584.79	4,607.63	4,404.53	203.09	22.687		
12,700.00	7,630.00	16,530.00	7,789.95	104.73	159.85	95.47	1,780.17	1,584.79	4,678.81	4,476.89	201.91	23.172		
12,800.00	7,630.00	16,530.00	7,789.95	104.85	159.85	95.47	1,780.17	1,584.79	4,751.03	4,550.29	200.74	23.668		
12,900.00	7,630.00	16,530.00	7,789.95	104.99	159.85	95.47	1,780.17	1,584.79	4,824.24	4,624.68	199.56	24.174		
13,000.00	7,630.00	16,530.00	7,789.95	105.15	159.85	95.47	1,780.17	1,584.79	4,898.40	4,700.01	198.39	24.691		
13,100.00	7,630.00	16,530.00	7,789.95	105.34	159.85	95.47	1,780.17	1,584.79	4,973.46	4,776.24	197.23	25.217		
13,200.00	7,630.00	16,530.00	7,789.95	105.56	159.85	95.47	1,780.17	1,584.79	5,049.39	4,853.32	196.07	25.753		
13,300.00	7,630.00	16,530.00	7,789.95	105.80	159.85	95.47	1,780.17	1,584.79	5,126.15	4,931.22	194.93	26.298		
13,400.00	7,630.00	16,530.00	7,789.95	106.06	159.85	95.47	1,780.17	1,584.79	5,203.69	5,009.90	193.79	26.852		
13,500.00	7,630.00	16,530.00	7,789.95	106.36	159.85	95.47	1,780.17	1,584.79	5,281.99	5,089.32	192.67	27.414		
13,600.00	7,630.00	16,530.00	7,789.95	106.68	159.85	95.47	1,780.17	1,584.79	5,361.01	5,169.44	191.57	27.985		
13,700.00	7,630.00	16,530.00	7,789.95	107.03	159.85	95.47	1,780.17	1,584.79	5,440.72	5,250.25	190.47	28.564		
13,800.00	7,630.00	16,530.00	7,789.95	107.42	159.85	95.47	1,780.17	1,584.79	5,521.09	5,331.70	189.40	29.151		
13,900.00	7,630.00	16,530.00	7,789.95	107.83	159.85	95.47	1,780.17	1,584.79	5,602.10	5,413.76	188.33	29.746		
14,000.00	7,630.00	16,530.00	7,789.95	108.28	159.85	95.47	1,780.17	1,584.79	5,683.71	5,496.42	187.29	30.348		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	16,530.00	7,789.95	108.77	159.85	95.47	1,780.17	1,584.79	5,765.89	5,579.64	186.26	30.957		
14,200.00	7,630.00	16,530.00	7,789.95	109.29	159.85	95.47	1,780.17	1,584.79	5,848.64	5,663.39	185.24	31.573		
14,300.00	7,630.00	16,530.00	7,789.95	109.84	159.85	95.47	1,780.17	1,584.79	5,931.91	5,747.67	184.24	32.196		
14,400.00	7,630.00	16,530.00	7,789.95	110.43	159.85	95.47	1,780.17	1,584.79	6,015.69	5,832.43	183.26	32.825		
14,500.00	7,630.00	16,530.00	7,789.95	111.06	159.85	95.47	1,780.17	1,584.79	6,099.97	5,917.67	182.30	33.461		
14,600.00	7,630.00	16,530.00	7,789.95	111.72	159.85	95.47	1,780.17	1,584.79	6,184.71	6,003.36	181.35	34.103		
14,700.00	7,630.00	16,530.00	7,789.95	112.42	159.85	95.47	1,780.17	1,584.79	6,269.90	6,089.48	180.42	34.751		
14,800.00	7,630.00	16,530.00	7,789.95	113.16	159.85	95.47	1,780.17	1,584.79	6,355.52	6,176.01	179.51	35.404		
14,900.00	7,630.00	16,530.00	7,789.95	113.94	159.85	95.47	1,780.17	1,584.79	6,441.56	6,262.94	178.62	36.064		
15,000.00	7,630.00	16,530.00	7,789.95	114.75	159.85	95.47	1,780.17	1,584.79	6,527.99	6,350.26	177.74	36.728		
15,100.00	7,630.00	16,530.00	7,789.95	115.60	159.85	95.47	1,780.17	1,584.79	6,614.81	6,437.94	176.87	37.398		
15,200.00	7,630.00	16,530.00	7,789.95	116.48	159.85	95.47	1,780.17	1,584.79	6,702.00	6,525.97	176.03	38.073		
15,300.00	7,630.00	16,530.00	7,789.95	117.40	159.85	95.47	1,780.17	1,584.79	6,789.53	6,614.33	175.20	38.753		
15,400.00	7,630.00	16,530.00	7,789.95	118.35	159.85	95.47	1,780.17	1,584.79	6,877.41	6,703.03	174.38	39.438		
15,500.00	7,630.00	16,530.00	7,789.95	119.34	159.85	95.47	1,780.17	1,584.79	6,965.62	6,792.03	173.59	40.127		
15,600.00	7,630.00	16,530.00	7,789.95	120.35	159.85	95.47	1,780.17	1,584.79	7,054.13	6,881.33	172.80	40.821		
15,700.00	7,630.00	16,530.00	7,789.95	121.40	159.85	95.47	1,780.17	1,584.79	7,142.96	6,970.92	172.04	41.520		
15,800.00	7,630.00	16,530.00	7,789.95	122.48	159.85	95.47	1,780.17	1,584.79	7,232.07	7,060.79	171.29	42.222		
15,900.00	7,630.00	16,530.00	7,789.95	123.58	159.85	95.47	1,780.17	1,584.79	7,321.47	7,150.92	170.55	42.929		
16,000.00	7,630.00	16,530.00	7,789.95	124.71	159.85	95.47	1,780.17	1,584.79	7,411.13	7,241.31	169.83	43.639		
16,100.00	7,630.00	16,530.00	7,789.95	125.87	159.85	95.47	1,780.17	1,584.79	7,501.06	7,331.94	169.12	44.354		
16,200.00	7,630.00	16,530.00	7,789.95	127.05	159.85	95.47	1,780.17	1,584.79	7,591.24	7,422.82	168.42	45.072		
16,300.00	7,630.00	16,530.00	7,789.95	128.26	159.85	95.47	1,780.17	1,584.79	7,681.66	7,513.92	167.74	45.794		
16,400.00	7,630.00	16,530.00	7,789.95	129.48	159.85	95.47	1,780.17	1,584.79	7,772.32	7,605.24	167.08	46.519		
16,500.00	7,630.00	16,530.00	7,789.95	130.73	159.85	95.47	1,780.17	1,584.79	7,863.21	7,696.78	166.42	47.248		
16,600.00	7,630.00	16,530.00	7,789.95	132.00	159.85	95.47	1,780.17	1,584.79	7,954.31	7,788.52	165.78	47.980		
16,700.00	7,630.00	16,530.00	7,789.95	133.29	159.85	95.47	1,780.17	1,584.79	8,045.62	7,880.47	165.16	48.715		
16,800.00	7,630.00	16,530.00	7,789.95	134.59	159.85	95.47	1,780.17	1,584.79	8,137.14	7,972.60	164.54	49.453		
16,900.00	7,630.00	16,530.00	7,789.95	135.91	159.85	95.47	1,780.17	1,584.79	8,228.86	8,064.92	163.94	50.195		
17,000.00	7,630.00	16,530.00	7,789.95	137.25	159.85	95.47	1,780.17	1,584.79	8,320.76	8,157.41	163.35	50.939		
17,100.00	7,630.00	16,530.00	7,789.95	138.61	159.85	95.47	1,780.17	1,584.79	8,412.85	8,250.08	162.77	51.686		
17,200.00	7,630.00	16,530.00	7,789.95	139.97	159.85	95.47	1,780.17	1,584.79	8,505.12	8,342.92	162.20	52.435		
17,300.00	7,630.00	16,530.00	7,789.95	141.36	159.85	95.47	1,780.17	1,584.79	8,597.57	8,435.92	161.65	53.188		
17,400.00	7,630.00	16,530.00	7,789.95	142.75	159.85	95.47	1,780.17	1,584.79	8,690.18	8,529.08	161.10	53.942		
17,500.00	7,630.00	16,530.00	7,789.95	144.16	159.85	95.47	1,780.17	1,584.79	8,782.95	8,622.38	160.57	54.700		
17,600.00	7,630.00	16,530.00	7,789.95	145.58	159.85	95.47	1,780.17	1,584.79	8,875.88	8,715.84	160.04	55.459		
17,700.00	7,630.00	16,530.00	7,789.95	147.01	159.85	95.47	1,780.17	1,584.79	8,968.96	8,809.43	159.53	56.221		
17,800.00	7,630.00	16,530.00	7,789.95	148.45	159.85	95.47	1,780.17	1,584.79	9,062.19	8,903.16	159.03	56.986		
17,900.00	7,630.00	16,530.00	7,789.95	149.91	159.85	95.47	1,780.17	1,584.79	9,155.56	8,997.03	158.53	57.752		
18,000.00	7,630.00	16,530.00	7,789.95	151.37	159.85	95.47	1,780.17	1,584.79	9,249.07	9,091.02	158.05	58.520		
18,100.00	7,630.00	16,530.00	7,789.95	152.84	159.85	95.47	1,780.17	1,584.79	9,342.71	9,185.14	157.57	59.291		
18,200.00	7,630.00	16,530.00	7,789.95	154.32	159.85	95.47	1,780.17	1,584.79	9,436.49	9,279.38	157.11	60.063		
18,300.00	7,630.00	16,530.00	7,789.95	155.81	159.85	95.47	1,780.17	1,584.79	9,530.39	9,373.74	156.65	60.837		
18,400.00	7,630.00	16,530.00	7,789.95	157.31	159.85	95.47	1,780.17	1,584.79	9,624.42	9,468.21	156.21	61.613		
18,500.00	7,630.00	16,530.00	7,789.95	158.81	159.85	95.47	1,780.17	1,584.79	9,718.56	9,562.79	155.77	62.391		
18,600.00	7,630.00	16,530.00	7,789.95	160.32	159.85	95.47	1,780.17	1,584.79	9,812.82	9,657.48	155.34	63.171		
18,700.00	7,630.00	16,530.00	7,789.95	161.84	159.85	95.47	1,780.17	1,584.79	9,907.19	9,752.27	154.92	63.952		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-55.39	787.25	-1,140.97	1,386.25					
100.00	100.00	85.45	85.45	0.13	0.13	-55.40	787.28	-1,141.12	1,386.36	1,386.09	0.27	5,157.828 ES		
200.00	200.00	180.40	180.40	0.49	0.28	-55.41	787.39	-1,141.64	1,386.87	1,386.10	0.78	1,786.698		
300.00	300.00	277.51	277.50	0.85	0.62	-55.42	787.63	-1,142.42	1,387.67	1,386.20	1.48	940.485		
400.00	400.00	375.86	375.85	1.21	0.98	-55.42	788.06	-1,143.31	1,388.67	1,386.48	2.19	635.164		
500.00	499.98	481.94	481.93	1.56	1.36	-122.19	788.43	-1,144.09	1,390.40	1,387.48	2.92	476.099		
600.00	599.84	561.43	561.41	1.92	1.64	-122.27	788.74	-1,144.74	1,394.18	1,390.62	3.56	391.506		
700.00	699.45	614.85	614.80	2.29	1.84	-122.28	789.85	-1,146.18	1,402.38	1,398.26	4.12	340.534		
800.00	798.70	654.00	653.85	2.67	1.98	-122.18	791.93	-1,148.04	1,416.14	1,411.51	4.63	305.854		
900.00	897.47	723.53	722.97	3.07	2.24	-122.12	798.08	-1,152.28	1,434.68	1,429.42	5.26	272.768		
1,000.00	995.62	794.42	793.16	3.50	2.50	-122.02	806.67	-1,157.26	1,457.43	1,451.52	5.91	246.525		
1,100.00	1,093.06	873.59	871.38	3.96	2.81	-121.96	817.15	-1,163.51	1,483.41	1,476.79	6.62	224.249		
1,200.00	1,189.64	956.38	953.05	4.46	3.15	-121.94	828.87	-1,170.46	1,512.15	1,504.79	7.36	205.443		
1,300.00	1,285.27	1,055.32	1,050.52	5.00	3.56	-122.05	843.51	-1,178.96	1,543.33	1,535.12	8.21	188.058		
1,400.00	1,379.82	1,161.28	1,154.97	5.60	4.01	-122.24	859.74	-1,186.34	1,575.35	1,566.23	9.12	172.746		
1,500.00	1,473.17	1,255.80	1,248.22	6.25	4.41	-122.41	873.75	-1,192.91	1,609.14	1,599.12	10.02	160.570		
1,600.00	1,565.21	1,344.03	1,335.31	6.95	4.79	-122.58	886.34	-1,199.27	1,644.92	1,633.99	10.93	150.515		
1,700.00	1,655.84	1,483.03	1,472.81	7.72	5.38	-123.34	904.75	-1,207.85	1,681.53	1,669.43	12.10	138.924		
1,800.00	1,744.94	1,569.69	1,558.67	8.55	5.74	-123.59	915.73	-1,212.09	1,719.10	1,706.02	13.07	131.480		
1,900.00	1,832.39	1,651.82	1,640.05	9.45	6.08	-123.83	925.92	-1,216.35	1,759.04	1,744.99	14.06	125.143		
2,000.00	1,918.11	1,724.20	1,711.82	10.41	6.38	-123.97	934.13	-1,220.90	1,801.75	1,786.73	15.02	119.987		
2,100.00	2,001.97	1,798.69	1,785.71	11.45	6.68	-124.17	941.83	-1,226.39	1,847.29	1,831.28	16.01	115.412		
2,200.00	2,083.88	1,905.17	1,891.35	12.56	7.12	-124.81	952.93	-1,233.78	1,895.02	1,877.83	17.18	110.295		
2,300.00	2,163.74	1,974.65	1,960.25	13.74	7.41	-124.88	960.77	-1,237.90	1,944.69	1,926.49	18.20	106.841		
2,400.00	2,241.45	2,079.81	2,064.55	14.99	7.84	-125.47	972.89	-1,243.64	1,996.57	1,977.14	19.43	102.756		
2,421.22	2,257.65	2,096.01	2,080.63	15.26	7.90	-125.50	974.76	-1,244.37	2,007.74	1,988.08	19.66	102.106		
2,500.00	2,317.63	2,155.82	2,139.97	16.29	8.15	-126.38	981.75	-1,247.03	2,049.63	2,029.11	20.52	99.892		
2,600.00	2,393.75	2,223.97	2,207.56	17.62	8.43	-127.35	989.89	-1,250.11	2,103.53	2,081.97	21.55	97.597		
2,700.00	2,469.88	2,294.35	2,277.35	18.95	8.72	-128.32	998.36	-1,253.56	2,158.34	2,135.75	22.59	95.560		
2,800.00	2,546.01	2,367.89	2,350.31	20.30	9.02	-129.30	1,006.69	-1,257.41	2,213.81	2,190.19	23.62	93.727		
2,900.00	2,622.13	2,443.36	2,425.21	21.65	9.33	-130.28	1,014.97	-1,261.54	2,269.92	2,245.27	24.65	92.092		
3,000.00	2,698.26	2,528.34	2,509.52	23.01	9.68	-131.32	1,024.75	-1,265.79	2,326.32	2,300.60	25.72	90.436		
3,100.00	2,774.38	2,611.73	2,592.28	24.37	10.02	-132.30	1,034.23	-1,269.69	2,382.92	2,356.15	26.78	88.989		
3,200.00	2,850.51	2,694.95	2,674.93	25.74	10.35	-133.24	1,043.18	-1,273.44	2,439.73	2,411.92	27.82	87.711		
3,300.00	2,926.64	2,780.94	2,760.31	27.11	10.70	-134.16	1,052.79	-1,276.92	2,496.69	2,467.82	28.86	86.503		
3,400.00	3,002.76	2,858.05	2,836.85	28.49	11.01	-134.95	1,061.68	-1,279.81	2,553.87	2,524.02	29.85	85.558		
3,500.00	3,078.89	2,943.83	2,922.06	29.87	11.36	-135.80	1,070.98	-1,282.96	2,611.23	2,580.35	30.87	84.581		
3,600.00	3,155.02	2,996.40	2,974.32	31.25	11.57	-136.31	1,076.32	-1,285.08	2,669.10	2,637.43	31.68	84.263		
3,700.00	3,231.14	3,037.00	3,014.66	32.63	11.73	-136.70	1,080.51	-1,287.06	2,728.04	2,695.66	32.39	84.233		
3,800.00	3,307.27	3,089.44	3,066.69	34.01	11.95	-137.18	1,086.26	-1,290.11	2,788.04	2,754.88	33.16	84.072		
3,900.00	3,383.39	3,137.57	3,114.35	35.40	12.15	-137.61	1,092.06	-1,293.43	2,849.15	2,815.25	33.90	84.049		
4,000.00	3,459.52	3,210.38	3,186.41	36.79	12.46	-138.22	1,101.08	-1,298.68	2,910.82	2,876.02	34.80	83.644		
4,100.00	3,535.65	3,312.51	3,287.61	38.18	12.89	-139.06	1,112.92	-1,305.74	2,972.41	2,936.52	35.89	82.814		
4,200.00	3,611.77	3,419.84	3,394.15	39.57	13.32	-139.93	1,123.99	-1,312.36	3,033.59	2,996.60	37.00	81.998		
4,300.00	3,687.90	3,522.69	3,496.36	40.96	13.74	-140.72	1,134.36	-1,317.28	3,093.82	3,055.75	38.06	81.284		
4,400.00	3,764.02	3,583.78	3,557.02	42.35	13.98	-141.16	1,141.04	-1,320.16	3,154.37	3,115.53	38.85	81.196		
4,500.00	3,840.15	3,636.95	3,609.75	43.74	14.20	-141.53	1,147.23	-1,322.94	3,215.58	3,176.00	39.58	81.246		
4,600.00	3,916.28	3,697.40	3,669.66	45.13	14.46	-141.93	1,154.53	-1,326.47	3,277.43	3,237.08	40.35	81.218		
4,700.00	3,992.40	3,775.56	3,747.15	46.53	14.78	-142.44	1,163.61	-1,331.27	3,339.65	3,298.40	41.25	80.968		
4,800.00	4,068.53	3,873.84	3,844.75	47.92	15.18	-143.08	1,173.69	-1,336.77	3,401.48	3,359.22	42.26	80.482		
4,900.00	4,144.66	3,943.99	3,914.44	49.32	15.46	-143.53	1,180.71	-1,340.59	3,463.39	3,420.31	43.08	80.403		
5,000.00	4,220.78	4,005.71	3,975.72	50.71	15.71	-143.90	1,187.19	-1,344.10	3,525.67	3,481.84	43.83	80.447		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,148.73	4,117.97	52.11	16.28	-144.77	1,200.12	-1,351.07	3,587.28	3,542.16	45.12	79.500		
5,200.00	4,373.03	4,218.65	4,187.63	53.51	16.54	-145.20	1,205.35	-1,354.00	3,648.56	3,602.67	45.90	79.493		
5,300.00	4,449.16	4,274.86	4,243.58	54.90	16.76	-145.52	1,210.15	-1,356.55	3,710.31	3,663.73	46.58	79.650		
5,400.00	4,525.29	4,330.38	4,298.78	56.30	16.98	-145.83	1,215.39	-1,359.33	3,772.58	3,725.32	47.26	79.820		
5,500.00	4,601.41	4,388.60	4,356.65	57.70	17.22	-146.14	1,220.93	-1,362.54	3,835.37	3,787.41	47.96	79.970		
5,600.00	4,677.54	4,457.80	4,425.40	59.10	17.49	-146.49	1,227.75	-1,366.52	3,898.46	3,849.72	48.74	79.993		
5,700.00	4,753.66	4,521.67	4,488.82	60.49	17.75	-146.81	1,234.26	-1,370.30	3,961.80	3,912.33	49.47	80.084		
5,800.00	4,829.79	4,582.82	4,549.53	61.89	18.00	-147.10	1,240.49	-1,374.13	4,025.49	3,975.31	50.18	80.217		
5,900.00	4,905.92	4,648.46	4,614.67	63.29	18.27	-147.41	1,247.34	-1,378.41	4,089.47	4,038.55	50.93	80.300		
6,000.00	4,982.04	4,811.88	4,776.69	64.69	18.95	-148.10	1,266.59	-1,387.57	4,152.98	4,100.53	52.45	79.185		
6,100.00	5,058.17	4,899.49	4,863.42	66.09	19.32	-148.42	1,278.44	-1,391.18	4,215.36	4,161.96	53.40	78.945		
6,200.00	5,134.30	4,958.60	4,921.93	67.49	19.57	-148.64	1,286.44	-1,393.70	4,277.94	4,223.82	54.12	79.047		
6,300.00	5,210.42	5,018.00	4,980.66	68.89	19.82	-148.84	1,294.86	-1,396.59	4,341.02	4,286.17	54.85	79.149		
6,400.00	5,286.55	5,116.31	5,077.96	70.29	20.24	-149.18	1,308.00	-1,401.33	4,404.16	4,348.28	55.88	78.816		
6,500.00	5,362.67	5,201.19	5,162.21	71.69	20.58	-149.49	1,317.73	-1,405.02	4,466.97	4,410.20	56.78	78.678		
6,600.00	5,438.80	5,275.70	5,236.21	73.09	20.88	-149.77	1,325.83	-1,408.19	4,529.77	4,472.19	57.58	78.665		
6,700.00	5,514.93	5,355.72	5,315.66	74.49	21.21	-150.05	1,334.69	-1,411.57	4,592.61	4,534.17	58.43	78.594		
6,800.00	5,591.05	5,420.38	5,379.83	75.89	21.47	-150.27	1,342.08	-1,414.32	4,655.53	4,596.36	59.17	78.680		
6,900.00	5,667.18	5,476.86	5,435.83	77.29	21.71	-150.45	1,349.04	-1,416.92	4,718.77	4,658.92	59.85	78.849		
7,000.00	5,743.30	5,524.73	5,483.25	78.69	21.91	-150.59	1,355.12	-1,419.37	4,782.46	4,722.00	60.45	79.111		
7,100.00	5,819.43	5,592.60	5,550.46	80.09	22.19	-150.80	1,363.76	-1,423.20	4,846.56	4,785.34	61.22	79.166		
7,200.00	5,895.56	5,672.88	5,630.05	81.49	22.53	-151.04	1,373.29	-1,427.56	4,910.58	4,848.50	62.08	79.101		
7,300.00	5,971.68	5,731.00	5,687.74	82.90	22.76	-151.22	1,379.60	-1,430.78	4,974.75	4,912.00	62.75	79.281		
7,400.00	6,047.81	5,767.76	5,724.21	84.30	22.92	-151.34	1,383.59	-1,433.02	5,039.40	4,976.16	63.24	79.684		
7,500.00	6,123.94	5,820.00	5,775.95	85.70	23.14	-151.49	1,389.77	-1,436.78	5,104.79	5,040.93	63.86	79.932		
7,600.00	6,200.06	5,854.18	5,809.76	87.10	23.28	-151.58	1,394.01	-1,439.46	5,170.60	5,106.26	64.34	80.368		
7,700.00	6,276.19	5,975.90	5,930.23	88.50	23.80	-151.91	1,408.76	-1,448.56	5,236.43	5,170.88	65.55	79.886		
7,800.00	6,352.31	6,062.70	6,016.35	89.90	24.16	-152.16	1,418.03	-1,454.29	5,301.60	5,235.15	66.44	79.789		
7,900.00	6,428.44	6,119.51	6,072.72	91.31	24.39	-152.32	1,423.97	-1,458.08	5,366.90	5,299.81	67.09	79.995		
8,000.00	6,504.57	6,176.00	6,128.75	92.71	24.62	-152.48	1,429.91	-1,462.13	5,432.58	5,364.84	67.73	80.206		
8,100.00	6,580.69	6,220.20	6,172.56	94.11	24.81	-152.60	1,434.66	-1,465.50	5,498.60	5,430.33	68.27	80.539		
8,200.00	6,656.82	6,284.24	6,236.00	95.51	25.08	-152.76	1,441.76	-1,470.61	5,564.94	5,495.96	68.98	80.674		
8,300.00	6,732.95	6,425.42	6,376.00	96.91	25.66	-153.12	1,456.69	-1,481.01	5,630.91	5,560.58	70.33	80.066		
8,400.00	6,809.07	6,649.08	6,598.08	98.32	26.57	-153.68	1,480.11	-1,493.25	5,695.58	5,623.25	72.33	78.745		
8,500.00	6,885.20	6,719.03	6,667.68	99.72	26.84	-153.85	1,486.45	-1,496.09	5,759.19	5,686.13	73.07	78.822		
8,600.00	6,961.32	6,775.36	6,723.78	101.12	27.06	-154.00	1,491.09	-1,498.48	5,823.02	5,749.34	73.69	79.024		
8,700.00	7,037.45	6,833.17	6,781.33	102.52	27.28	-154.15	1,495.77	-1,501.12	5,887.14	5,812.82	74.32	79.218		
8,732.15	7,061.92	6,852.14	6,800.22	102.97	27.35	-154.20	1,497.30	-1,502.02	5,907.80	5,833.28	74.52	79.277		
8,750.00	7,075.57	6,862.69	6,810.72	103.22	27.40	-157.74	1,498.15	-1,502.53	5,919.31	5,844.68	74.63	79.311		
8,800.00	7,114.27	6,894.61	6,842.50	103.91	27.52	-167.99	1,500.73	-1,504.10	5,951.79	5,876.84	74.96	79.404		
8,850.00	7,153.47	6,944.11	6,891.81	104.58	27.71	-178.53	1,504.36	-1,506.47	5,984.35	5,908.96	75.39	79.381		
8,900.00	7,192.85	6,993.71	6,941.27	105.21	27.89	170.92	1,507.38	-1,508.71	6,016.68	5,940.89	75.79	79.385		
8,950.00	7,232.12	7,029.42	6,976.89	105.80	28.02	160.60	1,509.31	-1,510.29	6,048.60	5,972.54	76.06	79.523		
9,000.00	7,270.99	7,067.91	7,015.29	106.35	28.16	150.78	1,511.16	-1,511.97	6,079.91	6,003.58	76.33	79.654		
9,050.00	7,309.16	7,098.91	7,046.25	106.85	28.26	141.60	1,512.27	-1,513.31	6,110.39	6,033.88	76.51	79.864		
9,100.00	7,346.32	7,129.53	7,076.83	107.30	28.37	133.21	1,512.77	-1,514.62	6,139.88	6,063.21	76.67	80.086		
9,150.00	7,382.22	7,157.00	7,104.28	107.69	28.46	125.65	1,512.71	-1,515.79	6,168.17	6,091.39	76.78	80.333		
9,200.00	7,416.56	7,157.00	7,104.28	108.02	28.46	118.76	1,512.71	-1,515.79	6,195.17	6,118.46	76.71	80.762		
9,250.00	7,449.09	7,157.00	7,104.28	108.29	28.46	112.66	1,512.71	-1,515.79	6,220.76	6,144.14	76.63	81.181		
9,300.00	7,479.56	7,157.00	7,104.28	108.51	28.46	107.33	1,512.71	-1,515.79	6,244.78	6,168.23	76.54	81.584		
9,350.00	7,507.74	7,157.00	7,104.28	108.68	28.46	102.70	1,512.71	-1,515.79	6,267.05	6,190.59	76.46	81.963		
9,400.00	7,533.41	7,157.00	7,104.28	108.79	28.46	98.73	1,512.71	-1,515.79	6,287.42	6,211.04	76.39	82.310		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,556.39	7,193.34	7,140.54	108.86	28.56	95.66	1,511.32	-1,517.70	6,305.27	6,228.73	76.53	82.385		
9,500.00	7,576.48	7,197.96	7,145.14	108.88	28.57	92.89	1,511.01	-1,518.00	6,321.33	6,244.82	76.52	82.615		
9,550.00	7,593.55	7,202.12	7,149.27	108.86	28.58	90.62	1,510.70	-1,518.28	6,335.14	6,258.63	76.51	82.797		
9,600.00	7,607.46	7,205.76	7,152.89	108.80	28.59	88.82	1,510.40	-1,518.53	6,346.61	6,270.08	76.54	82.924		
9,650.00	7,618.11	7,208.85	7,155.96	108.71	28.60	87.46	1,510.14	-1,518.74	6,355.68	6,279.10	76.58	82.992		
9,700.00	7,625.41	7,211.35	7,158.45	108.59	28.61	86.53	1,509.91	-1,518.93	6,362.28	6,285.62	76.66	82.998		
9,750.00	7,629.30	7,213.22	7,160.31	108.45	28.61	86.00	1,509.74	-1,519.06	6,366.37	6,289.61	76.76	82.939		
9,781.81	7,630.00	7,246.00	7,192.74	108.35	28.70	86.15	1,505.84	-1,521.78	6,368.01	6,291.01	77.00	82.698		
9,800.00	7,630.00	7,246.00	7,192.74	108.29	28.70	86.15	1,505.84	-1,521.78	6,368.47	6,291.42	77.05	82.652		
9,900.00	7,630.00	7,246.00	7,192.74	107.97	28.70	86.15	1,505.84	-1,521.78	6,371.93	6,294.59	77.34	82.391		
10,000.00	7,630.00	7,246.00	7,192.74	107.67	28.70	86.15	1,505.84	-1,521.78	6,376.95	6,299.30	77.65	82.124		
10,100.00	7,630.00	7,246.00	7,192.74	107.38	28.70	86.15	1,505.84	-1,521.78	6,383.54	6,305.55	77.99	81.853		
10,200.00	7,630.00	7,246.00	7,192.74	107.10	28.70	86.15	1,505.84	-1,521.78	6,391.69	6,313.34	78.35	81.579		
10,300.00	7,630.00	8,315.00	7,913.84	106.84	29.30	92.63	828.99	-1,566.57	6,401.09	6,324.12	76.97	83.158		
10,400.00	7,630.00	8,440.34	7,926.06	106.59	29.64	92.74	704.33	-1,565.90	6,400.65	6,323.61	77.04	83.082		
10,500.00	7,630.00	8,649.45	7,928.74	106.35	30.61	92.77	495.28	-1,562.93	6,398.57	6,321.38	77.20	82.888		
10,600.00	7,630.00	8,671.00	7,928.59	106.13	30.73	92.77	473.74	-1,562.58	6,396.90	6,319.17	77.73	82.296		
10,700.00	7,630.00	8,710.12	7,928.13	105.92	30.98	92.76	434.63	-1,562.38	6,396.25	6,317.93	78.32	81.671		
10,701.41	7,630.00	8,710.47	7,928.12	105.92	30.98	92.76	434.27	-1,562.38	6,396.25	6,317.92	78.33	81.662		
10,800.00	7,630.00	8,760.00	7,927.22	105.72	31.29	92.75	384.76	-1,563.15	6,396.99	6,318.05	78.94	81.034		
10,900.00	7,630.00	8,760.00	7,927.22	105.54	31.29	92.75	384.76	-1,563.15	6,398.54	6,318.98	79.57	80.417		
11,000.00	7,630.00	8,794.65	7,926.71	105.37	31.54	92.75	350.13	-1,564.27	6,401.37	6,321.11	80.26	79.754		
11,100.00	7,630.00	8,849.00	7,926.88	105.21	31.92	92.75	295.84	-1,566.73	6,405.35	6,324.32	81.03	79.053		
11,200.00	7,630.00	9,198.48	7,940.12	105.06	34.98	92.86	-53.26	-1,572.81	6,405.62	6,322.39	83.24	76.956		
11,300.00	7,630.00	9,355.17	7,942.70	104.93	36.60	92.89	-209.93	-1,572.85	6,405.42	6,320.38	85.03	75.329		
11,400.00	7,630.00	9,478.12	7,944.93	104.82	37.95	92.91	-332.85	-1,571.99	6,404.46	6,317.68	86.78	73.801		
11,500.00	7,630.00	9,597.87	7,946.92	104.72	39.35	92.93	-452.58	-1,570.78	6,403.19	6,314.53	88.66	72.225		
11,600.00	7,630.00	11,600.00	7,947.93	104.63	63.97	92.94	-579.90	-1,569.07	6,401.54	6,287.88	113.66	56.320		
11,700.00	7,630.00	9,780.14	7,948.04	104.55	41.58	92.94	-634.83	-1,568.32	6,399.96	6,307.81	92.15	69.452		
11,800.00	7,630.00	9,829.00	7,948.24	104.50	42.20	92.94	-683.69	-1,568.27	6,399.39	6,305.87	93.53	68.424		
11,819.38	7,630.00	9,829.00	7,948.24	104.49	42.20	92.94	-683.69	-1,568.27	6,399.36	6,305.67	93.69	68.302		
11,900.00	7,630.00	9,884.78	7,948.75	104.45	42.91	92.94	-739.46	-1,568.61	6,399.59	6,304.57	95.02	67.350		
12,000.00	7,630.00	9,982.09	7,950.06	104.43	44.19	92.96	-836.77	-1,569.30	6,400.03	6,302.98	97.05	65.943		
12,100.00	7,630.00	10,110.68	7,950.55	104.42	45.91	92.96	-965.35	-1,569.96	6,400.23	6,300.66	99.57	64.281		
12,105.30	7,630.00	10,114.94	7,950.53	104.42	45.97	92.96	-969.61	-1,569.98	6,400.23	6,300.56	99.67	64.214		
12,200.00	7,630.00	10,186.00	7,949.64	104.42	46.95	92.95	-1,040.66	-1,570.36	6,400.37	6,298.91	101.46	63.085		
12,300.00	7,630.00	10,261.20	7,948.79	104.45	47.99	92.94	-1,115.86	-1,571.05	6,400.89	6,297.51	103.39	61.911		
12,400.00	7,630.00	10,379.57	7,948.79	104.49	49.66	92.94	-1,234.22	-1,572.25	6,401.58	6,295.59	105.99	60.399		
12,500.00	7,630.00	10,509.33	7,947.84	104.55	51.53	92.94	-1,363.98	-1,573.02	6,401.80	6,292.95	108.84	58.816		
12,600.00	7,630.00	10,625.46	7,947.25	104.63	53.23	92.93	-1,480.10	-1,573.29	6,401.66	6,290.09	111.57	57.376		
12,700.00	7,630.00	12,700.00	7,950.38	104.73	84.47	92.96	-1,653.43	-1,572.10	6,400.66	6,256.68	143.98	44.454		
12,800.00	7,630.00	10,878.36	7,951.93	104.85	57.02	92.97	-1,732.93	-1,571.11	6,399.22	6,281.60	117.62	54.406		
12,900.00	7,630.00	11,041.43	7,951.56	104.99	59.52	92.97	-1,895.99	-1,569.51	6,398.05	6,276.68	121.37	52.714		
13,000.00	7,630.00	11,122.03	7,950.80	105.15	60.76	92.97	-1,976.57	-1,568.08	6,395.93	6,272.18	123.75	51.683		
13,100.00	7,630.00	11,285.16	7,953.66	105.34	63.31	92.99	-2,139.63	-1,564.71	6,393.59	6,265.92	127.67	50.078		
13,200.00	7,630.00	11,344.00	7,954.85	105.56	64.24	93.00	-2,198.45	-1,563.82	6,391.57	6,261.84	129.73	49.267		
13,300.00	7,630.00	11,370.45	7,955.24	105.80	64.65	93.01	-2,224.90	-1,563.66	6,390.22	6,259.03	131.20	48.707		
13,400.00	7,630.00	11,544.41	7,956.82	106.06	67.41	93.02	-2,398.83	-1,561.18	6,388.37	6,252.91	135.45	47.163		
13,500.00	7,630.00	11,611.00	7,958.33	106.36	68.48	93.04	-2,465.40	-1,560.29	6,386.72	6,249.01	137.71	46.377		
13,600.00	7,630.00	11,734.41	7,960.25	106.68	70.46	93.06	-2,588.77	-1,558.87	6,385.40	6,244.30	141.09	45.256		
13,700.00	7,630.00	11,872.04	7,958.66	107.03	72.68	93.04	-2,726.36	-1,556.06	6,382.89	6,238.10	144.79	44.085		
13,800.00	7,630.00	11,929.39	7,956.77	107.42	73.62	93.03	-2,783.67	-1,555.07	6,380.67	6,233.75	146.91	43.432		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,900.00	7,630.00	11,968.00	7,955.32	107.83	74.24	93.01	-2,822.25	-1,554.65	6,379.19	6,230.52	148.66	42.910		
13,990.26	7,630.00	12,000.40	7,954.10	108.24	74.77	93.00	-2,854.63	-1,554.60	6,378.71	6,228.51	150.19	42.470		
14,000.00	7,630.00	12,003.05	7,954.00	108.28	74.81	93.00	-2,857.28	-1,554.62	6,378.71	6,228.37	150.34	42.428		
14,100.00	7,630.00	12,057.00	7,952.25	108.77	75.69	92.99	-2,911.19	-1,555.56	6,379.60	6,227.20	152.40	41.862		
14,200.00	7,630.00	12,057.00	7,952.25	109.29	75.69	92.99	-2,911.19	-1,555.56	6,381.22	6,227.87	153.34	41.614		
14,300.00	7,630.00	12,127.92	7,950.13	109.84	76.84	92.97	-2,982.05	-1,557.77	6,383.83	6,228.09	155.74	40.990		
14,400.00	7,630.00	12,188.47	7,948.51	110.43	77.82	92.95	-3,042.53	-1,559.95	6,386.98	6,229.05	157.93	40.442		
14,500.00	7,630.00	12,362.75	7,946.05	111.06	80.67	92.93	-3,216.69	-1,566.00	6,390.16	6,227.62	162.54	39.315		
14,600.00	7,630.00	14,600.00	7,950.71	111.72	117.73	92.97	-3,443.24	-1,569.69	6,391.65	6,189.98	201.66	31.694		
14,700.00	7,630.00	12,642.08	7,953.19	112.42	85.28	92.99	-3,495.84	-1,569.89	6,392.14	6,221.69	170.45	37.502		
14,800.00	7,630.00	12,680.00	7,955.27	113.16	85.91	93.01	-3,533.70	-1,570.53	6,393.73	6,221.50	172.23	37.124		
14,900.00	7,630.00	12,728.65	7,957.53	113.94	86.71	93.03	-3,582.28	-1,571.81	6,396.21	6,221.99	174.23	36.712		
15,000.00	7,630.00	12,805.83	7,958.98	114.75	87.99	93.04	-3,659.39	-1,574.46	6,399.37	6,222.51	176.85	36.184		
15,100.00	7,630.00	12,921.72	7,958.64	115.60	89.91	93.03	-3,775.22	-1,578.36	6,402.36	6,222.02	180.35	35.500		
15,200.00	7,630.00	13,068.28	7,956.50	116.48	92.35	93.01	-3,921.69	-1,582.76	6,404.95	6,220.41	184.54	34.708		
15,300.00	7,630.00	13,260.71	7,952.55	117.40	95.57	92.98	-4,114.03	-1,586.27	6,406.21	6,216.42	189.79	33.755		
15,400.00	7,630.00	13,320.80	7,953.06	118.35	96.58	92.98	-4,174.11	-1,587.10	6,407.30	6,215.21	192.09	33.355		
15,500.00	7,630.00	13,603.59	7,956.47	119.34	101.35	93.01	-4,456.86	-1,588.45	6,407.90	6,208.45	199.45	32.128		
15,600.00	7,630.00	13,710.05	7,960.42	120.35	103.16	93.05	-4,563.23	-1,586.98	6,406.39	6,203.53	202.86	31.580		
15,700.00	7,630.00	15,700.00	7,966.70	121.40	137.15	93.11	-4,788.40	-1,581.71	6,403.85	6,164.72	239.14	26.779		
15,800.00	7,630.00	13,974.97	7,967.18	122.48	107.68	93.11	-4,827.95	-1,580.35	6,400.56	6,189.67	210.89	30.350		
15,900.00	7,630.00	14,017.00	7,968.03	123.58	108.39	93.12	-4,869.97	-1,579.79	6,398.68	6,185.82	212.86	30.060		
16,000.00	7,630.00	14,033.30	7,968.41	124.71	108.67	93.12	-4,886.27	-1,579.75	6,397.77	6,183.56	214.22	29.866		
16,046.57	7,630.00	14,057.91	7,968.99	125.25	109.09	93.13	-4,910.87	-1,579.75	6,397.69	6,182.46	215.24	29.724		
16,100.00	7,630.00	14,086.14	7,969.66	125.87	109.57	93.13	-4,939.09	-1,579.87	6,397.80	6,181.39	216.41	29.564		
16,200.00	7,630.00	14,153.82	7,971.22	127.05	110.72	93.15	-5,006.75	-1,580.49	6,398.49	6,179.56	218.93	29.226		
16,300.00	7,630.00	14,239.33	7,972.69	128.26	112.18	93.16	-5,092.24	-1,581.61	6,399.54	6,177.66	221.88	28.842		
16,400.00	7,630.00	14,319.98	7,973.07	129.48	113.55	93.16	-5,172.88	-1,582.83	6,400.76	6,176.05	224.72	28.484		
16,500.00	7,630.00	14,498.75	7,977.04	130.73	116.60	93.20	-5,351.57	-1,585.10	6,402.01	6,172.11	229.89	27.848		
16,600.00	7,630.00	16,600.00	7,980.31	132.00	152.62	93.23	-5,491.74	-1,585.09	6,401.75	6,133.99	267.76	23.908		
16,675.00	7,630.00	14,670.03	7,980.65	132.96	119.53	93.23	-5,522.81	-1,585.07	6,401.60	6,165.99	235.62	27.170		
16,700.00	7,630.00	14,677.01	7,980.75	133.29	119.65	93.23	-5,529.79	-1,585.11	6,401.70	6,165.69	236.02	27.124		
16,800.00	7,630.00	14,730.00	7,981.85	134.59	120.56	93.24	-5,582.76	-1,586.08	6,402.98	6,164.77	238.21	26.879		
16,900.00	7,630.00	14,997.00	7,989.16	135.91	125.14	93.30	-5,849.58	-1,588.48	6,404.94	6,159.41	245.53	26.086		
17,000.00	7,630.00	15,058.13	7,989.74	137.25	126.19	93.31	-5,910.70	-1,587.86	6,403.76	6,155.80	247.96	25.826		
17,100.00	7,630.00	15,227.85	7,992.48	138.61	129.11	93.34	-6,080.38	-1,586.75	6,403.12	6,150.15	252.97	25.312		
17,200.00	7,630.00	15,264.00	7,993.18	139.97	129.74	93.34	-6,116.52	-1,586.10	6,401.54	6,146.73	254.81	25.123		
17,298.67	7,630.00	15,310.44	7,993.79	141.34	130.54	93.35	-6,162.96	-1,585.69	6,400.80	6,143.93	256.87	24.918		
17,300.00	7,630.00	15,310.76	7,993.79	141.36	130.54	93.35	-6,163.28	-1,585.69	6,400.80	6,143.91	256.89	24.916		
17,400.00	7,630.00	15,620.00	7,998.68	142.75	135.89	93.39	-6,472.38	-1,582.19	6,399.94	6,134.70	265.24	24.129		
17,500.00	7,630.00	15,699.86	8,000.32	144.16	137.27	93.41	-6,552.19	-1,579.86	6,396.82	6,128.67	268.15	23.855		
17,600.00	7,630.00	15,794.13	8,003.05	145.58	138.91	93.44	-6,646.38	-1,577.30	6,393.95	6,122.54	271.41	23.558		
17,700.00	7,630.00	15,866.66	8,006.36	147.01	140.17	93.47	-6,718.80	-1,575.43	6,391.30	6,117.15	274.15	23.313		
17,800.00	7,630.00	16,049.80	8,013.10	148.45	143.35	93.53	-6,901.73	-1,569.92	6,388.14	6,108.63	279.52	22.854		
17,900.00	7,630.00	16,099.06	8,014.36	149.91	144.21	93.54	-6,950.96	-1,568.29	6,384.75	6,103.02	281.73	22.663		
18,000.00	7,630.00	16,155.00	8,016.36	151.37	145.18	93.56	-7,006.84	-1,567.12	6,382.38	6,098.30	284.08	22.467		
18,100.00	7,630.00	16,182.07	8,017.48	152.84	145.65	93.57	-7,033.88	-1,566.79	6,380.81	6,095.10	285.72	22.333		
18,200.00	7,630.00	16,244.00	8,019.88	154.32	146.72	93.59	-7,095.77	-1,566.46	6,380.13	6,091.95	288.18	22.139		
18,300.00	7,630.00	16,408.82	8,024.87	155.81	149.59	93.64	-7,260.50	-1,564.78	6,378.85	6,085.68	293.17	21.758		
18,400.00	7,630.00	16,503.96	8,025.97	157.31	151.24	93.65	-7,355.63	-1,563.63	6,377.38	6,080.92	296.46	21.512		
18,500.00	7,630.00	16,585.20	8,025.77	158.81	152.65	93.65	-7,436.86	-1,562.86	6,376.09	6,076.68	299.41	21.296		
18,600.00	7,630.00	16,632.61	8,025.33	160.32	153.47	93.65	-7,484.27	-1,562.65	6,375.32	6,073.80	301.52	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,632.72	7,630.00	16,645.50	8,025.31	160.82	153.70	93.65	-7,497.16	-1,562.68	6,375.26	6,073.13	302.14	21.101	
18,700.00	7,630.00	16,690.00	8,025.59	161.84	154.47	93.65	-7,541.66	-1,563.05	6,375.54	6,071.68	303.86	20.982	
18,800.00	7,630.00	16,719.10	8,025.95	163.37	154.97	93.65	-7,570.75	-1,563.49	6,376.56	6,071.09	305.47	20.875	
18,900.00	7,630.00	18,900.00	8,027.40	164.90	192.74	93.66	-7,674.76	-1,565.50	6,378.24	6,033.35	344.89	18.493 SF	
19,000.00	7,630.00	16,969.84	8,031.42	166.43	159.32	93.70	-7,821.39	-1,567.05	6,379.07	6,065.50	313.57	20.343	
19,100.00	7,630.00	17,131.39	8,035.83	167.98	162.13	93.74	-7,982.88	-1,567.41	6,379.06	6,060.52	318.53	20.026	
19,200.00	7,630.00	17,224.30	8,036.77	169.53	163.74	93.75	-8,075.78	-1,567.44	6,378.82	6,057.04	321.78	19.824	
19,227.66	7,630.00	17,240.53	8,036.87	169.96	164.02	93.75	-8,092.01	-1,567.47	6,378.79	6,056.36	322.43	19.783	
19,300.00	7,630.00	17,283.27	8,036.91	171.08	164.77	93.75	-8,134.75	-1,567.71	6,378.96	6,054.80	324.16	19.678	
19,400.00	7,630.00	17,423.16	8,034.99	172.64	167.20	93.73	-8,274.62	-1,568.79	6,379.38	6,050.80	328.58	19.415	
19,500.00	7,630.00	17,540.24	8,031.57	174.21	169.23	93.70	-8,391.65	-1,568.99	6,379.01	6,046.58	332.43	19.189	
19,518.56	7,630.00	17,546.00	8,031.39	174.50	169.33	93.70	-8,397.41	-1,568.99	6,378.95	6,046.20	332.75	19.171	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-55.16	787.25	-1,130.89	1,377.97					
100.00	100.00	97.19	97.19	0.13	0.15	-55.16	787.06	-1,130.72	1,377.70	1,377.41	0.28	4,909.371		
200.00	200.00	197.68	197.67	0.49	0.42	-55.16	786.58	-1,130.26	1,377.05	1,376.14	0.91	1,513.601		
300.00	300.00	293.25	293.25	0.85	0.76	-55.17	786.30	-1,130.00	1,376.65	1,375.04	1.61	854.691		
400.00	400.00	393.38	393.37	1.21	1.12	-55.17	786.18	-1,129.84	1,376.45	1,374.13	2.33	591.609		
414.25	414.25	407.88	407.87	1.26	1.17	-121.89	786.17	-1,129.80	1,376.44	1,374.01	2.43	566.714	CC, ES	
500.00	499.98	495.08	495.08	1.56	1.48	-121.94	786.10	-1,129.51	1,377.07	1,374.03	3.04	452.528		
600.00	599.84	569.21	569.20	1.92	1.74	-122.01	786.39	-1,129.54	1,380.18	1,376.53	3.65	377.619		
700.00	699.45	635.48	635.44	2.29	1.96	-122.05	788.16	-1,130.50	1,387.52	1,383.28	4.24	327.120		
800.00	798.70	699.81	699.63	2.67	2.18	-122.02	792.19	-1,131.71	1,399.13	1,394.30	4.83	289.562		
900.00	897.47	763.00	762.50	3.07	2.40	-121.93	798.22	-1,133.52	1,415.17	1,409.74	5.43	260.492		
1,000.00	995.62	844.10	842.98	3.50	2.70	-121.87	807.79	-1,136.44	1,434.93	1,428.81	6.12	234.466		
1,100.00	1,093.06	935.97	934.02	3.96	3.04	-121.87	819.61	-1,139.75	1,457.16	1,450.28	6.88	211.936		
1,200.00	1,189.64	1,024.72	1,021.91	4.46	3.39	-121.90	831.51	-1,143.07	1,481.67	1,474.02	7.65	193.667		
1,300.00	1,285.27	1,110.16	1,106.41	5.00	3.73	-121.94	843.69	-1,146.44	1,508.69	1,500.24	8.45	178.632		
1,400.00	1,379.82	1,204.86	1,200.05	5.60	4.11	-122.09	857.30	-1,150.44	1,537.94	1,528.63	9.31	165.119		
1,500.00	1,473.17	1,303.63	1,297.84	6.25	4.51	-122.38	870.33	-1,155.00	1,568.93	1,558.69	10.23	153.300		
1,600.00	1,565.21	1,394.26	1,387.61	6.95	4.88	-122.64	882.14	-1,159.08	1,601.82	1,590.66	11.16	143.589		
1,700.00	1,655.84	1,476.89	1,469.20	7.72	5.23	-122.77	894.84	-1,161.97	1,637.10	1,625.02	12.08	135.482		
1,800.00	1,744.94	1,562.06	1,553.11	8.55	5.59	-122.91	909.17	-1,164.85	1,675.02	1,661.95	13.07	128.189		
1,900.00	1,832.39	1,671.12	1,660.58	9.45	6.07	-123.30	927.58	-1,167.18	1,714.02	1,699.81	14.21	120.602		
2,000.00	1,918.11	1,743.63	1,732.03	10.41	6.38	-123.33	939.81	-1,168.84	1,755.40	1,740.19	15.21	115.433		
2,100.00	2,001.97	1,809.83	1,797.21	11.45	6.67	-123.28	951.13	-1,171.00	1,799.79	1,783.59	16.20	111.122		
2,200.00	2,083.88	1,963.54	1,948.90	12.56	7.33	-124.36	975.67	-1,174.48	1,845.27	1,827.58	17.69	104.338		
2,300.00	2,163.74	2,058.35	2,042.96	13.74	7.72	-124.81	987.53	-1,175.50	1,890.96	1,872.09	18.87	100.202		
2,400.00	2,241.45	2,130.96	2,115.04	14.99	8.02	-124.96	996.25	-1,176.44	1,939.13	1,919.17	19.96	97.145		
2,421.22	2,257.65	2,145.45	2,129.43	15.26	8.07	-124.98	997.98	-1,176.68	1,949.72	1,929.53	20.19	96.565		
2,500.00	2,317.63	2,198.96	2,182.53	16.29	8.29	-125.77	1,004.38	-1,177.69	1,989.61	1,968.58	21.03	94.601		
2,600.00	2,393.75	2,268.10	2,251.14	17.62	8.57	-126.76	1,012.81	-1,179.25	2,041.20	2,019.11	22.09	92.392		
2,700.00	2,469.88	2,347.25	2,329.70	18.95	8.89	-127.85	1,022.30	-1,181.20	2,093.54	2,070.34	23.19	90.261		
2,800.00	2,546.01	2,418.56	2,400.52	20.30	9.18	-128.81	1,030.40	-1,183.17	2,146.55	2,122.32	24.23	88.584		
2,900.00	2,622.13	2,496.33	2,477.80	21.65	9.49	-129.82	1,038.88	-1,185.54	2,200.25	2,174.96	25.29	87.010		
3,000.00	2,698.26	2,574.64	2,555.60	23.01	9.81	-130.81	1,047.39	-1,187.87	2,254.44	2,228.11	26.33	85.618		
3,100.00	2,774.38	2,645.83	2,626.37	24.37	10.09	-131.68	1,054.78	-1,190.16	2,309.23	2,281.92	27.32	84.540		
3,200.00	2,850.51	2,766.86	2,746.77	25.74	10.56	-133.09	1,066.65	-1,193.32	2,364.00	2,335.43	28.57	82.742		
3,300.00	2,926.64	2,902.19	2,881.32	27.11	11.10	-134.53	1,081.16	-1,193.24	2,417.28	2,387.36	29.91	80.809		
3,400.00	3,002.76	2,964.06	2,942.67	28.49	11.35	-135.11	1,089.11	-1,192.26	2,470.29	2,439.45	30.84	80.104		
3,500.00	3,078.89	3,017.73	2,995.85	29.87	11.57	-135.60	1,096.29	-1,191.99	2,524.50	2,492.80	31.70	79.638		
3,600.00	3,155.02	3,083.25	3,060.76	31.25	11.84	-136.19	1,105.16	-1,192.11	2,579.59	2,546.97	32.62	79.075		
3,700.00	3,231.14	3,160.40	3,137.23	32.63	12.16	-136.85	1,115.36	-1,192.55	2,635.21	2,601.61	33.61	78.415		
3,800.00	3,307.27	3,245.26	3,221.34	34.01	12.51	-137.56	1,126.64	-1,193.01	2,691.11	2,656.48	34.63	77.707		
3,900.00	3,383.39	3,340.52	3,315.86	35.40	12.89	-138.34	1,138.51	-1,193.07	2,746.77	2,711.06	35.71	76.921		
4,000.00	3,459.52	3,411.03	3,385.92	36.79	13.18	-138.91	1,146.54	-1,193.11	2,802.54	2,765.93	36.61	76.557		
4,100.00	3,535.65	3,461.39	3,435.95	38.18	13.38	-139.31	1,152.25	-1,193.54	2,859.17	2,821.81	37.36	76.528		
4,200.00	3,611.77	3,506.55	3,480.78	39.57	13.56	-139.65	1,157.59	-1,194.34	2,916.82	2,878.75	38.07	76.618		
4,300.00	3,687.90	3,548.08	3,521.92	40.96	13.74	-139.95	1,163.15	-1,195.49	2,975.62	2,936.87	38.74	76.801		
4,400.00	3,764.02	3,613.46	3,586.55	42.35	14.01	-140.39	1,172.74	-1,197.88	3,035.39	2,995.80	39.59	76.671		
4,500.00	3,840.15	3,719.35	3,691.47	43.74	14.46	-141.11	1,186.53	-1,201.46	3,095.00	3,054.29	40.71	76.021		
4,600.00	3,916.28	3,806.62	3,778.17	45.13	14.81	-141.72	1,196.19	-1,203.93	3,154.16	3,112.49	41.67	75.691		
4,700.00	3,992.40	3,890.05	3,861.01	46.53	15.15	-142.27	1,205.79	-1,206.14	3,213.42	3,170.82	42.61	75.423		
4,800.00	4,068.53	3,971.75	3,941.98	47.92	15.48	-142.76	1,216.54	-1,207.95	3,272.65	3,229.11	43.54	75.167		
4,900.00	4,144.66	4,050.55	4,020.16	49.32	15.81	-143.23	1,226.27	-1,209.74	3,332.01	3,287.58	44.44	74.983		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	4,131.12	4,100.32	50.71	16.12	-143.74	1,234.17	-1,211.69	3,391.45	3,346.14	45.32	74.838		
5,100.00	4,296.91	4,211.23	4,179.99	52.11	16.44	-144.22	1,242.36	-1,213.53	3,450.98	3,404.79	46.19	74.710		
5,200.00	4,373.03	4,291.09	4,259.27	53.51	16.76	-144.66	1,251.71	-1,215.19	3,510.59	3,463.52	47.08	74.569		
5,300.00	4,449.16	4,353.03	4,320.79	54.90	17.01	-144.99	1,258.82	-1,216.62	3,570.49	3,522.67	47.83	74.653		
5,400.00	4,525.29	4,419.15	4,386.48	56.30	17.28	-145.34	1,266.10	-1,218.40	3,630.79	3,582.19	48.60	74.703		
5,500.00	4,601.41	4,487.10	4,453.84	57.70	17.56	-145.67	1,274.89	-1,220.32	3,691.41	3,642.01	49.40	74.723		
5,600.00	4,677.54	4,579.65	4,545.54	59.10	17.95	-146.10	1,287.07	-1,222.86	3,752.08	3,701.69	50.39	74.458		
5,700.00	4,753.66	4,673.73	4,638.97	60.49	18.33	-146.55	1,297.93	-1,225.10	3,812.51	3,761.14	51.37	74.218		
5,800.00	4,829.79	4,733.41	4,698.16	61.89	18.58	-146.82	1,305.38	-1,226.51	3,873.05	3,820.95	52.10	74.344		
5,900.00	4,905.92	4,809.44	4,773.36	63.29	18.90	-147.12	1,316.38	-1,228.48	3,933.92	3,880.95	52.97	74.273		
6,000.00	4,982.04	4,889.76	4,852.88	64.69	19.23	-147.44	1,327.51	-1,230.46	3,994.75	3,940.89	53.86	74.165		
6,100.00	5,058.17	4,964.02	4,926.52	66.09	19.54	-147.74	1,336.90	-1,232.35	4,055.69	4,001.00	54.70	74.150		
6,200.00	5,134.30	5,040.60	5,002.54	67.49	19.85	-148.06	1,345.90	-1,234.38	4,116.77	4,061.23	55.53	74.133		
6,300.00	5,210.42	5,126.74	5,088.18	68.89	20.20	-148.42	1,354.99	-1,236.58	4,177.83	4,121.40	56.42	74.043		
6,400.00	5,286.55	5,205.11	5,166.08	70.29	20.51	-148.74	1,363.29	-1,238.49	4,238.89	4,181.63	57.25	74.035		
6,500.00	5,362.67	5,275.81	5,236.30	71.69	20.79	-149.01	1,371.40	-1,240.23	4,300.06	4,242.02	58.04	74.091		
6,600.00	5,438.80	5,364.30	5,324.12	73.09	21.15	-149.33	1,382.00	-1,242.40	4,361.30	4,302.34	58.96	73.967		
6,700.00	5,514.93	5,495.44	5,454.18	74.49	21.69	-149.78	1,398.61	-1,244.50	4,421.93	4,361.69	60.24	73.409		
6,800.00	5,591.05	5,574.64	5,532.73	75.89	22.02	-150.03	1,408.70	-1,245.32	4,482.20	4,421.10	61.10	73.360		
6,900.00	5,667.18	5,658.66	5,616.25	77.29	22.35	-150.33	1,417.76	-1,246.13	4,542.47	4,480.50	61.97	73.300		
7,000.00	5,743.30	5,709.57	5,666.87	78.69	22.56	-150.50	1,423.18	-1,246.77	4,603.01	4,540.43	62.59	73.546		
7,100.00	5,819.43	5,779.31	5,736.13	80.09	22.84	-150.72	1,431.25	-1,247.93	4,663.95	4,600.60	63.35	73.620		
7,200.00	5,895.56	5,849.10	5,805.51	81.49	23.11	-150.95	1,438.76	-1,249.06	4,724.92	4,660.82	64.11	73.702		
7,300.00	5,971.68	5,895.41	5,851.58	82.90	23.30	-151.11	1,443.41	-1,250.04	4,786.35	4,721.68	64.67	74.008		
7,400.00	6,047.81	5,982.91	5,938.56	84.30	23.65	-151.38	1,452.56	-1,252.25	4,848.16	4,782.60	65.56	73.946		
7,500.00	6,123.94	6,083.81	6,038.64	85.70	24.06	-151.66	1,465.26	-1,254.27	4,909.55	4,842.96	66.59	73.727		
7,600.00	6,200.06	6,142.59	6,096.97	87.10	24.30	-151.83	1,472.44	-1,255.39	4,970.96	4,903.69	67.27	73.897		
7,700.00	6,276.19	6,203.06	6,157.08	88.50	24.54	-152.00	1,478.91	-1,256.83	5,032.76	4,964.82	67.95	74.069		
7,800.00	6,352.31	6,290.64	6,244.13	89.90	24.89	-152.26	1,488.25	-1,258.87	5,094.59	5,025.76	68.84	74.009		
7,900.00	6,428.44	6,363.68	6,316.61	91.31	25.19	-152.45	1,497.10	-1,260.57	5,156.45	5,086.82	69.63	74.057		
8,000.00	6,504.57	6,417.22	6,369.68	92.71	25.41	-152.58	1,504.00	-1,261.91	5,218.54	5,148.28	70.27	74.269		
8,100.00	6,580.69	6,467.05	6,419.09	94.11	25.62	-152.70	1,510.29	-1,263.51	5,281.03	5,210.17	70.87	74.522		
8,200.00	6,656.82	6,509.89	6,461.60	95.51	25.79	-152.80	1,515.39	-1,265.08	5,344.02	5,272.62	71.40	74.848		
8,300.00	6,732.95	6,560.93	6,512.29	96.91	25.99	-152.94	1,520.97	-1,267.25	5,407.50	5,335.51	71.99	75.116		
8,400.00	6,809.07	6,635.63	6,586.60	98.32	26.29	-153.14	1,527.77	-1,270.48	5,471.16	5,398.41	72.75	75.203		
8,500.00	6,885.20	6,698.76	6,649.50	99.72	26.52	-153.33	1,532.48	-1,273.23	5,534.96	5,461.56	73.40	75.408		
8,600.00	6,961.32	6,779.36	6,729.87	101.12	26.82	-153.58	1,537.40	-1,276.78	5,598.89	5,524.73	74.16	75.493		
8,700.00	7,037.45	6,855.65	6,806.01	102.52	27.08	-153.82	1,540.96	-1,279.96	5,662.77	5,587.89	74.88	75.628		
8,732.15	7,061.92	6,873.15	6,913.13	102.97	32.64	-154.21	1,541.07	-1,283.22	5,682.99	5,602.19	80.80	70.335		
8,750.00	7,075.57	6,875.00	6,926.41	103.22	32.69	-157.72	1,540.76	-1,283.52	5,694.24	5,613.32	80.92	70.370		
8,800.00	7,114.27	6,987.00	6,937.19	103.91	27.49	-167.81	1,540.51	-1,283.77	5,726.02	5,650.17	75.85	75.491		
8,850.00	7,153.47	6,987.00	6,937.19	104.58	27.49	-178.27	1,540.51	-1,283.77	5,758.17	5,682.27	75.90	75.864		
8,900.00	7,192.85	7,025.84	6,975.78	105.21	27.58	171.13	1,536.24	-1,284.37	5,789.79	5,713.70	76.09	76.087		
8,950.00	7,232.12	7,033.67	6,983.52	105.80	27.59	160.73	1,535.12	-1,284.60	5,821.64	5,745.51	76.13	76.467		
9,000.00	7,270.99	7,041.49	6,991.25	106.35	27.61	150.75	1,533.92	-1,284.86	5,853.08	5,776.93	76.15	76.862		
9,050.00	7,309.16	7,076.00	7,025.14	106.85	27.68	141.47	1,527.62	-1,286.44	5,884.16	5,807.92	76.24	77.176		
9,100.00	7,346.32	7,076.00	7,025.14	107.30	27.68	132.87	1,527.62	-1,286.44	5,913.93	5,837.74	76.20	77.615		
9,150.00	7,382.22	9,150.00	7,058.41	107.69	31.24	125.22	1,519.31	-1,287.75	5,942.57	5,863.09	79.49	74.762		
9,200.00	7,416.56	9,200.00	7,095.47	108.02	31.35	118.49	1,510.06	-1,289.20	5,969.74	5,890.21	79.54	75.057		
9,250.00	7,449.09	7,199.51	7,144.35	108.29	27.87	112.68	1,495.88	-1,290.73	5,994.98	5,918.70	76.28	78.595		
9,300.00	7,479.56	7,210.91	7,155.12	108.51	27.88	107.44	1,492.17	-1,291.10	6,018.68	5,942.46	76.22	78.962		
9,350.00	7,507.74	7,222.14	7,165.68	108.68	27.89	102.92	1,488.38	-1,291.51	6,040.58	5,964.41	76.17	79.303		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,255.00	7,196.25	108.79	27.93	99.19	1,476.39	-1,292.93	6,060.66	5,984.52	76.15	79.593		
9,450.00	7,556.39	7,255.00	7,196.25	108.86	27.93	95.86	1,476.39	-1,292.93	6,078.45	6,002.34	76.11	79.868		
9,500.00	7,576.48	7,255.00	7,196.25	108.88	27.93	93.08	1,476.39	-1,292.93	6,094.11	6,018.03	76.08	80.097		
9,550.00	7,593.55	7,255.00	7,196.25	108.86	27.93	90.80	1,476.39	-1,292.93	6,107.56	6,031.48	76.08	80.274		
9,600.00	7,607.46	7,255.00	7,196.25	108.80	27.93	89.00	1,476.39	-1,292.93	6,118.70	6,042.59	76.11	80.393		
9,650.00	7,618.11	7,255.00	7,196.25	108.71	27.93	87.64	1,476.39	-1,292.93	6,127.46	6,051.29	76.17	80.449		
9,700.00	7,625.41	7,255.00	7,196.25	108.59	27.93	86.70	1,476.39	-1,292.93	6,133.78	6,057.53	76.25	80.440		
9,750.00	7,629.30	7,255.00	7,196.25	108.45	27.93	86.17	1,476.39	-1,292.93	6,137.63	6,061.26	76.37	80.363		
9,781.81	7,630.00	7,255.00	7,196.25	108.35	27.93	86.04	1,476.39	-1,292.93	6,138.78	6,062.31	76.47	80.278		
9,800.00	7,630.00	7,255.00	7,196.25	108.29	27.93	86.04	1,476.39	-1,292.93	6,139.17	6,062.64	76.53	80.222		
9,900.00	7,630.00	7,294.23	7,232.21	107.97	27.97	86.38	1,460.89	-1,295.34	6,141.67	6,064.78	76.89	79.878		
10,000.00	7,630.00	8,022.67	7,656.57	107.67	28.31	90.34	914.05	-1,312.47	6,144.61	6,070.12	74.49	82.493		
10,100.00	7,630.00	8,057.00	7,660.81	107.38	28.37	90.38	880.00	-1,311.64	6,141.67	6,066.95	74.72	82.198		
10,200.00	7,630.00	8,182.55	7,673.31	107.10	28.72	90.50	755.13	-1,308.34	6,138.73	6,064.09	74.64	82.244		
10,300.00	7,630.00	8,235.00	7,675.07	106.84	28.90	90.51	702.73	-1,307.24	6,136.25	6,061.32	74.93	81.892		
10,400.00	7,630.00	8,298.87	7,675.29	106.59	29.16	90.52	638.87	-1,306.34	6,134.48	6,059.21	75.27	81.505		
10,500.00	7,630.00	8,379.34	7,675.35	106.35	29.55	90.52	558.40	-1,305.50	6,133.08	6,057.43	75.65	81.069		
10,600.00	7,630.00	8,472.29	7,675.70	106.13	30.07	90.52	465.46	-1,304.74	6,131.93	6,055.77	76.15	80.520		
10,700.00	7,630.00	10,700.00	7,676.23	105.92	46.84	90.53	252.38	-1,300.61	6,129.42	6,037.37	92.05	66.590		
10,800.00	7,630.00	8,740.52	7,675.97	105.72	32.02	90.52	197.28	-1,299.29	6,126.73	6,048.92	77.81	78.736		
10,900.00	7,630.00	8,769.00	7,675.72	105.54	32.25	90.52	168.81	-1,298.82	6,124.97	6,046.42	78.55	77.972		
11,000.00	7,630.00	8,828.28	7,675.71	105.37	32.78	90.52	109.54	-1,298.38	6,124.03	6,044.56	79.47	77.063		
11,100.00	7,630.00	11,100.00	7,677.30	105.21	54.42	90.54	18.13	-1,298.48	6,123.81	6,022.51	101.30	60.453		
11,200.00	7,630.00	9,142.28	7,679.03	105.06	35.92	90.55	-204.42	-1,295.79	6,121.95	6,039.17	82.78	73.952		
11,300.00	7,630.00	9,215.00	7,679.41	104.93	36.73	90.56	-277.13	-1,294.52	6,119.87	6,035.77	84.10	72.768		
11,400.00	7,630.00	9,271.58	7,679.93	104.82	37.38	90.56	-333.70	-1,293.85	6,118.38	6,033.03	85.35	71.685		
11,500.00	7,630.00	9,355.06	7,680.40	104.72	38.37	90.57	-417.18	-1,293.45	6,117.54	6,030.64	86.90	70.401		
11,600.00	7,630.00	9,422.36	7,680.58	104.63	39.18	90.57	-484.48	-1,293.14	6,116.81	6,028.46	88.35	69.234		
11,633.02	7,630.00	9,436.22	7,680.71	104.60	39.35	90.57	-498.34	-1,293.16	6,116.76	6,028.00	88.76	68.912		
11,700.00	7,630.00	9,482.00	7,681.49	104.55	39.92	90.58	-544.11	-1,293.54	6,117.03	6,027.26	89.77	68.138		
11,800.00	7,630.00	9,546.32	7,683.19	104.50	40.73	90.59	-608.40	-1,294.37	6,117.89	6,026.59	91.30	67.006		
11,900.00	7,630.00	9,648.69	7,686.60	104.45	42.05	90.62	-710.70	-1,295.60	6,118.79	6,025.46	93.33	65.561		
12,000.00	7,630.00	9,779.36	7,691.30	104.43	43.80	90.67	-841.28	-1,296.81	6,119.41	6,023.60	95.81	63.868		
12,100.00	7,630.00	9,865.67	7,694.57	104.42	44.98	90.70	-927.53	-1,297.38	6,119.81	6,021.99	97.81	62.565		
12,200.00	7,630.00	9,927.00	7,695.66	104.42	45.82	90.71	-988.84	-1,298.18	6,120.76	6,021.25	99.51	61.508		
12,300.00	7,630.00	9,989.45	7,695.76	104.45	46.69	90.71	-1,051.28	-1,299.38	6,122.34	6,021.09	101.25	60.466		
12,400.00	7,630.00	10,105.07	7,694.83	104.49	48.32	90.70	-1,166.87	-1,301.95	6,124.24	6,020.45	103.79	59.006		
12,500.00	7,630.00	10,234.34	7,692.75	104.55	50.19	90.68	-1,296.10	-1,303.99	6,125.42	6,018.80	106.62	57.449		
12,600.00	7,630.00	12,600.00	7,689.61	104.63	85.11	90.65	-1,419.10	-1,305.60	6,126.36	5,983.81	142.55	42.976		
12,700.00	7,630.00	10,462.00	7,686.92	104.73	53.56	90.63	-1,523.67	-1,306.50	6,126.85	6,014.81	112.04	54.685		
12,800.00	7,630.00	10,558.46	7,687.70	104.85	55.01	90.63	-1,620.11	-1,307.51	6,127.57	6,013.00	114.57	53.484		
12,900.00	7,630.00	10,717.52	7,692.89	104.99	57.45	90.68	-1,779.08	-1,308.68	6,128.11	6,009.85	118.26	51.817		
13,000.00	7,630.00	10,901.47	7,690.66	105.15	60.30	90.66	-1,962.99	-1,307.47	6,127.02	6,004.54	122.48	50.023		
13,100.00	7,630.00	11,020.62	7,686.03	105.34	62.18	90.62	-2,082.03	-1,305.60	6,125.03	5,999.43	125.60	48.766		
13,200.00	7,630.00	11,086.00	7,684.10	105.56	63.21	90.60	-2,147.38	-1,304.89	6,123.52	5,995.77	127.75	47.933		
13,300.00	7,630.00	13,300.00	7,682.18	105.80	98.37	90.58	-2,240.29	-1,304.09	6,122.29	5,958.15	164.14	37.300		
13,400.00	7,630.00	11,247.36	7,680.91	106.06	65.78	90.57	-2,308.70	-1,303.60	6,121.25	5,988.55	132.70	46.130		
13,500.00	7,630.00	11,435.46	7,678.87	106.36	68.80	90.55	-2,496.78	-1,301.65	6,119.90	5,982.57	137.33	44.564		
13,600.00	7,630.00	11,531.00	7,679.87	106.68	70.35	90.56	-2,592.29	-1,299.53	6,117.37	5,977.18	140.19	43.635		
13,700.00	7,630.00	11,572.10	7,680.50	107.03	71.01	90.57	-2,633.37	-1,298.82	6,115.60	5,973.63	141.96	43.078		
13,800.00	7,630.00	11,620.00	7,681.37	107.42	71.79	90.58	-2,681.27	-1,298.96	6,115.22	5,971.35	143.87	42.504		
13,816.04	7,630.00	11,620.00	7,681.37	107.48	71.79	90.58	-2,681.27	-1,298.96	6,115.20	5,971.18	144.02	42.460		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,900.00	7,630.00	11,632.81	7,681.62	107.83	72.00	90.58	-2,694.07	-1,299.14	6,115.75	5,970.70	145.05	42.162		
14,000.00	7,630.00	11,694.01	7,682.72	108.28	72.99	90.59	-2,755.25	-1,300.24	6,117.23	5,970.00	147.23	41.548		
14,100.00	7,630.00	11,863.13	7,685.07	108.77	75.75	90.61	-2,924.33	-1,303.18	6,118.78	5,967.08	151.70	40.334		
14,200.00	7,630.00	11,931.87	7,686.05	109.29	76.88	90.62	-2,993.06	-1,303.89	6,119.55	5,965.47	154.08	39.717		
14,300.00	7,630.00	11,982.89	7,687.34	109.84	77.71	90.63	-3,044.05	-1,304.87	6,121.15	5,965.08	156.08	39.219		
14,400.00	7,630.00	12,073.26	7,690.45	110.43	79.20	90.66	-3,134.34	-1,307.01	6,123.22	5,964.28	158.94	38.526		
14,500.00	7,630.00	12,172.82	7,694.52	111.06	80.84	90.70	-3,233.79	-1,309.42	6,125.36	5,963.34	162.02	37.806		
14,600.00	7,630.00	12,275.87	7,699.11	111.72	82.55	90.74	-3,336.71	-1,311.92	6,127.50	5,962.30	165.20	37.091		
14,700.00	7,630.00	12,365.16	7,703.35	112.42	84.03	90.78	-3,425.87	-1,314.02	6,129.59	5,961.50	168.09	36.466		
14,800.00	7,630.00	12,446.64	7,706.30	113.16	85.38	90.81	-3,507.27	-1,316.33	6,132.12	5,961.32	170.81	35.901		
14,900.00	7,630.00	12,622.10	7,709.49	113.94	88.30	90.84	-3,682.65	-1,320.31	6,134.08	5,958.41	175.67	34.919		
15,000.00	7,630.00	12,749.55	7,711.43	114.75	90.43	90.85	-3,810.07	-1,321.99	6,135.05	5,955.58	179.47	34.185		
15,100.00	7,630.00	12,878.31	7,716.96	115.60	92.60	90.91	-3,938.71	-1,323.27	6,135.79	5,952.46	183.33	33.468		
15,200.00	7,630.00	12,991.73	7,722.81	116.48	94.51	90.96	-4,051.97	-1,323.96	6,136.15	5,949.28	186.87	32.837		
15,300.00	7,630.00	13,089.99	7,727.73	117.40	96.17	91.01	-4,150.11	-1,324.34	6,136.29	5,946.23	190.06	32.286		
15,400.00	7,630.00	13,177.08	7,730.72	118.35	97.64	91.03	-4,237.14	-1,324.93	6,136.68	5,943.68	193.00	31.797		
15,500.00	7,630.00	13,277.64	7,733.67	119.34	99.34	91.06	-4,337.66	-1,325.67	6,137.14	5,940.88	196.26	31.271		
15,600.00	7,630.00	13,424.97	7,737.15	120.35	101.84	91.09	-4,484.94	-1,326.33	6,137.33	5,936.70	200.63	30.591		
15,700.00	7,630.00	13,606.43	7,741.43	121.40	104.93	91.13	-4,666.34	-1,324.87	6,136.14	5,930.32	205.82	29.813		
15,800.00	7,630.00	13,937.00	7,741.78	122.48	110.60	91.14	-4,996.62	-1,312.65	6,130.95	5,916.47	214.47	28.586		
15,900.00	7,630.00	13,937.00	7,741.78	123.58	110.60	91.14	-4,996.62	-1,312.65	6,126.35	5,910.88	215.48	28.432		
16,000.00	7,630.00	13,937.00	7,741.78	124.71	110.60	91.14	-4,996.62	-1,312.65	6,123.39	5,906.96	216.44	28.292		
16,100.00	7,630.00	13,988.44	7,741.08	125.87	111.48	91.13	-5,048.04	-1,311.48	6,121.19	5,902.60	218.59	28.003		
16,200.00	7,630.00	14,026.00	7,740.38	127.05	112.13	91.13	-5,085.59	-1,311.46	6,120.51	5,900.11	220.39	27.771		
16,220.39	7,630.00	14,026.00	7,740.38	127.29	112.13	91.13	-5,085.59	-1,311.46	6,120.47	5,899.90	220.58	27.748		
16,300.00	7,630.00	14,066.00	7,739.51	128.26	112.81	91.12	-5,125.58	-1,311.85	6,120.83	5,898.59	222.24	27.542		
16,400.00	7,630.00	16,400.00	7,736.47	129.48	152.73	91.09	-5,253.17	-1,312.85	6,121.23	5,857.28	263.94	23.191		
16,500.00	7,630.00	14,268.05	7,735.22	130.73	116.26	91.08	-5,327.57	-1,313.20	6,121.41	5,892.52	228.90	26.743		
16,600.00	7,630.00	14,355.32	7,735.55	132.00	117.76	91.08	-5,414.83	-1,314.27	6,122.28	5,890.38	231.90	26.400		
16,700.00	7,630.00	14,501.51	7,737.42	133.29	120.26	91.10	-5,561.00	-1,315.44	6,122.79	5,886.41	236.38	25.903		
16,800.00	7,630.00	14,670.23	7,740.14	134.59	123.17	91.12	-5,729.70	-1,314.93	6,122.11	5,880.69	241.41	25.360		
16,900.00	7,630.00	14,739.00	7,740.63	135.91	124.35	91.13	-5,798.47	-1,314.67	6,121.37	5,877.37	244.00	25.088		
17,000.00	7,630.00	14,831.23	7,739.56	137.25	125.94	91.12	-5,890.70	-1,314.64	6,120.97	5,873.82	247.15	24.766		
17,100.00	7,630.00	14,938.73	7,737.96	138.61	127.79	91.10	-5,998.18	-1,314.50	6,120.47	5,869.79	250.69	24.415		
17,200.00	7,630.00	15,093.14	7,737.70	139.97	130.46	91.10	-6,152.59	-1,313.82	6,119.81	5,864.41	255.39	23.962		
17,300.00	7,630.00	15,154.28	7,737.98	141.36	131.51	91.10	-6,213.72	-1,313.33	6,118.69	5,860.88	257.81	23.734		
17,400.00	7,630.00	15,234.68	7,740.17	142.75	132.90	91.13	-6,294.09	-1,313.14	6,118.14	5,857.44	260.70	23.468		
17,467.19	7,630.00	15,273.00	7,741.13	143.70	133.57	91.13	-6,332.40	-1,313.07	6,117.89	5,855.64	262.25	23.329		
17,500.00	7,630.00	15,273.00	7,741.13	144.16	133.57	91.13	-6,332.40	-1,313.07	6,117.97	5,855.45	262.53	23.304		
17,600.00	7,630.00	15,320.56	7,742.10	145.58	134.39	91.14	-6,379.94	-1,313.43	6,118.70	5,854.13	264.57	23.127		
17,700.00	7,630.00	15,362.00	7,742.70	147.01	135.10	91.15	-6,421.37	-1,314.47	6,120.71	5,854.28	266.43	22.973		
17,800.00	7,630.00	15,387.87	7,743.00	148.45	135.54	91.15	-6,447.22	-1,315.40	6,123.75	5,855.89	267.86	22.862		
17,900.00	7,630.00	15,451.00	7,743.66	149.91	136.63	91.16	-6,510.28	-1,318.26	6,127.84	5,857.59	270.25	22.675		
18,000.00	7,630.00	15,693.20	7,747.21	151.37	140.79	91.19	-6,752.28	-1,326.94	6,131.51	5,854.15	277.35	22.107		
18,100.00	7,630.00	15,848.49	7,751.47	152.84	143.47	91.23	-6,907.48	-1,329.64	6,133.00	5,850.83	282.18	21.735		
18,200.00	7,630.00	15,955.20	7,754.80	154.32	145.32	91.26	-7,014.13	-1,330.73	6,133.75	5,848.00	285.75	21.465		
18,300.00	7,630.00	16,085.32	7,759.17	155.81	147.57	91.30	-7,144.17	-1,331.93	6,134.43	5,844.49	289.93	21.158		
18,400.00	7,630.00	16,164.00	7,760.72	157.31	148.94	91.31	-7,222.84	-1,332.53	6,134.90	5,842.11	292.79	20.953		
18,500.00	7,630.00	16,217.25	7,761.84	158.81	149.86	91.32	-7,276.07	-1,333.22	6,135.95	5,840.96	294.99	20.801		
18,600.00	7,630.00	16,311.20	7,765.82	160.32	151.49	91.36	-7,369.91	-1,335.11	6,137.70	5,839.46	298.24	20.580		
18,700.00	7,630.00	16,406.99	7,770.76	161.84	153.15	91.41	-7,465.56	-1,336.70	6,139.16	5,837.61	301.55	20.359		
18,800.00	7,630.00	16,500.37	7,775.13	163.37	154.77	91.45	-7,558.82	-1,338.51	6,140.88	5,836.09	304.79	20.148		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	7,630.00	16,876.04	7,788.68	164.90	161.30	91.57	-7,934.18	-1,339.58	6,142.44	5,827.18	315.26	19.484	
19,000.00	7,630.00	19,000.00	7,792.21	166.43	198.52	91.61	-8,095.95	-1,334.64	6,139.07	5,784.45	354.62	17.312 SF	
19,100.00	7,630.00	17,161.69	7,793.69	167.98	166.30	91.62	-8,219.61	-1,329.94	6,134.94	5,810.69	324.25	18.921	
19,200.00	7,630.00	17,310.59	7,794.91	169.53	168.92	91.64	-8,368.37	-1,323.50	6,130.26	5,801.39	328.87	18.640	
19,300.00	7,630.00	17,340.00	7,795.17	171.08	169.43	91.64	-8,397.75	-1,322.14	6,125.72	5,795.10	330.62	18.528	
19,400.00	7,630.00	17,340.00	7,795.17	172.64	169.43	91.64	-8,397.75	-1,322.14	6,122.74	5,791.14	331.60	18.464	
19,500.00	7,630.00	17,340.00	7,795.17	174.21	169.43	91.64	-8,397.75	-1,322.14	6,121.39	5,788.89	332.50	18.410	
19,518.56	7,630.00	17,340.00	7,795.17	174.50	169.43	91.64	-8,397.75	-1,322.14	6,121.32	5,788.66	332.65	18.401	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-54.92	787.25	-1,121.09	1,369.93					
100.00	100.00	93.18	93.18	0.13	0.15	-54.93	787.10	-1,121.11	1,369.83	1,369.55	0.28	4,893.521		
200.00	200.00	195.57	195.57	0.49	0.31	-54.95	786.60	-1,121.16	1,369.58	1,368.78	0.80	1,715.799		
286.96	286.96	277.97	277.96	0.80	0.64	-54.97	786.17	-1,121.34	1,369.48	1,368.04	1.44	949.958 CC		
300.00	300.00	290.49	290.49	0.85	0.68	-54.97	786.11	-1,121.39	1,369.48	1,367.95	1.53	893.275		
400.00	400.00	389.16	389.16	1.21	1.03	-54.99	785.76	-1,121.77	1,369.59	1,367.36	2.24	611.800 ES		
500.00	499.98	488.86	488.85	1.56	1.38	-121.77	785.69	-1,121.99	1,370.66	1,367.72	2.94	466.039		
600.00	599.84	584.33	584.32	1.92	1.71	-121.93	785.18	-1,122.70	1,373.72	1,370.09	3.63	378.205		
700.00	699.45	658.83	658.81	2.29	1.98	-122.07	785.48	-1,123.73	1,379.73	1,375.47	4.26	324.119		
800.00	798.70	735.25	735.15	2.67	2.24	-122.13	788.75	-1,124.41	1,389.38	1,384.49	4.89	283.873		
900.00	897.47	807.87	807.50	3.07	2.50	-122.10	794.89	-1,124.45	1,402.59	1,397.06	5.53	253.529		
1,000.00	995.62	887.78	886.87	3.50	2.78	-122.03	804.17	-1,124.55	1,419.42	1,413.20	6.22	228.198		
1,100.00	1,093.06	979.77	978.10	3.96	3.12	-122.02	816.03	-1,124.78	1,438.91	1,431.93	6.98	206.089		
1,200.00	1,189.64	1,070.54	1,067.99	4.46	3.47	-122.02	828.61	-1,124.68	1,460.53	1,452.75	7.77	187.878		
1,300.00	1,285.27	1,157.95	1,154.38	5.00	3.81	-122.03	841.86	-1,124.45	1,484.59	1,476.00	8.59	172.834		
1,400.00	1,379.82	1,244.65	1,239.96	5.60	4.16	-122.05	855.79	-1,124.34	1,511.13	1,501.69	9.44	160.078		
1,500.00	1,473.17	1,336.05	1,330.17	6.25	4.54	-122.16	870.48	-1,124.70	1,540.03	1,529.68	10.35	148.791		
1,600.00	1,565.21	1,419.10	1,412.10	6.95	4.89	-122.24	884.06	-1,125.10	1,571.13	1,559.87	11.26	139.520		
1,700.00	1,655.84	1,495.82	1,487.69	7.72	5.22	-122.29	897.11	-1,126.00	1,605.09	1,592.91	12.18	131.789		
1,800.00	1,744.94	1,586.08	1,576.50	8.55	5.61	-122.46	913.24	-1,127.39	1,641.78	1,628.57	13.20	124.350		
1,900.00	1,832.39	1,687.22	1,676.28	9.45	6.04	-122.83	929.64	-1,128.92	1,679.79	1,665.48	14.32	117.344		
2,000.00	1,918.11	1,762.75	1,750.88	10.41	6.36	-122.96	941.37	-1,130.30	1,720.00	1,704.67	15.33	112.221		
2,100.00	2,001.97	1,846.54	1,833.61	11.45	6.72	-123.21	954.49	-1,132.69	1,763.26	1,746.85	16.41	107.450		
2,200.00	2,083.88	1,948.47	1,934.51	12.56	7.14	-123.74	968.73	-1,134.94	1,807.64	1,790.02	17.61	102.634		
2,300.00	2,163.74	2,019.50	2,004.90	13.74	7.44	-123.87	978.05	-1,136.89	1,854.57	1,835.90	18.67	99.326		
2,400.00	2,241.45	2,092.26	2,076.98	14.99	7.74	-124.02	987.71	-1,139.28	1,904.36	1,884.61	19.76	96.381		
2,421.22	2,257.65	2,116.02	2,100.52	15.26	7.84	-124.17	990.85	-1,140.02	1,915.21	1,895.18	20.04	95.574		
2,500.00	2,317.63	2,218.19	2,201.83	16.29	8.26	-125.70	1,003.88	-1,142.15	1,955.29	1,934.15	21.15	92.461		
2,600.00	2,393.75	2,329.64	2,312.50	17.62	8.71	-127.28	1,017.02	-1,142.24	2,004.92	1,982.48	22.44	89.338		
2,700.00	2,469.88	2,412.88	2,395.18	18.95	9.04	-128.41	1,026.55	-1,141.72	2,054.66	2,031.09	23.57	87.164		
2,800.00	2,546.01	2,491.14	2,472.95	20.30	9.35	-129.43	1,035.31	-1,141.28	2,105.01	2,080.35	24.66	85.361		
2,900.00	2,622.13	2,578.71	2,559.96	21.65	9.70	-130.52	1,045.26	-1,140.66	2,155.87	2,130.08	25.79	83.602		
3,000.00	2,698.26	2,676.20	2,656.61	23.01	10.10	-131.62	1,057.74	-1,138.47	2,206.37	2,179.40	26.98	81.793		
3,100.00	2,774.38	2,740.00	2,719.76	24.37	10.36	-132.30	1,066.77	-1,137.04	2,257.67	2,229.70	27.96	80.735		
3,200.00	2,850.51	2,776.79	2,756.13	25.74	10.52	-132.67	1,072.32	-1,136.63	2,310.38	2,281.61	28.77	80.303		
3,300.00	2,926.64	2,829.00	2,807.64	27.11	10.75	-133.18	1,080.75	-1,136.95	2,364.91	2,335.25	29.66	79.745		
3,400.00	3,002.76	2,870.10	2,848.16	28.49	10.93	-133.56	1,087.61	-1,137.72	2,420.77	2,390.32	30.45	79.507		
3,500.00	3,078.89	2,938.08	2,915.19	29.87	11.23	-134.19	1,098.77	-1,139.39	2,477.52	2,446.11	31.41	78.878		
3,600.00	3,155.02	3,022.48	2,998.50	31.25	11.59	-134.96	1,112.17	-1,141.56	2,534.56	2,502.09	32.47	78.049		
3,700.00	3,231.14	3,112.36	3,087.33	32.63	11.98	-135.75	1,125.68	-1,143.69	2,591.59	2,558.03	33.56	77.219		
3,800.00	3,307.27	3,201.16	3,175.26	34.01	12.35	-136.53	1,137.94	-1,145.63	2,648.55	2,613.93	34.62	76.510		
3,900.00	3,383.39	3,291.81	3,265.16	35.40	12.73	-137.32	1,149.40	-1,147.40	2,705.43	2,669.76	35.66	75.858		
4,000.00	3,459.52	3,383.22	3,355.95	36.79	13.10	-138.09	1,159.92	-1,148.89	2,762.18	2,725.48	36.70	75.267		
4,100.00	3,535.65	3,470.88	3,442.92	38.18	13.46	-138.79	1,170.89	-1,149.81	2,818.89	2,781.17	37.72	74.742		
4,200.00	3,611.77	3,560.18	3,531.27	39.57	13.83	-139.42	1,183.82	-1,150.12	2,875.54	2,836.79	38.75	74.207		
4,300.00	3,687.90	3,637.85	3,608.21	40.96	14.16	-139.97	1,194.51	-1,150.41	2,932.31	2,892.61	39.70	73.861		
4,400.00	3,764.02	3,734.67	3,704.31	42.35	14.55	-140.66	1,206.21	-1,150.66	2,989.00	2,948.25	40.75	73.343		
4,500.00	3,840.15	3,820.83	3,790.00	43.74	14.89	-141.28	1,215.19	-1,150.73	3,045.59	3,003.88	41.70	73.027		
4,600.00	3,916.28	3,861.38	3,830.36	45.13	15.05	-141.57	1,219.10	-1,151.08	3,102.83	3,060.49	42.34	73.289		
4,700.00	3,992.40	3,908.82	3,877.59	46.53	15.23	-141.91	1,223.50	-1,151.94	3,161.06	3,118.06	43.00	73.515		
4,800.00	4,068.53	3,964.93	3,933.45	47.92	15.45	-142.30	1,228.60	-1,153.41	3,220.09	3,176.38	43.70	73.678		
4,900.00	4,144.66	4,077.64	4,045.75	49.32	15.87	-143.09	1,237.74	-1,156.47	3,279.40	3,234.63	44.77	73.244		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	4,126.94	4,094.91	50.71	16.05	-143.44	1,241.22	-1,157.69	3,338.56	3,293.15	45.41	73.526		
5,100.00	4,296.91	4,189.49	4,157.24	52.11	16.29	-143.86	1,245.97	-1,159.67	3,398.48	3,352.35	46.12	73.680		
5,200.00	4,373.03	4,394.14	4,360.30	53.51	17.12	-144.97	1,270.92	-1,161.49	3,457.08	3,409.14	47.93	72.127		
5,300.00	4,449.16	4,462.00	4,427.53	54.90	17.40	-145.30	1,280.08	-1,160.78	3,514.44	3,465.68	48.75	72.087		
5,400.00	4,525.29	4,511.92	4,476.99	56.30	17.61	-145.53	1,286.84	-1,160.54	3,572.40	3,522.96	49.43	72.265		
5,500.00	4,601.41	4,551.00	4,515.68	57.70	17.77	-145.71	1,292.39	-1,160.76	3,631.28	3,581.26	50.03	72.587		
5,600.00	4,677.54	4,609.63	4,573.72	59.10	18.02	-145.97	1,300.61	-1,161.57	3,690.88	3,640.12	50.76	72.711		
5,700.00	4,753.66	4,671.72	4,635.28	60.49	18.28	-146.26	1,308.65	-1,162.86	3,751.05	3,699.54	51.51	72.825		
5,800.00	4,829.79	4,742.65	4,705.73	61.89	18.56	-146.60	1,316.63	-1,164.54	3,811.48	3,759.18	52.30	72.874		
5,900.00	4,905.92	4,809.76	4,772.38	63.29	18.83	-146.91	1,324.24	-1,166.28	3,872.19	3,819.12	53.06	72.974		
6,000.00	4,982.04	4,907.18	4,868.74	64.69	19.25	-147.30	1,338.31	-1,168.59	3,932.92	3,878.82	54.11	72.690		
6,100.00	5,058.17	4,973.66	4,934.12	66.09	19.55	-147.51	1,350.25	-1,169.97	3,993.60	3,938.67	54.93	72.698		
6,200.00	5,134.30	5,047.19	5,006.35	67.49	19.89	-147.73	1,363.98	-1,171.64	4,054.51	3,998.68	55.83	72.624		
6,300.00	5,210.42	5,127.01	5,084.95	68.89	20.24	-147.99	1,377.71	-1,173.52	4,115.49	4,058.73	56.76	72.506		
6,400.00	5,286.55	5,212.51	5,169.50	70.29	20.61	-148.29	1,390.21	-1,175.50	4,176.43	4,118.73	57.70	72.378		
6,500.00	5,362.67	5,297.93	5,254.31	71.69	20.95	-148.62	1,400.23	-1,177.35	4,237.25	4,178.65	58.60	72.306		
6,600.00	5,438.80	5,375.29	5,331.31	73.09	21.26	-148.94	1,407.46	-1,178.99	4,298.09	4,238.69	59.40	72.353		
6,700.00	5,514.93	5,446.80	5,402.47	74.49	21.53	-149.23	1,414.43	-1,180.56	4,359.07	4,298.90	60.16	72.453		
6,800.00	5,591.05	5,511.89	5,467.01	75.89	21.81	-149.45	1,422.71	-1,182.09	4,420.28	4,359.37	60.91	72.571		
6,900.00	5,667.18	5,578.97	5,533.25	77.29	22.09	-149.65	1,433.16	-1,183.83	4,481.75	4,420.05	61.70	72.642		
7,000.00	5,743.30	5,649.37	5,602.88	78.69	22.39	-149.86	1,443.29	-1,185.81	4,543.43	4,480.93	62.50	72.696		
7,100.00	5,819.43	5,927.75	5,879.35	80.09	23.52	-150.78	1,475.43	-1,188.63	4,604.44	4,539.55	64.90	70.950		
7,200.00	5,895.56	6,011.46	5,962.30	81.49	23.86	-151.01	1,486.52	-1,187.12	4,662.60	4,596.80	65.80	70.864		
7,300.00	5,971.68	6,065.00	6,015.35	82.90	24.08	-151.16	1,493.76	-1,186.47	4,721.26	4,654.80	66.46	71.041		
7,400.00	6,047.81	6,098.34	6,048.39	84.30	24.22	-151.25	1,498.17	-1,186.32	4,780.56	4,713.61	66.95	71.405		
7,500.00	6,123.94	6,154.00	6,103.62	85.70	24.45	-151.41	1,505.05	-1,186.64	4,840.67	4,773.05	67.61	71.596		
7,600.00	6,200.06	6,180.64	6,130.07	87.10	24.56	-151.49	1,508.23	-1,186.99	4,901.30	4,833.27	68.03	72.047		
7,700.00	6,276.19	6,233.89	6,182.90	88.50	24.78	-151.64	1,514.85	-1,187.90	4,962.48	4,893.82	68.66	72.275		
7,800.00	6,352.31	6,298.05	6,246.54	89.90	25.04	-151.81	1,522.82	-1,189.25	5,024.02	4,954.64	69.38	72.413		
7,900.00	6,428.44	7,900.00	6,350.02	91.31	31.52	-152.10	1,534.98	-1,191.20	5,085.40	5,008.93	76.47	66.501		
8,000.00	6,504.57	6,468.66	6,415.97	92.71	25.73	-152.27	1,542.71	-1,192.21	5,146.62	5,075.47	71.15	72.339		
8,100.00	6,580.69	6,511.00	6,458.05	94.11	25.90	-152.39	1,547.27	-1,193.16	5,208.41	5,136.74	71.67	72.673		
8,200.00	6,656.82	6,557.35	6,504.16	95.51	26.08	-152.52	1,551.79	-1,194.48	5,270.73	5,198.52	72.21	72.993		
8,300.00	6,732.95	6,608.31	6,554.91	96.91	26.27	-152.68	1,556.09	-1,196.16	5,333.50	5,260.72	72.77	73.288		
8,400.00	6,809.07	6,867.00	6,812.60	98.32	27.25	-153.42	1,577.98	-1,200.33	5,394.67	5,319.73	74.93	71.992		
8,500.00	6,885.20	6,923.98	6,869.42	99.72	27.46	-153.58	1,582.17	-1,200.32	5,455.09	5,379.55	75.54	72.216		
8,600.00	6,961.32	6,967.85	6,913.22	101.12	27.61	-153.72	1,584.77	-1,200.64	5,516.13	5,440.10	76.03	72.550		
8,700.00	7,037.45	8,700.00	7,040.58	102.52	31.74	-154.24	1,580.74	-1,201.08	5,577.44	5,496.78	80.67	69.142		
8,732.15	7,061.92	8,732.15	7,064.17	102.97	31.81	-154.35	1,578.45	-1,200.90	5,596.96	5,516.12	80.84	69.231		
8,750.00	7,075.57	8,750.00	7,077.35	103.22	31.85	-157.79	1,577.17	-1,200.81	5,607.83	5,526.89	80.94	69.281		
8,800.00	7,114.27	7,135.00	7,079.84	103.91	28.07	-167.65	1,576.92	-1,200.79	5,638.62	5,561.38	77.24	73.000		
8,850.00	7,153.47	7,168.22	7,112.44	104.58	28.12	-177.99	1,570.58	-1,200.24	5,669.34	5,591.96	77.38	73.265		
8,900.00	7,192.85	7,176.45	7,120.46	105.21	28.13	171.65	1,568.75	-1,200.20	5,700.42	5,622.98	77.44	73.612		
8,950.00	7,232.12	7,184.76	7,128.55	105.80	28.15	161.42	1,566.80	-1,200.20	5,731.36	5,653.88	77.47	73.978		
9,000.00	7,270.99	7,224.00	7,166.32	106.35	28.21	151.61	1,556.23	-1,200.70	5,762.30	5,684.76	77.54	74.313		
9,050.00	7,309.16	7,224.00	7,166.32	106.85	28.21	142.41	1,556.23	-1,200.70	5,792.06	5,714.54	77.52	74.716		
9,100.00	7,346.32	7,224.00	7,166.32	107.30	28.21	133.92	1,556.23	-1,200.70	5,821.06	5,743.58	77.48	75.126		
9,150.00	7,382.22	7,224.00	7,166.32	107.69	28.21	126.23	1,556.23	-1,200.70	5,849.09	5,771.66	77.43	75.536		
9,200.00	7,416.56	7,224.00	7,166.32	108.02	28.21	119.34	1,556.23	-1,200.70	5,875.95	5,798.57	77.37	75.941		
9,250.00	7,449.09	7,224.00	7,166.32	108.29	28.21	113.24	1,556.23	-1,200.70	5,901.45	5,824.14	77.31	76.334		
9,300.00	7,479.56	7,224.00	7,166.32	108.51	28.21	107.90	1,556.23	-1,200.70	5,925.42	5,848.17	77.25	76.708		
9,350.00	7,507.74	7,224.00	7,166.32	108.68	28.21	103.26	1,556.23	-1,200.70	5,947.69	5,870.50	77.19	77.056		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,224.00	7,166.32	108.79	28.21	99.27	1,556.23	-1,200.70	5,968.12	5,890.98	77.14	77.371		
9,450.00	7,556.39	7,260.38	7,200.76	108.86	28.24	96.14	1,544.61	-1,202.02	5,985.97	5,908.83	77.14	77.597		
9,500.00	7,576.48	7,266.52	7,206.52	108.88	28.25	93.35	1,542.49	-1,202.33	6,002.10	5,924.97	77.13	77.816		
9,550.00	7,593.55	7,272.37	7,211.99	108.86	28.25	91.08	1,540.44	-1,202.65	6,016.01	5,938.87	77.15	77.983		
9,600.00	7,607.46	7,277.87	7,217.12	108.80	28.26	89.27	1,538.48	-1,202.98	6,027.61	5,950.43	77.18	78.094		
9,650.00	7,618.11	7,313.00	7,249.50	108.71	28.29	88.16	1,525.12	-1,205.53	6,037.22	5,959.95	77.27	78.133		
9,700.00	7,625.41	7,313.00	7,249.50	108.59	28.29	87.19	1,525.12	-1,205.53	6,043.89	5,966.52	77.37	78.121		
9,750.00	7,629.30	7,313.00	7,249.50	108.45	28.29	86.63	1,525.12	-1,205.53	6,048.12	5,970.62	77.50	78.043		
9,781.81	7,630.00	7,313.00	7,249.50	108.35	28.29	86.48	1,525.12	-1,205.53	6,049.53	5,971.93	77.60	77.959		
9,800.00	7,630.00	7,313.00	7,249.50	108.29	28.29	86.48	1,525.12	-1,205.53	6,050.07	5,972.41	77.66	77.904		
9,900.00	7,630.00	7,313.00	7,249.50	107.97	28.29	86.48	1,525.12	-1,205.53	6,054.05	5,976.03	78.02	77.594		
10,000.00	7,630.00	8,293.00	7,789.70	107.67	29.19	91.60	774.17	-1,214.08	6,054.76	5,979.97	74.78	80.966		
10,100.00	7,630.00	8,326.10	7,791.09	107.38	29.31	91.61	741.13	-1,212.53	6,049.52	5,974.41	75.10	80.548		
10,200.00	7,630.00	8,404.72	7,792.13	107.10	29.62	91.62	662.60	-1,209.07	6,044.82	5,969.49	75.33	80.245		
10,300.00	7,630.00	8,471.00	7,792.12	106.84	29.92	91.62	596.37	-1,206.46	6,040.57	5,964.89	75.67	79.824		
10,400.00	7,630.00	8,525.37	7,792.24	106.59	30.21	91.63	542.03	-1,204.67	6,036.97	5,960.84	76.13	79.294		
10,500.00	7,630.00	8,576.73	7,792.74	106.35	30.50	91.63	490.69	-1,203.40	6,034.19	5,957.54	76.65	78.723		
10,600.00	7,630.00	8,628.94	7,793.11	106.13	30.82	91.64	438.49	-1,202.53	6,032.20	5,954.97	77.23	78.105		
10,700.00	7,630.00	8,690.83	7,793.04	105.92	31.24	91.63	376.60	-1,201.98	6,030.96	5,953.07	77.89	77.434		
10,800.00	7,630.00	8,769.52	7,791.60	105.72	31.81	91.62	297.93	-1,201.73	6,030.24	5,951.60	78.64	76.683		
10,900.00	7,630.00	8,867.93	7,787.66	105.54	32.60	91.58	199.60	-1,201.56	6,029.62	5,950.07	79.55	75.797		
11,000.00	7,630.00	8,939.94	7,784.52	105.37	33.22	91.55	127.65	-1,201.56	6,029.19	5,948.71	80.48	74.913		
11,013.67	7,630.00	8,946.81	7,784.27	105.34	33.28	91.55	120.79	-1,201.58	6,029.18	5,948.57	80.61	74.796		
11,100.00	7,630.00	9,006.00	7,782.80	105.21	33.81	91.54	61.62	-1,202.11	6,029.53	5,948.06	81.47	74.013		
11,200.00	7,630.00	9,044.62	7,781.99	105.06	34.18	91.53	23.02	-1,202.73	6,030.59	5,948.21	82.38	73.206		
11,300.00	7,630.00	9,362.00	7,761.22	104.93	37.53	91.33	-293.49	-1,202.19	6,029.16	5,943.91	85.25	70.721		
11,400.00	7,630.00	9,399.18	7,760.92	104.82	37.96	91.33	-330.66	-1,201.58	6,027.42	5,941.09	86.33	69.816		
11,500.00	7,630.00	9,451.00	7,762.22	104.72	38.56	91.34	-382.46	-1,201.82	6,027.18	5,939.61	87.58	68.823		
11,516.91	7,630.00	9,451.00	7,762.22	104.70	38.56	91.34	-382.46	-1,201.82	6,027.16	5,939.45	87.71	68.716		
11,600.00	7,630.00	9,451.00	7,762.22	104.63	38.56	91.34	-382.46	-1,201.82	6,027.73	5,939.37	88.36	68.219		
11,700.00	7,630.00	9,514.35	7,765.15	104.55	39.32	91.37	-445.72	-1,203.04	6,029.43	5,939.65	89.78	67.158		
11,800.00	7,630.00	9,597.11	7,768.92	104.50	40.33	91.41	-528.37	-1,205.05	6,031.62	5,940.17	91.45	65.956		
11,900.00	7,630.00	9,705.85	7,771.44	104.45	41.69	91.43	-637.04	-1,207.79	6,033.86	5,940.40	93.47	64.557		
12,000.00	7,630.00	9,946.12	7,775.96	104.43	44.85	91.47	-877.25	-1,209.94	6,033.96	5,936.70	97.26	62.039		
12,088.70	7,630.00	10,023.09	7,776.08	104.42	45.90	91.47	-954.22	-1,210.08	6,033.83	5,934.79	99.04	60.925		
12,100.00	7,630.00	10,031.47	7,776.16	104.42	46.02	91.47	-962.60	-1,210.10	6,033.83	5,934.59	99.25	60.797		
12,200.00	7,630.00	10,109.02	7,777.59	104.42	47.10	91.49	-1,040.14	-1,210.53	6,034.08	5,932.90	101.18	59.638		
12,300.00	7,630.00	10,208.76	7,779.55	104.45	48.50	91.51	-1,139.85	-1,211.33	6,034.60	5,931.12	103.48	58.314		
12,400.00	7,630.00	10,302.08	7,779.96	104.49	49.84	91.51	-1,233.17	-1,211.97	6,034.97	5,929.22	105.75	57.070		
12,500.00	7,630.00	10,376.67	7,781.57	104.55	50.92	91.52	-1,307.73	-1,212.74	6,035.72	5,927.95	107.78	56.002		
12,600.00	7,630.00	10,448.44	7,783.30	104.63	51.96	91.54	-1,379.47	-1,213.77	6,036.89	5,927.10	109.79	54.984		
12,700.00	7,630.00	10,520.00	7,783.61	104.73	53.02	91.54	-1,451.02	-1,215.30	6,038.66	5,926.83	111.83	54.000		
12,800.00	7,630.00	10,596.72	7,783.94	104.85	54.15	91.55	-1,527.70	-1,217.27	6,040.87	5,926.89	113.97	53.002		
12,900.00	7,630.00	10,666.64	7,785.43	104.99	55.20	91.56	-1,597.59	-1,219.21	6,043.37	5,927.33	116.04	52.079		
13,000.00	7,630.00	11,184.63	7,785.98	105.15	63.18	91.57	-2,115.04	-1,218.51	6,043.76	5,917.49	126.27	47.864		
13,100.00	7,630.00	11,233.00	7,787.01	105.34	63.95	91.58	-2,163.37	-1,217.05	6,040.26	5,912.15	128.11	47.148		
13,200.00	7,630.00	11,277.83	7,788.11	105.56	64.66	91.59	-2,208.18	-1,216.10	6,037.63	5,907.73	129.89	46.482		
13,300.00	7,630.00	11,354.83	7,789.94	105.80	65.89	91.60	-2,285.14	-1,214.58	6,035.40	5,903.10	132.31	45.617		
13,400.00	7,630.00	11,453.11	7,789.43	106.06	67.46	91.60	-2,383.41	-1,213.23	6,033.68	5,898.53	135.15	44.644		
13,500.00	7,630.00	11,570.95	7,791.66	106.36	69.36	91.62	-2,501.19	-1,210.84	6,031.33	5,892.90	138.43	43.570		
13,600.00	7,630.00	11,647.39	7,796.47	106.68	70.60	91.67	-2,577.46	-1,209.38	6,029.26	5,888.35	140.91	42.787		
13,700.00	7,630.00	11,718.90	7,802.00	107.03	71.76	91.72	-2,648.74	-1,208.30	6,027.63	5,884.32	143.31	42.059		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,800.00	7,630.00	11,791.25	7,808.19	107.42	72.94	91.78	-2,720.83	-1,207.54	6,026.50	5,880.76	145.74	41.350		
13,900.00	7,630.00	11,877.83	7,813.82	107.83	74.36	91.83	-2,807.22	-1,207.00	6,025.74	5,877.26	148.48	40.583		
14,000.00	7,630.00	12,043.78	7,819.21	108.28	77.08	91.89	-2,973.07	-1,205.57	6,024.74	5,871.82	152.92	39.398		
14,100.00	7,630.00	12,176.10	7,818.44	108.77	79.26	91.88	-3,105.35	-1,203.36	6,022.73	5,866.06	156.66	38.444		
14,200.00	7,630.00	12,213.00	7,817.20	109.29	79.87	91.87	-3,142.23	-1,202.64	6,020.70	5,862.34	158.37	38.018		
14,300.00	7,630.00	12,262.91	7,815.04	109.84	80.69	91.85	-3,192.08	-1,202.14	6,019.54	5,859.20	160.34	37.542		
14,333.37	7,630.00	12,272.53	7,814.60	110.03	80.85	91.84	-3,201.69	-1,202.17	6,019.46	5,858.61	160.85	37.423		
14,400.00	7,630.00	12,302.00	7,813.17	110.43	81.34	91.83	-3,231.13	-1,202.48	6,019.73	5,857.65	162.08	37.141		
14,500.00	7,630.00	12,413.09	7,808.70	111.06	83.17	91.79	-3,342.12	-1,203.63	6,020.31	5,854.91	165.40	36.399		
14,600.00	7,630.00	12,480.00	7,807.74	111.72	84.28	91.78	-3,409.02	-1,204.40	6,021.05	5,853.29	167.76	35.891		
14,700.00	7,630.00	12,697.06	7,805.49	112.42	87.89	91.76	-3,626.04	-1,204.43	6,020.31	5,846.80	173.52	34.696		
14,800.00	7,630.00	12,748.00	7,804.91	113.16	88.74	91.75	-3,676.98	-1,204.19	6,019.59	5,844.03	175.56	34.289		
14,811.43	7,630.00	12,748.00	7,804.91	113.25	88.74	91.75	-3,676.98	-1,204.19	6,019.58	5,843.92	175.66	34.269		
14,900.00	7,630.00	12,781.60	7,805.03	113.94	89.30	91.75	-3,710.57	-1,204.34	6,019.87	5,842.67	177.20	33.973		
15,000.00	7,630.00	12,837.00	7,806.04	114.75	90.23	91.76	-3,765.95	-1,205.73	6,021.68	5,842.35	179.33	33.579		
15,100.00	7,630.00	12,837.00	7,806.04	115.60	90.23	91.76	-3,765.95	-1,205.73	6,024.16	5,844.00	180.16	33.438		
15,200.00	7,630.00	12,902.61	7,807.77	116.48	91.32	91.78	-3,831.48	-1,208.34	6,027.84	5,845.32	182.51	33.027		
15,300.00	7,630.00	13,550.00	7,819.71	117.40	102.22	91.89	-4,478.18	-1,210.93	6,032.19	5,833.70	198.49	30.390		
15,400.00	7,630.00	13,605.50	7,822.35	118.35	103.17	91.92	-4,533.54	-1,208.04	6,027.06	5,826.31	200.75	30.023		
15,500.00	7,630.00	13,639.00	7,823.71	119.34	103.75	91.93	-4,566.99	-1,206.81	6,023.17	5,820.68	202.49	29.746		
15,600.00	7,630.00	13,639.00	7,823.71	120.35	103.75	91.93	-4,566.99	-1,206.81	6,020.65	5,817.25	203.41	29.599		
15,700.00	7,630.00	13,696.71	7,825.39	121.40	104.73	91.95	-4,624.67	-1,205.71	6,018.85	5,813.18	205.67	29.264		
15,790.39	7,630.00	13,728.00	7,825.86	122.37	105.26	91.95	-4,655.95	-1,205.69	6,018.45	5,811.24	207.21	29.045		
15,800.00	7,630.00	13,728.00	7,825.86	122.48	105.26	91.95	-4,655.95	-1,205.69	6,018.46	5,811.16	207.30	29.033		
15,900.00	7,630.00	13,937.19	7,825.24	123.58	108.82	91.95	-4,865.12	-1,205.27	6,018.13	5,804.95	213.19	28.229		
16,000.00	7,630.00	13,995.00	7,825.49	124.71	109.81	91.95	-4,922.93	-1,205.06	6,017.19	5,801.72	215.47	27.926		
16,100.00	7,630.00	16,100.00	7,825.76	125.87	145.73	91.95	-4,986.81	-1,205.04	6,016.73	5,764.03	252.69	23.810		
16,200.00	7,630.00	14,159.44	7,826.87	127.05	112.62	91.96	-5,087.36	-1,204.75	6,016.13	5,794.93	221.20	27.198		
16,235.35	7,630.00	14,173.00	7,827.30	127.47	112.85	91.97	-5,100.91	-1,204.74	6,016.05	5,794.22	221.83	27.120		
16,300.00	7,630.00	14,173.00	7,827.30	128.26	112.85	91.97	-5,100.91	-1,204.74	6,016.40	5,794.02	222.37	27.055		
16,400.00	7,630.00	14,229.66	7,828.62	129.48	113.82	91.98	-5,157.54	-1,205.32	6,017.46	5,792.86	224.60	26.792		
16,500.00	7,630.00	14,494.51	7,825.12	130.73	118.35	91.94	-5,422.32	-1,206.28	6,016.70	5,784.72	231.98	25.936		
16,600.00	7,630.00	16,600.00	7,825.08	132.00	154.53	91.94	-5,532.80	-1,205.61	6,015.76	5,745.93	269.84	22.294		
16,700.00	7,630.00	14,675.31	7,826.26	133.29	121.45	91.96	-5,603.10	-1,204.91	6,014.61	5,776.44	238.17	25.253		
16,770.21	7,630.00	14,708.00	7,827.07	134.20	122.02	91.96	-5,635.78	-1,204.92	6,014.42	5,774.84	239.58	25.104		
16,800.00	7,630.00	14,708.00	7,827.07	134.59	122.02	91.96	-5,635.78	-1,204.92	6,014.49	5,774.66	239.83	25.078		
16,900.00	7,630.00	14,777.84	7,828.62	135.91	123.21	91.98	-5,705.59	-1,205.51	6,015.13	5,772.72	242.41	24.814		
17,000.00	7,630.00	14,890.54	7,828.98	137.25	125.15	91.98	-5,818.28	-1,207.03	6,016.17	5,770.10	246.07	24.449		
17,100.00	7,630.00	14,931.14	7,828.69	138.61	125.84	91.98	-5,858.87	-1,207.72	6,017.47	5,769.58	247.90	24.274		
17,200.00	7,630.00	14,976.00	7,828.84	139.97	126.61	91.98	-5,903.72	-1,208.88	6,019.71	5,769.90	249.81	24.097		
17,300.00	7,630.00	15,083.91	7,829.80	141.36	128.46	91.99	-6,011.57	-1,212.15	6,022.44	5,769.08	253.36	23.770		
17,400.00	7,630.00	15,332.00	7,829.54	142.75	132.72	91.98	-6,259.62	-1,215.33	6,022.81	5,762.30	260.51	23.119		
17,500.00	7,630.00	15,381.85	7,829.81	144.16	133.58	91.99	-6,309.47	-1,215.54	6,023.12	5,760.52	262.60	22.937		
17,600.00	7,630.00	15,421.00	7,830.84	145.58	134.26	92.00	-6,348.60	-1,216.25	6,024.61	5,760.22	264.39	22.787		
17,700.00	7,630.00	15,527.81	7,834.45	147.01	136.09	92.03	-6,455.32	-1,218.65	6,026.64	5,758.70	267.94	22.492		
17,800.00	7,630.00	15,599.00	7,835.51	148.45	137.32	92.04	-6,526.48	-1,220.43	6,028.82	5,758.26	270.56	22.283		
17,900.00	7,630.00	15,757.11	7,839.00	149.91	140.04	92.07	-6,684.52	-1,223.26	6,030.18	5,754.72	275.46	21.891		
18,000.00	7,630.00	15,816.05	7,840.06	151.37	141.06	92.08	-6,743.44	-1,224.36	6,031.81	5,754.05	277.76	21.716		
18,100.00	7,630.00	16,134.00	7,843.38	152.84	146.57	92.11	-7,061.30	-1,224.63	6,030.65	5,743.88	286.77	21.029		
18,200.00	7,630.00	16,164.70	7,844.38	154.32	147.10	92.12	-7,091.98	-1,224.50	6,029.75	5,741.34	288.42	20.906		
18,258.90	7,630.00	16,197.13	7,845.38	155.20	147.66	92.13	-7,124.39	-1,224.50	6,029.62	5,739.88	289.74	20.810		
18,300.00	7,630.00	16,223.00	7,846.14	155.81	148.11	92.14	-7,150.26	-1,224.60	6,029.69	5,738.94	290.75	20.739		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	16,280.14	7,847.17	157.31	149.10	92.15	-7,207.38	-1,225.13	6,030.32	5,737.29	293.03	20.579						
18,500.00	7,630.00	16,350.27	7,847.14	158.81	150.31	92.15	-7,277.50	-1,226.26	6,031.58	5,735.93	295.64	20.402						
18,600.00	7,630.00	16,520.35	7,849.53	160.32	153.26	92.17	-7,447.55	-1,228.51	6,032.73	5,731.84	300.88	20.050						
18,700.00	7,630.00	16,672.46	7,855.81	161.84	155.90	92.23	-7,599.53	-1,228.81	6,032.82	5,727.16	305.66	19.737						
18,800.00	7,630.00	16,738.46	7,857.78	163.37	157.05	92.25	-7,665.49	-1,228.79	6,032.57	5,724.37	308.20	19.574						
18,850.49	7,630.00	16,831.20	7,859.49	164.14	158.66	92.27	-7,758.22	-1,228.85	6,032.52	5,721.51	311.02	19.396						
18,900.00	7,630.00	16,886.88	7,860.87	164.90	159.63	92.28	-7,813.87	-1,228.52	6,032.11	5,719.24	312.87	19.280						
19,000.00	7,630.00	16,958.04	7,862.80	166.43	160.87	92.30	-7,885.01	-1,228.20	6,031.46	5,715.91	315.55	19.114						
19,038.32	7,630.00	16,976.85	7,863.11	167.03	161.20	92.30	-7,903.82	-1,228.22	6,031.40	5,715.05	316.36	19.065						
19,100.00	7,630.00	17,025.00	7,863.27	167.98	162.03	92.30	-7,951.97	-1,228.57	6,031.62	5,713.50	318.11	18.961						
19,200.00	7,630.00	17,238.56	7,868.54	169.53	165.76	92.35	-8,165.44	-1,227.85	6,031.20	5,706.71	324.48	18.587						
19,300.00	7,630.00	17,327.34	7,869.81	171.08	167.31	92.37	-8,254.19	-1,226.71	6,029.63	5,702.00	327.63	18.404						
19,400.00	7,630.00	17,459.49	7,867.52	172.64	169.61	92.34	-8,386.31	-1,225.02	6,027.97	5,696.09	331.88	18.163						
19,500.00	7,630.00	17,471.00	7,867.23	174.21	169.81	92.34	-8,397.81	-1,224.84	6,026.62	5,693.57	333.04	18.096						
19,518.56	7,630.00	17,471.00	7,867.23	174.50	169.81	92.34	-8,397.81	-1,224.84	6,026.55	5,693.35	333.20	18.087 SF						

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-54.68	787.25	-1,111.02	1,361.69					
100.00	100.00	89.97	89.97	0.13	0.15	-54.68	787.29	-1,111.03	1,361.70	1,361.41	0.28	4,794.482		
200.00	200.00	188.83	188.83	0.49	0.31	-54.68	787.41	-1,111.09	1,361.81	1,361.01	0.81	1,687.821		
300.00	300.00	287.69	287.69	0.85	0.48	-54.67	787.63	-1,111.18	1,362.01	1,360.68	1.33	1,024.318		
400.00	400.00	383.74	383.74	1.21	0.76	-54.66	788.01	-1,111.33	1,362.37	1,360.40	1.97	690.089 ES		
500.00	499.98	478.53	478.52	1.56	1.10	-121.40	788.81	-1,111.60	1,364.00	1,361.34	2.67	511.230		
600.00	599.84	573.19	573.18	1.92	1.44	-121.47	790.06	-1,111.99	1,367.84	1,364.48	3.36	406.823		
700.00	699.45	675.91	675.88	2.29	1.81	-121.65	791.67	-1,112.39	1,373.63	1,369.54	4.09	335.659		
800.00	798.70	763.87	763.83	2.67	2.13	-121.86	793.05	-1,113.01	1,381.56	1,376.78	4.78	288.963		
900.00	897.47	863.50	863.44	3.07	2.48	-122.19	795.06	-1,113.90	1,391.81	1,386.29	5.53	251.866		
1,000.00	995.62	970.20	970.12	3.50	2.87	-122.65	796.94	-1,114.43	1,403.57	1,397.26	6.31	222.271		
1,100.00	1,093.06	1,067.64	1,067.49	3.96	3.22	-123.03	800.48	-1,113.51	1,417.20	1,410.10	7.09	199.830		
1,200.00	1,189.64	1,177.92	1,177.63	4.46	3.61	-123.53	805.40	-1,111.45	1,432.59	1,424.64	7.94	180.393		
1,300.00	1,285.27	1,280.50	1,280.07	5.00	3.98	-124.04	810.00	-1,108.53	1,449.28	1,440.49	8.79	164.831		
1,400.00	1,379.82	1,366.90	1,366.27	5.60	4.29	-124.42	815.05	-1,105.54	1,468.34	1,458.72	9.62	152.661		
1,500.00	1,473.17	1,459.29	1,458.21	6.25	4.63	-124.79	823.00	-1,101.31	1,490.02	1,479.52	10.51	141.835		
1,600.00	1,565.21	1,554.61	1,552.73	6.95	4.99	-125.12	833.87	-1,095.53	1,513.99	1,502.54	11.45	132.256		
1,700.00	1,655.84	1,644.38	1,641.39	7.72	5.34	-125.35	846.30	-1,088.94	1,540.21	1,527.79	12.42	124.060		
1,800.00	1,744.94	1,714.93	1,710.93	8.55	5.62	-125.42	857.11	-1,083.98	1,569.52	1,556.18	13.34	117.671		
1,900.00	1,832.39	1,786.39	1,781.35	9.45	5.91	-125.49	868.50	-1,079.84	1,602.32	1,588.02	14.30	112.071		
2,000.00	1,918.11	1,855.81	1,849.77	10.41	6.20	-125.55	879.79	-1,076.68	1,638.51	1,623.23	15.28	107.266		
2,100.00	2,001.97	1,921.89	1,914.91	11.45	6.47	-125.57	890.69	-1,074.53	1,678.11	1,661.85	16.26	103.200		
2,200.00	2,083.88	1,983.61	1,975.77	12.56	6.72	-125.54	900.96	-1,073.43	1,721.22	1,703.97	17.24	99.817		
2,300.00	2,163.74	2,076.00	2,066.88	13.74	7.11	-125.88	916.25	-1,072.36	1,767.13	1,748.71	18.42	95.940		
2,400.00	2,241.45	2,207.99	2,196.85	14.99	7.67	-126.71	938.63	-1,067.45	1,813.34	1,793.48	19.86	91.308		
2,421.22	2,257.65	2,224.03	2,212.62	15.26	7.74	-126.74	941.43	-1,066.67	1,823.35	1,803.25	20.10	90.700		
2,500.00	2,317.63	2,285.47	2,273.03	16.29	8.00	-127.50	952.26	-1,063.75	1,860.97	1,839.96	21.01	88.571		
2,600.00	2,393.75	2,365.93	2,352.16	17.62	8.35	-128.47	966.36	-1,060.02	1,909.24	1,887.07	22.17	86.114		
2,700.00	2,469.88	2,442.11	2,427.16	18.95	8.68	-129.37	979.33	-1,056.80	1,958.17	1,934.88	23.29	84.069		
2,800.00	2,546.01	2,521.12	2,505.01	20.30	9.03	-130.27	992.49	-1,053.74	2,007.73	1,983.31	24.42	82.228		
2,900.00	2,622.13	2,637.96	2,620.20	21.65	9.53	-131.55	1,011.41	-1,048.83	2,057.47	2,031.71	25.76	79.865		
3,000.00	2,698.26	2,772.92	2,752.89	23.01	10.13	-132.88	1,033.62	-1,038.46	2,104.39	2,077.17	27.23	77.294		
3,100.00	2,774.38	2,830.00	2,808.95	24.37	10.39	-133.41	1,043.52	-1,034.28	2,152.47	2,124.26	28.20	76.318		
3,200.00	2,850.51	2,880.27	2,858.41	25.74	10.61	-133.87	1,052.01	-1,031.38	2,201.98	2,172.87	29.11	75.641		
3,300.00	2,926.64	2,946.70	2,923.93	27.11	10.90	-134.49	1,062.52	-1,028.26	2,252.56	2,222.46	30.10	74.843		
3,400.00	3,002.76	3,035.04	3,011.28	28.49	11.27	-135.32	1,075.27	-1,024.83	2,303.85	2,272.65	31.20	73.847		
3,500.00	3,078.89	3,209.59	3,184.02	29.87	12.01	-136.91	1,097.62	-1,013.72	2,352.86	2,320.05	32.81	71.718		
3,600.00	3,155.02	3,270.08	3,243.67	31.25	12.27	-137.39	1,106.43	-1,008.92	2,401.55	2,367.82	33.73	71.205		
3,700.00	3,231.14	3,335.03	3,307.73	32.63	12.55	-137.90	1,116.03	-1,004.31	2,451.23	2,416.57	34.66	70.721		
3,800.00	3,307.27	3,416.36	3,388.10	34.01	12.91	-138.54	1,127.41	-999.13	2,501.62	2,465.94	35.68	70.105		
3,900.00	3,383.39	3,493.75	3,464.38	35.40	13.24	-139.09	1,139.39	-993.83	2,552.11	2,515.43	36.68	69.571		
4,000.00	3,459.52	3,558.30	3,528.10	36.79	13.53	-139.55	1,148.89	-989.91	2,603.33	2,565.75	37.58	69.275		
4,100.00	3,535.65	3,622.86	3,591.98	38.18	13.80	-140.02	1,157.60	-986.57	2,655.32	2,616.87	38.45	69.058		
4,200.00	3,611.77	3,744.21	3,712.19	39.57	14.31	-140.90	1,172.67	-979.74	2,706.93	2,667.24	39.68	68.218		
4,300.00	3,687.90	3,800.27	3,767.60	40.96	14.55	-141.27	1,180.54	-976.43	2,758.82	2,718.34	40.48	68.147		
4,400.00	3,764.02	3,860.61	3,827.08	42.35	14.82	-141.63	1,190.15	-973.23	2,811.62	2,770.30	41.32	68.041		
4,500.00	3,840.15	3,916.85	3,882.43	43.74	15.07	-141.95	1,199.79	-970.58	2,865.21	2,823.08	42.13	68.014		
4,600.00	3,916.28	3,964.08	3,929.01	45.13	15.27	-142.22	1,207.40	-968.95	2,919.83	2,876.99	42.84	68.154		
4,700.00	3,992.40	4,046.03	4,010.06	46.53	15.62	-142.70	1,219.34	-967.02	2,975.31	2,931.51	43.80	67.933		
4,800.00	4,068.53	4,154.42	4,117.12	47.92	16.09	-143.30	1,235.89	-963.46	3,030.26	2,985.29	44.96	67.395		
4,900.00	4,144.66	4,276.56	4,237.30	49.32	16.64	-143.89	1,256.80	-957.56	3,084.15	3,037.88	46.27	66.659		
5,000.00	4,220.78	4,330.00	4,289.88	50.71	16.89	-144.14	1,266.05	-955.01	3,138.30	3,091.27	47.03	66.734		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,417.21	4,375.65	52.11	17.28	-144.53	1,281.36	-951.26	3,192.97	3,144.92	48.05	66.444		
5,200.00	4,373.03	4,492.44	4,449.63	53.51	17.62	-144.85	1,294.57	-947.79	3,247.49	3,198.50	48.98	66.301		
5,300.00	4,449.16	4,542.47	4,498.93	54.90	17.84	-145.08	1,302.89	-945.92	3,302.72	3,253.04	49.69	66.471		
5,400.00	4,525.29	4,713.99	4,668.20	56.30	18.60	-145.84	1,329.49	-938.60	3,357.77	3,306.43	51.34	65.408		
5,500.00	4,601.41	4,928.31	4,878.85	57.70	19.58	-146.66	1,365.14	-922.15	3,410.22	3,356.89	53.33	63.951		
5,600.00	4,677.54	5,002.21	4,951.14	59.10	19.93	-146.91	1,378.67	-914.92	3,460.81	3,406.55	54.26	63.781		
5,700.00	4,753.66	5,062.00	5,009.72	60.49	20.21	-147.11	1,389.29	-909.41	3,511.90	3,456.83	55.07	63.770		
5,800.00	4,829.79	5,116.87	5,063.62	61.89	20.46	-147.30	1,398.49	-904.79	3,563.69	3,507.87	55.82	63.837		
5,900.00	4,905.92	5,179.00	5,124.85	63.29	20.74	-147.53	1,407.97	-900.25	3,616.34	3,559.73	56.61	63.879		
6,000.00	4,982.04	5,318.25	5,262.12	64.69	21.36	-148.05	1,428.17	-888.46	3,667.86	3,609.90	57.97	63.277		
6,100.00	5,058.17	5,378.40	5,321.46	66.09	21.62	-148.27	1,436.61	-883.44	3,719.79	3,661.07	58.72	63.345		
6,200.00	5,134.30	5,447.00	5,389.01	67.49	21.93	-148.50	1,447.22	-877.91	3,772.11	3,712.56	59.55	63.343		
6,300.00	5,210.42	5,507.69	5,448.71	68.89	22.21	-148.69	1,457.10	-873.29	3,824.93	3,764.61	60.32	63.408		
6,400.00	5,286.55	5,564.40	5,504.58	70.29	22.46	-148.87	1,466.05	-869.42	3,878.40	3,817.35	61.05	63.528		
6,500.00	5,362.67	5,625.00	5,564.43	71.69	22.73	-149.08	1,474.77	-865.71	3,932.49	3,870.70	61.79	63.643		
6,600.00	5,438.80	5,678.22	5,617.00	73.09	22.96	-149.25	1,482.51	-862.80	3,987.17	3,924.70	62.47	63.827		
6,700.00	5,514.93	5,714.00	5,652.27	74.49	23.12	-149.36	1,488.29	-861.01	4,042.52	3,979.51	63.00	64.165		
6,800.00	5,591.05	5,772.10	5,709.55	75.89	23.37	-149.53	1,497.74	-858.60	4,098.53	4,034.81	63.72	64.321		
6,900.00	5,667.18	5,826.54	5,763.31	77.29	23.62	-149.69	1,506.15	-856.98	4,155.40	4,091.00	64.40	64.527		
7,000.00	5,743.30	5,906.39	5,841.94	78.69	23.97	-149.90	1,519.79	-854.64	4,212.43	4,147.11	65.31	64.498		
7,100.00	5,819.43	6,105.30	6,038.34	80.09	24.84	-150.46	1,550.24	-847.44	4,269.59	4,202.38	67.21	63.529		
7,200.00	5,895.56	6,159.00	6,091.45	81.49	25.07	-150.62	1,557.68	-844.61	4,324.78	4,256.92	67.86	63.727		
7,300.00	5,971.68	6,205.71	6,137.68	82.90	25.27	-150.76	1,563.99	-842.50	4,380.63	4,312.18	68.45	63.994		
7,400.00	6,047.81	6,251.86	6,183.44	84.30	25.46	-150.90	1,569.79	-840.81	4,437.22	4,368.19	69.03	64.282		
7,500.00	6,123.94	6,343.52	6,274.32	85.70	25.84	-151.18	1,581.21	-837.67	4,494.07	4,424.10	69.96	64.236		
7,600.00	6,200.06	6,406.79	6,338.96	87.10	26.11	-151.35	1,589.88	-835.57	4,551.04	4,480.36	70.68	64.386		
7,700.00	6,276.19	6,591.05	6,518.63	88.50	26.93	-151.77	1,619.68	-828.00	4,607.56	4,535.06	72.49	63.559		
7,800.00	6,352.31	6,642.30	6,569.04	89.90	27.16	-151.88	1,628.51	-825.33	4,663.09	4,589.94	73.15	63.746		
7,900.00	6,428.44	7,140.00	7,060.46	91.31	29.04	-153.52	1,663.30	-780.18	4,715.79	4,639.26	76.53	61.622		
8,000.00	6,504.57	7,140.00	7,060.46	92.71	29.04	-153.52	1,663.30	-780.18	4,765.31	4,688.49	76.82	62.030		
8,100.00	6,580.69	7,140.00	7,060.46	94.11	29.04	-153.52	1,663.30	-780.18	4,816.41	4,739.32	77.09	62.477		
8,200.00	6,656.82	7,181.07	7,100.68	95.51	29.11	-153.77	1,656.81	-775.12	4,867.67	4,790.27	77.40	62.887		
8,300.00	6,732.95	7,190.58	7,109.96	96.91	29.13	-153.83	1,654.90	-774.28	4,921.05	4,843.40	77.64	63.379		
8,400.00	6,809.07	7,229.00	7,147.18	98.32	29.19	-154.10	1,645.66	-772.16	4,976.41	4,898.52	77.89	63.889		
8,500.00	6,885.20	7,229.00	7,147.18	99.72	29.19	-154.10	1,645.66	-772.16	5,031.99	4,953.91	78.08	64.444		
8,600.00	6,961.32	7,229.00	7,147.18	101.12	29.19	-154.10	1,645.66	-772.16	5,088.93	5,010.68	78.26	65.030		
8,700.00	7,037.45	7,229.00	7,147.18	102.52	29.19	-154.10	1,645.66	-772.16	5,147.19	5,068.78	78.41	65.647		
8,732.15	7,061.92	7,229.00	7,147.18	102.97	29.19	-154.10	1,645.66	-772.16	5,166.19	5,087.74	78.45	65.851		
8,750.00	7,075.57	7,229.00	7,147.18	103.22	29.19	-157.44	1,645.66	-772.16	5,176.82	5,098.34	78.48	65.967		
8,800.00	7,114.27	7,229.00	7,147.18	103.91	29.19	-167.17	1,645.66	-772.16	5,207.04	5,128.51	78.53	66.303		
8,850.00	7,153.47	7,229.00	7,147.18	104.58	29.19	-177.31	1,645.66	-772.16	5,237.72	5,159.14	78.58	66.657		
8,900.00	7,192.85	7,229.00	7,147.18	105.21	29.19	172.38	1,645.66	-772.16	5,268.60	5,190.00	78.60	67.028		
8,950.00	7,232.12	7,229.00	7,147.18	105.80	29.19	162.18	1,645.66	-772.16	5,299.47	5,220.86	78.61	67.413		
9,000.00	7,270.99	7,267.20	7,183.66	106.35	29.22	152.33	1,634.35	-771.58	5,329.38	5,250.75	78.63	67.778		
9,050.00	7,309.16	7,275.05	7,191.09	106.85	29.22	143.11	1,631.80	-771.59	5,359.19	5,280.58	78.61	68.171		
9,100.00	7,346.32	7,282.93	7,198.51	107.30	29.23	134.61	1,629.17	-771.64	5,388.25	5,309.66	78.59	68.564		
9,150.00	7,382.22	7,318.00	7,231.21	107.69	29.25	126.99	1,616.52	-772.40	5,416.68	5,338.13	78.55	68.958		
9,200.00	7,416.56	7,318.00	7,231.21	108.02	29.25	120.10	1,616.52	-772.40	5,443.43	5,364.92	78.51	69.332		
9,250.00	7,449.09	7,318.00	7,231.21	108.29	29.25	113.99	1,616.52	-772.40	5,468.89	5,390.42	78.47	69.690		
9,300.00	7,479.56	7,318.00	7,231.21	108.51	29.25	108.63	1,616.52	-772.40	5,492.89	5,414.45	78.44	70.026		
9,350.00	7,507.74	7,318.00	7,231.21	108.68	29.25	103.96	1,616.52	-772.40	5,515.26	5,436.84	78.42	70.334		
9,400.00	7,533.41	7,318.00	7,231.21	108.79	29.25	99.94	1,616.52	-772.40	5,535.85	5,457.45	78.40	70.606		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,556.39	7,355.70	7,265.73	108.86	29.26	96.77	1,601.43	-773.85	5,554.22	5,475.84	78.38	70.859		
9,500.00	7,576.48	7,370.45	7,279.06	108.88	29.26	94.01	1,595.16	-774.50	5,570.58	5,492.18	78.40	71.053		
9,550.00	7,593.55	7,384.84	7,291.97	108.86	29.26	91.77	1,588.85	-775.19	5,584.73	5,506.29	78.44	71.196		
9,600.00	7,607.46	9,600.00	7,442.34	108.80	28.93	91.15	1,486.16	-781.82	5,596.55	5,520.10	76.45	73.204		
9,650.00	7,618.11	7,586.00	7,456.15	108.71	29.15	89.92	1,474.48	-782.15	5,604.91	5,526.96	77.95	71.908		
9,700.00	7,625.41	7,586.00	7,456.15	108.59	29.15	88.98	1,474.48	-782.15	5,610.96	5,532.86	78.10	71.841		
9,750.00	7,629.30	7,624.68	7,482.34	108.45	29.10	88.71	1,446.04	-782.65	5,614.02	5,535.97	78.04	71.934		
9,781.81	7,630.00	7,629.44	7,485.42	108.35	29.09	88.62	1,442.41	-782.79	5,615.01	5,536.86	78.15	71.848		
9,800.00	7,630.00	7,632.15	7,487.16	108.29	29.09	88.63	1,440.34	-782.88	5,615.34	5,537.12	78.22	71.792		
9,900.00	7,630.00	7,675.00	7,513.28	107.97	29.03	88.90	1,406.45	-784.94	5,618.37	5,539.98	78.39	71.673		
10,000.00	7,630.00	8,188.06	7,695.12	107.67	28.84	90.76	932.24	-784.79	5,616.99	5,541.88	75.11	74.783		
10,100.00	7,630.00	8,280.49	7,702.48	107.38	29.01	90.83	840.22	-781.83	5,613.55	5,538.45	75.10	74.748		
10,200.00	7,630.00	8,513.10	7,698.43	107.10	29.89	90.79	607.94	-770.65	5,607.65	5,532.90	74.75	75.016		
10,300.00	7,630.00	8,566.00	7,698.30	106.84	30.16	90.79	555.11	-768.03	5,602.31	5,527.11	75.20	74.497		
10,400.00	7,630.00	8,597.89	7,698.38	106.59	30.36	90.79	523.25	-766.77	5,597.98	5,522.24	75.74	73.908		
10,500.00	7,630.00	8,655.00	7,699.12	106.35	30.70	90.80	466.16	-765.35	5,594.94	5,518.64	76.30	73.326		
10,600.00	7,630.00	8,714.23	7,700.50	106.13	31.11	90.81	406.95	-764.32	5,592.66	5,515.71	76.95	72.680		
10,700.00	7,630.00	8,744.00	7,701.37	105.92	31.32	90.82	377.20	-763.70	5,590.81	5,513.21	77.61	72.040		
10,800.00	7,630.00	8,803.69	7,703.42	105.72	31.78	90.84	317.55	-763.06	5,589.74	5,511.37	78.37	71.326		
10,806.83	7,630.00	8,805.94	7,703.51	105.71	31.80	90.85	315.30	-763.06	5,589.73	5,511.31	78.42	71.279		
10,900.00	7,630.00	8,833.00	7,704.58	105.54	32.00	90.86	288.26	-763.22	5,590.07	5,510.97	79.10	70.669		
11,000.00	7,630.00	8,875.39	7,706.13	105.37	32.36	90.87	245.91	-763.93	5,591.53	5,511.62	79.91	69.970		
11,100.00	7,630.00	8,922.00	7,707.41	105.21	32.74	90.89	199.34	-765.33	5,594.12	5,513.36	80.76	69.270		
11,200.00	7,630.00	8,999.35	7,709.43	105.06	33.43	90.91	122.06	-768.16	5,597.45	5,515.67	81.78	68.447		
11,300.00	7,630.00	9,284.54	7,713.42	104.93	36.27	90.95	-163.02	-773.42	5,598.62	5,514.44	84.18	66.510		
11,400.00	7,630.00	9,400.47	7,712.80	104.82	37.56	90.94	-278.95	-773.89	5,598.69	5,512.84	85.85	65.215		
11,500.00	7,630.00	9,545.00	7,709.56	104.72	39.27	90.91	-423.44	-772.93	5,597.47	5,509.54	87.93	63.660		
11,600.00	7,630.00	9,599.50	7,708.31	104.63	39.94	90.89	-477.92	-772.52	5,596.58	5,507.33	89.24	62.711		
11,616.56	7,630.00	9,605.14	7,708.19	104.61	40.01	90.89	-483.56	-772.53	5,596.56	5,507.13	89.43	62.579		
11,700.00	7,630.00	9,634.00	7,707.61	104.55	40.36	90.89	-512.41	-772.78	5,596.97	5,506.60	90.37	61.932		
11,800.00	7,630.00	9,846.09	7,704.40	104.50	43.08	90.85	-724.47	-773.34	5,596.79	5,503.19	93.60	59.793		
11,900.00	7,630.00	9,901.00	7,703.92	104.45	43.81	90.85	-779.38	-772.82	5,595.80	5,500.72	95.08	58.854		
11,943.34	7,630.00	9,931.76	7,703.69	104.44	44.22	90.85	-810.14	-772.68	5,595.54	5,499.71	95.83	58.391		
12,000.00	7,630.00	9,946.34	7,703.58	104.43	44.42	90.85	-824.72	-772.79	5,595.76	5,499.29	96.46	58.010		
12,100.00	7,630.00	9,990.00	7,703.26	104.42	45.00	90.84	-868.36	-773.76	5,597.29	5,499.45	97.84	57.211		
12,200.00	7,630.00	10,032.51	7,702.89	104.42	45.58	90.84	-910.85	-775.14	5,599.83	5,500.61	99.21	56.442		
12,300.00	7,630.00	10,428.47	7,711.18	104.45	51.20	90.92	-1,306.61	-777.93	5,600.98	5,494.92	106.06	52.811		
12,400.00	7,630.00	10,492.18	7,712.87	104.49	52.15	90.94	-1,370.28	-776.68	5,598.75	5,490.82	107.93	51.874		
12,500.00	7,630.00	10,628.47	7,713.36	104.55	54.18	90.95	-1,506.55	-774.58	5,596.99	5,485.92	111.07	50.394		
12,600.00	7,630.00	10,657.47	7,713.38	104.63	54.61	90.95	-1,535.55	-774.26	5,595.24	5,482.86	112.38	49.786		
12,700.00	7,630.00	10,704.00	7,713.49	104.73	55.31	90.95	-1,582.08	-774.12	5,594.55	5,480.53	114.02	49.068		
12,800.00	7,630.00	10,895.48	7,715.35	104.85	58.23	90.97	-1,773.54	-773.42	5,594.23	5,475.91	118.32	47.279		
12,900.00	7,630.00	10,923.84	7,715.75	104.99	58.67	90.97	-1,801.89	-773.27	5,593.08	5,473.41	119.67	46.737		
12,959.19	7,630.00	10,948.13	7,716.03	105.08	59.05	90.97	-1,826.19	-773.27	5,592.90	5,472.29	120.61	46.371		
13,000.00	7,630.00	10,971.00	7,716.22	105.15	59.40	90.98	-1,849.05	-773.41	5,592.99	5,471.62	121.37	46.082		
13,100.00	7,630.00	11,060.00	7,717.01	105.34	60.78	90.98	-1,938.05	-773.88	5,593.22	5,469.34	123.89	45.148		
13,200.00	7,630.00	11,122.47	7,717.06	105.56	61.75	90.98	-2,000.52	-774.40	5,593.86	5,467.95	125.90	44.429		
13,300.00	7,630.00	13,300.00	7,715.56	105.80	95.86	90.97	-2,106.45	-776.04	5,595.04	5,433.79	161.25	34.697		
13,400.00	7,630.00	11,292.63	7,714.86	106.06	64.42	90.96	-2,170.64	-776.95	5,596.23	5,465.35	130.88	42.759		
13,500.00	7,630.00	11,383.46	7,714.43	106.36	65.85	90.96	-2,261.44	-779.25	5,598.38	5,464.86	133.52	41.930		
13,600.00	7,630.00	11,506.00	7,714.74	106.68	67.79	90.96	-2,383.96	-781.08	5,599.42	5,462.57	136.85	40.915		
13,700.00	7,630.00	11,564.05	7,715.23	107.03	68.72	90.96	-2,442.01	-782.04	5,600.97	5,462.11	138.86	40.334		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	11,615.90	7,715.76	107.42	69.54	90.97	-2,493.82	-783.70	5,603.75	5,463.01	140.74	39.816		
13,900.00	7,630.00	13,900.00	7,717.63	107.83	106.70	90.99	-2,782.58	-789.73	5,606.19	5,425.87	180.32	31.091		
14,000.00	7,630.00	12,015.97	7,716.57	108.28	76.01	90.98	-2,893.78	-789.48	5,605.58	5,454.51	151.06	37.107		
14,084.56	7,630.00	12,073.71	7,715.16	108.69	76.96	90.96	-2,951.51	-789.57	5,605.39	5,452.37	153.02	36.632		
14,100.00	7,630.00	12,084.78	7,714.92	108.77	77.14	90.96	-2,962.57	-789.61	5,605.39	5,452.00	153.39	36.544		
14,200.00	7,630.00	12,187.14	7,713.90	109.29	78.82	90.95	-3,064.92	-790.20	5,605.62	5,449.13	156.48	35.822		
14,300.00	7,630.00	12,436.54	7,719.85	109.84	82.96	91.01	-3,314.21	-786.67	5,603.29	5,440.26	163.03	34.371		
14,400.00	7,630.00	12,486.00	7,721.19	110.43	83.78	91.03	-3,363.64	-785.79	5,601.16	5,436.18	164.98	33.950		
14,500.00	7,630.00	12,545.89	7,722.77	111.06	84.78	91.04	-3,423.51	-785.21	5,599.85	5,432.67	167.18	33.496		
14,600.00	7,630.00	12,600.55	7,724.00	111.72	85.69	91.05	-3,478.15	-784.99	5,599.20	5,429.95	169.25	33.082		
14,620.28	7,630.00	12,609.65	7,724.16	111.86	85.84	91.06	-3,487.25	-785.01	5,599.18	5,429.55	169.62	33.009		
14,700.00	7,630.00	12,664.00	7,724.70	112.42	86.75	91.06	-3,541.60	-785.50	5,599.56	5,428.04	171.52	32.646		
14,800.00	7,630.00	12,885.90	7,726.18	113.16	90.46	91.08	-3,763.46	-784.02	5,598.12	5,420.53	177.60	31.522		
14,900.00	7,630.00	12,931.00	7,727.11	113.94	91.22	91.09	-3,808.55	-783.83	5,597.13	5,417.66	179.46	31.188		
14,941.57	7,630.00	12,931.00	7,727.11	114.27	91.22	91.09	-3,808.55	-783.83	5,596.97	5,417.19	179.78	31.132		
15,000.00	7,630.00	12,931.00	7,727.11	114.75	91.22	91.09	-3,808.55	-783.83	5,597.28	5,417.06	180.22	31.058		
15,100.00	7,630.00	12,991.25	7,728.47	115.60	92.23	91.10	-3,868.78	-784.63	5,598.46	5,416.03	182.43	30.689		
15,200.00	7,630.00	13,045.35	7,729.51	116.48	93.13	91.11	-3,922.85	-786.03	5,600.69	5,416.21	184.48	30.360		
15,300.00	7,630.00	13,129.29	7,730.54	117.40	94.53	91.12	-4,006.74	-788.62	5,603.45	5,416.18	187.27	29.922		
15,400.00	7,630.00	13,377.00	7,731.79	118.35	98.69	91.13	-4,254.39	-793.50	5,605.25	5,411.09	194.16	28.869		
15,500.00	7,630.00	13,426.33	7,732.31	119.34	99.53	91.14	-4,303.71	-793.85	5,605.78	5,409.66	196.13	28.583		
15,600.00	7,630.00	13,466.00	7,733.32	120.35	100.19	91.15	-4,343.36	-794.65	5,607.47	5,409.63	197.84	28.344		
15,700.00	7,630.00	13,620.27	7,733.01	121.40	102.80	91.14	-4,497.57	-798.09	5,609.45	5,407.00	202.45	27.708		
15,800.00	7,630.00	13,860.62	7,728.28	122.48	106.88	91.10	-4,737.85	-797.63	5,608.11	5,398.87	209.24	26.802		
15,900.00	7,630.00	13,911.00	7,727.44	123.58	107.74	91.09	-4,788.23	-797.60	5,607.48	5,396.21	211.27	26.542		
15,921.29	7,630.00	13,911.00	7,727.44	123.82	107.74	91.09	-4,788.23	-797.60	5,607.44	5,396.01	211.43	26.522		
16,000.00	7,630.00	13,911.00	7,727.44	124.71	107.74	91.09	-4,788.23	-797.60	5,607.99	5,396.00	211.99	26.454		
16,100.00	7,630.00	13,970.60	7,726.39	125.87	108.75	91.08	-4,847.81	-798.56	5,609.45	5,395.24	214.21	26.186		
16,200.00	7,630.00	14,051.94	7,724.87	127.05	110.13	91.06	-4,929.10	-801.03	5,612.04	5,395.05	217.00	25.863		
16,300.00	7,630.00	14,265.51	7,721.80	128.26	113.76	91.03	-5,142.61	-804.64	5,613.23	5,390.00	223.23	25.145		
16,400.00	7,630.00	16,400.00	7,720.41	129.48	150.37	91.02	-5,329.97	-804.05	5,612.29	5,350.09	262.19	21.405		
16,500.00	7,630.00	14,490.74	7,720.57	130.73	117.62	91.02	-5,367.83	-803.93	5,611.69	5,381.17	230.51	24.344		
16,501.43	7,630.00	14,491.26	7,720.57	130.75	117.63	91.02	-5,368.35	-803.93	5,611.69	5,381.15	230.54	24.342		
16,600.00	7,630.00	14,535.00	7,721.09	132.00	118.38	91.02	-5,412.08	-804.37	5,612.25	5,379.88	232.38	24.151		
16,700.00	7,630.00	14,634.95	7,722.59	133.29	120.09	91.04	-5,512.01	-805.79	5,613.37	5,377.66	235.71	23.815		
16,800.00	7,630.00	14,705.21	7,724.37	134.59	121.29	91.06	-5,582.24	-806.87	5,614.61	5,376.36	238.25	23.566		
16,900.00	7,630.00	14,802.00	7,727.99	135.91	122.95	91.09	-5,678.95	-808.36	5,615.90	5,374.38	241.51	23.253		
17,000.00	7,630.00	14,853.00	7,730.09	137.25	123.82	91.11	-5,729.90	-809.35	5,617.74	5,374.20	243.54	23.067		
17,100.00	7,630.00	14,892.00	7,731.86	138.61	124.49	91.13	-5,768.84	-810.62	5,620.73	5,375.52	245.22	22.921		
17,200.00	7,630.00	15,103.60	7,742.15	139.97	128.12	91.23	-5,980.10	-816.33	5,623.11	5,371.49	251.63	22.347		
17,300.00	7,630.00	15,159.00	7,744.76	141.36	129.07	91.26	-6,035.43	-817.28	5,624.81	5,371.03	253.78	22.164		
17,400.00	7,630.00	15,218.45	7,747.25	142.75	130.09	91.29	-6,094.81	-818.77	5,627.24	5,371.22	256.02	21.979		
17,500.00	7,630.00	15,500.00	7,750.31	144.16	169.18	91.32	-6,183.74	-821.95	5,630.54	5,333.87	296.67	18.979		
17,600.00	7,630.00	15,393.54	7,753.05	145.58	133.09	91.34	-6,269.70	-824.87	5,633.71	5,371.65	262.06	21.498		
17,700.00	7,630.00	15,457.20	7,754.40	147.01	134.18	91.36	-6,333.29	-827.54	5,637.58	5,373.18	264.40	21.322		
17,800.00	7,630.00	15,595.81	7,756.39	148.45	136.55	91.38	-6,471.75	-833.63	5,641.78	5,372.94	268.84	20.986		
17,900.00	7,630.00	15,894.75	7,759.09	149.91	141.70	91.40	-6,770.61	-839.02	5,642.85	5,365.18	277.67	20.322		
18,000.00	7,630.00	16,222.00	7,750.38	151.37	147.38	91.32	-7,097.63	-833.44	5,640.70	5,353.71	286.99	19.655		
18,100.00	7,630.00	16,269.53	7,749.83	152.84	148.21	91.31	-7,145.13	-831.61	5,636.78	5,347.73	289.05	19.501		
18,200.00	7,630.00	16,312.00	7,749.86	154.32	148.95	91.31	-7,187.59	-830.81	5,634.32	5,343.35	290.97	19.364		
18,300.00	7,630.00	16,312.00	7,749.86	155.81	148.95	91.31	-7,187.59	-830.81	5,633.06	5,341.35	291.71	19.310		
18,367.23	7,630.00	16,342.63	7,750.13	156.81	149.48	91.31	-7,218.22	-830.76	5,632.90	5,339.89	293.01	19.224		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	16,351.18	7,750.23	157.31	149.63	91.31	-7,226.76	-830.83	5,633.06	5,339.60	293.46	19.195	
18,500.00	7,630.00	16,401.00	7,751.02	158.81	150.49	91.32	-7,276.56	-831.95	5,634.62	5,339.14	295.48	19.069	
18,600.00	7,630.00	16,413.27	7,751.26	160.32	150.70	91.32	-7,288.82	-832.38	5,637.10	5,340.69	296.41	19.018	
18,700.00	7,630.00	16,574.57	7,755.34	161.84	153.49	91.37	-7,449.99	-837.15	5,639.82	5,338.27	301.55	18.703	
18,800.00	7,630.00	16,668.00	7,758.81	163.37	155.10	91.40	-7,543.35	-838.95	5,641.53	5,336.75	304.78	18.510	
18,900.00	7,630.00	16,727.06	7,761.15	164.90	156.13	91.42	-7,602.35	-840.33	5,643.81	5,336.78	307.03	18.382	
19,000.00	7,630.00	16,780.46	7,763.18	166.43	157.05	91.44	-7,655.66	-842.33	5,647.24	5,338.13	309.10	18.270	
19,100.00	7,630.00	16,893.19	7,767.49	167.98	158.99	91.49	-7,768.23	-846.76	5,650.93	5,338.05	312.88	18.061	
19,200.00	7,630.00	16,995.45	7,772.27	169.53	160.76	91.53	-7,870.30	-850.46	5,654.34	5,337.97	316.37	17.873	
19,300.00	7,630.00	17,081.43	7,774.25	171.08	162.24	91.55	-7,956.19	-853.79	5,657.93	5,338.56	319.37	17.716	
19,400.00	7,630.00	17,201.48	7,775.79	172.64	164.31	91.57	-8,076.15	-858.52	5,661.59	5,338.22	323.37	17.508	
19,500.00	7,630.00	17,364.33	7,778.52	174.21	167.13	91.59	-8,238.90	-863.47	5,664.29	5,335.70	328.60	17.238	
19,518.56	7,630.00	17,390.53	7,779.13	174.50	167.58	91.60	-8,265.08	-864.11	5,664.70	5,335.25	329.45	17.194 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-53.52	785.71	-1,062.54	1,361.34					
100.00	100.00	318.00	317.99	0.13	0.00	-53.52	785.71	-1,062.54	1,340.84	1,340.43	0.41	3,259.401		
200.00	200.00	318.00	317.99	0.49	0.00	-53.52	785.71	-1,062.54	1,327.57	1,327.04	0.54	2,466.690		
300.00	300.00	318.00	317.99	0.85	0.00	-53.52	785.71	-1,062.54	1,321.76	1,320.91	0.85	1,550.070		
326.99	326.99	318.00	317.99	0.95	0.00	-53.52	785.71	-1,062.54	1,321.49	1,320.54	0.95	1,393.500 CC		
400.00	400.00	389.23	389.22	1.21	0.13	-53.56	785.05	-1,063.21	1,321.64	1,320.30	1.34	987.783 ES		
500.00	499.98	492.00	491.97	1.56	0.31	-120.39	784.07	-1,063.97	1,322.55	1,320.67	1.88	704.836		
600.00	599.84	594.62	594.59	1.92	0.50	-120.59	783.05	-1,064.49	1,325.03	1,322.61	2.41	548.678		
700.00	699.45	680.53	680.49	2.29	0.81	-120.75	783.92	-1,064.18	1,329.78	1,326.69	3.09	430.753		
800.00	798.70	770.55	770.39	2.67	1.12	-120.85	787.98	-1,062.50	1,337.17	1,333.40	3.77	354.592		
900.00	897.47	863.29	862.76	3.07	1.46	-120.87	795.52	-1,059.02	1,346.94	1,342.45	4.50	299.563		
1,000.00	995.62	951.27	950.05	3.50	1.79	-120.81	805.46	-1,054.42	1,359.14	1,353.90	5.24	259.401		
1,100.00	1,093.06	1,039.07	1,036.92	3.96	2.14	-120.75	817.23	-1,049.56	1,374.06	1,368.04	6.02	228.121		
1,200.00	1,189.64	1,134.85	1,131.40	4.46	2.54	-120.70	831.77	-1,043.49	1,391.14	1,384.26	6.88	202.131		
1,300.00	1,285.27	1,227.89	1,223.10	5.00	2.94	-120.71	846.37	-1,037.57	1,410.27	1,402.50	7.77	181.487		
1,400.00	1,379.82	1,342.75	1,336.34	5.60	3.44	-120.91	864.16	-1,030.34	1,431.24	1,422.45	8.80	162.686		
1,500.00	1,473.17	1,442.11	1,434.24	6.25	3.88	-121.10	879.23	-1,022.66	1,452.68	1,442.88	9.80	148.264		
1,600.00	1,565.21	1,522.14	1,513.02	6.95	4.24	-121.21	892.00	-1,016.68	1,476.66	1,465.91	10.75	137.353		
1,700.00	1,655.84	1,630.01	1,619.03	7.72	4.73	-121.54	910.23	-1,008.53	1,503.04	1,491.15	11.89	126.457		
1,800.00	1,744.94	1,739.69	1,727.00	8.55	5.22	-122.00	927.18	-999.37	1,530.00	1,516.94	13.07	117.105		
1,900.00	1,832.39	1,813.00	1,799.25	9.45	5.55	-122.19	938.16	-993.66	1,559.33	1,545.24	14.09	110.632		
2,000.00	1,918.11	1,884.81	1,870.04	10.41	5.87	-122.38	949.25	-988.89	1,591.96	1,576.81	15.15	105.112		
2,100.00	2,001.97	1,997.39	1,981.03	11.45	6.37	-123.05	966.71	-981.71	1,627.11	1,610.67	16.44	98.956		
2,200.00	2,083.88	2,124.02	2,105.75	12.56	6.94	-123.93	985.31	-970.22	1,661.83	1,643.98	17.85	93.082		
2,300.00	2,163.74	2,196.36	2,176.90	13.74	7.27	-124.16	996.34	-963.25	1,698.95	1,679.94	19.01	89.375		
2,400.00	2,241.45	2,258.00	2,237.53	14.99	7.55	-124.23	1,006.13	-957.93	1,739.48	1,719.36	20.12	86.436		
2,421.22	2,257.65	2,273.55	2,252.82	15.26	7.62	-124.27	1,008.65	-956.69	1,748.53	1,728.15	20.38	85.804		
2,500.00	2,317.63	2,324.48	2,302.91	16.29	7.86	-124.95	1,017.05	-952.89	1,782.88	1,761.61	21.27	83.819		
2,600.00	2,393.75	2,389.18	2,366.53	17.62	8.15	-125.80	1,027.97	-948.60	1,827.81	1,805.42	22.39	81.643		
2,700.00	2,469.88	2,453.88	2,430.20	18.95	8.45	-126.62	1,038.95	-944.99	1,874.13	1,850.65	23.48	79.803		
2,800.00	2,546.01	2,537.79	2,512.82	20.30	8.83	-127.65	1,052.98	-940.82	1,921.39	1,896.70	24.68	77.844		
2,900.00	2,622.13	2,609.67	2,583.70	21.65	9.14	-128.52	1,064.42	-937.50	1,969.23	1,943.45	25.78	76.393		
3,000.00	2,698.26	2,690.02	2,663.15	23.01	9.49	-129.50	1,076.11	-934.75	2,018.10	1,991.20	26.90	75.029		
3,100.00	2,774.38	2,845.33	2,816.47	24.37	10.17	-131.23	1,099.28	-926.09	2,065.97	2,037.48	28.49	72.512		
3,200.00	2,850.51	2,918.52	2,888.63	25.74	10.50	-131.99	1,110.21	-920.74	2,112.85	2,083.29	29.56	71.471		
3,300.00	2,926.64	3,040.41	3,009.17	27.11	11.02	-133.27	1,125.64	-911.44	2,159.22	2,128.34	30.89	69.907		
3,400.00	3,002.76	3,128.14	3,096.18	28.49	11.38	-134.21	1,134.77	-904.86	2,205.74	2,173.77	31.97	69.001		
3,500.00	3,078.89	3,244.47	3,211.35	29.87	11.87	-135.36	1,147.49	-894.63	2,251.75	2,218.54	33.21	67.810		
3,600.00	3,155.02	3,355.99	3,321.23	31.25	12.37	-136.33	1,162.28	-882.67	2,297.09	2,262.64	34.45	66.673		
3,700.00	3,231.14	3,428.59	3,392.58	32.63	12.70	-136.91	1,172.84	-874.35	2,342.41	2,306.94	35.47	66.042		
3,800.00	3,307.27	3,487.08	3,450.17	34.01	12.96	-137.38	1,181.00	-868.21	2,388.72	2,352.35	36.37	65.680		
3,900.00	3,383.39	3,543.00	3,505.40	35.40	13.21	-137.83	1,188.21	-863.27	2,436.41	2,399.18	37.22	65.453		
4,000.00	3,459.52	3,623.62	3,585.13	36.79	13.56	-138.49	1,198.25	-856.76	2,484.96	2,446.74	38.21	65.029		
4,100.00	3,535.65	3,780.67	3,739.76	38.18	14.27	-139.62	1,219.92	-840.02	2,531.36	2,491.63	39.73	63.721		
4,200.00	3,611.77	3,838.47	3,796.70	39.57	14.52	-140.03	1,227.59	-833.72	2,578.26	2,537.69	40.57	63.548		
4,300.00	3,687.90	3,899.00	3,856.55	40.96	14.79	-140.47	1,234.72	-828.23	2,626.56	2,585.15	41.40	63.438		
4,400.00	3,764.02	3,943.00	3,900.15	42.35	14.97	-140.79	1,239.58	-824.82	2,676.03	2,633.93	42.10	63.562		
4,500.00	3,840.15	4,004.70	3,961.31	43.74	15.23	-141.24	1,246.54	-820.50	2,726.53	2,683.63	42.90	63.554		
4,600.00	3,916.28	4,075.80	4,031.53	45.13	15.54	-141.69	1,256.53	-815.61	2,777.71	2,733.93	43.78	63.443		
4,700.00	3,992.40	4,124.36	4,079.36	46.53	15.76	-141.97	1,264.32	-812.52	2,829.73	2,785.22	44.51	63.579		
4,800.00	4,068.53	4,212.16	4,165.91	47.92	16.15	-142.47	1,278.35	-807.93	2,882.84	2,837.32	45.53	63.320		
4,900.00	4,144.66	4,310.27	4,262.69	49.32	16.58	-143.02	1,293.08	-801.54	2,934.84	2,888.23	46.61	62.968		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	4,403.89	4,355.35	50.71	16.99	-143.57	1,305.22	-795.94	2,987.32	2,939.70	47.62	62.733		
5,100.00	4,296.91	4,499.49	4,449.86	52.11	17.40	-144.10	1,318.04	-789.28	3,039.14	2,990.49	48.65	62.475		
5,200.00	4,373.03	4,573.93	4,523.32	53.51	17.73	-144.48	1,328.91	-784.27	3,091.41	3,041.88	49.53	62.415		
5,300.00	4,449.16	4,678.36	4,625.95	54.90	18.21	-144.94	1,346.52	-776.31	3,143.21	3,092.53	50.68	62.018		
5,400.00	4,525.29	4,732.00	4,678.72	56.30	18.46	-145.18	1,355.25	-772.35	3,195.39	3,143.97	51.42	62.146		
5,500.00	4,601.41	4,795.38	4,741.21	57.70	18.74	-145.47	1,365.00	-768.22	3,248.29	3,196.08	52.21	62.219		
5,600.00	4,677.54	5,019.71	4,962.04	59.10	19.76	-146.43	1,399.56	-749.55	3,299.52	3,245.26	54.26	60.807		
5,700.00	4,753.66	5,061.80	5,003.48	60.49	19.96	-146.60	1,405.75	-745.51	3,349.95	3,295.06	54.90	61.024		
5,800.00	4,829.79	5,109.56	5,050.61	61.89	20.17	-146.81	1,412.31	-741.56	3,401.52	3,345.97	55.55	61.235		
5,900.00	4,905.92	5,167.48	5,107.95	63.29	20.41	-147.07	1,419.35	-737.30	3,453.88	3,397.63	56.25	61.402		
6,000.00	4,982.04	5,447.91	5,384.75	64.69	21.64	-148.26	1,454.12	-709.54	3,504.11	3,445.56	58.55	59.848		
6,100.00	5,058.17	5,494.58	5,430.65	66.09	21.86	-148.44	1,460.44	-703.90	3,552.75	3,493.54	59.21	60.003		
6,200.00	5,134.30	5,533.00	5,468.45	67.49	22.03	-148.58	1,465.76	-699.59	3,602.37	3,542.57	59.80	60.244		
6,300.00	5,210.42	5,579.33	5,514.07	68.89	22.24	-148.75	1,472.38	-694.93	3,653.04	3,592.61	60.43	60.447		
6,400.00	5,286.55	5,623.00	5,557.09	70.29	22.44	-148.90	1,478.83	-691.17	3,704.90	3,643.86	61.04	60.695		
6,500.00	5,362.67	5,660.38	5,593.98	71.69	22.60	-149.03	1,484.22	-688.40	3,757.78	3,696.20	61.58	61.022		
6,600.00	5,438.80	5,712.00	5,645.05	73.09	22.83	-149.22	1,490.94	-685.13	3,811.63	3,749.41	62.22	61.265		
6,700.00	5,514.93	5,756.14	5,688.80	74.49	23.01	-149.38	1,496.32	-682.75	3,866.28	3,803.51	62.77	61.593		
6,800.00	5,591.05	6,800.00	5,879.56	75.89	27.61	-150.06	1,521.46	-670.74	3,920.77	3,852.60	68.17	57.516		
6,900.00	5,667.18	6,082.88	6,011.38	77.29	24.45	-150.45	1,541.80	-658.75	3,972.58	3,906.73	65.85	60.329		
7,000.00	5,743.30	6,133.47	6,061.05	78.69	24.69	-150.58	1,550.35	-654.26	4,024.69	3,958.17	66.52	60.505		
7,100.00	5,819.43	6,157.00	6,084.12	80.09	24.80	-150.64	1,554.52	-652.32	4,077.70	4,010.75	66.95	60.910		
7,200.00	5,895.56	6,212.73	6,138.88	81.49	25.05	-150.77	1,564.10	-648.31	4,131.46	4,063.82	67.64	61.077		
7,300.00	5,971.68	6,246.00	6,171.66	82.90	25.21	-150.86	1,569.42	-646.39	4,186.32	4,118.19	68.13	61.448		
7,400.00	6,047.81	6,293.43	6,218.52	84.30	25.41	-151.00	1,576.45	-644.13	4,242.04	4,173.33	68.71	61.736		
7,500.00	6,123.94	7,500.00	6,492.16	85.70	30.70	-151.81	1,612.51	-626.79	4,297.13	4,222.06	75.07	57.243		
7,600.00	6,200.06	6,656.62	6,577.52	87.10	26.98	-152.04	1,624.64	-618.89	4,349.30	4,277.24	72.06	60.354		
7,700.00	6,276.19	6,692.00	6,612.37	88.50	27.14	-152.12	1,629.96	-615.85	4,402.10	4,329.53	72.57	60.660		
7,800.00	6,352.31	6,738.63	6,658.32	89.90	27.35	-152.23	1,637.03	-612.29	4,455.71	4,382.55	73.16	60.901		
7,900.00	6,428.44	7,098.84	7,013.61	91.31	28.65	-153.60	1,652.06	-574.61	4,505.84	4,430.35	75.48	59.692		
8,000.00	6,504.57	7,138.00	7,051.53	92.71	28.73	-153.89	1,643.40	-570.26	4,556.06	4,480.30	75.76	60.137		
8,100.00	6,580.69	7,138.00	7,051.53	94.11	28.73	-153.89	1,643.40	-570.26	4,607.02	4,531.02	76.00	60.622		
8,200.00	6,656.82	7,138.00	7,051.53	95.51	28.73	-153.89	1,643.40	-570.26	4,659.56	4,583.36	76.20	61.147		
8,300.00	6,732.95	7,138.00	7,051.53	96.91	28.73	-153.89	1,643.40	-570.26	4,713.64	4,637.26	76.39	61.709		
8,400.00	6,809.07	7,138.00	7,051.53	98.32	28.73	-153.89	1,643.40	-570.26	4,769.21	4,692.67	76.54	62.306		
8,500.00	6,885.20	7,138.00	7,051.53	99.72	28.73	-153.89	1,643.40	-570.26	4,826.21	4,749.53	76.68	62.938		
8,600.00	6,961.32	7,138.00	7,051.53	101.12	28.73	-153.89	1,643.40	-570.26	4,884.59	4,807.79	76.80	63.602		
8,700.00	7,037.45	7,138.00	7,051.53	102.52	28.73	-153.89	1,643.40	-570.26	4,944.30	4,867.41	76.90	64.297		
8,732.15	7,061.92	7,177.49	7,089.51	102.97	28.76	-154.19	1,632.85	-568.03	4,962.21	4,885.25	76.96	64.478		
8,750.00	7,075.57	7,178.70	7,090.67	103.22	28.76	-157.57	1,632.50	-568.00	4,973.01	4,896.03	76.98	64.604		
8,800.00	7,114.27	7,182.18	7,094.01	103.91	28.77	-167.41	1,631.51	-567.95	5,003.67	4,926.66	77.02	64.969		
8,850.00	7,153.47	7,185.78	7,097.46	104.58	28.77	-177.66	1,630.47	-567.91	5,034.76	4,957.71	77.05	65.348		
8,900.00	7,192.85	7,227.00	7,136.66	105.21	28.80	171.83	1,617.84	-569.13	5,067.43	4,990.35	77.08	65.739		
8,950.00	7,232.12	7,227.00	7,136.66	105.80	28.80	161.61	1,617.84	-569.13	5,098.36	5,021.27	77.09	66.137		
9,000.00	7,270.99	7,227.00	7,136.66	106.35	28.80	151.77	1,617.84	-569.13	5,129.00	5,051.92	77.08	66.543		
9,050.00	7,309.16	7,227.00	7,136.66	106.85	28.80	142.49	1,617.84	-569.13	5,159.14	5,082.08	77.06	66.952		
9,100.00	7,346.32	7,227.00	7,136.66	107.30	28.80	133.93	1,617.84	-569.13	5,188.56	5,111.53	77.03	67.360		
9,150.00	7,382.22	7,227.00	7,136.66	107.69	28.80	126.16	1,617.84	-569.13	5,217.05	5,140.05	76.99	67.760		
9,200.00	7,416.56	7,227.00	7,136.66	108.02	28.80	119.20	1,617.84	-569.13	5,244.40	5,167.45	76.96	68.147		
9,250.00	7,449.09	7,227.00	7,136.66	108.29	28.80	113.03	1,617.84	-569.13	5,270.44	5,193.51	76.92	68.514		
9,300.00	7,479.56	7,227.00	7,136.66	108.51	28.80	107.62	1,617.84	-569.13	5,294.97	5,218.07	76.90	68.855		
9,350.00	7,507.74	7,227.00	7,136.66	108.68	28.80	102.92	1,617.84	-569.13	5,317.85	5,240.96	76.89	69.165		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,400.00	7,533.41	7,227.00	7,136.66	108.79	28.80	98.87	1,617.84	-569.13	5,338.91	5,262.02	76.89	69.435		
9,450.00	7,556.39	7,227.00	7,136.66	108.86	28.80	95.41	1,617.84	-569.13	5,358.02	5,281.10	76.92	69.661		
9,500.00	7,576.48	7,227.00	7,136.66	108.88	28.80	92.51	1,617.84	-569.13	5,375.05	5,298.08	76.97	69.837		
9,550.00	7,593.55	7,227.00	7,136.66	108.86	28.80	90.13	1,617.84	-569.13	5,389.89	5,312.85	77.04	69.958		
9,600.00	7,607.46	7,227.00	7,136.66	108.80	28.80	88.21	1,617.84	-569.13	5,402.46	5,325.30	77.16	70.020		
9,650.00	7,618.11	7,227.00	7,136.66	108.71	28.80	86.75	1,617.84	-569.13	5,412.67	5,335.36	77.30	70.019		
9,700.00	7,625.41	7,227.00	7,136.66	108.59	28.80	85.70	1,617.84	-569.13	5,420.45	5,342.96	77.49	69.953		
9,750.00	7,629.30	7,227.00	7,136.66	108.45	28.80	85.07	1,617.84	-569.13	5,425.76	5,348.05	77.71	69.821		
9,781.81	7,630.00	7,227.00	7,136.66	108.35	28.80	84.87	1,617.84	-569.13	5,427.83	5,349.96	77.87	69.703		
9,800.00	7,630.00	7,262.39	7,169.92	108.29	28.81	85.23	1,606.08	-572.01	5,428.11	5,350.12	77.99	69.598		
9,900.00	7,630.00	7,974.32	7,616.89	107.97	28.09	89.96	1,101.90	-596.93	5,427.20	5,352.64	74.56	72.793		
10,000.00	7,630.00	8,029.00	7,629.35	107.67	28.03	90.09	1,048.66	-596.54	5,425.71	5,351.06	74.66	72.674		
10,100.00	7,630.00	8,314.79	7,665.09	107.38	28.29	90.47	765.72	-588.94	5,423.24	5,349.73	73.51	73.773		
10,200.00	7,630.00	8,406.36	7,667.02	107.10	28.60	90.49	674.26	-584.80	5,418.40	5,344.67	73.73	73.492		
10,300.00	7,630.00	8,499.81	7,668.77	106.84	29.05	90.51	580.92	-580.72	5,413.71	5,339.63	74.08	73.078		
10,400.00	7,630.00	8,586.71	7,669.76	106.59	29.57	90.52	494.10	-576.99	5,409.11	5,334.52	74.58	72.524		
10,500.00	7,630.00	8,652.00	7,670.54	106.35	30.01	90.53	428.86	-574.55	5,405.04	5,329.85	75.19	71.885		
10,600.00	7,630.00	8,708.02	7,671.37	106.13	30.43	90.53	372.87	-572.86	5,401.69	5,325.81	75.88	71.190		
10,700.00	7,630.00	8,766.78	7,672.32	105.92	30.89	90.54	314.14	-571.55	5,399.13	5,322.50	76.62	70.464		
10,800.00	7,630.00	8,831.00	7,673.28	105.72	31.42	90.56	249.93	-570.60	5,397.30	5,319.86	77.44	69.697		
10,900.00	7,630.00	8,905.71	7,673.55	105.54	32.09	90.56	175.22	-569.92	5,396.05	5,317.68	78.37	68.855		
11,000.00	7,630.00	8,994.95	7,672.51	105.37	32.93	90.55	85.99	-569.39	5,395.11	5,315.67	79.44	67.916		
11,100.00	7,630.00	9,080.85	7,671.24	105.21	33.79	90.53	0.10	-569.06	5,394.37	5,313.78	80.60	66.931		
11,200.00	7,630.00	9,223.46	7,668.28	105.06	35.31	90.50	-142.47	-568.06	5,393.29	5,311.04	82.25	65.573		
11,300.00	7,630.00	9,354.86	7,668.48	104.93	36.81	90.50	-273.86	-566.52	5,391.83	5,307.79	84.05	64.154		
11,400.00	7,630.00	9,470.43	7,668.69	104.82	38.20	90.51	-389.41	-564.44	5,389.70	5,303.82	85.87	62.764		
11,500.00	7,630.00	9,619.81	7,668.77	104.72	40.07	90.51	-538.75	-561.03	5,387.12	5,298.91	88.22	61.067		
11,600.00	7,630.00	9,665.86	7,668.81	104.63	40.67	90.51	-584.78	-559.87	5,384.36	5,294.87	89.50	60.163		
11,700.00	7,630.00	9,721.00	7,668.62	104.55	41.39	90.51	-639.92	-559.35	5,382.87	5,291.96	90.91	59.213		
11,772.21	7,630.00	9,721.00	7,668.62	104.51	41.39	90.51	-639.92	-559.35	5,382.39	5,290.93	91.46	58.849		
11,800.00	7,630.00	9,721.00	7,668.62	104.50	41.39	90.51	-639.92	-559.35	5,382.46	5,290.79	91.67	58.717		
11,900.00	7,630.00	9,778.38	7,668.44	104.45	42.15	90.50	-697.30	-559.82	5,383.12	5,289.97	93.15	57.792		
12,000.00	7,630.00	9,810.00	7,668.45	104.43	42.56	90.51	-728.91	-560.48	5,385.00	5,290.69	94.32	57.094		
12,100.00	7,630.00	9,882.59	7,667.30	104.42	43.54	90.49	-801.46	-562.67	5,387.71	5,291.67	96.04	56.100		
12,200.00	7,630.00	10,183.99	7,651.98	104.42	47.74	90.33	-1,102.39	-568.11	5,389.58	5,288.48	101.09	53.314		
12,300.00	7,630.00	10,365.20	7,643.68	104.45	50.39	90.24	-1,283.39	-566.38	5,388.32	5,283.57	104.75	51.440		
12,400.00	7,630.00	10,494.85	7,637.30	104.49	52.33	90.17	-1,412.85	-563.74	5,385.94	5,278.23	107.71	50.004		
12,500.00	7,630.00	10,559.01	7,633.96	104.55	53.30	90.14	-1,476.91	-562.31	5,383.44	5,273.84	109.60	49.119		
12,600.00	7,630.00	10,612.00	7,631.39	104.63	54.11	90.11	-1,529.84	-561.74	5,381.93	5,270.62	111.31	48.351		
12,700.00	7,630.00	10,662.20	7,629.04	104.73	54.87	90.09	-1,579.99	-561.65	5,381.32	5,268.34	112.99	47.628		
12,731.26	7,630.00	10,681.21	7,628.14	104.76	55.16	90.08	-1,598.97	-561.69	5,381.29	5,267.71	113.57	47.381		
12,800.00	7,630.00	10,727.49	7,625.90	104.85	55.87	90.05	-1,645.20	-561.96	5,381.44	5,266.50	114.94	46.818		
12,900.00	7,630.00	10,803.05	7,622.06	104.99	57.03	90.01	-1,720.65	-562.72	5,382.11	5,265.00	117.11	45.958		
13,000.00	7,630.00	10,901.63	7,619.02	105.15	58.55	89.98	-1,819.17	-563.99	5,383.05	5,263.30	119.75	44.953		
13,100.00	7,630.00	11,012.28	7,616.23	105.34	60.27	89.95	-1,929.79	-565.12	5,383.73	5,261.06	122.67	43.889		
13,200.00	7,630.00	11,143.75	7,611.37	105.56	62.33	89.90	-2,061.16	-566.34	5,384.38	5,258.33	126.05	42.717		
13,300.00	7,630.00	11,269.36	7,605.23	105.80	64.32	89.83	-2,186.62	-566.52	5,384.18	5,254.81	129.37	41.620		
13,400.00	7,630.00	11,426.66	7,597.53	106.06	66.84	89.75	-2,343.72	-565.93	5,383.60	5,250.20	133.40	40.356		
13,500.00	7,630.00	11,580.89	7,592.32	106.36	69.33	89.69	-2,497.84	-563.51	5,381.72	5,244.25	137.47	39.149		
13,600.00	7,630.00	11,714.39	7,586.24	106.68	71.51	89.63	-2,631.16	-560.15	5,378.85	5,237.72	141.14	38.110		
13,700.00	7,630.00	11,793.28	7,583.46	107.03	72.80	89.60	-2,709.97	-558.08	5,375.94	5,232.29	143.65	37.424		
13,800.00	7,630.00	11,860.00	7,582.78	107.42	73.90	89.59	-2,776.67	-556.84	5,373.69	5,227.79	145.91	36.829		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	11,994.52	7,582.82	107.83	76.11	89.59	-2,911.16	-554.21	5,371.43	5,221.70	149.73	35.875		
14,000.00	7,630.00	12,088.68	7,582.09	108.28	77.67	89.58	-3,005.30	-551.97	5,368.72	5,216.07	152.65	35.170		
14,100.00	7,630.00	12,127.00	7,582.44	108.77	78.31	89.59	-3,043.61	-551.16	5,366.55	5,212.26	154.29	34.782		
14,200.00	7,630.00	12,180.22	7,583.63	109.29	79.19	89.60	-3,096.80	-550.57	5,365.32	5,209.04	156.28	34.332		
14,228.64	7,630.00	12,190.29	7,583.94	109.44	79.35	89.60	-3,106.87	-550.57	5,365.21	5,208.48	156.73	34.233		
14,300.00	7,630.00	12,217.76	7,584.77	109.84	79.81	89.61	-3,130.81	-550.71	5,365.38	5,207.51	157.87	33.987		
14,400.00	7,630.00	12,319.70	7,588.77	110.43	81.49	89.66	-3,236.19	-551.81	5,366.06	5,205.02	161.05	33.320		
14,500.00	7,630.00	12,447.52	7,593.00	111.06	83.62	89.70	-3,363.93	-552.54	5,366.25	5,201.40	164.85	32.552		
14,600.00	7,630.00	12,524.27	7,594.91	111.72	84.89	89.72	-3,440.66	-552.95	5,366.47	5,199.04	167.43	32.053		
14,700.00	7,630.00	12,612.22	7,596.31	112.42	86.36	89.74	-3,528.59	-553.97	5,367.25	5,196.97	170.28	31.521		
14,800.00	7,630.00	12,724.05	7,597.11	113.16	88.22	89.75	-3,640.41	-554.91	5,367.74	5,194.01	173.72	30.898		
14,900.00	7,630.00	12,810.64	7,596.93	113.94	89.67	89.74	-3,727.00	-555.74	5,368.36	5,191.80	176.56	30.406		
15,000.00	7,630.00	12,894.81	7,596.05	114.75	91.08	89.73	-3,811.16	-556.78	5,369.26	5,189.93	179.33	29.940		
15,100.00	7,630.00	12,988.17	7,594.48	115.60	92.64	89.72	-3,904.50	-558.16	5,370.41	5,188.07	182.34	29.452		
15,200.00	7,630.00	13,114.55	7,591.94	116.48	94.77	89.69	-4,030.84	-559.83	5,371.42	5,185.22	186.20	28.848		
15,300.00	7,630.00	13,196.55	7,589.93	117.40	96.15	89.67	-4,112.81	-560.82	5,372.30	5,183.36	188.94	28.433		
15,400.00	7,630.00	13,369.52	7,589.91	118.35	99.07	89.67	-4,285.76	-561.92	5,372.57	5,178.53	194.04	27.688		
15,454.11	7,630.00	13,405.60	7,590.22	118.88	99.68	89.67	-4,321.84	-561.97	5,372.46	5,177.13	195.34	27.503		
15,500.00	7,630.00	13,433.33	7,590.41	119.34	100.15	89.67	-4,349.57	-562.11	5,372.54	5,176.18	196.36	27.361		
15,600.00	7,630.00	13,464.00	7,590.58	120.35	100.67	89.68	-4,380.24	-562.38	5,373.38	5,175.58	197.81	27.165		
15,700.00	7,630.00	13,516.42	7,590.73	121.40	101.55	89.68	-4,432.65	-563.40	5,375.21	5,175.41	199.80	26.903		
15,800.00	7,630.00	13,553.00	7,590.69	122.48	102.17	89.68	-4,469.20	-564.67	5,378.33	5,176.97	201.36	26.709		
15,900.00	7,630.00	15,900.00	7,589.59	123.58	141.80	89.67	-4,621.97	-570.13	5,381.59	5,138.46	243.13	22.134		
16,000.00	7,630.00	16,000.00	7,589.64	124.71	143.91	89.67	-4,887.69	-573.49	5,382.11	5,133.76	248.35	21.671		
16,100.00	7,630.00	14,087.00	7,591.32	125.87	111.23	89.68	-5,003.05	-572.97	5,381.28	5,163.89	217.39	24.754		
16,135.35	7,630.00	14,087.00	7,591.32	126.28	111.23	89.68	-5,003.05	-572.97	5,381.16	5,163.53	217.63	24.726		
16,200.00	7,630.00	14,119.72	7,591.91	127.05	111.79	89.69	-5,035.76	-573.09	5,381.27	5,162.35	218.92	24.581		
16,300.00	7,630.00	14,176.00	7,593.23	128.26	112.75	89.70	-5,092.01	-574.17	5,382.58	5,161.53	221.06	24.349		
16,400.00	7,630.00	14,204.69	7,594.01	129.48	113.24	89.71	-5,120.68	-575.03	5,384.81	5,162.38	222.43	24.209		
16,500.00	7,630.00	14,284.13	7,596.14	130.73	114.59	89.74	-5,200.04	-577.67	5,387.78	5,162.60	225.18	23.927		
16,600.00	7,630.00	14,387.62	7,599.08	132.00	116.35	89.77	-5,303.44	-581.18	5,390.82	5,162.23	228.59	23.582		
16,700.00	7,630.00	14,643.48	7,603.75	133.29	120.72	89.82	-5,559.19	-585.45	5,391.72	5,155.53	236.19	22.828		
16,800.00	7,630.00	14,711.00	7,604.35	134.59	121.88	89.82	-5,626.70	-586.18	5,392.37	5,153.72	238.65	22.595		
16,900.00	7,630.00	14,959.47	7,606.78	135.91	126.16	89.85	-5,875.15	-584.91	5,391.17	5,145.16	246.01	21.914		
17,000.00	7,630.00	15,099.00	7,607.30	137.25	128.58	89.85	-6,014.65	-582.14	5,388.86	5,138.42	250.43	21.518		
17,100.00	7,630.00	15,157.00	7,607.36	138.61	129.59	89.85	-6,072.63	-580.64	5,386.18	5,133.49	252.69	21.315		
17,200.00	7,630.00	15,218.26	7,607.61	139.97	130.65	89.86	-6,133.87	-579.51	5,384.23	5,129.20	255.03	21.112		
17,300.00	7,630.00	15,266.42	7,608.17	141.36	131.48	89.86	-6,182.04	-579.39	5,383.55	5,126.56	256.99	20.948		
17,400.00	7,630.00	15,352.38	7,609.35	142.75	132.96	89.88	-6,267.98	-579.62	5,383.48	5,123.49	259.99	20.707		
17,500.00	7,630.00	15,513.59	7,611.56	144.16	135.75	89.90	-6,429.18	-579.36	5,383.02	5,117.96	265.05	20.309		
17,600.00	7,630.00	15,612.29	7,612.30	145.58	137.46	89.91	-6,527.87	-578.57	5,381.88	5,113.47	268.41	20.051		
17,700.00	7,630.00	15,709.97	7,612.52	147.01	139.16	89.91	-6,625.55	-577.88	5,380.83	5,109.10	271.74	19.802		
17,800.00	7,630.00	15,848.68	7,612.23	148.45	141.56	89.91	-6,764.25	-576.36	5,379.40	5,103.22	276.19	19.477		
17,900.00	7,630.00	16,031.11	7,610.74	149.91	144.74	89.89	-6,946.62	-572.24	5,376.78	5,094.98	281.81	19.080		
18,000.00	7,630.00	16,080.98	7,610.16	151.37	145.61	89.88	-6,996.47	-570.88	5,373.82	5,089.95	283.87	18.931		
18,100.00	7,630.00	16,137.00	7,609.72	152.84	146.58	89.88	-7,052.49	-570.21	5,372.09	5,086.00	286.08	18.778		
18,200.00	7,630.00	16,177.32	7,609.47	154.32	147.28	89.88	-7,092.80	-570.11	5,371.24	5,083.41	287.84	18.661		
18,300.00	7,630.00	16,263.43	7,608.81	155.81	148.78	89.87	-7,178.91	-570.16	5,370.95	5,080.10	290.85	18.466		
18,382.89	7,630.00	16,335.13	7,608.01	157.05	150.02	89.86	-7,250.61	-570.27	5,370.82	5,077.45	293.36	18.308		
18,400.00	7,630.00	16,346.14	7,607.97	157.31	150.21	89.86	-7,261.62	-570.31	5,370.82	5,077.05	293.77	18.282		
18,500.00	7,630.00	16,411.95	7,608.64	158.81	151.35	89.87	-7,327.42	-570.83	5,371.27	5,075.05	296.22	18.133		
18,600.00	7,630.00	16,493.00	7,610.76	160.32	152.76	89.89	-7,408.44	-571.89	5,372.22	5,073.13	299.09	17.962		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,700.00	7,630.00	16,581.44	7,613.74	161.84	154.29	89.92	-7,496.81	-573.29	5,373.46	5,071.27	302.18	17.782	
18,800.00	7,630.00	16,688.13	7,617.70	163.37	156.14	89.96	-7,603.42	-574.96	5,374.69	5,068.88	305.81	17.575	
18,900.00	7,630.00	16,781.24	7,621.49	164.90	157.76	90.01	-7,696.43	-576.46	5,375.96	5,066.92	309.04	17.396	
19,000.00	7,630.00	16,893.58	7,626.30	166.43	159.70	90.06	-7,808.66	-578.28	5,377.25	5,064.42	312.83	17.189	
19,100.00	7,630.00	16,982.35	7,628.57	167.98	161.24	90.08	-7,897.39	-579.49	5,378.30	5,062.36	315.94	17.023	
19,200.00	7,630.00	17,050.64	7,629.57	169.53	162.43	90.09	-7,965.66	-580.84	5,379.93	5,061.49	318.44	16.895	
19,300.00	7,630.00	17,129.95	7,630.57	171.08	163.80	90.10	-8,044.94	-582.77	5,382.03	5,060.77	321.25	16.753	
19,400.00	7,630.00	17,212.94	7,631.39	172.64	165.24	90.11	-8,127.90	-585.06	5,384.46	5,060.28	324.17	16.610	
19,500.00	7,630.00	17,285.95	7,631.82	174.21	166.50	90.12	-8,200.87	-587.38	5,387.30	5,060.51	326.79	16.486	
19,518.56	7,630.00	17,301.17	7,631.87	174.50	166.76	90.12	-8,216.08	-587.91	5,387.88	5,060.56	327.32	16.460 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-54.20	786.89	-1,090.86	1,345.08					
100.00	100.00	90.48	90.48	0.13	0.15	-54.20	786.88	-1,090.88	1,345.07	1,344.79	0.28	4,798.154	CC	
200.00	200.00	189.90	189.90	0.49	0.31	-54.20	786.85	-1,090.97	1,345.13	1,344.33	0.80	1,683.240		
300.00	300.00	286.39	286.39	0.85	0.57	-54.20	786.88	-1,091.16	1,345.30	1,343.87	1.42	944.472		
400.00	400.00	380.97	380.96	1.21	0.91	-54.20	787.23	-1,091.54	1,345.84	1,343.72	2.12	635.224	ES	
500.00	499.98	475.51	475.51	1.56	1.24	-120.94	787.92	-1,092.14	1,347.69	1,344.88	2.81	479.856		
600.00	599.84	569.92	569.91	1.92	1.58	-121.04	788.96	-1,092.96	1,351.73	1,348.23	3.50	386.369		
700.00	699.45	670.31	670.28	2.29	1.94	-121.24	790.17	-1,093.99	1,357.78	1,353.56	4.22	321.939		
800.00	798.70	765.99	765.95	2.67	2.28	-121.50	791.42	-1,095.00	1,365.79	1,360.85	4.93	276.944		
900.00	897.47	881.32	881.20	3.07	2.68	-121.83	795.24	-1,094.13	1,375.36	1,369.64	5.72	240.334		
1,000.00	995.62	990.14	989.66	3.50	3.06	-122.03	802.43	-1,089.16	1,385.52	1,379.00	6.51	212.728		
1,100.00	1,093.06	1,085.21	1,084.32	3.96	3.41	-122.21	809.70	-1,084.12	1,397.57	1,390.29	7.29	191.792		
1,200.00	1,189.64	1,205.91	1,204.41	4.46	3.85	-122.58	819.30	-1,076.72	1,411.07	1,402.89	8.19	172.346		
1,300.00	1,285.27	1,301.95	1,299.98	5.00	4.20	-122.92	826.28	-1,070.47	1,425.85	1,416.82	9.03	157.850		
1,400.00	1,379.82	1,405.74	1,402.95	5.60	4.60	-123.28	835.81	-1,061.66	1,442.03	1,432.08	9.95	144.925		
1,500.00	1,473.17	1,506.17	1,502.42	6.25	5.00	-123.64	846.41	-1,052.68	1,460.63	1,449.73	10.90	133.980		
1,600.00	1,565.21	1,600.34	1,595.18	6.95	5.38	-123.90	858.59	-1,042.02	1,480.52	1,468.64	11.88	124.624		
1,700.00	1,655.84	1,671.96	1,665.68	7.72	5.68	-124.01	868.72	-1,034.37	1,503.64	1,490.84	12.80	117.439		
1,800.00	1,744.94	1,745.78	1,738.34	8.55	5.99	-124.15	879.83	-1,027.68	1,530.57	1,516.80	13.77	111.139		
1,900.00	1,832.39	1,849.23	1,839.99	9.45	6.44	-124.54	896.38	-1,017.85	1,559.78	1,544.86	14.92	104.518		
2,000.00	1,918.11	1,931.43	1,920.70	10.41	6.80	-124.77	909.54	-1,009.66	1,590.88	1,574.87	16.01	99.365		
2,100.00	2,001.97	1,991.00	1,979.28	11.45	7.06	-124.79	919.22	-1,004.77	1,625.70	1,608.70	17.01	95.591		
2,200.00	2,083.88	2,129.26	2,115.06	12.56	7.67	-125.67	942.31	-992.72	1,662.77	1,644.32	18.46	90.087		
2,300.00	2,163.74	2,224.68	2,208.63	13.74	8.11	-126.10	957.57	-981.94	1,699.68	1,679.96	19.72	86.208		
2,400.00	2,241.45	2,291.14	2,273.81	14.99	8.41	-126.19	968.56	-974.95	1,739.85	1,719.00	20.84	83.483		
2,421.22	2,257.65	2,304.79	2,287.19	15.26	8.47	-126.20	970.85	-973.61	1,748.81	1,727.73	21.08	82.963		
2,500.00	2,317.63	2,354.72	2,336.18	16.29	8.70	-126.83	979.32	-968.98	1,782.87	1,760.92	21.95	81.217		
2,600.00	2,393.75	2,415.09	2,395.42	17.62	8.97	-127.56	989.80	-964.02	1,827.55	1,804.52	23.03	79.370		
2,700.00	2,469.88	2,479.57	2,458.73	18.95	9.26	-128.32	1,001.23	-959.49	1,873.74	1,849.64	24.11	77.730		
2,800.00	2,546.01	2,542.14	2,520.19	20.30	9.54	-129.05	1,012.30	-955.76	1,921.24	1,896.09	25.15	76.386		
2,900.00	2,622.13	2,611.44	2,588.34	21.65	9.85	-129.83	1,024.46	-952.46	1,970.05	1,943.83	26.22	75.127		
3,000.00	2,698.26	2,746.62	2,720.99	23.01	10.47	-131.23	1,049.07	-944.12	2,018.42	1,990.68	27.74	72.766		
3,100.00	2,774.38	2,855.37	2,827.54	24.37	10.98	-132.27	1,068.81	-935.00	2,065.30	2,036.23	29.07	71.034		
3,200.00	2,850.51	2,996.32	2,966.04	25.74	11.62	-133.62	1,090.65	-920.68	2,110.10	2,079.52	30.57	69.014		
3,300.00	2,926.64	3,146.67	3,114.00	27.11	12.30	-135.04	1,111.12	-903.62	2,154.56	2,122.48	32.08	67.169		
3,400.00	3,002.76	3,204.44	3,170.86	28.49	12.56	-135.57	1,118.31	-896.42	2,197.86	2,164.83	33.02	66.555		
3,500.00	3,078.89	3,299.51	3,264.61	29.87	12.98	-136.43	1,129.57	-885.34	2,242.08	2,207.92	34.16	65.641		
3,600.00	3,155.02	3,406.47	3,369.81	31.25	13.46	-137.34	1,143.14	-871.65	2,285.85	2,250.49	35.36	64.643		
3,700.00	3,231.14	3,458.09	3,420.58	32.63	13.69	-137.76	1,149.91	-865.21	2,330.25	2,294.02	36.23	64.316		
3,800.00	3,307.27	3,531.15	3,492.58	34.01	14.02	-138.35	1,159.20	-856.98	2,375.89	2,338.68	37.21	63.849		
3,900.00	3,383.39	3,605.80	3,565.95	35.40	14.36	-138.90	1,169.87	-848.32	2,421.87	2,383.67	38.20	63.404		
4,000.00	3,459.52	3,665.00	3,624.33	36.79	14.63	-139.35	1,177.59	-842.25	2,468.95	2,429.89	39.06	63.207		
4,100.00	3,535.65	3,781.01	3,738.64	38.18	15.15	-140.18	1,193.28	-830.19	2,516.33	2,476.04	40.29	62.458		
4,200.00	3,611.77	3,869.85	3,825.79	39.57	15.56	-140.75	1,206.76	-819.49	2,562.72	2,521.37	41.36	61.969		
4,300.00	3,687.90	3,915.40	3,870.60	40.96	15.77	-141.05	1,213.33	-814.60	2,610.32	2,568.21	42.11	61.992		
4,400.00	3,764.02	3,963.00	3,917.58	42.35	15.99	-141.37	1,219.69	-810.33	2,659.40	2,616.55	42.85	62.067		
4,500.00	3,840.15	4,077.37	4,030.38	43.74	16.50	-142.10	1,235.36	-799.94	2,708.66	2,664.62	44.04	61.503		
4,600.00	3,916.28	4,158.20	4,109.93	45.13	16.86	-142.57	1,247.42	-792.11	2,757.77	2,712.75	45.01	61.266		
4,700.00	3,992.40	4,246.56	4,196.85	46.53	17.27	-143.07	1,260.78	-783.52	2,807.02	2,760.98	46.04	60.972		
4,800.00	4,068.53	4,319.00	4,268.01	47.92	17.61	-143.45	1,272.26	-776.29	2,856.32	2,809.37	46.95	60.838		
4,900.00	4,144.66	4,377.66	4,325.71	49.32	17.87	-143.76	1,281.29	-770.85	2,906.35	2,858.61	47.74	60.879		
5,000.00	4,220.78	5,000.00	4,422.07	50.71	20.67	-144.28	1,295.18	-762.46	2,956.90	2,905.81	51.09	57.875		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,554.46	4,499.92	52.11	18.67	-144.68	1,306.93	-755.09	3,007.05	2,957.32	49.73	60.468		
5,200.00	4,373.03	4,646.11	4,590.34	53.51	19.08	-145.14	1,319.74	-747.45	3,058.08	3,007.34	50.73	60.280		
5,300.00	4,449.16	5,300.00	4,709.96	54.90	22.05	-145.73	1,336.65	-735.44	3,107.76	3,053.49	54.27	57.262		
5,400.00	4,525.29	4,822.10	4,763.67	56.30	19.88	-145.98	1,344.71	-729.96	3,157.73	3,105.04	52.68	59.940		
5,500.00	4,601.41	4,984.96	4,923.81	57.70	20.63	-146.69	1,368.87	-713.09	3,207.54	3,153.31	54.22	59.153		
5,600.00	4,677.54	5,032.00	4,969.93	59.10	20.85	-146.87	1,376.37	-707.64	3,256.54	3,201.63	54.91	59.303		
5,700.00	4,753.66	5,092.51	5,029.40	60.49	21.13	-147.12	1,385.53	-701.26	3,306.40	3,250.72	55.68	59.379		
5,800.00	4,829.79	5,800.00	5,122.25	61.89	24.38	-147.50	1,399.21	-691.97	3,356.82	3,297.43	59.39	56.523		
5,900.00	4,905.92	5,265.24	5,199.36	63.29	21.92	-147.81	1,410.89	-683.84	3,406.94	3,349.35	57.59	59.154		
6,000.00	4,982.04	5,447.81	5,378.80	64.69	22.77	-148.50	1,436.91	-662.71	3,455.76	3,396.50	59.26	58.317		
6,100.00	5,058.17	5,477.00	5,407.46	66.09	22.91	-148.61	1,441.13	-659.07	3,504.53	3,444.74	59.78	58.619		
6,200.00	5,134.30	5,535.89	5,465.40	67.49	23.18	-148.83	1,449.26	-652.43	3,554.21	3,493.70	60.51	58.737		
6,300.00	5,210.42	5,604.44	5,533.05	68.89	23.49	-149.09	1,458.17	-645.81	3,605.10	3,543.80	61.30	58.814		
6,400.00	5,286.55	5,684.18	5,611.57	70.29	23.85	-149.37	1,469.43	-637.67	3,655.72	3,593.54	62.17	58.800		
6,500.00	5,362.67	5,724.57	5,651.44	71.69	24.02	-149.52	1,474.73	-633.98	3,707.28	3,644.55	62.73	59.098		
6,600.00	5,438.80	5,809.58	5,735.53	73.09	24.39	-149.84	1,485.00	-626.99	3,759.66	3,696.05	63.61	59.104		
6,700.00	5,514.93	6,700.00	5,844.95	74.49	28.48	-150.19	1,501.23	-616.78	3,811.29	3,743.13	68.16	55.914		
6,800.00	5,591.05	5,967.82	5,891.17	75.89	25.12	-150.31	1,509.41	-612.46	3,863.22	3,797.84	65.38	59.091		
6,900.00	5,667.18	6,900.00	5,976.82	77.29	29.41	-150.56	1,523.38	-605.43	3,915.99	3,845.90	70.09	55.871		
7,000.00	5,743.30	6,139.37	6,059.88	78.69	25.91	-150.79	1,536.87	-597.98	3,968.19	3,900.92	67.27	58.990		
7,100.00	5,819.43	6,190.00	6,109.82	80.09	26.14	-150.94	1,544.24	-594.18	4,021.33	3,953.43	67.90	59.224		
7,200.00	5,895.56	6,297.82	6,216.20	81.49	26.61	-151.25	1,559.78	-585.97	4,074.71	4,005.71	68.99	59.058		
7,300.00	5,971.68	6,364.30	6,281.84	82.90	26.91	-151.45	1,568.83	-580.64	4,127.70	4,057.96	69.74	59.187		
7,400.00	6,047.81	6,532.82	6,448.18	84.30	27.65	-151.93	1,591.34	-565.75	4,180.08	4,108.78	71.29	58.632		
7,500.00	6,123.94	6,663.86	6,576.98	85.70	28.26	-152.26	1,610.70	-551.34	4,230.39	4,157.81	72.58	58.285		
7,600.00	6,200.06	6,697.06	6,609.59	87.10	28.42	-152.34	1,615.86	-547.92	4,281.59	4,208.50	73.08	58.586		
7,700.00	6,276.19	6,724.00	6,636.04	88.50	28.54	-152.40	1,620.30	-545.43	4,333.85	4,260.33	73.52	58.947		
7,800.00	6,352.31	6,763.40	6,674.78	89.90	28.72	-152.49	1,626.73	-542.26	4,387.11	4,313.06	74.05	59.243		
7,900.00	6,428.44	7,438.00	7,334.75	91.31	31.49	-154.69	1,674.58	-452.40	4,439.60	4,361.23	78.37	56.649		
8,000.00	6,504.57	7,438.00	7,334.75	92.71	31.49	-154.69	1,674.58	-452.40	4,483.11	4,404.39	78.72	56.953		
8,100.00	6,580.69	7,477.21	7,371.64	94.11	31.54	-154.99	1,663.68	-444.87	4,527.49	4,448.52	78.97	57.332		
8,200.00	6,656.82	7,490.70	7,384.25	95.51	31.55	-155.10	1,659.43	-442.64	4,573.78	4,494.54	79.24	57.723		
8,300.00	6,732.95	7,527.00	7,417.87	96.91	31.60	-155.41	1,646.74	-437.55	4,621.88	4,542.45	79.43	58.190		
8,400.00	6,809.07	7,527.00	7,417.87	98.32	31.60	-155.41	1,646.74	-437.55	4,670.86	4,591.19	79.67	58.628		
8,500.00	6,885.20	7,527.00	7,417.87	99.72	31.60	-155.41	1,646.74	-437.55	4,721.45	4,641.57	79.89	59.103		
8,600.00	6,961.32	7,527.00	7,417.87	101.12	31.60	-155.41	1,646.74	-437.55	4,773.60	4,693.53	80.08	59.614		
8,700.00	7,037.45	7,527.00	7,417.87	102.52	31.60	-155.41	1,646.74	-437.55	4,827.26	4,747.02	80.24	60.160		
8,732.15	7,061.92	7,527.00	7,417.87	102.97	31.60	-155.41	1,646.74	-437.55	4,844.82	4,764.54	80.29	60.343		
8,750.00	7,075.57	7,527.00	7,417.87	103.22	31.60	-158.60	1,646.74	-437.55	4,854.66	4,774.35	80.31	60.446		
8,800.00	7,114.27	7,527.00	7,417.87	103.91	31.60	-167.92	1,646.74	-437.55	4,882.66	4,802.28	80.38	60.745		
8,850.00	7,153.47	7,527.00	7,417.87	104.58	31.60	-177.64	1,646.74	-437.55	4,911.11	4,830.67	80.43	61.057		
8,900.00	7,192.85	7,564.74	7,452.23	105.21	31.60	172.30	1,631.60	-433.87	4,938.70	4,858.30	80.40	61.430		
8,950.00	7,232.12	7,569.85	7,456.83	105.80	31.60	162.54	1,629.39	-433.52	4,967.08	4,886.66	80.42	61.767		
9,000.00	7,270.99	7,575.08	7,461.51	106.35	31.60	153.13	1,627.10	-433.19	4,995.21	4,914.79	80.42	62.111		
9,050.00	7,309.16	7,616.00	7,497.58	106.85	31.61	144.22	1,607.83	-431.84	5,023.86	4,943.54	80.32	62.548		
9,100.00	7,346.32	7,616.00	7,497.58	107.30	31.61	136.07	1,607.83	-431.84	5,050.60	4,970.27	80.33	62.876		
9,150.00	7,382.22	7,616.00	7,497.58	107.69	31.61	128.66	1,607.83	-431.84	5,076.51	4,996.18	80.33	63.197		
9,200.00	7,416.56	7,616.00	7,497.58	108.02	31.61	122.00	1,607.83	-431.84	5,101.42	5,021.09	80.33	63.507		
9,250.00	7,449.09	7,616.00	7,497.58	108.29	31.61	116.08	1,607.83	-431.84	5,125.16	5,044.83	80.33	63.800		
9,300.00	7,479.56	7,616.00	7,497.58	108.51	31.61	110.87	1,607.83	-431.84	5,147.56	5,067.22	80.34	64.071		
9,350.00	7,507.74	7,616.00	7,497.58	108.68	31.61	106.33	1,607.83	-431.84	5,168.47	5,088.10	80.36	64.313		
9,400.00	7,533.41	7,616.00	7,497.58	108.79	31.61	102.40	1,607.83	-431.84	5,187.75	5,107.35	80.40	64.523		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,556.39	7,616.00	7,497.58	108.86	31.61	99.03	1,607.83	-431.84	5,205.27	5,124.81	80.46	64.694		
9,500.00	7,576.48	7,648.97	7,525.89	108.88	31.59	96.43	1,590.94	-431.83	5,220.62	5,140.18	80.43	64.906		
9,550.00	7,593.55	7,662.31	7,537.18	108.86	31.58	94.20	1,583.85	-431.94	5,234.01	5,153.51	80.50	65.020		
9,600.00	7,607.46	7,675.28	7,548.08	108.80	31.57	92.44	1,576.80	-432.10	5,245.26	5,164.66	80.59	65.084		
9,650.00	7,618.11	7,705.00	7,572.68	108.71	31.55	91.25	1,560.14	-432.70	5,254.38	5,173.73	80.65	65.149		
9,700.00	7,625.41	7,729.13	7,740.17	108.59	31.29	91.89	1,412.07	-432.86	5,260.50	5,180.87	79.64	66.057		
9,750.00	7,629.30	7,988.00	7,777.14	108.45	31.21	91.78	1,366.27	-431.88	5,263.29	5,183.82	79.47	66.232		
9,781.81	7,630.00	7,973.00	7,768.05	108.35	31.23	91.60	1,378.21	-432.14	5,263.90	5,184.15	79.75	66.007		
9,800.00	7,630.00	7,973.00	7,768.05	108.29	31.23	91.60	1,378.21	-432.14	5,264.03	5,184.18	79.85	65.923		
9,900.00	7,630.00	8,013.42	7,791.99	107.97	31.16	91.86	1,345.65	-431.83	5,265.36	5,185.22	80.14	65.704		
10,000.00	7,630.00	10,000.00	7,835.20	107.67	29.80	92.33	1,273.55	-432.75	5,268.29	5,188.74	79.55	66.227		
10,100.00	7,630.00	8,418.00	7,933.79	107.38	30.48	93.40	970.94	-432.18	5,270.08	5,191.87	78.21	67.386		
10,200.00	7,630.00	8,474.13	7,937.66	107.10	30.42	93.45	914.95	-431.63	5,269.25	5,190.82	78.43	67.187		
10,229.20	7,630.00	8,488.17	7,938.19	107.03	30.41	93.45	900.93	-431.62	5,269.20	5,190.68	78.52	67.109		
10,300.00	7,630.00	8,548.11	7,939.37	106.84	30.39	93.46	841.00	-431.89	5,269.34	5,190.76	78.58	67.060		
10,400.00	7,630.00	8,694.71	7,943.04	106.59	30.65	93.50	694.45	-431.82	5,269.13	5,190.63	78.50	67.123		
10,453.07	7,630.00	8,710.12	7,943.44	106.46	30.71	93.51	679.04	-431.84	5,268.98	5,190.18	78.81	66.859		
10,500.00	7,630.00	8,730.02	7,943.95	106.35	30.79	93.51	659.15	-431.92	5,269.11	5,190.07	79.04	66.662		
10,600.00	7,630.00	8,774.00	7,945.07	106.13	30.99	93.53	615.18	-432.48	5,270.17	5,190.60	79.57	66.231		
10,700.00	7,630.00	9,024.30	7,952.25	105.92	32.59	93.60	365.01	-431.85	5,268.91	5,188.82	80.08	65.793		
10,800.00	7,630.00	9,145.05	7,951.81	105.72	33.54	93.60	244.27	-430.61	5,267.55	5,186.59	80.96	65.063		
10,900.00	7,630.00	9,191.30	7,952.18	105.54	33.94	93.61	198.02	-430.31	5,266.49	5,184.70	81.79	64.390		
11,000.00	7,630.00	9,309.00	7,954.67	105.37	35.01	93.63	80.35	-429.41	5,265.50	5,182.55	82.96	63.474		
11,097.53	7,630.00	9,355.05	7,955.65	105.21	35.45	93.64	34.32	-429.04	5,264.78	5,180.91	83.88	62.768		
11,100.00	7,630.00	9,355.79	7,955.66	105.21	35.46	93.64	33.57	-429.04	5,264.78	5,180.89	83.90	62.753		
11,200.00	7,630.00	9,398.00	7,956.41	105.06	35.87	93.65	-8.62	-429.54	5,265.53	5,180.69	84.83	62.068		
11,300.00	7,630.00	9,698.66	7,963.20	104.93	39.10	93.73	-309.17	-428.72	5,265.69	5,177.86	87.83	59.956		
11,400.00	7,630.00	9,754.00	7,964.46	104.82	39.74	93.74	-364.48	-427.17	5,263.03	5,173.97	89.06	59.096		
11,500.00	7,630.00	9,808.29	7,965.91	104.72	40.39	93.76	-418.74	-426.11	5,261.24	5,170.92	90.33	58.248		
11,585.26	7,630.00	9,843.00	7,967.16	104.64	40.80	93.77	-453.42	-426.07	5,260.92	5,169.62	91.31	57.619		
11,600.00	7,630.00	9,843.00	7,967.16	104.63	40.80	93.77	-453.42	-426.07	5,260.94	5,169.53	91.41	57.554		
11,700.00	7,630.00	9,938.75	7,971.01	104.55	41.97	93.81	-549.09	-426.56	5,261.38	5,168.18	93.20	56.453		
11,800.00	7,630.00	10,130.79	7,973.80	104.50	44.42	93.85	-741.10	-426.38	5,261.21	5,164.94	96.28	54.647		
11,900.00	7,630.00	10,199.00	7,973.16	104.45	45.31	93.84	-809.30	-426.01	5,260.23	5,162.33	97.90	53.730		
12,000.00	7,630.00	10,399.64	7,967.75	104.43	48.04	93.78	-1,009.84	-423.35	5,258.28	5,156.81	101.47	51.822		
12,100.00	7,630.00	10,447.57	7,966.28	104.42	48.71	93.77	-1,057.74	-422.55	5,256.08	5,153.17	102.92	51.072		
12,200.00	7,630.00	10,498.26	7,964.96	104.42	49.42	93.75	-1,108.42	-422.19	5,254.86	5,150.44	104.42	50.323		
12,276.43	7,630.00	10,538.46	7,964.35	104.44	49.98	93.75	-1,148.61	-422.20	5,254.54	5,148.93	105.61	49.753		
12,300.00	7,630.00	10,556.00	7,964.22	104.45	50.23	93.75	-1,166.15	-422.28	5,254.55	5,148.49	106.06	49.544		
12,400.00	7,630.00	10,608.00	7,964.32	104.49	50.96	93.75	-1,218.15	-422.75	5,255.09	5,147.47	107.63	48.827		
12,500.00	7,630.00	10,806.80	7,970.31	104.55	53.83	93.81	-1,416.84	-423.49	5,255.54	5,143.79	111.75	47.028		
12,600.00	7,630.00	10,962.50	7,974.76	104.63	56.14	93.86	-1,572.46	-421.31	5,253.95	5,138.64	115.30	45.567		
12,700.00	7,630.00	11,057.42	7,974.54	104.73	57.57	93.86	-1,667.36	-419.65	5,251.87	5,134.07	117.79	44.586		
12,800.00	7,630.00	11,138.23	7,972.19	104.85	58.80	93.84	-1,748.13	-418.82	5,250.28	5,130.24	120.04	43.739		
12,900.00	7,630.00	11,280.52	7,967.58	104.99	60.97	93.79	-1,890.33	-416.82	5,248.31	5,124.80	123.51	42.491		
13,000.00	7,630.00	11,367.70	7,965.16	105.15	62.32	93.76	-1,977.47	-415.32	5,246.07	5,120.10	125.97	41.646		
13,100.00	7,630.00	11,442.00	7,963.50	105.34	63.48	93.75	-2,051.74	-414.29	5,244.22	5,116.03	128.19	40.911		
13,200.00	7,630.00	11,509.58	7,962.17	105.56	64.53	93.73	-2,119.30	-413.72	5,242.92	5,112.63	130.28	40.242		
13,300.00	7,630.00	11,573.11	7,961.02	105.80	65.52	93.72	-2,182.82	-413.61	5,242.29	5,109.98	132.31	39.622		
13,337.04	7,630.00	11,595.55	7,960.64	105.89	65.87	93.71	-2,205.26	-413.67	5,242.23	5,109.19	133.04	39.403		
13,400.00	7,630.00	11,633.68	7,960.05	106.06	66.47	93.71	-2,243.39	-413.93	5,242.38	5,108.10	134.28	39.041		
13,500.00	7,630.00	11,689.54	7,959.32	106.36	67.35	93.70	-2,299.23	-414.66	5,243.27	5,107.11	136.15	38.510		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,600.00	7,630.00	11,736.00	7,958.87	106.68	68.07	93.69	-2,345.68	-415.63	5,245.03	5,107.20	137.83	38.055		
13,700.00	7,630.00	11,796.75	7,958.30	107.03	69.03	93.69	-2,406.40	-417.43	5,247.65	5,107.84	139.81	37.534		
13,800.00	7,630.00	11,864.43	7,957.53	107.42	70.09	93.68	-2,474.02	-420.09	5,251.12	5,109.16	141.95	36.992		
13,900.00	7,630.00	11,944.28	7,956.70	107.83	71.34	93.67	-2,553.80	-423.49	5,254.98	5,110.60	144.38	36.398		
14,000.00	7,630.00	12,025.02	7,956.08	108.28	72.61	93.66	-2,634.45	-427.31	5,259.30	5,112.47	146.83	35.818		
14,100.00	7,630.00	12,109.34	7,956.90	108.77	75.38	93.66	-2,808.60	-434.71	5,263.37	5,111.89	151.48	34.745		
14,200.00	7,630.00	12,317.86	7,958.03	109.29	77.28	93.67	-2,927.05	-438.76	5,266.56	5,111.66	154.90	34.000		
14,300.00	7,630.00	12,413.01	7,958.99	109.84	78.82	93.68	-3,022.15	-441.36	5,269.03	5,111.24	157.79	33.393		
14,400.00	7,630.00	12,473.87	7,959.08	110.43	79.80	93.68	-3,082.98	-443.46	5,272.16	5,112.29	159.86	32.979		
14,500.00	7,630.00	12,538.00	7,959.18	111.06	80.83	93.68	-3,147.05	-446.22	5,276.08	5,114.06	162.02	32.565		
14,600.00	7,630.00	12,648.08	7,960.01	111.72	82.61	93.68	-3,257.02	-451.13	5,280.25	5,114.95	165.30	31.943		
14,700.00	7,630.00	12,752.83	7,960.76	112.42	84.31	93.69	-3,361.67	-455.60	5,284.22	5,115.74	168.48	31.364		
14,800.00	7,630.00	13,709.97	7,944.98	113.16	100.39	93.54	-4,316.40	-419.69	5,280.08	5,087.52	192.56	27.420		
14,900.00	7,630.00	13,768.17	7,945.88	113.94	101.40	93.56	-4,374.20	-412.90	5,268.19	5,073.36	194.84	27.039		
15,000.00	7,630.00	13,816.31	7,946.58	114.75	102.23	93.57	-4,422.05	-407.68	5,257.14	5,060.28	196.86	26.705		
15,100.00	7,630.00	13,875.00	7,947.50	115.60	103.24	93.58	-4,480.46	-402.04	5,247.19	5,048.05	199.14	26.350		
15,200.00	7,630.00	13,900.22	7,947.90	116.48	103.67	93.59	-4,505.59	-399.89	5,238.21	5,037.64	200.57	26.116		
15,300.00	7,630.00	13,938.55	7,948.45	117.40	104.33	93.60	-4,543.79	-397.00	5,230.45	5,028.13	202.31	25.853		
15,400.00	7,630.00	13,964.00	7,948.77	118.35	104.77	93.60	-4,569.19	-395.34	5,223.90	5,020.18	203.71	25.644		
15,500.00	7,630.00	14,016.39	7,949.45	119.34	105.67	93.61	-4,621.50	-392.52	5,218.42	5,012.65	205.77	25.360		
15,600.00	7,630.00	14,053.00	7,950.00	120.35	106.29	93.62	-4,658.08	-391.03	5,214.15	5,006.74	207.41	25.139		
15,700.00	7,630.00	14,090.33	7,950.54	121.40	106.93	93.63	-4,695.39	-389.96	5,211.09	5,002.04	209.05	24.928		
15,800.00	7,630.00	14,142.00	7,951.15	122.48	107.81	93.63	-4,747.05	-389.31	5,209.35	4,998.31	211.04	24.684		
15,878.74	7,630.00	14,142.00	7,951.15	123.34	107.81	93.63	-4,747.05	-389.31	5,208.75	4,997.25	211.51	24.627		
15,900.00	7,630.00	14,142.00	7,951.15	123.58	107.81	93.63	-4,747.05	-389.31	5,208.80	4,997.17	211.63	24.613		
16,000.00	7,630.00	14,190.89	7,951.54	124.71	108.63	93.64	-4,795.93	-389.64	5,209.45	4,995.95	213.50	24.400		
16,100.00	7,630.00	14,231.00	7,951.67	125.87	109.31	93.64	-4,836.03	-390.65	5,211.51	4,996.40	215.11	24.227		
16,200.00	7,630.00	14,289.96	7,951.71	127.05	110.30	93.64	-4,894.96	-392.72	5,214.58	4,997.36	217.22	24.006		
16,300.00	7,630.00	14,615.26	7,953.33	128.26	115.81	93.65	-5,220.15	-398.14	5,216.38	4,989.67	226.70	23.010		
16,400.00	7,630.00	14,677.00	7,954.66	129.48	116.86	93.67	-5,281.87	-397.76	5,215.63	4,986.66	228.97	22.779		
16,456.83	7,630.00	14,720.26	7,955.60	130.19	117.60	93.68	-5,325.12	-397.70	5,215.47	4,984.99	230.48	22.629		
16,500.00	7,630.00	14,744.35	7,956.09	130.73	118.01	93.68	-5,349.20	-397.79	5,215.55	4,984.17	231.38	22.541		
16,600.00	7,630.00	14,800.54	7,957.10	132.00	118.97	93.69	-5,405.38	-398.36	5,216.33	4,982.87	233.47	22.343		
16,700.00	7,630.00	14,855.00	7,957.78	133.29	119.89	93.70	-5,459.83	-399.38	5,217.96	4,982.46	235.50	22.157		
16,800.00	7,630.00	14,910.60	7,958.14	134.59	120.83	93.70	-5,515.40	-400.92	5,220.44	4,982.91	237.54	21.977		
16,900.00	7,630.00	14,975.62	7,958.21	135.91	121.93	93.70	-5,580.38	-403.33	5,223.77	4,983.94	239.83	21.781		
17,000.00	7,630.00	15,160.48	7,960.96	137.25	125.07	93.73	-5,765.11	-409.33	5,226.96	4,981.38	245.58	21.284		
17,100.00	7,630.00	15,285.86	7,965.98	138.61	127.21	93.78	-5,890.37	-411.60	5,228.69	4,979.05	249.64	20.945		
17,200.00	7,630.00	15,403.56	7,970.05	139.97	129.23	93.83	-6,007.99	-413.22	5,229.95	4,976.45	253.49	20.631		
17,300.00	7,630.00	15,486.08	7,972.54	141.36	130.64	93.85	-6,090.45	-414.45	5,231.30	4,974.96	256.34	20.408		
17,400.00	7,630.00	15,642.99	7,977.65	142.75	133.33	93.91	-6,247.27	-416.16	5,232.28	4,970.96	261.32	20.022		
17,500.00	7,630.00	15,732.68	7,980.37	144.16	134.88	93.94	-6,336.92	-416.66	5,232.72	4,968.33	264.39	19.792		
17,600.00	7,630.00	15,847.60	7,984.42	145.58	136.85	93.98	-6,451.77	-417.34	5,233.23	4,965.04	268.19	19.513		
17,700.00	7,630.00	15,903.56	7,986.30	147.01	137.82	94.00	-6,507.69	-417.88	5,234.03	4,963.74	270.29	19.364		
17,800.00	7,630.00	15,972.92	7,988.46	148.45	139.01	94.03	-6,577.01	-418.99	5,235.50	4,962.73	272.77	19.194		
17,900.00	7,630.00	16,046.04	7,990.88	149.91	140.26	94.05	-6,650.07	-420.53	5,237.50	4,962.15	275.35	19.021		
18,000.00	7,630.00	16,117.49	7,993.30	151.37	141.49	94.08	-6,721.46	-422.40	5,240.02	4,962.14	277.88	18.857		
18,100.00	7,630.00	16,191.00	7,995.68	152.84	142.75	94.10	-6,794.89	-424.81	5,243.16	4,962.70	280.46	18.695		
18,200.00	7,630.00	16,235.28	7,997.00	154.32	143.50	94.11	-6,839.11	-426.62	5,247.05	4,964.90	282.14	18.597		
18,300.00	7,630.00	16,291.38	7,998.50	155.81	144.46	94.13	-6,895.12	-429.44	5,251.87	4,967.71	284.17	18.482		
18,400.00	7,630.00	16,383.67	8,001.17	157.31	146.03	94.15	-6,987.24	-434.39	5,257.11	4,969.82	287.29	18.299		
18,500.00	7,630.00	16,459.00	8,002.93	158.81	147.31	94.17	-7,062.42	-438.77	5,262.72	4,972.83	289.89	18.154		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,600.00	7,630.00	16,547.61	8,004.40	160.32	148.82	94.18	-7,150.85	-444.25	5,268.68	4,975.78	292.89	17.988	
18,700.00	7,630.00	16,650.31	8,006.01	161.84	150.57	94.19	-7,253.34	-450.61	5,274.63	4,978.29	296.34	17.799	
18,800.00	7,630.00	17,065.58	8,000.56	163.37	157.68	94.12	-7,668.11	-467.33	5,280.12	4,970.96	309.16	17.079	
18,900.00	7,630.00	17,518.85	7,993.37	164.90	165.59	94.05	-8,120.81	-455.75	5,278.32	4,956.13	322.20	16.382	
19,000.00	7,630.00	17,647.02	7,998.73	166.43	167.85	94.12	-8,248.56	-446.85	5,271.35	4,944.98	326.37	16.151	
19,100.00	7,630.00	17,763.69	8,003.68	167.98	169.91	94.18	-8,364.80	-438.19	5,263.90	4,933.64	330.25	15.939	
19,200.00	7,630.00	17,796.00	8,005.06	169.53	170.48	94.20	-8,396.99	-435.76	5,256.80	4,924.83	331.96	15.836	
19,300.00	7,630.00	17,796.00	8,005.06	171.08	170.48	94.20	-8,396.99	-435.76	5,251.49	4,918.74	332.75	15.782	
19,400.00	7,630.00	17,796.00	8,005.06	172.64	170.48	94.20	-8,396.99	-435.76	5,248.08	4,914.65	333.43	15.740	
19,500.00	7,630.00	17,796.00	8,005.06	174.21	170.48	94.20	-8,396.99	-435.76	5,246.58	4,912.57	334.01	15.708	
19,518.56	7,630.00	17,796.00	8,005.06	174.50	170.48	94.20	-8,396.99	-435.76	5,246.51	4,912.41	334.11	15.703 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-53.95	786.89	-1,081.06	1,337.15					
100.00	100.00	89.72	89.72	0.13	0.15	-53.95	786.86	-1,081.09	1,337.12	1,336.84	0.28	4,713.639	CC	
200.00	200.00	189.41	189.41	0.49	0.32	-53.96	786.77	-1,081.19	1,337.16	1,336.35	0.81	1,654.962		
300.00	300.00	289.09	289.09	0.85	0.48	-53.97	786.62	-1,081.37	1,337.21	1,335.88	1.33	1,003.714		
400.00	400.00	386.80	386.79	1.21	0.77	-53.98	786.54	-1,081.59	1,337.34	1,335.37	1.98	675.895	ES	
500.00	499.98	483.67	483.66	1.56	1.11	-120.73	786.89	-1,081.76	1,338.59	1,335.92	2.67	501.286		
600.00	599.84	580.43	580.43	1.92	1.44	-120.84	787.68	-1,081.89	1,341.86	1,338.50	3.36	399.096		
700.00	699.45	684.03	684.03	2.29	1.81	-121.06	788.42	-1,082.09	1,346.92	1,342.84	4.09	329.593		
800.00	798.70	788.61	788.53	2.67	2.17	-121.26	791.52	-1,080.12	1,353.45	1,348.63	4.83	280.476		
900.00	897.47	890.08	889.84	3.07	2.53	-121.46	796.07	-1,076.83	1,361.58	1,356.01	5.57	244.431		
1,000.00	995.62	994.84	994.31	3.50	2.90	-121.68	802.23	-1,072.10	1,371.35	1,364.99	6.35	215.801		
1,100.00	1,093.06	1,089.13	1,088.05	3.96	3.25	-121.82	810.26	-1,065.98	1,382.85	1,375.71	7.14	193.804		
1,200.00	1,189.64	1,235.26	1,233.15	4.46	3.81	-122.26	822.27	-1,053.56	1,394.27	1,386.13	8.15	171.180		
1,300.00	1,285.27	1,320.86	1,318.12	5.00	4.14	-122.51	828.70	-1,045.49	1,406.69	1,397.72	8.97	156.870		
1,400.00	1,379.82	1,399.82	1,396.22	5.60	4.45	-122.67	837.31	-1,037.74	1,422.53	1,412.73	9.81	145.056		
1,500.00	1,473.17	1,482.87	1,477.65	6.25	4.80	-122.72	850.32	-1,027.98	1,441.28	1,430.57	10.72	134.485		
1,600.00	1,565.21	1,562.27	1,555.05	6.95	5.16	-122.70	865.21	-1,018.41	1,463.26	1,451.60	11.66	125.458		
1,700.00	1,655.84	1,654.39	1,645.10	7.72	5.57	-122.83	881.71	-1,008.15	1,487.56	1,474.85	12.71	117.023		
1,800.00	1,744.94	1,723.97	1,713.36	8.55	5.88	-122.89	893.55	-1,001.75	1,514.99	1,501.31	13.68	110.759		
1,900.00	1,832.39	1,848.82	1,835.92	9.45	6.43	-123.47	914.46	-990.43	1,544.57	1,529.61	14.96	103.231		
2,000.00	1,918.11	1,946.68	1,932.12	10.41	6.87	-123.91	929.21	-980.15	1,574.30	1,558.16	16.14	97.515		
2,100.00	2,001.97	2,030.78	2,014.87	11.45	7.25	-124.25	942.01	-972.29	1,607.29	1,590.01	17.29	92.981		
2,200.00	2,083.88	2,184.70	2,166.17	12.56	7.94	-125.42	964.08	-954.79	1,640.68	1,621.86	18.82	87.180		
2,300.00	2,163.74	2,257.00	2,237.18	13.74	8.27	-125.69	974.07	-945.57	1,675.18	1,655.21	19.97	83.898		
2,400.00	2,241.45	2,326.08	2,305.03	14.99	8.59	-125.90	984.08	-937.32	1,713.06	1,691.94	21.12	81.124		
2,421.22	2,257.65	2,340.51	2,319.20	15.26	8.65	-125.94	986.23	-935.67	1,721.53	1,700.17	21.36	80.590		
2,500.00	2,317.63	2,391.85	2,369.63	16.29	8.89	-126.60	994.05	-930.04	1,753.77	1,731.52	22.25	78.816		
2,600.00	2,393.75	2,458.61	2,435.22	17.62	9.19	-127.44	1,004.50	-923.34	1,796.08	1,772.71	23.37	76.845		
2,700.00	2,469.88	2,529.96	2,505.42	18.95	9.52	-128.32	1,015.49	-916.87	1,839.65	1,815.15	24.50	75.091		
2,800.00	2,546.01	2,600.39	2,574.83	20.30	9.83	-129.17	1,026.03	-911.14	1,884.35	1,858.76	25.60	73.611		
2,900.00	2,622.13	2,670.95	2,644.37	21.65	10.15	-130.00	1,036.79	-905.85	1,930.16	1,903.48	26.68	72.348		
3,000.00	2,698.26	2,765.68	2,737.51	23.01	10.58	-131.03	1,052.39	-898.52	1,976.59	1,948.67	27.91	70.814		
3,100.00	2,774.38	2,944.05	2,912.20	24.37	11.42	-132.75	1,083.22	-880.03	2,021.97	1,992.27	29.70	68.078		
3,200.00	2,850.51	3,046.05	3,011.92	25.74	11.91	-133.67	1,099.66	-866.28	2,064.37	2,033.38	30.98	66.629		
3,300.00	2,926.64	3,103.29	3,067.96	27.11	12.19	-134.18	1,108.70	-858.91	2,107.54	2,075.57	31.96	65.936		
3,400.00	3,002.76	3,244.81	3,206.86	28.49	12.85	-135.45	1,128.91	-840.93	2,151.05	2,117.61	33.43	64.339		
3,500.00	3,078.89	3,330.27	3,290.56	29.87	13.26	-136.18	1,140.87	-828.47	2,193.04	2,158.49	34.55	63.471		
3,600.00	3,155.02	3,385.92	3,345.25	31.25	13.51	-136.66	1,148.00	-821.07	2,236.18	2,200.72	35.46	63.058		
3,700.00	3,231.14	3,449.16	3,407.55	32.63	13.80	-137.21	1,155.79	-813.55	2,280.71	2,244.32	36.39	62.672		
3,800.00	3,307.27	3,516.81	3,474.10	34.01	14.11	-137.75	1,165.20	-805.83	2,326.26	2,288.92	37.34	62.296		
3,900.00	3,383.39	3,590.37	3,546.33	35.40	14.46	-138.30	1,176.51	-797.70	2,372.65	2,334.32	38.33	61.896		
4,000.00	3,459.52	3,681.61	3,635.91	36.79	14.89	-138.95	1,190.56	-787.61	2,419.29	2,379.85	39.44	61.343		
4,100.00	3,535.65	3,774.44	3,726.91	38.18	15.33	-139.57	1,205.63	-777.19	2,466.17	2,425.61	40.56	60.805		
4,200.00	3,611.77	3,878.02	3,828.30	39.57	15.83	-140.24	1,222.29	-764.09	2,511.88	2,470.13	41.75	60.164		
4,300.00	3,687.90	3,923.93	3,873.35	40.96	16.04	-140.53	1,229.44	-758.85	2,558.87	2,516.35	42.51	60.187		
4,400.00	3,764.02	3,977.14	3,925.68	42.35	16.29	-140.87	1,237.57	-753.67	2,607.34	2,564.03	43.31	60.204		
4,500.00	3,840.15	4,081.95	4,028.85	43.74	16.77	-141.54	1,252.92	-743.43	2,655.93	2,611.47	44.46	59.742		
4,600.00	3,916.28	4,163.20	4,108.71	45.13	17.15	-142.02	1,265.46	-735.26	2,704.59	2,659.15	45.44	59.520		
4,700.00	3,992.40	4,244.19	4,188.17	46.53	17.53	-142.46	1,278.81	-727.02	2,753.43	2,707.00	46.43	59.303		
4,800.00	4,068.53	4,304.03	4,246.93	47.92	17.81	-142.78	1,288.59	-721.30	2,802.92	2,755.68	47.25	59.324		
4,900.00	4,144.66	4,473.85	4,413.62	49.32	18.62	-143.67	1,315.70	-703.70	2,852.00	2,803.10	48.90	58.328		
5,000.00	4,220.78	4,587.94	4,524.82	50.71	19.19	-144.16	1,336.51	-688.90	2,899.01	2,848.84	50.17	57.786		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,628.06	4,564.00	52.11	19.39	-144.34	1,343.58	-683.91	2,946.54	2,895.69	50.85	57.948		
5,200.00	4,373.03	4,677.00	4,611.89	53.51	19.63	-144.55	1,352.17	-678.68	2,995.55	2,943.97	51.58	58.076		
5,300.00	4,449.16	4,797.42	4,729.87	54.90	20.20	-145.08	1,372.69	-666.04	3,045.06	2,992.20	52.86	57.601		
5,400.00	4,525.29	4,929.85	4,859.58	56.30	20.85	-145.66	1,393.70	-649.56	3,092.61	3,038.40	54.21	57.045		
5,500.00	4,601.41	4,987.69	4,916.16	57.70	21.13	-145.89	1,403.18	-642.24	3,140.30	3,085.30	55.00	57.098		
5,600.00	4,677.54	5,033.00	4,960.57	59.10	21.35	-146.08	1,410.51	-637.01	3,189.04	3,133.37	55.67	57.282		
5,700.00	4,753.66	5,087.23	5,013.86	60.49	21.60	-146.31	1,418.85	-631.40	3,238.81	3,182.42	56.39	57.436		
5,800.00	4,829.79	5,209.31	5,134.23	61.89	22.15	-146.85	1,435.47	-619.65	3,289.36	3,231.76	57.59	57.112		
5,900.00	4,905.92	5,297.08	5,220.78	63.29	22.54	-147.24	1,446.60	-610.23	3,338.80	3,280.27	58.52	57.050		
6,000.00	4,982.04	5,479.60	5,400.22	64.69	23.39	-147.98	1,471.48	-588.13	3,387.39	3,327.23	60.16	56.305		
6,100.00	5,058.17	5,520.04	5,439.86	66.09	23.58	-148.13	1,477.54	-582.84	3,435.14	3,374.36	60.78	56.521		
6,200.00	5,134.30	5,567.00	5,486.01	67.49	23.80	-148.31	1,484.23	-577.35	3,484.09	3,422.67	61.42	56.724		
6,300.00	5,210.42	5,648.84	5,566.52	68.89	24.18	-148.61	1,495.78	-568.30	3,533.71	3,471.38	62.32	56.701		
6,400.00	5,286.55	5,758.18	5,674.03	70.29	24.69	-149.01	1,511.16	-555.70	3,583.02	3,519.59	63.43	56.490		
6,500.00	5,362.67	5,848.98	5,763.36	71.69	25.11	-149.33	1,523.48	-544.95	3,632.13	3,567.75	64.38	56.415		
6,600.00	5,438.80	5,923.00	5,836.05	73.09	25.46	-149.58	1,533.99	-535.81	3,680.96	3,615.74	65.22	56.440		
6,700.00	5,514.93	5,971.18	5,883.43	74.49	25.68	-149.74	1,540.73	-530.18	3,730.54	3,664.69	65.84	56.658		
6,800.00	5,591.05	6,012.00	5,923.72	75.89	25.87	-149.89	1,545.88	-526.17	3,781.45	3,715.06	66.39	56.957		
6,900.00	5,667.18	6,091.94	6,002.69	77.29	26.22	-150.17	1,555.87	-518.82	3,833.07	3,765.84	67.23	57.015		
7,000.00	5,743.30	6,190.42	6,099.84	78.69	26.66	-150.50	1,568.94	-509.36	3,884.45	3,816.22	68.22	56.937		
7,100.00	5,819.43	6,291.08	6,199.10	80.09	27.11	-150.82	1,582.30	-499.32	3,935.58	3,866.35	69.24	56.843		
7,200.00	5,895.56	6,424.38	6,330.50	81.49	27.71	-151.24	1,599.63	-485.02	3,986.17	3,915.68	70.49	56.548		
7,300.00	5,971.68	6,564.02	6,467.82	82.90	28.36	-151.65	1,618.18	-467.85	4,035.34	3,963.54	71.80	56.205		
7,400.00	6,047.81	6,613.71	6,516.73	84.30	28.58	-151.80	1,624.49	-461.74	4,084.66	4,012.25	72.41	56.408		
7,500.00	6,123.94	6,673.34	6,575.55	85.70	28.85	-151.98	1,631.50	-454.89	4,134.73	4,061.65	73.08	56.575		
7,600.00	6,200.06	7,220.07	7,107.78	87.10	30.75	-154.70	1,614.40	-363.43	4,178.61	4,103.27	75.34	55.461		
7,700.00	6,276.19	7,261.00	7,145.58	88.50	30.81	-155.06	1,600.64	-355.93	4,221.30	4,145.71	75.59	55.844		
7,800.00	6,352.31	7,261.00	7,145.58	89.90	30.81	-155.06	1,600.64	-355.93	4,264.80	4,188.88	75.92	56.176		
7,900.00	6,428.44	7,261.00	7,145.58	91.31	30.81	-155.06	1,600.64	-355.93	4,310.17	4,233.96	76.21	56.556		
8,000.00	6,504.57	7,261.00	7,145.58	92.71	30.81	-155.06	1,600.64	-355.93	4,357.37	4,280.90	76.47	56.982		
8,100.00	6,580.69	7,261.00	7,145.58	94.11	30.81	-155.06	1,600.64	-355.93	4,406.34	4,329.64	76.70	57.451		
8,200.00	6,656.82	7,298.63	7,179.97	95.51	30.83	-155.41	1,586.31	-350.61	4,456.21	4,379.41	76.80	58.021		
8,300.00	6,732.95	7,311.53	7,191.65	96.91	30.84	-155.53	1,581.07	-349.08	4,507.87	4,430.92	76.95	58.582		
8,400.00	6,809.07	7,350.00	7,226.12	98.32	30.86	-155.91	1,564.40	-345.43	4,561.36	4,484.36	77.00	59.238		
8,500.00	6,885.20	7,350.00	7,226.12	99.72	30.86	-155.91	1,564.40	-345.43	4,615.56	4,538.43	77.14	59.834		
8,600.00	6,961.32	7,350.00	7,226.12	101.12	30.86	-155.91	1,564.40	-345.43	4,671.28	4,594.03	77.26	60.465		
8,700.00	7,037.45	7,375.12	7,248.27	102.52	30.86	-156.17	1,552.70	-343.53	4,728.34	4,651.07	77.28	61.188		
8,732.15	7,061.92	7,385.55	7,257.36	102.97	30.85	-156.28	1,547.65	-342.76	4,746.90	4,669.63	77.27	61.433		
8,750.00	7,075.57	7,391.32	7,262.37	103.22	30.85	-159.63	1,544.81	-342.34	4,757.27	4,680.01	77.27	61.570		
8,800.00	7,114.27	7,408.06	7,276.78	103.91	30.85	-169.36	1,536.38	-341.15	4,786.62	4,709.38	77.25	61.965		
8,850.00	7,153.47	7,439.00	7,302.97	104.58	30.85	-179.54	1,520.04	-339.04	4,816.26	4,739.09	77.17	62.414		
8,900.00	7,192.85	7,439.00	7,302.97	105.21	30.85	170.42	1,520.04	-339.04	4,845.82	4,768.63	77.19	62.780		
8,950.00	7,232.12	7,462.05	7,322.07	105.80	30.83	160.38	1,507.24	-337.55	4,875.16	4,798.06	77.10	63.228		
9,000.00	7,270.99	7,480.93	7,337.44	106.35	30.82	150.79	1,496.32	-336.39	4,904.03	4,827.01	77.03	63.668		
9,050.00	7,309.16	7,500.34	7,352.95	106.85	30.81	141.81	1,484.73	-335.24	4,932.20	4,855.26	76.93	64.110		
9,100.00	7,346.32	7,528.00	7,374.56	107.30	30.79	133.56	1,467.52	-333.70	4,959.45	4,882.66	76.79	64.582		
9,150.00	7,382.22	7,528.00	7,374.56	107.69	30.79	126.16	1,467.52	-333.70	4,985.58	4,908.80	76.78	64.931		
9,200.00	7,416.56	7,528.00	7,374.56	108.02	30.79	119.54	1,467.52	-333.70	5,010.57	4,933.80	76.77	65.265		
9,250.00	7,449.09	7,567.52	7,404.39	108.29	30.74	113.72	1,441.67	-331.81	5,033.80	4,957.23	76.56	65.747		
9,300.00	7,479.56	7,583.05	7,415.76	108.51	30.72	108.65	1,431.13	-331.20	5,055.57	4,979.09	76.48	66.100		
9,350.00	7,507.74	7,617.00	7,439.95	108.68	30.69	104.31	1,407.32	-330.12	5,075.69	4,999.38	76.31	66.516		
9,400.00	7,533.41	7,617.00	7,439.95	108.79	30.69	100.55	1,407.32	-330.12	5,093.71	5,017.36	76.35	66.720		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,556.39	7,617.00	7,439.95	108.86	30.69	97.36	1,407.32	-330.12	5,109.86	5,033.45	76.40	66.880		
9,500.00	7,576.48	7,617.00	7,439.95	108.88	30.69	94.69	1,407.32	-330.12	5,124.03	5,047.54	76.49	66.992		
9,550.00	7,593.55	7,617.00	7,439.95	108.86	30.69	92.50	1,407.32	-330.12	5,136.13	5,059.53	76.60	67.051		
9,600.00	7,607.46	7,655.28	7,465.98	108.80	30.62	90.98	1,379.26	-329.57	5,145.44	5,068.93	76.51	67.252		
9,650.00	7,618.11	7,664.95	7,472.33	108.71	30.61	89.77	1,371.97	-329.58	5,152.82	5,076.20	76.63	67.247		
9,700.00	7,625.41	7,707.00	7,498.87	108.59	30.54	89.16	1,339.37	-330.29	5,158.34	5,081.78	76.56	67.380		
9,750.00	7,629.30	7,707.00	7,498.87	108.45	30.54	88.73	1,339.37	-330.29	5,160.83	5,084.02	76.81	67.192		
9,781.81	7,630.00	7,707.00	7,498.87	108.35	30.54	88.66	1,339.37	-330.29	5,161.23	5,084.24	76.99	67.040		
9,792.15	7,630.00	7,707.00	7,498.87	108.32	30.54	88.66	1,339.37	-330.29	5,161.22	5,084.17	77.05	66.987		
9,800.00	7,630.00	7,707.00	7,498.87	108.29	30.54	88.66	1,339.37	-330.29	5,161.22	5,084.13	77.09	66.947		
9,900.00	7,630.00	7,707.00	7,498.87	107.97	30.54	88.66	1,339.37	-330.29	5,162.34	5,084.64	77.70	66.435		
10,000.00	7,630.00	7,736.37	7,516.30	107.67	30.48	88.85	1,315.76	-331.38	5,165.13	5,087.00	78.13	66.113		
10,100.00	7,630.00	7,761.96	7,530.69	107.38	30.43	89.01	1,294.64	-332.64	5,169.46	5,090.87	78.59	65.780		
10,200.00	7,630.00	8,235.37	7,671.02	107.10	29.50	90.57	848.05	-341.08	5,169.85	5,094.26	75.59	68.392		
10,300.00	7,630.00	8,308.61	7,675.85	106.84	29.43	90.62	774.98	-340.26	5,168.47	5,092.65	75.82	68.167		
10,400.00	7,630.00	8,541.98	7,680.84	106.59	30.34	90.68	541.78	-334.01	5,164.67	5,089.01	75.66	68.262		
10,500.00	7,630.00	8,597.00	7,681.48	106.35	30.71	90.68	486.78	-332.79	5,161.81	5,085.59	76.22	67.722		
10,600.00	7,630.00	8,624.75	7,681.72	106.13	30.91	90.69	459.03	-332.49	5,159.90	5,083.04	76.86	67.130		
10,700.00	7,630.00	8,686.00	7,682.16	105.92	31.36	90.69	397.78	-331.83	5,158.64	5,081.12	77.52	66.545		
10,766.50	7,630.00	8,715.54	7,682.33	105.79	31.59	90.69	368.25	-331.73	5,158.33	5,080.33	78.00	66.129		
10,800.00	7,630.00	8,724.93	7,682.38	105.72	31.66	90.69	358.86	-331.79	5,158.43	5,080.19	78.24	65.933		
10,900.00	7,630.00	8,775.00	7,682.58	105.54	32.06	90.69	308.80	-332.84	5,159.83	5,080.84	78.98	65.327		
11,000.00	7,630.00	8,789.66	7,682.64	105.37	32.18	90.70	294.15	-333.35	5,162.26	5,082.53	79.73	64.745		
11,100.00	7,630.00	8,864.00	7,683.40	105.21	32.80	90.70	219.86	-336.17	5,165.72	5,085.12	80.60	64.088		
11,200.00	7,630.00	8,941.15	7,684.89	105.06	33.48	90.72	142.80	-339.46	5,169.65	5,088.07	81.58	63.371		
11,300.00	7,630.00	11,300.00	7,688.75	104.93	57.46	90.76	-6.24	-345.73	5,173.69	5,069.66	104.03	49.734		
11,400.00	7,630.00	9,334.23	7,690.96	104.82	37.50	90.79	-250.02	-350.12	5,174.78	5,089.37	85.41	60.591		
11,500.00	7,630.00	9,454.85	7,689.39	104.72	38.90	90.77	-370.63	-350.80	5,175.00	5,087.79	87.21	59.342		
11,600.00	7,630.00	9,581.20	7,687.19	104.63	40.42	90.74	-496.95	-350.85	5,174.68	5,085.46	89.21	58.003		
11,700.00	7,630.00	9,664.59	7,685.20	104.55	41.47	90.72	-580.32	-350.85	5,174.30	5,083.43	90.87	56.939		
11,800.00	7,630.00	9,825.80	7,684.05	104.50	43.55	90.71	-741.51	-350.16	5,173.55	5,079.96	93.59	55.277		
11,900.00	7,630.00	9,964.82	7,683.90	104.45	45.42	90.71	-880.52	-348.17	5,171.80	5,075.57	96.22	53.748		
12,000.00	7,630.00	12,000.00	7,682.01	104.43	73.93	90.69	-1,030.02	-344.43	5,168.84	5,043.36	125.48	41.193		
12,100.00	7,630.00	10,167.31	7,681.16	104.42	48.24	90.68	-1,082.92	-343.09	5,166.05	5,065.35	100.70	51.299		
12,200.00	7,630.00	10,236.17	7,680.71	104.42	49.22	90.67	-1,151.78	-342.19	5,164.31	5,061.79	102.53	50.370		
12,300.00	7,630.00	10,314.40	7,680.22	104.45	50.34	90.67	-1,230.00	-341.14	5,162.69	5,058.16	104.53	49.387		
12,400.00	7,630.00	10,355.55	7,680.47	104.49	50.93	90.67	-1,271.14	-341.02	5,162.07	5,056.12	105.95	48.721		
12,426.14	7,630.00	10,379.00	7,680.85	104.50	51.27	90.68	-1,294.59	-341.16	5,162.13	5,055.59	106.54	48.451		
12,500.00	7,630.00	10,438.36	7,681.95	104.55	52.14	90.69	-1,353.94	-341.60	5,162.41	5,054.31	108.11	47.754		
12,600.00	7,630.00	10,540.11	7,683.52	104.63	53.63	90.70	-1,455.68	-342.12	5,162.60	5,051.97	110.64	46.663		
12,700.00	7,630.00	10,673.40	7,684.70	104.73	55.62	90.72	-1,588.96	-342.47	5,162.54	5,048.73	113.81	45.362		
12,800.00	7,630.00	10,759.57	7,684.28	104.85	56.91	90.71	-1,675.13	-342.40	5,162.14	5,045.99	116.15	44.444		
12,814.24	7,630.00	10,767.40	7,684.27	104.87	57.03	90.71	-1,682.96	-342.42	5,162.13	5,045.73	116.40	44.347		
12,900.00	7,630.00	10,824.00	7,684.80	104.99	57.89	90.72	-1,739.55	-342.86	5,162.46	5,044.36	118.10	43.711		
13,000.00	7,630.00	13,000.00	7,687.24	105.15	91.87	90.75	-2,001.13	-340.56	5,160.94	5,006.90	154.04	33.504		
13,100.00	7,630.00	11,126.69	7,687.40	105.34	62.57	90.75	-2,042.19	-339.72	5,158.79	5,033.14	125.64	41.060		
13,200.00	7,630.00	11,181.00	7,687.98	105.56	63.42	90.76	-2,096.50	-339.88	5,158.32	5,030.84	127.48	40.464		
13,228.03	7,630.00	11,181.00	7,687.98	105.62	63.42	90.76	-2,096.50	-339.88	5,158.24	5,030.57	127.67	40.402		
13,300.00	7,630.00	11,181.00	7,687.98	105.80	63.42	90.76	-2,096.50	-339.88	5,158.74	5,030.58	128.16	40.251		
13,400.00	7,630.00	11,262.02	7,688.79	106.06	64.68	90.76	-2,177.50	-341.41	5,160.31	5,029.74	130.57	39.522		
13,500.00	7,630.00	11,502.90	7,696.98	106.36	68.49	90.85	-2,418.20	-343.55	5,161.19	5,024.63	136.56	37.794		
13,600.00	7,630.00	11,665.23	7,699.32	106.68	71.10	90.88	-2,580.49	-341.31	5,159.42	5,018.52	140.91	36.616		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	11,715.00	7,699.15	107.03	71.91	90.88	-2,630.26	-340.36	5,157.45	5,014.73	142.72	36.137		
13,800.00	7,630.00	11,776.55	7,698.50	107.42	72.90	90.87	-2,691.79	-339.71	5,156.27	5,011.47	144.80	35.609		
13,850.78	7,630.00	11,804.00	7,698.13	107.62	73.35	90.87	-2,719.24	-339.80	5,156.21	5,010.43	145.78	35.371		
13,900.00	7,630.00	11,804.00	7,698.13	107.83	73.35	90.87	-2,719.24	-339.80	5,156.44	5,010.35	146.09	35.295		
14,000.00	7,630.00	11,866.04	7,697.34	108.28	74.35	90.86	-2,781.27	-340.67	5,157.59	5,009.41	148.18	34.806		
14,100.00	7,630.00	11,934.22	7,696.54	108.77	75.45	90.85	-2,849.43	-342.39	5,159.70	5,009.29	150.41	34.303		
14,200.00	7,630.00	12,009.43	7,694.95	109.29	76.66	90.83	-2,924.59	-344.48	5,162.15	5,009.34	152.82	33.780		
14,300.00	7,630.00	12,072.00	7,694.03	109.84	77.67	90.82	-2,987.11	-346.76	5,165.38	5,010.46	154.92	33.342		
14,400.00	7,630.00	12,283.88	7,696.14	110.43	81.11	90.84	-3,198.88	-352.77	5,168.00	5,007.28	160.71	32.157		
14,500.00	7,630.00	12,362.03	7,695.78	111.06	82.39	90.84	-3,277.02	-354.14	5,169.43	5,006.18	163.25	31.666		
14,600.00	7,630.00	12,428.00	7,695.80	111.72	83.47	90.84	-3,342.96	-355.94	5,171.73	5,006.23	165.49	31.251		
14,700.00	7,630.00	12,680.32	7,697.34	112.42	87.64	90.86	-3,595.20	-359.92	5,173.42	5,000.98	172.44	30.000		
14,800.00	7,630.00	12,807.08	7,698.86	113.16	89.76	90.87	-3,721.95	-359.06	5,172.36	4,996.07	176.29	29.340		
14,900.00	7,630.00	12,873.00	7,700.71	113.94	90.86	90.89	-3,787.84	-358.92	5,171.79	4,993.18	178.61	28.956		
14,919.43	7,630.00	12,873.00	7,700.71	114.09	90.86	90.89	-3,787.84	-358.92	5,171.76	4,993.03	178.73	28.936		
15,000.00	7,630.00	12,940.28	7,703.61	114.75	91.99	90.93	-3,855.06	-359.19	5,171.87	4,990.91	180.96	28.580		
15,100.00	7,630.00	13,100.00	7,710.73	115.60	128.40	91.01	-4,027.00	-358.99	5,171.52	4,951.90	219.63	23.547		
15,200.00	7,630.00	13,257.32	7,714.99	116.48	97.33	91.05	-4,171.87	-356.92	5,169.74	4,979.28	190.47	27.143		
15,300.00	7,630.00	13,356.54	7,716.76	117.40	99.01	91.07	-4,271.06	-355.23	5,167.73	4,974.04	193.69	26.680		
15,400.00	7,630.00	13,534.14	7,719.54	118.35	102.02	91.10	-4,448.59	-351.58	5,165.66	4,966.68	198.97	25.962		
15,500.00	7,630.00	13,612.39	7,720.50	119.34	103.36	91.12	-4,526.80	-349.38	5,162.51	4,960.83	201.68	25.597		
15,600.00	7,630.00	13,697.88	7,721.41	120.35	104.81	91.13	-4,612.26	-347.15	5,159.58	4,955.00	204.58	25.220		
15,700.00	7,630.00	13,752.77	7,722.01	121.40	105.75	91.13	-4,667.14	-346.04	5,157.23	4,950.57	206.67	24.954		
15,800.00	7,630.00	13,807.18	7,722.64	122.48	106.68	91.14	-4,721.54	-345.40	5,155.76	4,947.02	208.73	24.700		
15,900.00	7,630.00	13,875.00	7,723.49	123.58	107.83	91.15	-4,789.36	-345.31	5,155.22	4,944.07	211.15	24.415		
15,920.90	7,630.00	13,875.00	7,723.49	123.81	107.83	91.15	-4,789.36	-345.31	5,155.18	4,943.91	211.27	24.401		
16,000.00	7,630.00	13,917.14	7,724.04	124.71	108.54	91.16	-4,831.49	-345.62	5,155.49	4,942.63	212.86	24.220		
16,100.00	7,630.00	14,253.55	7,720.52	125.87	114.29	91.12	-5,167.76	-341.85	5,154.24	4,931.72	222.52	23.163		
16,200.00	7,630.00	14,320.00	7,718.27	127.05	115.43	91.09	-5,234.14	-339.93	5,150.86	4,925.92	224.94	22.899		
16,300.00	7,630.00	14,365.63	7,716.76	128.26	116.22	91.08	-5,279.73	-339.00	5,148.29	4,921.49	226.79	22.700		
16,400.00	7,630.00	14,425.44	7,714.80	129.48	117.24	91.06	-5,339.51	-338.17	5,146.50	4,917.49	229.02	22.472		
16,500.00	7,630.00	14,481.35	7,712.97	130.73	118.20	91.04	-5,395.38	-337.86	5,145.55	4,914.44	231.12	22.264		
16,563.74	7,630.00	14,516.04	7,711.84	131.54	118.79	91.02	-5,430.06	-337.91	5,145.40	4,912.97	232.42	22.138		
16,600.00	7,630.00	14,535.25	7,711.21	132.00	119.12	91.02	-5,449.26	-338.02	5,145.47	4,912.32	233.15	22.069		
16,700.00	7,630.00	14,588.00	7,709.46	133.29	120.02	91.00	-5,501.98	-338.67	5,146.30	4,911.17	235.13	21.887		
16,800.00	7,630.00	14,650.01	7,707.46	134.59	121.08	90.97	-5,563.94	-339.94	5,147.96	4,910.60	237.37	21.688		
16,900.00	7,630.00	14,708.20	7,705.71	135.91	122.06	90.95	-5,622.08	-341.57	5,150.38	4,910.91	239.48	21.507		
17,000.00	7,630.00	14,766.00	7,704.16	137.25	123.05	90.94	-5,679.82	-343.69	5,153.66	4,912.10	241.56	21.335		
17,100.00	7,630.00	14,814.19	7,703.00	138.61	123.86	90.92	-5,727.95	-345.90	5,157.84	4,914.49	243.35	21.195		
17,200.00	7,630.00	14,867.21	7,701.83	139.97	124.76	90.91	-5,780.87	-348.83	5,162.98	4,917.71	245.27	21.050		
17,300.00	7,630.00	14,931.75	7,700.76	141.36	125.84	90.90	-5,845.27	-352.88	5,168.89	4,921.38	247.51	20.883		
17,400.00	7,630.00	14,999.46	7,700.21	142.75	126.98	90.89	-5,912.82	-357.56	5,175.46	4,925.61	249.85	20.715		
17,500.00	7,630.00	15,067.86	7,700.30	144.16	128.13	90.89	-5,981.03	-362.70	5,182.63	4,930.44	252.20	20.550		
17,600.00	7,630.00	15,154.23	7,701.37	145.58	129.58	90.90	-6,067.11	-369.68	5,190.37	4,935.27	255.10	20.347		
17,700.00	7,630.00	15,950.98	7,731.90	147.01	143.26	91.24	-6,862.31	-383.28	5,194.65	4,916.02	278.64	18.643		
17,800.00	7,630.00	16,027.67	7,733.75	148.45	144.60	91.26	-6,938.87	-379.31	5,189.19	4,907.75	281.44	18.438		
17,900.00	7,630.00	16,102.00	7,735.06	149.91	145.90	91.27	-7,013.12	-375.94	5,184.33	4,900.15	284.17	18.244		
18,000.00	7,630.00	16,158.15	7,735.94	151.37	146.88	91.28	-7,069.22	-373.77	5,180.10	4,893.70	286.40	18.087		
18,100.00	7,630.00	16,221.52	7,736.93	152.84	147.99	91.30	-7,132.55	-371.72	5,176.57	4,887.75	288.82	17.923		
18,200.00	7,630.00	16,280.00	7,737.85	154.32	149.01	91.31	-7,191.00	-370.25	5,173.77	4,882.69	291.08	17.774		
18,300.00	7,630.00	16,348.28	7,738.95	155.81	150.20	91.32	-7,259.26	-369.01	5,171.68	4,878.07	293.60	17.614		
18,400.00	7,630.00	16,411.19	7,739.99	157.31	151.29	91.33	-7,322.16	-368.31	5,170.27	4,874.31	295.96	17.469		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,500.00	7,630.00	16,489.56	7,741.35	158.81	152.65	91.35	-7,400.51	-368.02	5,169.57	4,870.81	298.76	17.303	
18,600.00	7,630.00	16,636.45	7,743.99	160.32	155.21	91.37	-7,547.38	-366.92	5,168.54	4,865.01	303.53	17.028	
18,700.00	7,630.00	16,758.72	7,745.89	161.84	157.34	91.40	-7,669.62	-365.15	5,166.79	4,859.20	307.59	16.797	
18,800.00	7,630.00	16,868.44	7,747.45	163.37	159.25	91.41	-7,779.31	-363.18	5,164.69	4,853.39	311.30	16.591	
18,900.00	7,630.00	16,968.47	7,748.85	164.90	160.99	91.43	-7,879.32	-361.33	5,162.54	4,847.80	314.74	16.403	
19,000.00	7,630.00	17,084.79	7,750.49	166.43	163.03	91.45	-7,995.60	-359.04	5,160.27	4,841.64	318.64	16.195	
19,100.00	7,630.00	17,203.63	7,752.26	167.98	165.10	91.47	-8,114.39	-356.23	5,157.61	4,834.99	322.61	15.987	
19,200.00	7,630.00	17,294.61	7,752.81	169.53	166.69	91.48	-8,205.34	-353.92	5,154.76	4,828.96	325.80	15.822	
19,300.00	7,630.00	17,363.04	7,752.74	171.08	167.89	91.48	-8,273.76	-352.54	5,152.40	4,824.06	328.34	15.692	
19,400.00	7,630.00	17,439.55	7,752.31	172.64	169.23	91.47	-8,350.26	-351.50	5,150.67	4,819.56	331.11	15.556	
19,500.00	7,630.00	17,487.00	7,752.00	174.21	170.05	91.47	-8,397.71	-350.91	5,149.35	4,816.34	333.01	15.463	
19,518.56	7,630.00	17,487.00	7,752.00	174.50	170.05	91.47	-8,397.71	-350.91	5,149.28	4,816.17	333.10	15.459 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-53.69	786.89	-1,070.98	1,329.01					
100.00	100.00	93.34	93.34	0.13	0.14	-53.69	786.88	-1,070.84	1,328.86	1,328.59	0.27	4,843.595		
200.00	200.00	193.48	193.48	0.49	0.40	-53.68	786.83	-1,070.47	1,328.55	1,327.66	0.89	1,493.615		
300.00	300.00	290.71	290.71	0.85	0.74	-53.69	786.62	-1,070.44	1,328.39	1,326.80	1.59	836.801		
325.43	325.43	315.43	315.43	0.94	0.82	-53.69	786.54	-1,070.49	1,328.38	1,326.62	1.76	752.632 CC		
400.00	400.00	384.88	384.88	1.21	1.06	-53.70	786.41	-1,070.75	1,328.52	1,326.25	2.27	584.192 ES		
500.00	499.98	477.84	477.84	1.56	1.39	-120.47	786.64	-1,071.33	1,330.06	1,327.11	2.95	450.588		
600.00	599.84	570.66	570.65	1.92	1.71	-120.58	787.33	-1,072.18	1,333.89	1,330.27	3.63	367.489		
700.00	699.45	670.91	670.86	2.29	2.06	-120.73	789.61	-1,072.33	1,339.81	1,335.47	4.34	308.642		
800.00	798.70	794.96	794.55	2.67	2.50	-120.78	797.44	-1,067.60	1,346.70	1,341.55	5.15	261.384		
900.00	897.47	935.45	933.89	3.07	3.02	-120.73	810.06	-1,054.98	1,352.67	1,346.62	6.06	223.289		
1,000.00	995.62	1,033.08	1,030.54	3.50	3.40	-120.73	819.00	-1,044.47	1,359.13	1,352.28	6.85	198.543		
1,100.00	1,093.06	1,127.42	1,123.83	3.96	3.77	-120.77	828.47	-1,034.06	1,367.66	1,360.01	7.65	178.664		
1,200.00	1,189.64	1,229.90	1,225.15	4.46	4.19	-120.92	838.99	-1,022.93	1,378.28	1,369.75	8.53	161.533		
1,300.00	1,285.27	1,372.78	1,365.80	5.00	4.79	-121.24	854.97	-1,003.60	1,389.18	1,379.56	9.62	144.349		
1,400.00	1,379.82	1,460.34	1,451.47	5.60	5.19	-121.34	866.13	-989.40	1,400.50	1,389.95	10.55	132.763		
1,500.00	1,473.17	1,537.55	1,526.92	6.25	5.54	-121.43	877.05	-977.15	1,414.76	1,403.28	11.47	123.317		
1,600.00	1,565.21	1,608.85	1,596.56	6.95	5.88	-121.49	888.13	-966.60	1,432.53	1,420.12	12.41	115.447		
1,700.00	1,655.84	1,704.29	1,689.82	7.72	6.32	-121.73	903.61	-953.54	1,453.49	1,439.99	13.50	107.670		
1,800.00	1,744.94	1,829.96	1,812.91	8.55	6.91	-122.34	921.86	-935.96	1,475.36	1,460.59	14.77	99.875		
1,900.00	1,832.39	1,939.36	1,920.27	9.45	7.42	-122.97	934.96	-919.55	1,497.15	1,481.16	15.99	93.628		
2,000.00	1,918.11	2,011.45	1,991.20	10.41	7.75	-123.32	943.16	-909.65	1,521.98	1,504.93	17.06	89.220		
2,100.00	2,001.97	2,082.88	2,061.55	11.45	8.07	-123.66	951.77	-900.66	1,550.43	1,532.28	18.15	85.437		
2,200.00	2,083.88	2,159.35	2,136.84	12.56	8.41	-124.05	961.57	-891.66	1,582.24	1,562.96	19.28	82.046		
2,300.00	2,163.74	2,234.74	2,211.07	13.74	8.75	-124.41	971.72	-883.22	1,617.25	1,596.81	20.44	79.123		
2,400.00	2,241.45	2,350.20	2,324.58	14.99	9.28	-125.31	987.97	-869.72	1,654.69	1,632.85	21.84	75.768		
2,421.22	2,257.65	2,388.91	2,362.56	15.26	9.46	-125.69	993.30	-864.48	1,662.62	1,640.40	22.22	74.836		
2,500.00	2,317.63	2,469.45	2,441.55	16.29	9.84	-126.77	1,003.59	-852.61	1,691.37	1,668.10	23.27	72.687		
2,600.00	2,393.75	2,532.85	2,503.84	17.62	10.14	-127.60	1,011.61	-843.88	1,729.25	1,704.87	24.38	70.925		
2,700.00	2,469.88	2,597.00	2,566.96	18.95	10.43	-128.43	1,019.80	-835.94	1,768.93	1,743.45	25.47	69.446		
2,800.00	2,546.01	2,726.68	2,694.45	20.30	11.04	-130.02	1,036.45	-819.07	1,808.78	1,781.86	26.91	67.207		
2,900.00	2,622.13	2,877.54	2,842.10	21.65	11.76	-131.72	1,055.21	-794.57	1,846.32	1,817.86	28.46	64.885		
3,000.00	2,698.26	2,955.20	2,918.20	23.01	12.13	-132.60	1,063.33	-781.41	1,883.26	1,853.69	29.57	63.680		
3,100.00	2,774.38	3,043.00	3,003.98	24.37	12.56	-133.51	1,073.70	-765.82	1,920.42	1,889.67	30.75	62.461		
3,200.00	2,850.51	3,102.05	3,061.76	25.74	12.84	-134.11	1,080.61	-755.79	1,958.82	1,927.09	31.73	61.728		
3,300.00	2,926.64	3,154.75	3,113.65	27.11	13.09	-134.68	1,086.01	-748.37	1,999.50	1,966.85	32.65	61.248		
3,400.00	3,002.76	3,221.14	3,178.99	28.49	13.40	-135.34	1,093.79	-739.52	2,041.67	2,008.06	33.61	60.739		
3,500.00	3,078.89	3,324.46	3,280.32	29.87	13.89	-136.28	1,108.03	-725.27	2,084.33	2,049.51	34.82	59.858		
3,600.00	3,155.02	3,427.17	3,380.82	31.25	14.39	-137.15	1,122.59	-709.87	2,126.33	2,090.30	36.03	59.023		
3,700.00	3,231.14	3,499.99	3,452.08	32.63	14.75	-137.74	1,133.05	-699.09	2,168.88	2,131.85	37.03	58.573		
3,800.00	3,307.27	3,582.70	3,533.08	34.01	15.15	-138.40	1,144.79	-687.21	2,212.04	2,173.96	38.08	58.091		
3,900.00	3,383.39	3,644.46	3,593.68	35.40	15.44	-138.89	1,153.27	-678.83	2,256.07	2,217.10	38.97	57.894		
4,000.00	3,459.52	3,773.59	3,720.38	36.79	16.06	-139.88	1,170.56	-660.93	2,300.09	2,259.81	40.29	57.095		
4,100.00	3,535.65	3,838.62	3,784.07	38.18	16.37	-140.34	1,179.67	-651.48	2,343.87	2,302.69	41.18	56.911		
4,200.00	3,611.77	3,905.82	3,849.98	39.57	16.69	-140.81	1,189.07	-642.32	2,388.65	2,346.57	42.08	56.767		
4,300.00	3,687.90	3,972.91	3,915.98	40.96	17.00	-141.29	1,197.61	-633.86	2,434.34	2,391.39	42.95	56.684		
4,400.00	3,764.02	4,046.84	3,988.87	42.35	17.34	-141.83	1,206.39	-625.10	2,480.78	2,436.95	43.83	56.600		
4,500.00	3,840.15	4,192.40	4,132.05	43.74	18.02	-142.81	1,224.33	-606.09	2,526.39	2,481.19	45.20	55.895		
4,600.00	3,916.28	4,337.22	4,273.61	45.13	18.73	-143.66	1,245.00	-583.61	2,570.42	2,523.82	46.60	55.157		
4,700.00	3,992.40	4,392.64	4,327.75	46.53	19.01	-143.97	1,252.77	-574.74	2,614.18	2,566.78	47.39	55.160		
4,800.00	4,068.53	4,478.49	4,411.79	47.92	19.43	-144.45	1,264.62	-561.77	2,658.84	2,610.46	48.37	54.963		
4,900.00	4,144.66	4,580.85	4,511.89	49.32	19.93	-145.00	1,278.82	-545.81	2,703.25	2,653.78	49.47	54.648		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	4,637.41	4,567.22	50.71	20.21	-145.30	1,286.70	-537.09	2,747.99	2,697.76	50.23	54.703		
5,100.00	4,296.91	4,697.54	4,626.21	52.11	20.50	-145.62	1,294.72	-528.65	2,793.96	2,742.95	51.01	54.776		
5,200.00	4,373.03	4,805.87	4,732.54	53.51	21.02	-146.18	1,308.85	-513.50	2,840.15	2,788.04	52.11	54.507		
5,300.00	4,449.16	4,910.11	4,834.50	54.90	21.53	-146.67	1,323.78	-497.78	2,885.58	2,832.38	53.20	54.240		
5,400.00	4,525.29	5,017.09	4,938.93	56.30	22.07	-147.13	1,340.05	-481.22	2,930.89	2,876.56	54.33	53.947		
5,500.00	4,601.41	5,067.38	4,988.00	57.70	22.32	-147.34	1,347.75	-473.35	2,976.26	2,921.23	55.03	54.081		
5,600.00	4,677.54	5,124.00	5,043.58	59.10	22.59	-147.59	1,355.47	-465.80	3,023.30	2,967.55	55.76	54.225		
5,700.00	4,753.66	5,164.26	5,083.23	60.49	22.78	-147.78	1,360.48	-460.97	3,071.41	3,015.08	56.33	54.528		
5,800.00	4,829.79	5,247.93	5,165.70	61.89	23.16	-148.18	1,370.40	-450.94	3,119.97	3,062.77	57.20	54.546		
5,900.00	4,905.92	5,310.89	5,242.75	63.29	24.41	-149.31	1,403.20	-412.92	3,167.05	3,107.70	59.35	53.362		
6,000.00	4,982.04	5,381.24	5,320.46	64.69	24.78	-149.55	1,414.36	-400.69	3,211.28	3,151.08	60.20	53.341		
6,100.00	5,058.17	5,457.39	5,401.12	66.09	25.19	-149.84	1,425.84	-386.98	3,255.90	3,194.80	61.11	53.283		
6,200.00	5,134.30	5,533.52	5,485.25	67.49	25.50	-150.09	1,433.39	-376.74	3,301.06	3,239.22	61.84	53.381		
6,300.00	5,210.42	5,609.65	5,569.38	68.89	25.88	-150.41	1,442.28	-364.35	3,346.83	3,284.16	62.67	53.407		
6,400.00	5,286.55	5,685.78	5,645.11	70.29	26.43	-150.82	1,456.56	-346.14	3,392.51	3,328.75	63.76	53.208		
6,500.00	5,362.67	5,761.91	5,725.24	71.69	26.61	-150.93	1,462.27	-340.25	3,438.37	3,374.05	64.32	53.458		
6,600.00	5,438.80	5,838.04	5,801.37	73.09	26.76	-151.03	1,466.52	-336.13	3,485.76	3,420.96	64.80	53.796		
6,700.00	5,514.93	5,914.17	5,877.50	74.49	26.92	-151.13	1,471.04	-332.03	3,534.66	3,469.37	65.28	54.146		
6,800.00	5,591.05	5,990.30	5,953.63	75.89	27.29	-151.43	1,481.41	-322.26	3,584.39	3,518.26	66.13	54.200		
6,900.00	5,667.18	6,066.43	6,029.76	77.29	28.25	-152.11	1,506.64	-293.89	3,631.60	3,563.71	67.89	53.494		
7,000.00	5,743.30	6,142.56	6,105.89	78.69	28.47	-152.25	1,512.67	-287.33	3,679.05	3,610.58	68.47	53.732		
7,100.00	5,819.43	6,218.69	6,181.92	80.09	28.79	-152.47	1,520.96	-278.19	3,727.43	3,658.22	69.21	53.860		
7,200.00	5,895.56	6,294.82	6,258.05	81.49	29.60	-152.98	1,542.62	-253.73	3,775.27	3,704.55	70.72	53.386		
7,300.00	5,971.68	6,370.95	6,334.18	82.90	30.02	-153.23	1,553.06	-240.22	3,821.64	3,750.06	71.58	53.389		
7,400.00	6,047.81	6,447.08	6,410.31	84.30	30.31	-153.39	1,561.55	-231.39	3,868.93	3,796.65	72.28	53.528		
7,500.00	6,123.94	6,523.21	6,486.44	85.70	30.62	-153.54	1,571.07	-222.65	3,916.86	3,843.86	73.00	53.653		
7,600.00	6,200.06	6,600.34	6,563.57	87.10	32.71	-155.47	1,586.15	-131.71	3,959.91	3,884.29	75.62	52.367		
7,700.00	6,276.19	6,676.47	6,639.70	88.50	32.71	-155.47	1,586.15	-131.71	4,000.65	3,924.69	75.96	52.669		
7,800.00	6,352.31	6,752.59	6,715.82	89.90	32.71	-155.47	1,586.15	-131.71	4,043.46	3,967.20	76.26	53.024		
7,900.00	6,428.44	6,828.72	6,791.95	91.31	32.83	-155.81	1,576.64	-121.88	4,086.86	4,010.33	76.54	53.398		
8,000.00	6,504.57	6,904.85	6,868.08	92.71	32.94	-156.12	1,567.86	-114.83	4,133.08	4,056.28	76.80	53.816		
8,100.00	6,580.69	6,980.98	6,944.21	94.11	32.94	-156.12	1,567.86	-114.83	4,180.02	4,103.00	77.02	54.272		
8,200.00	6,656.82	7,057.11	7,020.34	95.51	32.95	-156.17	1,566.52	-113.91	4,228.81	4,151.60	77.21	54.768		
8,300.00	6,732.95	7,133.24	7,096.47	96.91	33.75	-160.58	1,384.81	-21.34	4,275.35	4,198.81	76.54	55.859		
8,400.00	6,809.07	7,209.37	7,172.60	98.32	33.78	-161.07	1,358.90	-12.39	4,319.78	4,243.20	76.57	56.413		
8,500.00	6,885.20	7,285.50	7,248.73	99.72	33.78	-161.07	1,358.90	-12.39	4,365.44	4,288.63	76.81	56.838		
8,600.00	6,961.32	7,361.63	7,324.86	101.12	33.78	-161.07	1,358.90	-12.39	4,412.89	4,335.89	77.01	57.306		
8,700.00	7,037.45	7,437.76	7,400.99	102.52	33.78	-161.07	1,358.90	-12.39	4,462.08	4,384.91	77.18	57.815		
8,732.15	7,061.92	7,462.23	7,425.46	102.97	33.78	-161.07	1,358.90	-12.39	4,478.26	4,401.03	77.23	57.987		
8,750.00	7,075.57	7,476.38	7,439.61	103.22	33.78	-164.14	1,358.90	-12.39	4,487.32	4,410.06	77.25	58.085		
8,800.00	7,114.27	7,515.08	7,478.31	103.91	33.78	-173.07	1,358.90	-12.39	4,512.92	4,435.59	77.33	58.363		
8,850.00	7,153.47	7,554.28	7,517.51	104.58	33.77	177.32	1,334.79	-5.56	4,538.08	4,460.87	77.21	58.779		
8,900.00	7,192.85	7,593.48	7,556.71	105.21	33.77	167.93	1,329.79	-4.32	4,563.57	4,486.35	77.23	59.094		
8,950.00	7,232.12	7,632.68	7,595.98	105.80	33.77	158.69	1,324.40	-3.04	4,588.78	4,511.55	77.23	59.415		
9,000.00	7,270.99	7,671.88	7,635.11	106.35	33.76	149.59	1,295.29	2.92	4,614.01	4,536.95	77.05	59.880		
9,050.00	7,309.16	7,711.05	7,674.28	106.85	33.76	141.37	1,295.29	2.92	4,637.84	4,560.75	77.09	60.163		
9,100.00	7,346.32	7,750.25	7,713.48	107.30	33.76	133.80	1,295.29	2.92	4,660.89	4,583.77	77.12	60.438		
9,150.00	7,382.22	7,789.45	7,752.68	107.69	33.76	126.95	1,295.29	2.92	4,682.98	4,605.84	77.15	60.703		
9,200.00	7,416.56	7,828.65	7,786.88	108.02	33.76	120.83	1,295.29	2.92	4,703.97	4,626.80	77.18	60.952		
9,250.00	7,449.09	7,867.85	7,830.08	108.29	33.76	115.43	1,295.29	2.92	4,723.71	4,646.50	77.21	61.180		
9,300.00	7,479.56	7,907.05	7,860.28	108.51	33.76	110.69	1,295.29	2.92	4,742.07	4,664.81	77.25	61.384		
9,350.00	7,507.74	7,946.25	7,909.48	108.68	33.72	106.60	1,267.55	7.30	4,758.34	4,681.24	77.10	61.718		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	8,021.71	7,784.47	108.79	33.71	103.12	1,258.87	8.46	4,773.16	4,696.06	77.10	61.906		
9,450.00	7,556.39	8,065.00	7,807.24	108.86	33.67	100.22	1,222.28	12.32	4,786.67	4,709.76	76.91	62.240		
9,500.00	7,576.48	8,065.00	7,807.24	108.88	33.67	97.82	1,222.28	12.32	4,797.48	4,720.46	77.02	62.287		
9,550.00	7,593.55	8,065.00	7,807.24	108.86	33.67	95.88	1,222.28	12.32	4,806.43	4,729.26	77.17	62.286		
9,600.00	7,607.46	8,065.00	7,807.24	108.80	33.67	94.36	1,222.28	12.32	4,813.44	4,736.09	77.34	62.235		
9,650.00	7,618.11	8,065.00	7,807.24	108.71	33.67	93.26	1,222.28	12.32	4,818.47	4,740.92	77.55	62.130		
9,700.00	7,625.41	8,065.00	7,807.24	108.59	33.67	92.56	1,222.28	12.32	4,821.50	4,743.70	77.80	61.971		
9,750.00	7,629.30	8,097.61	7,822.24	108.45	33.60	92.40	1,193.40	14.33	4,822.04	4,744.20	77.84	61.951		
9,781.81	7,630.00	8,104.52	7,825.14	108.35	33.59	92.44	1,187.14	14.66	4,821.40	4,743.42	77.98	61.830		
9,800.00	7,630.00	8,108.47	7,826.75	108.29	33.58	92.46	1,183.53	14.83	4,820.82	4,742.76	78.06	61.755		
9,900.00	7,630.00	8,154.00	7,842.94	107.97	33.50	92.65	1,141.02	15.99	4,818.83	4,740.49	78.33	61.516		
9,989.33	7,630.00	8,154.00	7,842.94	107.70	33.50	92.65	1,141.02	15.99	4,818.00	4,739.05	78.95	61.023		
10,000.00	7,630.00	8,154.00	7,842.94	107.67	33.50	92.65	1,141.02	15.99	4,818.01	4,738.98	79.03	60.967		
10,100.00	7,630.00	8,188.59	7,852.10	107.38	33.42	92.76	1,107.68	16.01	4,818.93	4,739.51	79.41	60.681		
10,200.00	7,630.00	8,243.00	7,860.57	107.10	33.30	92.86	1,053.99	14.83	4,821.30	4,741.71	79.59	60.574		
10,300.00	7,630.00	8,275.37	7,862.96	106.84	33.22	92.89	1,021.73	13.62	4,824.74	4,744.72	80.01	60.299		
10,400.00	7,630.00	8,343.83	7,864.99	106.59	33.08	92.91	953.39	10.52	4,829.06	4,748.97	80.08	60.302		
10,500.00	7,630.00	8,872.81	7,854.22	106.35	33.80	92.79	425.00	12.54	4,823.95	4,745.77	78.18	61.706		
10,600.00	7,630.00	8,925.00	7,852.52	106.13	34.10	92.77	372.85	13.56	4,820.87	4,742.04	78.83	61.158		
10,700.00	7,630.00	8,925.00	7,852.52	105.92	34.10	92.77	372.85	13.56	4,818.64	4,739.14	79.49	60.616		
10,757.51	7,630.00	8,925.00	7,852.52	105.80	34.10	92.77	372.85	13.56	4,818.30	4,738.39	79.90	60.304		
10,800.00	7,630.00	8,925.00	7,852.52	105.72	34.10	92.77	372.85	13.56	4,818.48	4,738.29	80.19	60.086		
10,900.00	7,630.00	8,975.70	7,851.07	105.54	34.41	92.75	322.17	13.00	4,819.49	4,738.56	80.93	59.554		
11,000.00	7,630.00	9,014.00	7,850.20	105.37	34.66	92.74	283.90	11.73	4,822.16	4,740.48	81.67	59.042		
11,100.00	7,630.00	9,065.41	7,849.14	105.21	35.01	92.72	232.55	9.44	4,826.01	4,743.53	82.48	58.511		
11,200.00	7,630.00	9,177.75	7,846.70	105.06	35.84	92.69	120.37	4.19	4,830.26	4,746.79	83.47	57.867		
11,300.00	7,630.00	9,317.99	7,843.64	104.93	37.03	92.65	-19.73	-1.30	4,833.72	4,748.94	84.78	57.018		
11,400.00	7,630.00	9,431.54	7,841.16	104.82	38.09	92.62	-133.19	-5.13	4,836.65	4,750.50	86.15	56.142		
11,500.00	7,630.00	10,261.00	7,821.54	104.72	48.12	92.41	-960.31	31.46	4,830.77	4,734.11	96.66	49.979		
11,600.00	7,630.00	10,306.57	7,820.25	104.63	48.76	92.40	-1,005.54	36.89	4,818.78	4,720.80	97.98	49.183		
11,700.00	7,630.00	10,350.00	7,819.01	104.55	49.38	92.38	-1,048.75	41.01	4,808.50	4,709.23	99.28	48.436		
11,800.00	7,630.00	10,350.00	7,819.01	104.50	49.38	92.38	-1,048.75	41.01	4,799.57	4,699.72	99.85	48.066		
11,900.00	7,630.00	10,386.03	7,817.98	104.45	49.88	92.37	-1,084.67	43.60	4,792.18	4,691.13	101.05	47.423		
12,000.00	7,630.00	10,707.00	7,809.35	104.43	54.53	92.28	-1,404.30	69.65	4,784.31	4,676.83	107.48	44.512		
12,100.00	7,630.00	10,741.18	7,808.39	104.42	55.04	92.27	-1,438.31	72.91	4,774.01	4,665.29	108.72	43.913		
12,200.00	7,630.00	10,796.00	7,806.82	104.42	55.86	92.26	-1,492.88	77.91	4,764.53	4,654.17	110.36	43.173		
12,300.00	7,630.00	10,796.00	7,806.82	104.45	55.86	92.26	-1,492.88	77.91	4,756.70	4,645.77	110.93	42.880		
12,400.00	7,630.00	10,852.03	7,805.23	104.49	56.70	92.24	-1,548.73	81.93	4,749.65	4,637.04	112.61	42.177		
12,500.00	7,630.00	10,885.00	7,804.30	104.55	57.19	92.23	-1,581.66	83.38	4,744.59	4,630.75	113.84	41.678		
12,600.00	7,630.00	10,885.00	7,804.30	104.63	57.19	92.23	-1,581.66	83.38	4,741.18	4,626.77	114.41	41.441		
12,700.00	7,630.00	10,936.63	7,802.85	104.73	57.95	92.21	-1,633.25	84.48	4,738.95	4,622.94	116.01	40.851		
12,800.00	7,630.00	10,974.00	7,801.78	104.85	58.50	92.20	-1,670.61	84.48	4,738.36	4,621.04	117.32	40.389		
12,800.72	7,630.00	10,974.00	7,801.78	104.85	58.50	92.20	-1,670.61	84.48	4,738.36	4,621.04	117.32	40.388		
12,900.00	7,630.00	10,974.00	7,801.78	104.99	58.50	92.20	-1,670.61	84.48	4,739.40	4,621.53	117.87	40.209		
13,000.00	7,630.00	11,019.01	7,800.50	105.15	59.15	92.18	-1,715.59	83.44	4,741.71	4,622.39	119.33	39.738		
13,100.00	7,630.00	11,063.00	7,799.28	105.34	59.78	92.17	-1,759.50	81.21	4,745.89	4,625.14	120.76	39.301		
13,200.00	7,630.00	11,063.00	7,799.28	105.56	59.78	92.17	-1,759.50	81.21	4,751.38	4,630.10	121.28	39.177		
13,300.00	7,630.00	11,096.97	7,798.39	105.80	60.26	92.16	-1,793.37	78.70	4,758.51	4,636.02	122.49	38.850		
13,400.00	7,630.00	11,954.00	7,801.57	106.06	73.32	92.19	-2,646.84	73.09	4,761.39	4,618.89	142.51	33.412		
13,500.00	7,630.00	11,994.52	7,801.90	106.36	73.98	92.20	-2,687.27	75.69	4,754.33	4,610.28	144.05	33.004		
13,600.00	7,630.00	12,078.58	7,802.71	106.68	75.35	92.21	-2,771.16	80.95	4,747.78	4,601.11	146.67	32.370		
13,700.00	7,630.00	12,170.33	7,803.56	107.03	76.85	92.22	-2,862.76	86.30	4,741.64	4,592.14	149.50	31.716		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	12,288.13	7,804.64	107.42	78.78	92.24	-2,980.33	93.51	4,735.21	4,582.21	153.01	30.948		
13,900.00	7,630.00	12,384.03	7,805.46	107.83	80.36	92.25	-3,076.03	99.50	4,728.67	4,572.69	155.98	30.316		
14,000.00	7,630.00	12,518.92	7,806.59	108.28	82.59	92.27	-3,210.63	108.28	4,721.88	4,561.90	159.98	29.515		
14,100.00	7,630.00	14,100.00	7,807.58	108.77	109.28	92.29	-3,447.98	128.40	4,713.00	4,523.57	189.43	24.880		
14,200.00	7,630.00	12,789.60	7,807.62	109.29	87.13	92.29	-3,480.30	131.53	4,703.40	4,535.28	168.12	27.977		
14,300.00	7,630.00	12,811.77	7,807.69	109.84	87.51	92.30	-3,502.40	133.21	4,695.50	4,526.26	169.24	27.745		
14,400.00	7,630.00	12,845.00	7,807.89	110.43	88.07	92.30	-3,535.58	135.05	4,689.30	4,518.68	170.63	27.483		
14,500.00	7,630.00	12,845.00	7,807.89	111.06	88.07	92.30	-3,535.58	135.05	4,684.70	4,513.61	171.10	27.380		
14,600.00	7,630.00	12,881.96	7,808.18	111.72	88.67	92.30	-3,572.51	136.20	4,681.65	4,509.11	172.54	27.134		
14,700.00	7,630.00	12,934.00	7,808.64	112.42	89.53	92.31	-3,624.55	136.29	4,680.59	4,506.22	174.37	26.843		
14,800.00	7,630.00	13,140.10	7,809.21	113.16	92.94	92.32	-3,830.59	139.92	4,678.73	4,498.27	180.46	25.927		
14,900.00	7,630.00	13,210.79	7,809.44	113.94	94.12	92.32	-3,901.25	141.87	4,675.64	4,492.80	182.84	25.573		
15,000.00	7,630.00	13,291.00	7,809.81	114.75	95.46	92.33	-3,981.44	143.91	4,672.83	4,487.34	185.49	25.192		
15,100.00	7,630.00	13,350.10	7,810.08	115.60	96.44	92.33	-4,040.53	145.04	4,670.72	4,483.18	187.54	24.905		
15,200.00	7,630.00	13,464.15	7,810.52	116.48	98.34	92.34	-4,154.58	146.11	4,669.52	4,478.37	191.15	24.429		
15,300.00	7,630.00	13,621.50	7,810.99	117.40	100.98	92.35	-4,311.87	149.96	4,666.55	4,470.54	196.01	23.808		
15,400.00	7,630.00	13,681.34	7,810.97	118.35	101.99	92.35	-4,371.70	151.40	4,663.86	4,465.75	198.11	23.542		
15,500.00	7,630.00	13,736.00	7,811.11	119.34	102.91	92.35	-4,426.35	152.08	4,662.24	4,462.19	200.05	23.306		
15,600.00	7,630.00	13,802.43	7,811.44	120.35	104.02	92.35	-4,492.78	152.34	4,661.48	4,459.16	202.32	23.041		
15,646.21	7,630.00	13,826.00	7,811.59	120.83	104.41	92.36	-4,516.35	152.37	4,661.33	4,458.17	203.15	22.945		
15,700.00	7,630.00	13,857.08	7,811.82	121.40	104.93	92.36	-4,547.43	152.25	4,661.41	4,457.18	204.23	22.824		
15,800.00	7,630.00	14,064.69	7,815.36	122.48	108.41	92.40	-4,754.98	152.55	4,661.27	4,450.60	210.67	22.126		
15,900.00	7,630.00	14,140.72	7,817.10	123.58	109.70	92.42	-4,830.98	153.50	4,659.77	4,446.51	213.25	21.851		
16,000.00	7,630.00	14,626.88	7,829.63	124.71	118.04	92.59	-5,316.27	174.76	4,658.45	4,430.78	227.66	20.462		
16,100.00	7,630.00	14,668.03	7,830.59	125.87	118.75	92.61	-5,357.25	178.35	4,649.50	4,420.11	229.38	20.269		
16,200.00	7,630.00	14,717.00	7,831.74	127.05	119.60	92.62	-5,406.07	181.95	4,641.82	4,410.51	231.31	20.068		
16,300.00	7,630.00	14,717.00	7,831.74	128.26	119.60	92.62	-5,406.07	181.95	4,635.65	4,403.88	231.78	20.000		
16,400.00	7,630.00	14,762.77	7,832.80	129.48	120.39	92.64	-5,451.76	184.30	4,630.75	4,397.22	233.53	19.829		
16,500.00	7,630.00	15,014.47	7,836.00	130.73	124.74	92.68	-5,703.04	197.23	4,625.56	4,384.25	241.31	19.168		
16,600.00	7,630.00	15,073.00	7,836.36	132.00	125.76	92.69	-5,761.47	200.55	4,619.27	4,375.78	243.49	18.971		
16,700.00	7,630.00	15,073.00	7,836.36	133.29	125.76	92.69	-5,761.47	200.55	4,614.05	4,370.13	243.92	18.916		
16,800.00	7,630.00	15,112.72	7,836.72	134.59	126.44	92.70	-5,801.16	201.94	4,610.43	4,364.97	245.47	18.782		
16,900.00	7,630.00	15,162.00	7,837.18	135.91	127.28	92.70	-5,850.44	202.61	4,608.46	4,361.19	247.28	18.637		
16,980.12	7,630.00	15,162.00	7,837.18	136.98	127.28	92.70	-5,850.44	202.61	4,607.76	4,360.29	247.48	18.619		
17,000.00	7,630.00	15,162.00	7,837.18	137.25	127.28	92.70	-5,850.44	202.61	4,607.81	4,360.29	247.52	18.616		
17,100.00	7,630.00	15,201.06	7,837.54	138.61	127.94	92.71	-5,889.49	202.25	4,608.73	4,359.81	248.92	18.515		
17,200.00	7,630.00	15,251.00	7,837.97	139.97	128.78	92.71	-5,939.40	200.51	4,611.46	4,360.82	250.64	18.399		
17,300.00	7,630.00	15,251.00	7,837.97	141.36	128.78	92.71	-5,939.40	200.51	4,615.38	4,364.70	250.68	18.411		
17,400.00	7,630.00	15,305.36	7,838.39	142.75	129.69	92.71	-5,993.67	197.47	4,620.76	4,368.29	252.47	18.302		
17,500.00	7,630.00	15,404.39	7,839.16	144.16	131.33	92.72	-6,092.48	190.79	4,627.20	4,371.44	255.75	18.092		
17,600.00	7,630.00	15,487.85	7,839.80	145.58	132.72	92.72	-6,175.77	185.56	4,633.19	4,374.68	258.51	17.923		
17,700.00	7,630.00	15,571.49	7,840.15	147.01	134.11	92.73	-6,259.20	179.73	4,639.82	4,378.54	261.27	17.758		
17,800.00	7,630.00	15,637.62	7,840.38	148.45	135.20	92.73	-6,325.16	174.98	4,646.75	4,383.32	263.43	17.639		
17,900.00	7,630.00	15,697.00	7,840.87	149.91	136.19	92.73	-6,384.32	169.96	4,654.78	4,389.44	265.34	17.543		
18,000.00	7,630.00	16,320.00	7,845.87	151.37	146.63	92.78	-7,002.09	148.24	4,660.48	4,374.83	285.65	16.316		
18,100.00	7,630.00	16,320.00	7,845.87	152.84	146.63	92.78	-7,002.09	148.24	4,658.72	4,372.78	285.94	16.292		
18,131.95	7,630.00	16,320.00	7,845.87	153.31	146.63	92.78	-7,002.09	148.24	4,658.61	4,372.59	286.01	16.288		
18,200.00	7,630.00	16,320.00	7,845.87	154.32	146.63	92.78	-7,002.09	148.24	4,659.11	4,372.98	286.13	16.283		
18,300.00	7,630.00	16,320.00	7,845.87	155.81	146.63	92.78	-7,002.09	148.24	4,661.64	4,375.43	286.21	16.288		
18,400.00	7,630.00	16,320.00	7,845.87	157.31	146.63	92.78	-7,002.09	148.24	4,666.31	4,380.14	286.18	16.306		
18,500.00	7,630.00	16,365.13	7,845.68	158.81	147.38	92.78	-7,047.17	146.22	4,671.64	4,384.02	287.62	16.242		
18,600.00	7,630.00	16,409.00	7,845.52	160.32	148.11	92.77	-7,090.81	141.84	4,680.08	4,391.09	288.99	16.194		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,700.00	7,630.00	16,409.00	7,845.52	161.84	148.11	92.77	-7,090.81	141.84	4,689.25	4,400.52	288.73	16.241	
18,800.00	7,630.00	16,409.00	7,845.52	163.37	148.11	92.77	-7,090.81	141.84	4,700.52	4,412.16	288.36	16.301	
18,900.00	7,630.00	16,552.45	7,845.15	164.90	150.46	92.76	-7,233.21	124.53	4,712.16	4,418.85	293.31	16.066	
19,000.00	7,630.00	16,638.21	7,844.03	166.43	151.87	92.74	-7,318.37	114.35	4,723.63	4,427.52	296.11	15.952	
19,100.00	7,630.00	16,775.12	7,840.56	167.98	154.12	92.69	-7,454.24	97.95	4,735.23	4,434.43	300.80	15.742	
19,200.00	7,630.00	16,874.38	7,837.33	169.53	155.76	92.64	-7,552.80	86.66	4,746.11	4,442.01	304.11	15.607	
19,300.00	7,630.00	16,964.15	7,833.71	171.08	157.24	92.59	-7,641.90	76.24	4,757.20	4,450.13	307.06	15.493	
19,400.00	7,630.00	17,087.05	7,828.16	172.64	159.27	92.52	-7,763.88	62.37	4,767.93	4,456.68	311.25	15.319	
19,500.00	7,630.00	17,193.47	7,822.67	174.21	161.04	92.44	-7,869.50	50.54	4,778.49	4,463.67	314.82	15.178	
19,518.56	7,630.00	17,214.39	7,821.53	174.50	161.38	92.43	-7,890.26	48.24	4,780.43	4,464.90	315.53	15.151 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.43	786.89	-1,060.90	1,320.91					
100.00	100.00	89.49	89.49	0.13	0.15	-53.44	786.84	-1,060.95	1,320.88	1,320.60	0.28	4,661.215 CC		
200.00	200.00	188.91	188.91	0.49	0.31	-53.45	786.66	-1,061.16	1,320.95	1,320.14	0.81	1,636.161		
300.00	300.00	288.34	288.34	0.85	0.48	-53.47	786.37	-1,061.51	1,321.05	1,319.72	1.33	992.294		
400.00	400.00	385.96	385.96	1.21	0.77	-53.49	786.06	-1,061.97	1,321.25	1,319.26	1.98	667.049 ES		
500.00	499.98	482.79	482.78	1.56	1.12	-120.27	786.05	-1,062.49	1,322.55	1,319.87	2.68	493.683		
600.00	599.84	578.50	578.49	1.92	1.45	-120.39	786.54	-1,062.96	1,325.89	1,322.52	3.37	393.628		
700.00	699.45	742.35	742.21	2.29	2.01	-120.67	788.92	-1,058.12	1,328.82	1,324.53	4.29	310.091		
800.00	798.70	856.04	855.38	2.67	2.41	-120.75	793.30	-1,048.29	1,330.29	1,325.24	5.06	263.134		
900.00	897.47	961.88	960.26	3.07	2.81	-120.75	800.74	-1,036.21	1,333.20	1,327.36	5.84	228.397		
1,000.00	995.62	1,074.34	1,071.01	3.50	3.26	-120.69	811.67	-1,020.07	1,337.06	1,330.36	6.69	199.824		
1,100.00	1,093.06	1,181.56	1,175.96	3.96	3.72	-120.61	824.33	-1,002.10	1,341.95	1,334.37	7.58	177.051		
1,200.00	1,189.64	1,273.99	1,266.22	4.46	4.14	-120.57	836.02	-986.05	1,348.61	1,340.16	8.46	159.466		
1,300.00	1,285.27	1,379.30	1,368.28	5.00	4.66	-120.49	852.20	-965.74	1,357.04	1,347.58	9.46	143.466		
1,400.00	1,379.82	1,461.71	1,447.67	5.60	5.08	-120.37	866.73	-949.13	1,367.80	1,357.39	10.41	131.348		
1,500.00	1,473.17	1,616.48	1,596.67	6.25	5.90	-120.51	893.14	-916.68	1,379.65	1,367.85	11.79	117.013		
1,600.00	1,565.21	1,699.91	1,677.05	6.95	6.35	-120.63	905.48	-898.04	1,390.67	1,377.82	12.85	108.235		
1,700.00	1,655.84	1,810.86	1,783.98	7.72	6.96	-120.94	922.79	-874.06	1,404.57	1,390.48	14.09	99.653		
1,800.00	1,744.94	1,927.69	1,896.20	8.55	7.62	-121.37	939.93	-846.47	1,418.04	1,402.61	15.42	91.944		
1,900.00	1,832.39	1,992.00	1,958.18	9.45	7.97	-121.55	949.42	-832.18	1,434.74	1,418.24	16.51	86.907		
2,000.00	1,918.11	2,101.08	2,063.49	10.41	8.58	-122.14	965.36	-808.65	1,453.99	1,436.13	17.86	81.402		
2,100.00	2,001.97	2,189.97	2,149.31	11.45	9.07	-122.61	978.42	-789.52	1,475.46	1,456.32	19.14	77.081		
2,200.00	2,083.88	2,295.41	2,250.91	12.56	9.66	-123.29	993.77	-765.87	1,498.33	1,477.78	20.55	72.928		
2,300.00	2,163.74	2,365.94	2,319.02	13.74	10.06	-123.64	1,003.92	-750.66	1,524.21	1,502.43	21.78	69.995		
2,400.00	2,241.45	2,426.35	2,377.57	14.99	10.38	-123.88	1,012.86	-738.73	1,554.13	1,531.18	22.95	67.707		
2,421.22	2,257.65	2,438.00	2,388.88	15.26	10.45	-123.91	1,014.61	-736.57	1,561.02	1,537.83	23.20	67.292		
2,500.00	2,317.63	2,487.41	2,436.94	16.29	10.70	-124.56	1,022.09	-727.86	1,587.64	1,563.52	24.12	65.818		
2,600.00	2,393.75	2,549.62	2,497.60	17.62	11.02	-125.38	1,031.59	-717.87	1,623.30	1,598.04	25.26	64.258		
2,700.00	2,469.88	2,700.00	2,685.87	18.95	11.79	-127.77	1,060.16	-683.77	1,658.94	1,631.98	26.95	61.550		
2,800.00	2,546.01	2,851.18	2,789.90	20.30	12.65	-128.97	1,075.36	-659.04	1,689.62	1,661.02	28.60	59.080		
2,900.00	2,622.13	2,968.78	2,903.04	21.65	13.32	-130.22	1,091.49	-631.35	1,720.19	1,690.14	30.06	57.233		
3,000.00	2,698.26	3,032.23	2,964.21	23.01	13.69	-130.89	1,099.77	-616.63	1,751.35	1,720.17	31.18	56.166		
3,100.00	2,774.38	3,118.69	3,047.69	24.37	14.18	-131.77	1,111.38	-597.38	1,783.89	1,751.47	32.41	55.035		
3,200.00	2,850.51	3,180.81	3,107.61	25.74	14.53	-132.38	1,120.40	-583.69	1,817.45	1,783.97	33.49	54.275		
3,300.00	2,926.64	3,259.61	3,183.96	27.11	14.96	-133.14	1,131.68	-567.80	1,852.86	1,818.23	34.63	53.503		
3,400.00	3,002.76	3,349.00	3,270.40	28.49	15.45	-133.97	1,144.70	-549.15	1,888.18	1,852.36	35.82	52.708		
3,500.00	3,078.89	3,424.04	3,343.28	29.87	15.86	-134.67	1,154.98	-534.53	1,924.79	1,887.89	36.90	52.166		
3,600.00	3,155.02	3,515.10	3,431.44	31.25	16.36	-135.45	1,168.54	-516.22	1,961.55	1,923.48	38.07	51.526		
3,700.00	3,231.14	3,578.76	3,493.21	32.63	16.71	-135.99	1,178.02	-504.05	1,999.49	1,960.45	39.04	51.213		
3,800.00	3,307.27	3,696.93	3,607.87	34.01	17.35	-136.97	1,194.86	-480.96	2,037.11	1,996.75	40.36	50.479		
3,900.00	3,383.39	3,778.71	3,687.14	35.40	17.80	-137.61	1,207.10	-465.02	2,075.34	2,033.91	41.43	50.098		
4,000.00	3,459.52	3,949.01	3,851.65	36.79	18.76	-138.88	1,231.69	-428.53	2,112.06	2,069.00	43.06	49.047		
4,100.00	3,535.65	4,060.24	3,958.69	38.18	19.40	-139.68	1,246.47	-402.17	2,146.72	2,102.43	44.29	48.468		
4,200.00	3,611.77	4,100.52	3,997.57	39.57	19.62	-139.97	1,251.75	-393.07	2,182.48	2,137.41	45.07	48.427		
4,300.00	3,687.90	4,151.25	4,046.80	40.96	19.91	-140.34	1,258.24	-382.66	2,220.34	2,174.47	45.87	48.404		
4,400.00	3,764.02	4,230.00	4,123.00	42.35	20.34	-140.86	1,269.52	-366.35	2,258.71	2,211.86	46.86	48.205		
4,500.00	3,840.15	4,290.20	4,181.25	43.74	20.67	-141.24	1,278.73	-354.29	2,298.21	2,250.50	47.71	48.174		
4,600.00	3,916.28	4,351.32	4,240.74	45.13	21.00	-141.64	1,287.79	-343.57	2,339.70	2,291.17	48.54	48.205		
4,700.00	3,992.40	4,700.00	4,364.07	46.53	22.90	-142.39	1,307.87	-320.06	2,380.75	2,329.80	50.95	46.726		
4,800.00	4,068.53	4,661.52	4,540.87	47.92	22.72	-143.43	1,334.91	-281.17	2,419.09	2,367.53	51.56	46.918		
4,900.00	4,144.66	4,749.10	4,625.16	49.32	23.23	-143.90	1,347.69	-261.13	2,456.39	2,403.81	52.59	46.712		
5,000.00	4,220.78	4,834.90	4,707.78	50.71	23.73	-144.35	1,360.33	-241.74	2,494.14	2,440.54	53.59	46.538		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	4,954.29	4,822.70	52.11	24.42	-144.97	1,377.39	-214.26	2,531.59	2,476.78	54.81	46.185		
5,200.00	4,373.03	5,029.09	4,894.63	53.51	24.86	-145.34	1,388.27	-196.82	2,568.95	2,513.22	55.73	46.092		
5,300.00	4,449.16	5,086.06	4,949.51	54.90	25.19	-145.62	1,396.68	-184.06	2,607.30	2,550.78	56.52	46.132		
5,400.00	4,525.29	5,146.49	5,007.92	56.30	25.53	-145.91	1,405.51	-171.31	2,646.94	2,589.63	57.31	46.187		
5,500.00	4,601.41	5,218.03	5,077.03	57.70	25.94	-146.23	1,416.84	-156.74	2,687.51	2,629.33	58.18	46.192		
5,600.00	4,677.54	5,315.25	5,171.12	59.10	26.48	-146.67	1,431.32	-137.00	2,728.15	2,668.93	59.22	46.065		
5,700.00	4,753.66	5,374.42	5,228.55	60.49	26.80	-146.95	1,439.57	-125.38	2,769.45	2,709.49	59.96	46.188		
5,800.00	4,829.79	5,440.16	5,292.46	61.89	27.15	-147.25	1,448.82	-113.11	2,811.75	2,751.01	60.73	46.296		
5,900.00	4,905.92	5,502.34	5,449.69	63.29	28.03	-147.93	1,473.01	-81.61	2,853.71	2,791.45	62.25	45.841		
6,000.00	4,982.04	5,568.26	5,530.90	64.69	28.50	-148.28	1,484.84	-64.06	2,894.22	2,831.05	63.17	45.818		
6,100.00	5,058.17	5,752.06	5,594.74	66.09	28.86	-148.56	1,493.64	-50.79	2,935.43	2,871.50	63.93	45.916		
6,200.00	5,134.30	5,823.77	5,664.44	67.49	29.24	-148.87	1,503.07	-36.81	2,977.37	2,912.65	64.72	46.002		
6,300.00	5,210.42	5,979.01	5,814.95	68.89	30.10	-149.49	1,523.73	-4.90	3,018.30	2,952.18	66.12	45.647		
6,400.00	5,286.55	6,076.42	5,909.25	70.29	30.64	-149.88	1,536.35	16.01	3,058.64	2,991.54	67.10	45.584		
6,500.00	5,362.67	6,146.43	5,976.97	71.69	31.03	-150.14	1,545.80	31.03	3,099.14	3,031.26	67.88	45.654		
6,600.00	5,438.80	6,214.43	6,043.00	73.09	31.40	-150.41	1,554.14	44.97	3,140.52	3,071.88	68.63	45.759		
6,700.00	5,514.93	6,295.87	6,122.01	74.49	31.84	-150.71	1,564.98	61.48	3,182.25	3,112.77	69.48	45.799		
6,800.00	5,591.05	6,359.00	6,183.25	75.89	32.19	-150.92	1,573.88	73.91	3,224.62	3,154.41	70.21	45.931		
6,900.00	5,667.18	6,512.31	6,331.58	77.29	33.04	-151.41	1,586.63	105.33	3,266.21	3,194.56	71.65	45.589		
7,000.00	5,743.30	6,575.83	6,392.93	78.69	33.40	-151.60	1,606.19	118.73	3,307.52	3,235.13	72.39	45.692		
7,100.00	5,819.43	6,635.00	6,450.41	80.09	33.72	-151.80	1,614.07	130.33	3,350.05	3,276.98	73.07	45.850		
7,200.00	5,895.56	7,220.96	7,008.30	81.49	36.96	-154.13	1,658.00	279.92	3,390.40	3,314.10	76.30	44.436		
7,300.00	5,971.68	7,260.00	7,043.69	82.90	37.09	-154.53	1,645.83	291.00	3,421.45	3,344.87	76.58	44.678		
7,400.00	6,047.81	7,260.00	7,043.69	84.30	37.09	-154.53	1,645.83	291.00	3,454.20	3,377.21	77.00	44.861		
7,500.00	6,123.94	7,260.00	7,043.69	85.70	37.09	-154.53	1,645.83	291.00	3,489.52	3,412.17	77.36	45.109		
7,600.00	6,200.06	7,260.00	7,043.69	87.10	37.09	-154.53	1,645.83	291.00	3,527.32	3,449.66	77.66	45.419		
7,700.00	6,276.19	7,303.79	7,083.29	88.50	37.16	-154.99	1,630.29	301.39	3,566.18	3,488.46	77.73	45.882		
7,800.00	6,352.31	7,349.00	7,124.14	89.90	37.24	-155.49	1,612.87	309.79	3,608.37	3,530.62	77.74	46.413		
7,900.00	6,428.44	7,349.00	7,124.14	91.31	37.24	-155.49	1,612.87	309.79	3,651.40	3,573.47	77.93	46.852		
8,000.00	6,504.57	7,349.00	7,124.14	92.71	37.24	-155.49	1,612.87	309.79	3,696.64	3,618.56	78.08	47.343		
8,100.00	6,580.69	7,349.00	7,124.14	94.11	37.24	-155.49	1,612.87	309.79	3,744.01	3,665.82	78.19	47.885		
8,200.00	6,656.82	7,384.94	7,156.37	95.51	37.27	-155.90	1,597.92	315.15	3,792.88	3,714.77	78.12	48.554		
8,300.00	6,732.95	7,404.96	7,174.15	96.91	37.28	-156.13	1,589.10	317.80	3,843.48	3,765.40	78.08	49.224		
8,400.00	6,809.07	7,438.00	7,203.18	98.32	37.30	-156.52	1,573.79	321.67	3,895.75	3,817.78	77.97	49.966		
8,500.00	6,885.20	7,452.30	7,215.61	99.72	37.30	-156.69	1,566.89	323.21	3,949.39	3,871.48	77.90	50.695		
8,600.00	6,961.32	7,511.17	7,265.85	101.12	37.31	-157.42	1,536.89	329.57	4,004.17	3,926.55	77.62	51.586		
8,700.00	7,037.45	7,640.47	7,368.93	102.52	37.29	-159.13	1,460.64	345.23	4,059.23	3,982.34	76.88	52.796		
8,732.15	7,061.92	7,652.83	7,378.07	102.97	37.28	-159.30	1,452.49	346.85	4,077.06	4,000.27	76.80	53.088		
8,750.00	7,075.57	7,659.60	7,383.02	103.22	37.28	-162.61	1,447.96	347.73	4,087.03	4,010.28	76.75	53.251		
8,800.00	7,114.27	7,679.41	7,397.25	103.91	37.27	-172.23	1,434.42	350.32	4,115.17	4,038.56	76.61	53.715		
8,850.00	7,153.47	7,705.00	7,415.06	104.58	37.26	177.79	1,416.34	353.64	4,143.43	4,067.00	76.43	54.212		
8,900.00	7,192.85	7,705.00	7,415.06	105.21	37.26	168.02	1,416.34	353.64	4,171.60	4,095.18	76.42	54.584		
8,950.00	7,232.12	7,734.85	7,434.95	105.80	37.22	158.12	1,394.42	357.43	4,199.38	4,123.17	76.21	55.103		
9,000.00	7,270.99	7,752.63	7,446.33	106.35	37.21	148.77	1,380.92	359.63	4,226.63	4,150.55	76.07	55.559		
9,050.00	7,309.16	7,771.09	7,457.74	106.85	37.19	140.02	1,366.59	361.84	4,253.10	4,177.17	75.93	56.011		
9,100.00	7,346.32	7,794.00	7,471.35	107.30	37.17	131.99	1,348.36	364.52	4,278.59	4,202.83	75.76	56.478		
9,150.00	7,382.22	7,794.00	7,471.35	107.69	37.17	124.88	1,348.36	364.52	4,302.93	4,227.17	75.76	56.796		
9,200.00	7,416.56	7,794.00	7,471.35	108.02	37.17	118.52	1,348.36	364.52	4,326.10	4,250.33	75.78	57.091		
9,250.00	7,449.09	7,794.00	7,471.35	108.29	37.17	112.91	1,348.36	364.52	4,347.94	4,272.13	75.80	57.357		
9,300.00	7,479.56	7,794.00	7,471.35	108.51	37.17	108.01	1,348.36	364.52	4,368.29	4,292.44	75.85	57.591		
9,350.00	7,507.74	7,794.00	7,471.35	108.68	37.17	103.75	1,348.36	364.52	4,387.03	4,311.12	75.92	57.785		
9,400.00	7,533.41	7,835.22	7,493.97	108.79	37.09	100.13	1,314.12	368.31	4,402.82	4,327.15	75.67	58.185		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,450.00	7,556.39	7,842.74	7,497.81	108.86	37.08	97.08	1,307.68	368.80	4,417.50	4,341.77	75.72	58.337		
9,500.00	7,576.48	7,883.00	7,516.80	108.88	37.01	94.61	1,272.23	370.33	4,430.92	4,355.42	75.50	58.684		
9,550.00	7,593.55	7,883.00	7,516.80	108.86	37.01	92.58	1,272.23	370.33	4,441.17	4,365.48	75.69	58.676		
9,600.00	7,607.46	7,883.00	7,516.80	108.80	37.01	91.00	1,272.23	370.33	4,449.32	4,373.41	75.92	58.609		
9,650.00	7,618.11	7,883.00	7,516.80	108.71	37.01	89.84	1,272.23	370.33	4,455.35	4,379.17	76.18	58.481		
9,700.00	7,625.41	7,883.00	7,516.80	108.59	37.01	89.08	1,272.23	370.33	4,459.21	4,382.71	76.50	58.291		
9,750.00	7,629.30	7,934.44	7,538.26	108.45	36.89	88.96	1,225.49	371.27	4,460.69	4,384.35	76.34	58.434		
9,781.81	7,630.00	7,984.67	7,557.15	108.35	36.79	89.19	1,178.97	372.49	4,460.10	4,384.03	76.07	58.634		
9,800.00	7,630.00	9,800.00	7,554.91	108.29	36.57	89.16	1,185.36	372.28	4,459.50	4,384.16	75.34	59.189		
9,900.00	7,630.00	8,009.49	7,565.92	107.97	36.72	89.30	1,155.75	372.80	4,457.02	4,380.24	76.78	58.051		
10,000.00	7,630.00	8,062.00	7,583.41	107.67	36.61	89.53	1,106.24	372.55	4,456.38	4,379.30	77.08	57.815		
10,022.91	7,630.00	8,062.00	7,583.41	107.60	36.61	89.53	1,106.24	372.55	4,456.32	4,379.04	77.28	57.666		
10,100.00	7,630.00	8,086.92	7,591.26	107.38	36.55	89.63	1,082.60	372.13	4,456.92	4,379.23	77.69	57.365		
10,200.00	7,630.00	8,184.06	7,619.21	107.10	36.35	89.99	989.60	370.62	4,458.12	4,380.47	77.65	57.410		
10,300.00	7,630.00	8,276.25	7,636.43	106.84	36.18	90.21	899.09	368.92	4,459.67	4,381.99	77.69	57.404		
10,400.00	7,630.00	8,369.11	7,645.63	106.59	36.04	90.33	806.72	367.26	4,461.20	4,383.43	77.77	57.363		
10,500.00	7,630.00	8,644.46	7,660.04	106.35	36.01	90.51	531.93	366.27	4,461.75	4,384.60	77.16	57.828		
10,600.00	7,630.00	8,740.58	7,660.30	106.13	36.20	90.52	435.82	368.02	4,459.60	4,381.89	77.71	57.389		
10,700.00	7,630.00	8,843.12	7,660.55	105.92	36.53	90.52	333.30	369.81	4,457.51	4,379.11	78.40	56.854		
10,800.00	7,630.00	8,969.91	7,660.40	105.72	37.16	90.52	206.53	372.45	4,455.10	4,375.80	79.30	56.182		
10,900.00	7,630.00	9,041.00	7,660.35	105.54	37.60	90.52	135.46	373.82	4,452.79	4,372.57	80.23	55.503		
11,000.00	7,630.00	9,160.71	7,660.22	105.37	38.48	90.52	15.78	376.30	4,450.36	4,368.90	81.46	54.634		
11,100.00	7,630.00	9,251.47	7,660.13	105.21	39.24	90.52	-74.96	378.18	4,447.95	4,365.27	82.68	53.798		
11,200.00	7,630.00	9,377.82	7,660.12	105.06	40.43	90.52	-201.29	380.92	4,445.49	4,361.20	84.29	52.743		
11,300.00	7,630.00	9,493.98	7,658.97	104.93	41.62	90.50	-317.39	384.20	4,442.31	4,356.33	85.98	51.667		
11,400.00	7,630.00	9,536.52	7,657.96	104.82	42.08	90.49	-359.90	385.13	4,439.70	4,352.66	87.05	51.005		
11,500.00	7,630.00	9,576.00	7,656.92	104.72	42.51	90.48	-399.37	385.57	4,438.31	4,350.22	88.09	50.384		
11,600.00	7,630.00	9,650.20	7,656.51	104.63	43.33	90.47	-473.57	385.71	4,437.83	4,348.29	89.54	49.561		
11,700.00	7,630.00	9,764.38	7,659.46	104.55	44.64	90.51	-587.70	385.47	4,437.74	4,346.19	91.56	48.471		
11,770.96	7,630.00	9,818.55	7,660.81	104.51	45.28	90.53	-641.86	385.37	4,437.64	4,344.93	92.71	47.864		
11,800.00	7,630.00	9,843.00	7,661.36	104.50	45.57	90.53	-666.30	385.28	4,437.66	4,344.45	93.21	47.608		
11,900.00	7,630.00	10,057.18	7,666.51	104.45	48.25	90.60	-880.41	387.18	4,436.43	4,339.48	96.96	45.757		
12,000.00	7,630.00	12,000.00	7,669.84	104.43	75.17	90.64	-1,024.60	391.32	4,433.15	4,308.40	124.75	35.536		
12,100.00	7,630.00	10,232.23	7,670.24	104.42	50.57	90.65	-1,055.34	392.12	4,430.40	4,329.40	101.00	43.867		
12,200.00	7,630.00	10,288.00	7,670.22	104.42	51.32	90.65	-1,111.11	392.01	4,429.70	4,327.18	102.51	43.210		
12,240.18	7,630.00	10,288.00	7,670.22	104.43	51.32	90.65	-1,111.11	392.01	4,429.51	4,326.77	102.75	43.112		
12,300.00	7,630.00	10,288.00	7,670.22	104.45	51.32	90.65	-1,111.11	392.01	4,429.92	4,326.84	103.08	42.977		
12,400.00	7,630.00	10,501.97	7,666.57	104.49	54.25	90.60	-1,325.03	391.08	4,430.01	4,322.54	107.47	41.221		
12,500.00	7,630.00	10,616.55	7,663.47	104.55	55.87	90.56	-1,439.56	392.65	4,428.23	4,318.03	110.20	40.184		
12,600.00	7,630.00	12,600.00	7,659.68	104.63	85.19	90.51	-1,559.18	394.43	4,426.35	4,285.54	140.81	31.434		
12,700.00	7,630.00	10,779.66	7,658.19	104.73	58.23	90.49	-1,602.56	395.00	4,424.86	4,310.36	114.49	38.648		
12,745.36	7,630.00	10,795.25	7,657.64	104.78	58.45	90.49	-1,618.15	395.01	4,424.68	4,309.64	115.04	38.462		
12,800.00	7,630.00	10,823.00	7,656.65	104.85	58.86	90.47	-1,645.88	394.75	4,424.91	4,309.03	115.88	38.186		
12,900.00	7,630.00	10,987.96	7,650.44	104.99	61.28	90.39	-1,810.72	394.29	4,424.88	4,305.01	119.86	36.916		
12,991.06	7,630.00	11,039.28	7,648.28	105.14	62.04	90.37	-1,862.00	394.41	4,424.39	4,302.97	121.41	36.441		
13,000.00	7,630.00	11,043.46	7,648.09	105.15	62.10	90.36	-1,866.17	394.39	4,424.39	4,302.85	121.55	36.401		
13,100.00	7,630.00	11,090.50	7,645.73	105.34	62.80	90.33	-1,913.15	393.89	4,425.10	4,302.07	123.04	35.966		
13,200.00	7,630.00	13,200.00	7,636.32	105.56	95.20	90.21	-2,076.99	392.64	4,425.37	4,267.99	157.38	28.118		
13,255.71	7,630.00	11,304.38	7,633.24	105.69	66.02	90.17	-2,126.65	392.60	4,425.23	4,296.66	128.57	34.419		
13,300.00	7,630.00	11,328.51	7,631.73	105.80	66.39	90.15	-2,150.73	392.46	4,425.33	4,296.02	129.32	34.221		
13,400.00	7,630.00	11,423.72	7,625.71	106.06	67.84	90.07	-2,245.74	391.40	4,426.09	4,294.13	131.97	33.539		
13,500.00	7,630.00	11,496.62	7,620.90	106.36	68.95	90.01	-2,318.49	390.64	4,426.84	4,292.73	134.11	33.009		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,600.00	7,630.00	11,558.90	7,616.53	106.68	69.91	89.96	-2,380.60	389.40	4,428.48	4,292.47	136.00	32.561		
13,700.00	7,630.00	11,633.87	7,612.65	107.03	71.06	89.90	-2,455.44	387.35	4,430.87	4,292.65	138.22	32.056		
13,800.00	7,630.00	11,832.21	7,603.60	107.42	74.14	89.79	-2,653.54	383.98	4,432.12	4,288.56	143.57	30.871		
13,900.00	7,630.00	13,900.00	7,596.98	107.83	107.22	89.70	-2,795.44	383.87	4,431.81	4,253.10	178.72	24.798		
13,961.66	7,630.00	12,011.43	7,595.27	108.11	76.97	89.68	-2,832.56	383.96	4,431.54	4,282.77	148.78	29.786		
14,000.00	7,630.00	12,026.21	7,594.54	108.28	77.20	89.67	-2,847.32	383.88	4,431.65	4,282.35	149.30	29.683		
14,100.00	7,630.00	12,071.00	7,592.11	108.77	77.91	89.64	-2,892.04	383.14	4,432.88	4,282.07	150.81	29.394		
14,200.00	7,630.00	12,212.92	7,583.28	109.29	80.17	89.53	-3,033.67	380.90	4,434.16	4,279.28	154.89	28.628		
14,300.00	7,630.00	12,315.89	7,577.52	109.84	81.81	89.45	-3,136.47	379.79	4,434.96	4,276.99	157.97	28.075		
14,400.00	7,630.00	12,466.88	7,574.16	110.43	84.24	89.41	-3,287.41	378.89	4,435.27	4,272.85	162.42	27.307		
14,500.00	7,630.00	12,606.68	7,572.58	111.06	86.51	89.39	-3,427.19	379.66	4,434.38	4,267.75	166.63	26.613		
14,600.00	7,630.00	12,694.00	7,571.45	111.72	87.94	89.37	-3,514.50	380.68	4,432.93	4,263.54	169.39	26.169		
14,700.00	7,630.00	12,751.64	7,570.64	112.42	88.88	89.36	-3,572.13	381.00	4,432.22	4,260.89	171.33	25.870		
14,702.17	7,630.00	12,752.58	7,570.63	112.44	88.89	89.36	-3,573.07	381.00	4,432.22	4,260.86	171.36	25.865		
14,800.00	7,630.00	12,803.35	7,569.80	113.16	89.72	89.35	-3,623.83	380.50	4,432.80	4,259.72	173.08	25.611		
14,900.00	7,630.00	12,879.53	7,569.41	113.94	90.96	89.35	-3,700.00	379.20	4,434.17	4,258.63	175.54	25.261		
15,000.00	7,630.00	13,008.37	7,569.48	114.75	93.06	89.35	-3,828.82	377.12	4,435.44	4,255.90	179.53	24.705		
15,100.00	7,630.00	13,178.91	7,569.22	115.60	95.87	89.34	-3,999.35	376.31	4,435.57	4,250.79	184.77	24.005		
15,200.00	7,630.00	13,259.37	7,570.02	116.48	97.20	89.35	-4,079.81	376.55	4,434.97	4,247.55	187.41	23.664		
15,219.26	7,630.00	13,269.52	7,570.23	116.66	97.36	89.36	-4,089.95	376.53	4,434.95	4,247.18	187.76	23.620		
15,300.00	7,630.00	13,318.00	7,571.68	117.40	98.17	89.38	-4,138.41	376.11	4,435.31	4,245.89	189.41	23.416		
15,400.00	7,630.00	13,479.12	7,578.11	118.35	100.84	89.46	-4,299.40	375.11	4,435.66	4,241.16	194.50	22.806		
15,440.17	7,630.00	15,440.17	7,579.19	118.74	133.65	89.47	-4,324.81	375.17	4,435.44	4,207.42	228.02	19.452		
15,500.00	7,630.00	13,525.20	7,579.98	119.34	101.60	89.48	-4,345.44	375.11	4,435.48	4,239.35	196.13	22.615		
15,600.00	7,630.00	13,556.93	7,580.95	120.35	102.13	89.50	-4,377.15	374.56	4,436.82	4,239.52	197.30	22.487		
15,700.00	7,630.00	13,597.45	7,581.78	121.40	102.80	89.51	-4,417.64	373.21	4,439.69	4,240.98	198.71	22.342		
15,800.00	7,630.00	13,721.43	7,583.72	122.48	104.84	89.53	-4,541.52	368.70	4,443.00	4,240.30	202.70	21.919		
15,900.00	7,630.00	13,865.09	7,584.49	123.58	107.22	89.54	-4,685.12	364.73	4,445.42	4,238.12	207.30	21.444		
16,000.00	7,630.00	14,031.00	7,581.55	124.71	109.99	89.50	-4,850.99	363.18	4,445.65	4,233.07	212.58	20.912		
16,100.00	7,630.00	14,092.05	7,579.99	125.87	111.02	89.48	-4,912.02	362.83	4,446.16	4,231.52	214.65	20.714		
16,200.00	7,630.00	14,216.56	7,577.43	127.05	113.10	89.45	-5,036.48	360.45	4,447.89	4,229.21	218.68	20.340		
16,300.00	7,630.00	14,269.75	7,576.95	128.26	113.99	89.45	-5,089.66	359.51	4,449.26	4,228.76	220.50	20.178		
16,400.00	7,630.00	14,382.71	7,577.61	129.48	115.88	89.45	-5,202.58	356.94	4,451.22	4,227.02	224.21	19.853		
16,500.00	7,630.00	14,434.07	7,577.94	130.73	116.74	89.46	-5,253.93	355.73	4,453.27	4,227.30	225.97	19.708		
16,600.00	7,630.00	14,504.83	7,578.94	132.00	117.92	89.47	-5,324.63	353.18	4,456.44	4,228.11	228.33	19.517		
16,700.00	7,630.00	14,749.67	7,579.83	133.29	122.04	89.48	-5,569.39	348.05	4,458.33	4,222.07	236.26	18.870		
16,800.00	7,630.00	14,995.79	7,578.96	134.59	126.24	89.47	-5,815.49	350.42	4,457.49	4,213.36	244.13	18.259		
16,900.00	7,630.00	15,117.39	7,579.76	135.91	128.33	89.48	-5,937.01	354.54	4,453.71	4,205.55	248.16	17.947		
17,000.00	7,630.00	15,220.43	7,580.14	137.25	130.10	89.49	-6,039.99	358.03	4,449.98	4,198.36	251.63	17.685		
17,100.00	7,630.00	15,338.98	7,580.47	138.61	132.15	89.49	-6,158.45	362.62	4,445.73	4,190.16	255.57	17.395		
17,200.00	7,630.00	15,429.99	7,580.50	139.97	133.72	89.49	-6,249.40	365.96	4,441.72	4,183.04	258.68	17.171		
17,300.00	7,630.00	15,529.32	7,580.47	141.36	135.44	89.49	-6,348.66	369.69	4,437.62	4,175.57	262.05	16.934		
17,400.00	7,630.00	15,628.68	7,580.11	142.75	137.16	89.48	-6,447.96	373.34	4,433.62	4,168.20	265.42	16.704		
17,500.00	7,630.00	15,696.36	7,580.79	144.16	138.33	89.49	-6,515.59	375.56	4,429.99	4,162.17	267.82	16.541		
17,600.00	7,630.00	15,736.00	7,581.84	145.58	139.01	89.51	-6,555.20	376.63	4,427.22	4,157.89	269.32	16.438		
17,700.00	7,630.00	15,783.52	7,583.75	147.01	139.83	89.53	-6,602.68	377.30	4,425.68	4,154.64	271.04	16.328		
17,744.47	7,630.00	15,798.45	7,584.50	147.65	140.09	89.54	-6,617.59	377.30	4,425.51	4,153.91	271.60	16.294		
17,800.00	7,630.00	15,825.00	7,586.00	148.45	140.54	89.56	-6,644.09	377.06	4,425.74	4,153.20	272.54	16.239		
17,900.00	7,630.00	15,870.00	7,588.80	149.91	141.31	89.60	-6,689.00	376.13	4,427.16	4,153.06	274.11	16.151		
18,000.00	7,630.00	15,913.60	7,591.26	151.37	142.05	89.63	-6,732.51	374.81	4,429.73	4,154.14	275.59	16.074		
18,100.00	7,630.00	15,972.33	7,593.67	152.84	143.04	89.66	-6,791.14	372.42	4,433.39	4,155.83	277.56	15.973		
18,200.00	7,630.00	16,069.71	7,596.93	154.32	144.69	89.70	-6,888.37	368.19	4,437.38	4,156.53	280.86	15.799		

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
18,300.00	7,630.00	16,143.70	7,599.05	155.81	145.94	89.73	-6,962.25	364.65	4,441.81	4,158.47	283.34	15.677	
18,400.00	7,630.00	16,251.11	7,601.83	157.31	147.76	89.77	-7,069.48	359.25	4,446.49	4,159.50	286.99	15.493	
18,500.00	7,630.00	16,370.53	7,604.70	158.81	149.78	89.80	-7,188.75	353.81	4,450.68	4,159.61	291.07	15.291	
18,600.00	7,630.00	16,465.58	7,606.63	160.32	151.40	89.83	-7,283.68	349.57	4,454.81	4,160.52	294.29	15.137	
18,700.00	7,630.00	16,569.05	7,607.92	161.84	153.15	89.84	-7,387.03	344.87	4,459.01	4,161.20	297.81	14.973	
18,800.00	7,630.00	16,658.71	7,608.36	163.37	154.67	89.85	-7,476.60	340.80	4,463.22	4,162.38	300.84	14.836	
18,900.00	7,630.00	16,756.55	7,608.12	164.90	156.34	89.85	-7,574.33	336.17	4,467.61	4,163.46	304.15	14.689	
19,000.00	7,630.00	17,081.72	7,627.47	166.43	161.91	90.10	-7,898.67	329.21	4,469.23	4,153.90	315.33	14.173	
19,100.00	7,630.00	17,277.84	7,638.77	167.98	165.32	90.24	-8,094.43	332.47	4,466.97	4,145.05	321.92	13.876	
19,200.00	7,630.00	17,429.50	7,645.31	169.53	167.97	90.33	-8,245.87	337.34	4,463.34	4,136.33	327.02	13.649	
19,300.00	7,630.00	17,546.64	7,649.36	171.08	170.02	90.38	-8,362.85	341.73	4,459.29	4,128.27	331.02	13.471	
19,400.00	7,630.00	17,583.00	7,650.55	172.64	170.66	90.39	-8,399.16	343.18	4,455.44	4,122.96	332.48	13.401	
19,500.00	7,630.00	17,583.00	7,650.55	174.21	170.66	90.39	-8,399.16	343.18	4,453.68	4,121.00	332.68	13.387	
19,518.56	7,630.00	17,583.00	7,650.55	174.50	170.66	90.39	-8,399.16	343.18	4,453.60	4,120.90	332.70	13.386 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.18	786.89	-1,051.10	1,313.05					
100.00	100.00	90.79	90.79	0.13	0.15	-53.18	786.93	-1,051.03	1,312.98	1,312.70	0.29	4,601.050		
200.00	200.00	191.66	191.66	0.49	0.32	-53.17	787.08	-1,050.80	1,312.89	1,312.08	0.81	1,617.785		
300.00	300.00	292.54	292.54	0.85	0.49	-53.15	787.33	-1,050.41	1,312.73	1,311.39	1.34	981.332		
400.00	400.00	392.28	392.28	1.21	0.79	-53.13	787.48	-1,050.05	1,312.53	1,310.54	2.00	657.707		
409.72	409.72	401.93	401.93	1.24	0.82	-119.86	787.47	-1,050.04	1,312.53	1,310.46	2.06	636.087	CC, ES	
500.00	499.98	491.61	491.60	1.56	1.13	-119.93	787.02	-1,050.22	1,313.26	1,310.56	2.69	487.610		
600.00	599.84	594.00	593.99	1.92	1.48	-120.15	785.88	-1,050.93	1,315.78	1,312.37	3.40	386.756		
700.00	699.45	737.07	736.98	2.29	1.99	-120.48	785.75	-1,046.98	1,317.77	1,313.51	4.26	308.984		
800.00	798.70	875.65	874.96	2.67	2.50	-120.64	789.94	-1,035.19	1,318.89	1,313.75	5.13	256.914		
900.00	897.47	985.74	983.78	3.07	2.92	-120.63	797.26	-1,020.33	1,319.86	1,313.93	5.94	222.332		
1,000.00	995.62	1,090.47	1,086.18	3.50	3.37	-120.45	809.23	-1,001.99	1,322.15	1,315.37	6.78	195.054		
1,100.00	1,093.06	1,193.19	1,185.27	3.96	3.85	-120.12	825.49	-980.37	1,325.90	1,318.21	7.69	172.523		
1,200.00	1,189.64	1,270.56	1,259.62	4.46	4.23	-119.86	838.93	-963.78	1,332.03	1,323.50	8.53	156.088		
1,300.00	1,285.27	1,430.44	1,413.06	5.00	5.08	-119.65	865.44	-927.58	1,338.31	1,328.46	9.85	135.801		
1,400.00	1,379.82	1,528.18	1,505.73	5.60	5.65	-119.46	882.90	-901.89	1,344.23	1,333.28	10.95	122.763		
1,500.00	1,473.17	1,600.56	1,574.18	6.25	6.08	-119.31	897.01	-883.05	1,353.07	1,341.10	11.96	113.095		
1,600.00	1,565.21	1,683.31	1,652.47	6.95	6.58	-119.19	914.45	-862.73	1,365.61	1,352.53	13.08	104.384		
1,700.00	1,655.84	1,802.08	1,765.58	7.72	7.29	-119.34	937.41	-834.75	1,379.79	1,365.33	14.45	95.485		
1,800.00	1,744.94	1,964.85	1,921.18	8.55	8.26	-120.01	962.35	-794.07	1,392.11	1,376.03	16.08	86.591		
1,900.00	1,832.39	2,058.75	2,011.33	9.45	8.81	-120.52	973.44	-770.25	1,404.19	1,386.85	17.34	80.975		
2,000.00	1,918.11	2,136.39	2,086.02	10.41	9.26	-120.94	982.96	-751.31	1,419.34	1,400.79	18.55	76.508		
2,100.00	2,001.97	2,100.00	2,192.54	11.45	9.04	-121.73	996.88	-724.16	1,436.68	1,417.51	19.17	74.953		
2,200.00	2,083.88	2,346.20	2,287.59	12.56	10.48	-122.48	1,008.38	-698.98	1,454.99	1,433.64	21.35	68.152		
2,300.00	2,163.74	2,406.12	2,345.33	13.74	10.82	-122.81	1,015.62	-684.73	1,477.30	1,454.77	22.54	65.548		
2,400.00	2,241.45	2,468.21	2,405.39	14.99	11.17	-123.16	1,023.73	-671.22	1,504.09	1,480.35	23.74	63.354		
2,421.22	2,257.65	2,482.29	2,419.02	15.26	11.25	-123.24	1,025.69	-668.24	1,510.30	1,486.30	24.00	62.923		
2,500.00	2,317.63	2,533.05	2,468.15	16.29	11.53	-123.92	1,033.04	-657.85	1,534.35	1,509.40	24.95	61.487		
2,600.00	2,393.75	2,603.59	2,536.56	17.62	11.92	-124.84	1,043.73	-644.36	1,566.80	1,540.62	26.18	59.850		
2,700.00	2,469.88	2,700.00	2,690.34	18.95	12.47	-126.69	1,069.62	-608.23	1,596.93	1,569.29	27.64	57.782		
2,800.00	2,546.01	2,836.94	2,760.39	20.30	13.29	-127.48	1,081.49	-590.50	1,626.87	1,597.62	29.25	55.612		
2,900.00	2,622.13	2,971.96	2,890.42	21.65	14.08	-129.00	1,100.50	-559.51	1,657.64	1,626.81	30.83	53.768		
3,000.00	2,698.26	3,066.08	2,981.01	23.01	14.63	-130.05	1,111.94	-536.68	1,686.93	1,654.80	32.13	52.505		
3,100.00	2,774.38	3,142.59	3,054.32	24.37	15.09	-130.83	1,122.80	-517.70	1,716.98	1,683.65	33.33	51.513		
3,200.00	2,850.51	3,198.00	3,107.56	25.74	15.42	-131.38	1,131.04	-504.76	1,748.92	1,714.55	34.38	50.873		
3,300.00	2,926.64	3,288.82	3,195.17	27.11	15.94	-132.27	1,144.47	-484.91	1,782.54	1,746.92	35.62	50.048		
3,400.00	3,002.76	3,422.60	3,323.87	28.49	16.72	-133.56	1,162.47	-453.22	1,814.30	1,777.22	37.09	48.922		
3,500.00	3,078.89	3,485.00	3,384.32	29.87	17.07	-134.19	1,169.37	-439.38	1,847.21	1,809.14	38.07	48.517		
3,600.00	3,155.02	3,550.03	3,447.44	31.25	17.42	-134.84	1,177.02	-425.76	1,881.86	1,842.81	39.05	48.193		
3,700.00	3,231.14	3,653.74	3,547.53	32.63	18.02	-135.73	1,192.06	-403.12	1,916.98	1,876.69	40.29	47.578		
3,800.00	3,307.27	3,761.91	3,651.43	34.01	18.66	-136.59	1,208.83	-378.16	1,951.56	1,909.98	41.58	46.932		
3,900.00	3,383.39	3,841.00	3,727.30	35.40	19.13	-137.20	1,220.57	-359.16	1,985.53	1,942.87	42.66	46.542		
4,000.00	3,459.52	3,902.51	3,786.60	36.79	19.47	-137.69	1,228.99	-345.21	2,020.85	1,977.29	43.57	46.386		
4,100.00	3,535.65	3,962.00	3,844.61	38.18	19.79	-138.21	1,235.93	-333.99	2,058.88	2,014.47	44.41	46.359		
4,200.00	3,611.77	4,047.99	3,928.62	39.57	20.23	-138.95	1,245.78	-318.50	2,098.19	2,052.80	45.39	46.230		
4,300.00	3,687.90	4,194.24	4,070.10	40.96	21.05	-140.01	1,266.79	-288.12	2,136.02	2,089.18	46.84	45.600		
4,400.00	3,764.02	4,351.67	4,220.17	42.35	22.03	-140.92	1,293.86	-249.03	2,170.55	2,122.08	48.47	44.781		
4,500.00	3,840.15	4,427.10	4,292.40	43.74	22.49	-141.39	1,304.90	-230.30	2,205.09	2,155.62	49.46	44.580		
4,600.00	3,916.28	4,523.82	4,385.02	45.13	23.08	-141.98	1,318.92	-206.26	2,239.80	2,189.22	50.58	44.284		
4,700.00	3,992.40	4,585.00	4,443.50	46.53	23.46	-142.33	1,328.55	-191.06	2,275.05	2,223.59	51.46	44.210		
4,800.00	4,068.53	4,638.73	4,495.01	47.92	23.77	-142.63	1,337.16	-178.47	2,311.85	2,259.58	52.26	44.235		
4,900.00	4,144.66	4,684.83	4,539.51	49.32	24.04	-142.89	1,344.30	-168.78	2,350.69	2,297.72	52.97	44.374		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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 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		
5,000.00	4,220.78	4,747.63	4,600.34	50.71	24.39	-143.25	1,353.93	-156.45	2,390.99	2,337.21	53.78	44.458		
5,100.00	4,296.91	5,018.65	4,862.13	52.11	25.93	-144.88	1,387.01	-95.09	2,427.76	2,371.84	55.92	43.417		
5,200.00	4,373.03	5,083.53	4,924.40	53.51	26.31	-145.26	1,394.49	-78.49	2,462.54	2,405.81	56.73	43.409		
5,300.00	4,449.16	5,140.11	4,978.90	54.90	26.64	-145.58	1,401.07	-64.79	2,498.75	2,441.28	57.47	43.479		
5,400.00	4,525.29	5,195.28	5,032.16	56.30	26.96	-145.88	1,407.89	-52.14	2,536.39	2,478.20	58.19	43.589		
5,500.00	4,601.41	5,247.11	5,082.30	57.70	27.25	-146.15	1,414.70	-40.93	2,575.48	2,516.61	58.87	43.749		
5,600.00	4,677.54	5,298.00	5,131.67	59.10	27.53	-146.41	1,421.62	-30.66	2,616.08	2,556.55	59.53	43.949		
5,700.00	4,753.66	5,425.65	5,255.41	60.49	28.23	-147.03	1,439.38	-4.85	2,656.79	2,596.03	60.76	43.727		
5,800.00	4,829.79	5,572.83	5,397.28	61.89	29.08	-147.67	1,461.40	27.46	2,696.21	2,634.04	62.16	43.375		
5,900.00	4,905.92	5,675.34	5,495.90	63.29	29.68	-148.13	1,475.54	51.66	2,734.00	2,670.80	63.20	43.258		
6,000.00	4,982.04	5,722.25	5,541.10	64.69	29.95	-148.33	1,482.18	62.30	2,772.84	2,709.00	63.84	43.431		
6,100.00	5,058.17	5,793.31	5,609.85	66.09	30.35	-148.63	1,491.83	77.43	2,812.99	2,748.35	64.63	43.521		
6,200.00	5,134.30	5,944.02	5,755.65	67.49	31.20	-149.32	1,509.90	110.98	2,852.23	2,786.28	65.95	43.249		
6,300.00	5,210.42	5,995.42	5,805.24	68.89	31.49	-149.53	1,516.81	122.61	2,891.42	2,824.83	66.60	43.416		
6,400.00	5,286.55	6,061.06	5,868.60	70.29	31.87	-149.77	1,526.55	136.74	2,931.77	2,864.41	67.36	43.524		
6,500.00	5,362.67	6,119.02	5,924.55	71.69	32.20	-149.97	1,535.60	148.85	2,972.88	2,904.82	68.06	43.682		
6,600.00	5,438.80	6,161.25	5,965.48	73.09	32.43	-150.13	1,541.94	157.04	3,015.37	2,946.77	68.60	43.953		
6,700.00	5,514.93	6,305.76	6,106.43	74.49	33.17	-150.75	1,557.89	184.43	3,058.43	2,988.59	69.84	43.793		
6,800.00	5,591.05	6,800.00	6,296.44	75.89	35.80	-151.72	1,570.54	226.01	3,099.54	3,027.14	72.40	42.811		
6,900.00	5,667.18	6,623.25	6,414.63	77.29	34.87	-152.22	1,582.74	255.83	3,137.60	3,065.38	72.22	43.445		
7,000.00	5,743.30	6,666.66	6,456.26	78.69	35.13	-152.35	1,589.26	266.28	3,176.25	3,103.43	72.82	43.620		
7,100.00	5,819.43	7,210.83	6,969.84	80.09	38.62	-154.13	1,654.50	424.62	3,213.26	3,136.99	76.27	42.131		
7,200.00	5,895.56	7,258.00	7,013.78	81.49	38.88	-154.48	1,648.40	440.60	3,240.86	3,164.14	76.72	42.241		
7,300.00	5,971.68	7,258.00	7,013.78	82.90	38.88	-154.48	1,648.40	440.60	3,270.33	3,193.14	77.19	42.370		
7,400.00	6,047.81	7,258.00	7,013.78	84.30	38.88	-154.48	1,648.40	440.60	3,302.56	3,224.97	77.58	42.569		
7,500.00	6,123.94	7,296.85	7,050.09	85.70	39.02	-154.81	1,640.79	452.09	3,336.25	3,258.41	77.84	42.858		
7,600.00	6,200.06	7,311.60	7,063.91	87.10	39.07	-154.95	1,637.28	455.91	3,372.64	3,294.53	78.11	43.181		
7,700.00	6,276.19	7,348.00	7,097.92	88.50	39.19	-155.30	1,627.18	463.99	3,411.65	3,333.38	78.26	43.593		
7,800.00	6,352.31	7,348.00	7,097.92	89.90	39.19	-155.30	1,627.18	463.99	3,452.05	3,373.58	78.47	43.993		
7,900.00	6,428.44	7,348.00	7,097.92	91.31	39.19	-155.30	1,627.18	463.99	3,494.85	3,416.23	78.62	44.451		
8,000.00	6,504.57	7,348.00	7,097.92	92.71	39.19	-155.30	1,627.18	463.99	3,539.96	3,461.23	78.73	44.964		
8,100.00	6,580.69	7,348.00	7,097.92	94.11	39.19	-155.30	1,627.18	463.99	3,587.29	3,508.50	78.79	45.529		
8,200.00	6,656.82	7,393.71	7,140.29	95.51	39.25	-155.79	1,611.90	471.67	3,635.19	3,556.48	78.72	46.181		
8,300.00	6,732.95	7,437.00	7,179.86	96.91	39.31	-156.28	1,595.06	476.60	3,686.43	3,607.83	78.60	46.901		
8,400.00	6,809.07	7,437.00	7,179.86	98.32	39.31	-156.28	1,595.06	476.60	3,738.29	3,659.70	78.58	47.571		
8,500.00	6,885.20	7,437.00	7,179.86	99.72	39.31	-156.28	1,595.06	476.60	3,792.07	3,713.53	78.53	48.286		
8,600.00	6,961.32	7,437.00	7,179.86	101.12	39.31	-156.28	1,595.06	476.60	3,847.70	3,769.24	78.46	49.043		
8,700.00	7,037.45	7,437.00	7,179.86	102.52	39.31	-156.28	1,595.06	476.60	3,905.10	3,826.74	78.35	49.841		
8,732.15	7,061.92	7,437.00	7,179.86	102.97	39.31	-156.28	1,595.06	476.60	3,923.91	3,845.60	78.31	50.106		
8,750.00	7,075.57	7,437.00	7,179.86	103.22	39.31	-159.60	1,595.06	476.60	3,934.45	3,856.16	78.29	50.254		
8,800.00	7,114.27	7,474.06	7,213.27	103.91	39.32	-169.64	1,579.27	479.33	3,963.70	3,885.55	78.16	50.715		
8,850.00	7,153.47	7,482.70	7,221.02	104.58	39.32	-179.72	1,575.47	479.82	3,993.71	3,915.61	78.09	51.140		
8,900.00	7,192.85	7,491.72	7,229.08	105.21	39.32	170.07	1,571.46	480.28	4,023.81	3,945.77	78.04	51.563		
8,950.00	7,232.12	7,674.88	7,387.22	105.80	39.33	159.10	1,480.15	492.05	4,053.92	3,976.46	77.46	52.336		
9,000.00	7,270.99	7,704.00	7,411.16	106.35	39.33	149.65	1,463.78	494.73	4,081.69	4,004.35	77.34	52.778		
9,050.00	7,309.16	7,734.95	7,436.01	106.85	39.32	140.83	1,445.57	497.56	4,108.60	4,031.40	77.20	53.218		
9,100.00	7,346.32	8,093.03	7,635.34	107.30	39.10	130.53	1,160.43	548.55	4,132.60	4,057.82	74.78	55.266		
9,150.00	7,382.22	8,103.63	7,638.38	107.69	39.09	123.70	1,150.46	550.47	4,154.16	4,079.47	74.70	55.614		
9,200.00	7,416.56	8,114.86	7,641.47	108.02	39.08	117.63	1,139.85	552.44	4,174.38	4,099.77	74.61	55.946		
9,250.00	7,449.09	8,149.00	7,650.10	108.29	39.07	112.14	1,107.28	557.99	4,193.29	4,118.92	74.37	56.382		
9,300.00	7,479.56	8,149.00	7,650.10	108.51	39.07	107.62	1,107.28	557.99	4,210.19	4,135.80	74.39	56.595		
9,350.00	7,507.74	8,149.00	7,650.10	108.68	39.07	103.72	1,107.28	557.99	4,225.45	4,151.02	74.43	56.771		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	8,149.00	7,650.10	108.79	39.07	100.41	1,107.28	557.99	4,238.95	4,164.46	74.49	56.905		
9,450.00	7,556.39	8,149.00	7,650.10	108.86	39.07	97.63	1,107.28	557.99	4,250.62	4,176.04	74.58	56.992		
9,500.00	7,576.48	8,183.58	7,657.77	108.88	39.02	95.26	1,073.91	562.80	4,259.78	4,185.33	74.44	57.220		
9,550.00	7,593.55	8,194.81	7,660.06	108.86	39.01	93.45	1,063.00	564.17	4,267.11	4,192.60	74.51	57.270		
9,600.00	7,607.46	8,238.00	7,667.91	108.80	38.98	92.06	1,020.76	568.51	4,272.81	4,198.46	74.36	57.464		
9,650.00	7,618.11	8,238.00	7,667.91	108.71	38.98	91.16	1,020.76	568.51	4,275.50	4,200.93	74.57	57.333		
9,700.00	7,625.41	8,238.00	7,667.91	108.59	38.98	90.65	1,020.76	568.51	4,276.12	4,201.28	74.84	57.140		
9,750.00	7,629.30	8,238.00	7,667.91	108.45	38.98	90.53	1,020.76	568.51	4,274.65	4,199.51	75.15	56.885		
9,781.81	7,630.00	8,260.39	7,671.54	108.35	38.95	90.69	998.74	570.32	4,272.54	4,197.35	75.19	56.823		
9,800.00	7,630.00	8,269.97	7,673.07	108.29	38.94	90.71	989.31	571.07	4,271.07	4,195.83	75.24	56.762		
9,900.00	7,630.00	8,327.00	7,681.80	107.97	38.89	90.83	933.10	575.14	4,263.69	4,188.17	75.52	56.454		
10,000.00	7,630.00	8,382.77	7,689.50	107.67	38.85	90.94	877.97	578.56	4,257.34	4,181.45	75.88	56.103		
10,100.00	7,630.00	8,417.00	7,693.68	107.38	38.84	90.99	844.05	580.42	4,252.05	4,175.65	76.41	55.651		
10,200.00	7,630.00	8,417.00	7,693.68	107.10	38.84	90.99	844.05	580.42	4,248.89	4,171.68	77.21	55.028		
10,300.00	7,630.00	8,467.30	7,698.50	106.84	38.80	91.06	794.01	581.88	4,246.65	4,168.96	77.69	54.663		
10,325.58	7,630.00	8,472.60	7,698.89	106.78	38.80	91.06	788.72	581.90	4,246.50	4,168.63	77.87	54.532		
10,400.00	7,630.00	8,506.00	7,700.82	106.59	38.79	91.09	755.39	581.44	4,246.95	4,168.70	78.25	54.273		
10,500.00	7,630.00	8,506.00	7,700.82	106.35	38.79	91.09	755.39	581.44	4,248.76	4,169.62	79.14	53.687		
10,600.00	7,630.00	8,541.92	7,702.25	106.13	38.76	91.11	719.52	580.06	4,252.45	4,172.68	79.77	53.310		
10,700.00	7,630.00	8,595.00	7,703.72	105.92	38.73	91.13	666.56	576.81	4,257.91	4,177.61	80.30	53.025		
10,800.00	7,630.00	8,660.18	7,705.17	105.72	38.71	91.15	601.56	572.19	4,264.43	4,183.63	80.80	52.777		
10,900.00	7,630.00	9,067.56	7,716.18	105.54	39.54	91.29	194.74	558.00	4,268.86	4,187.96	80.90	52.767		
11,000.00	7,630.00	9,129.00	7,716.54	105.37	39.84	91.30	133.30	558.09	4,268.45	4,186.65	81.79	52.186		
11,008.37	7,630.00	9,140.47	7,716.62	105.35	39.90	91.30	121.83	558.06	4,268.44	4,186.54	81.90	52.120		
11,100.00	7,630.00	9,197.16	7,717.11	105.21	40.21	91.30	65.15	557.62	4,268.85	4,186.08	82.77	51.573		
11,200.00	7,630.00	9,504.90	7,719.05	105.06	42.56	91.33	-242.49	562.18	4,266.57	4,181.07	85.50	49.901		
11,300.00	7,630.00	9,663.70	7,716.89	104.93	44.13	91.30	-401.12	569.26	4,261.66	4,173.93	87.73	48.576		
11,400.00	7,630.00	9,753.00	7,715.27	104.82	45.09	91.28	-490.29	573.72	4,256.31	4,166.95	89.36	47.631		
11,500.00	7,630.00	9,801.21	7,714.55	104.72	45.62	91.28	-538.45	575.77	4,251.73	4,161.20	90.53	46.966		
11,600.00	7,630.00	9,853.19	7,714.48	104.63	46.21	91.27	-590.41	577.26	4,248.45	4,156.68	91.77	46.295		
11,700.00	7,630.00	9,931.00	7,714.64	104.55	47.10	91.28	-668.19	579.35	4,245.54	4,152.15	93.39	45.460		
11,800.00	7,630.00	9,969.63	7,714.66	104.50	47.54	91.28	-706.82	580.01	4,243.80	4,149.30	94.50	44.910		
11,848.25	7,630.00	9,982.85	7,714.66	104.47	47.69	91.28	-720.03	580.02	4,243.60	4,148.63	94.96	44.687		
11,900.00	7,630.00	10,020.00	7,714.61	104.45	48.12	91.28	-757.18	579.47	4,244.05	4,148.27	95.78	44.313		
12,000.00	7,630.00	10,035.73	7,714.58	104.43	48.30	91.28	-772.90	579.05	4,245.54	4,148.96	96.57	43.962		
12,100.00	7,630.00	10,131.21	7,714.26	104.42	49.42	91.27	-868.35	576.47	4,247.89	4,149.35	98.54	43.108		
12,200.00	7,630.00	10,231.13	7,713.43	104.42	50.62	91.26	-968.23	573.58	4,250.42	4,149.78	100.65	42.231		
12,300.00	7,630.00	10,433.69	7,710.19	104.45	53.19	91.22	-1,170.72	569.97	4,252.03	4,147.41	104.61	40.645		
12,350.84	7,630.00	10,485.33	7,709.64	104.46	53.87	91.21	-1,222.36	569.90	4,251.91	4,146.10	105.81	40.183		
12,400.00	7,630.00	10,510.44	7,709.41	104.49	54.20	91.20	-1,247.47	569.74	4,252.05	4,145.54	106.51	39.920		
12,500.00	7,630.00	10,586.04	7,708.76	104.55	55.21	91.20	-1,323.05	568.57	4,253.15	4,144.73	108.42	39.227		
12,600.00	7,630.00	10,749.15	7,705.46	104.63	57.44	91.15	-1,486.12	567.64	4,253.22	4,141.11	112.11	37.938		
12,665.97	7,630.00	10,800.55	7,703.78	104.69	58.16	91.13	-1,537.49	567.53	4,253.10	4,139.64	113.46	37.486		
12,700.00	7,630.00	10,822.00	7,703.07	104.73	58.46	91.12	-1,558.93	567.42	4,253.14	4,139.09	114.05	37.293		
12,800.00	7,630.00	10,873.27	7,702.06	104.85	59.17	91.11	-1,610.18	566.83	4,253.97	4,138.41	115.55	36.814		
12,900.00	7,630.00	10,925.62	7,702.37	104.99	59.91	91.11	-1,662.51	565.57	4,256.01	4,138.91	117.10	36.346		
13,000.00	7,630.00	11,000.00	7,703.93	105.15	60.95	91.13	-1,736.84	563.13	4,258.96	4,139.82	119.14	35.749		
13,100.00	7,630.00	11,119.19	7,707.88	105.34	62.65	91.18	-1,855.90	559.25	4,261.95	4,139.72	122.23	34.869		
13,200.00	7,630.00	11,375.18	7,715.56	105.56	66.42	91.28	-2,111.73	557.33	4,261.79	4,133.11	128.68	33.119		
13,300.00	7,630.00	11,467.24	7,716.98	105.80	67.80	91.30	-2,203.78	557.79	4,260.99	4,129.69	131.30	32.452		
13,400.00	7,630.00	11,577.42	7,718.30	106.06	69.48	91.32	-2,313.95	558.44	4,260.10	4,125.69	134.40	31.697		
13,500.00	7,630.00	11,666.27	7,718.95	106.36	70.84	91.33	-2,402.79	559.01	4,259.14	4,122.15	136.99	31.091		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,600.00	7,630.00	11,738.76	7,719.00	106.68	71.95	91.33	-2,475.28	559.09	4,258.71	4,119.54	139.17	30.600		
13,611.95	7,630.00	11,746.92	7,718.99	106.72	72.08	91.33	-2,483.45	559.06	4,258.70	4,119.28	139.42	30.546		
13,700.00	7,630.00	11,823.21	7,718.71	107.03	73.25	91.33	-2,559.73	558.54	4,258.98	4,117.31	141.67	30.063		
13,800.00	7,630.00	11,953.52	7,717.48	107.42	75.28	91.31	-2,690.03	558.61	4,258.47	4,113.07	145.40	29.288		
13,900.00	7,630.00	12,040.77	7,716.08	107.83	76.64	91.29	-2,777.27	558.51	4,258.20	4,110.19	148.01	28.769		
14,000.00	7,630.00	12,187.06	7,713.41	108.28	78.95	91.26	-2,923.53	558.89	4,257.58	4,105.33	152.25	27.965		
14,100.00	7,630.00	12,284.10	7,711.52	108.77	80.49	91.23	-3,020.56	559.73	4,256.34	4,101.16	155.18	27.428		
14,200.00	7,630.00	12,356.06	7,709.66	109.29	81.63	91.21	-3,092.49	560.14	4,255.41	4,097.98	157.43	27.031		
14,240.74	7,630.00	12,375.83	7,709.16	109.51	81.95	91.20	-3,112.25	560.12	4,255.31	4,097.23	158.08	26.919		
14,300.00	7,630.00	12,404.58	7,708.51	109.84	82.41	91.19	-3,140.99	559.90	4,255.52	4,096.50	159.02	26.761		
14,400.00	7,630.00	12,464.65	7,707.46	110.43	83.36	91.18	-3,201.04	558.91	4,256.77	4,095.84	160.93	26.451		
14,500.00	7,630.00	12,553.47	7,706.82	111.06	84.77	91.17	-3,289.84	556.84	4,258.72	4,095.06	163.67	26.021		
14,600.00	7,630.00	12,723.28	7,708.85	111.72	87.49	91.20	-3,459.62	554.71	4,259.56	4,090.76	168.79	25.235		
14,700.00	7,630.00	12,986.26	7,710.55	112.42	91.77	91.22	-3,722.53	558.30	4,257.78	4,081.08	176.70	24.096		
14,800.00	7,630.00	13,049.00	7,710.59	113.16	92.81	91.22	-3,785.24	559.82	4,254.89	4,076.10	178.79	23.799		
14,900.00	7,630.00	13,088.70	7,710.54	113.94	93.46	91.22	-3,824.94	560.32	4,253.07	4,072.89	180.18	23.605		
15,000.00	7,630.00	13,168.30	7,710.57	114.75	94.77	91.22	-3,904.54	560.63	4,252.28	4,069.54	182.75	23.269		
15,100.00	7,630.00	13,260.33	7,710.49	115.60	96.28	91.22	-3,996.56	561.39	4,251.16	4,065.47	185.69	22.894		
15,143.60	7,630.00	13,278.88	7,710.70	115.98	96.58	91.22	-4,015.12	561.38	4,251.03	4,064.70	186.33	22.815		
15,200.00	7,630.00	13,317.00	7,711.51	116.48	97.21	91.23	-4,053.22	561.04	4,251.30	4,063.73	187.58	22.664		
15,300.00	7,630.00	13,383.98	7,713.53	117.40	98.30	91.26	-4,120.17	560.05	4,252.38	4,062.61	189.77	22.408		
15,400.00	7,630.00	13,503.79	7,717.36	118.35	100.27	91.31	-4,239.91	558.51	4,253.41	4,059.79	193.62	21.968		
15,500.00	7,630.00	15,500.00	7,721.13	119.34	133.56	91.36	-4,383.14	557.78	4,253.64	4,024.19	229.45	18.538		
15,600.00	7,630.00	13,842.05	7,725.87	120.35	105.90	91.43	-4,578.03	560.66	4,251.54	4,047.11	204.43	20.797		
15,700.00	7,630.00	13,940.00	7,727.43	121.40	107.55	91.45	-4,675.93	563.09	4,248.77	4,041.12	207.65	20.461		
15,800.00	7,630.00	13,984.26	7,727.94	122.48	108.29	91.46	-4,720.18	563.88	4,246.84	4,037.65	209.19	20.302		
15,900.00	7,630.00	14,156.91	7,729.65	123.58	111.19	91.48	-4,892.79	565.89	4,245.74	4,030.99	214.75	19.771		
16,000.00	7,630.00	14,208.00	7,730.10	124.71	112.05	91.49	-4,943.87	566.95	4,243.41	4,026.90	216.51	19.599		
16,100.00	7,630.00	14,271.87	7,730.53	125.87	113.12	91.49	-5,007.74	567.62	4,242.07	4,023.41	218.66	19.400		
16,161.33	7,630.00	14,297.00	7,730.67	126.59	113.55	91.50	-5,032.87	567.71	4,241.75	4,022.23	219.53	19.322		
16,200.00	7,630.00	14,297.00	7,730.67	127.05	113.55	91.50	-5,032.87	567.71	4,241.93	4,022.38	219.55	19.321		
16,300.00	7,630.00	14,356.29	7,730.84	128.26	114.54	91.50	-5,092.15	567.09	4,242.92	4,021.42	221.50	19.155		
16,400.00	7,630.00	14,404.73	7,730.80	129.48	115.34	91.50	-5,140.57	565.62	4,245.50	4,022.42	223.08	19.031		
16,500.00	7,630.00	14,535.97	7,730.64	130.73	117.52	91.49	-5,271.74	561.21	4,248.61	4,021.21	227.40	18.683		
16,600.00	7,630.00	14,735.57	7,730.42	132.00	120.87	91.49	-5,471.31	558.71	4,249.26	4,015.28	233.99	18.160		
16,700.00	7,630.00	14,889.73	7,729.95	133.29	123.47	91.48	-5,625.48	558.96	4,248.82	4,009.75	239.07	17.772		
16,800.00	7,630.00	15,010.00	7,729.25	134.59	125.52	91.47	-5,745.72	561.04	4,246.62	4,003.56	243.07	17.471		
16,900.00	7,630.00	15,089.04	7,728.89	135.91	126.86	91.47	-5,824.75	562.43	4,244.65	3,998.92	245.73	17.274		
17,000.00	7,630.00	15,163.00	7,728.33	137.25	128.12	91.46	-5,898.70	562.51	4,244.06	3,995.84	248.22	17.098		
17,100.00	7,630.00	15,374.01	7,731.45	138.61	131.73	91.51	-6,109.64	565.69	4,242.41	3,987.20	255.21	16.623		
17,200.00	7,630.00	15,449.21	7,733.01	139.97	133.02	91.53	-6,184.80	567.65	4,239.50	3,981.71	257.79	16.446		
17,300.00	7,630.00	15,553.13	7,735.03	141.36	134.80	91.56	-6,288.66	570.12	4,236.84	3,975.54	261.30	16.214		
17,400.00	7,630.00	15,642.94	7,736.88	142.75	136.35	91.58	-6,378.43	572.41	4,234.03	3,969.66	264.36	16.016		
17,500.00	7,630.00	15,697.00	7,738.00	144.16	137.28	91.60	-6,432.47	573.43	4,231.95	3,965.71	266.24	15.895		
17,600.00	7,630.00	15,765.43	7,739.41	145.58	138.45	91.62	-6,500.88	574.09	4,230.76	3,962.19	268.57	15.753		
17,672.58	7,630.00	15,804.53	7,740.21	146.62	139.12	91.63	-6,539.97	574.11	4,230.53	3,960.63	269.90	15.675		
17,700.00	7,630.00	15,817.90	7,740.48	147.01	139.34	91.63	-6,553.34	574.04	4,230.60	3,960.26	270.35	15.649		
17,800.00	7,630.00	15,875.00	7,741.59	148.45	140.32	91.65	-6,610.42	573.23	4,231.66	3,959.41	272.25	15.543		
17,900.00	7,630.00	15,911.90	7,742.29	149.91	140.94	91.66	-6,647.30	572.24	4,233.92	3,960.51	273.41	15.485		
18,000.00	7,630.00	15,964.00	7,743.28	151.37	141.82	91.67	-6,699.35	570.17	4,237.52	3,962.45	275.08	15.405		
18,100.00	7,630.00	18,100.00	7,745.44	152.84	178.33	91.70	-6,936.23	563.63	4,239.97	3,923.96	316.01	13.417		
18,200.00	7,630.00	16,327.84	7,745.96	154.32	148.00	91.70	-7,063.07	562.91	4,240.14	3,952.54	287.60	14.743		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	16,402.31	7,746.17	155.81	149.28	91.70	-7,137.54	562.29	4,240.64	3,950.53	290.11	14.617	
18,400.00	7,630.00	16,515.76	7,746.50	157.31	151.22	91.71	-7,250.98	561.18	4,241.29	3,947.32	293.97	14.428	
18,500.00	7,630.00	16,618.03	7,746.61	158.81	152.97	91.71	-7,353.24	560.30	4,241.82	3,944.37	297.45	14.261	
18,600.00	7,630.00	16,734.86	7,746.95	160.32	154.97	91.71	-7,470.08	559.71	4,241.98	3,940.55	301.43	14.073	
18,700.00	7,630.00	16,821.02	7,747.21	161.84	156.45	91.72	-7,556.23	559.33	4,242.11	3,937.75	304.36	13.938	
18,800.00	7,630.00	16,909.67	7,747.43	163.37	157.98	91.72	-7,644.88	558.54	4,242.66	3,935.29	307.37	13.803	
18,900.00	7,630.00	17,008.80	7,747.41	164.90	159.68	91.72	-7,744.00	557.57	4,243.31	3,932.55	310.75	13.655	
19,000.00	7,630.00	17,111.79	7,746.88	166.43	161.44	91.71	-7,846.99	556.56	4,243.93	3,929.66	314.27	13.504	
19,100.00	7,630.00	17,209.50	7,745.79	167.98	163.12	91.70	-7,944.69	555.62	4,244.53	3,926.93	317.59	13.365	
19,200.00	7,630.00	17,320.79	7,743.93	169.53	165.04	91.67	-8,055.96	554.90	4,244.75	3,923.36	321.40	13.207	
19,300.00	7,630.00	17,371.31	7,743.41	171.08	165.91	91.67	-8,106.47	554.24	4,245.70	3,922.64	323.06	13.142	
19,400.00	7,630.00	17,494.90	7,743.32	172.64	168.03	91.66	-8,230.04	552.11	4,247.12	3,919.80	327.32	12.975	
19,500.00	7,630.00	17,568.00	7,743.51	174.21	169.28	91.67	-8,303.13	550.89	4,248.44	3,918.65	329.78	12.883	
19,518.56	7,630.00	17,583.72	7,743.56	174.50	169.55	91.67	-8,318.85	550.58	4,248.75	3,918.43	330.32	12.863 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-52.92	786.88	-1,041.02	1,304.99					
100.00	100.00	83.24	83.24	0.13	0.14	-52.91	787.08	-1,041.13	1,305.18	1,304.91	0.27	4,768.158 ES		
200.00	200.00	175.72	175.71	0.49	0.29	-52.90	787.78	-1,041.54	1,305.99	1,305.20	0.79	1,661.317		
300.00	300.00	268.18	268.17	0.85	0.45	-52.87	788.98	-1,042.24	1,307.37	1,306.07	1.30	1,006.888		
400.00	400.00	362.34	362.30	1.21	0.69	-52.84	790.67	-1,043.23	1,309.30	1,307.40	1.90	689.324		
500.00	499.98	458.45	458.39	1.56	1.04	-119.54	792.62	-1,044.48	1,312.42	1,309.82	2.60	504.999		
600.00	599.84	554.41	554.31	1.92	1.38	-119.61	794.74	-1,045.95	1,317.56	1,314.26	3.30	399.532		
700.00	699.45	679.43	679.24	2.29	1.83	-119.77	798.89	-1,046.00	1,323.99	1,319.88	4.10	322.564		
800.00	798.70	821.53	820.72	2.67	2.35	-119.77	808.50	-1,037.28	1,329.18	1,324.19	4.99	266.310		
900.00	897.47	1,007.70	1,004.17	3.07	3.07	-119.56	825.49	-1,011.05	1,331.03	1,324.93	6.10	218.368		
1,000.00	995.62	1,207.35	1,197.06	3.50	4.01	-119.13	844.56	-963.54	1,326.41	1,319.04	7.37	179.973		
1,100.00	1,093.06	1,289.42	1,275.35	3.96	4.46	-118.98	853.85	-940.76	1,322.10	1,313.87	8.24	160.468		
1,169.83	1,160.60	1,336.33	1,320.13	4.31	4.72	-118.90	859.76	-928.08	1,321.09	1,312.27	8.82	149.759		
1,200.00	1,189.64	1,356.62	1,339.54	4.46	4.83	-118.88	862.43	-922.82	1,321.28	1,312.20	9.08	145.566		
1,300.00	1,285.27	1,468.94	1,447.10	5.00	5.47	-118.82	877.22	-894.02	1,323.29	1,313.11	10.18	129.985		
1,400.00	1,379.82	1,587.68	1,559.97	5.60	6.18	-118.84	892.62	-860.55	1,324.61	1,313.23	11.38	116.362		
1,500.00	1,473.17	1,660.84	1,629.33	6.25	6.62	-118.86	903.20	-839.85	1,328.61	1,316.21	12.41	107.102		
1,600.00	1,565.21	1,727.03	1,692.39	6.95	7.03	-118.89	913.57	-822.57	1,336.74	1,323.31	13.43	99.567		
1,700.00	1,655.84	1,829.10	1,789.62	7.72	7.65	-119.09	930.60	-796.63	1,347.77	1,333.07	14.69	91.730		
1,800.00	1,744.94	1,948.93	1,903.43	8.55	8.39	-119.46	950.37	-764.78	1,359.50	1,343.38	16.12	84.350		
1,900.00	1,832.39	2,073.59	2,022.18	9.45	9.17	-120.09	968.08	-731.25	1,371.54	1,353.95	17.59	77.974		
2,000.00	1,918.11	2,150.25	2,095.44	10.41	9.64	-120.50	977.92	-710.95	1,385.11	1,366.29	18.82	73.606		
2,100.00	2,001.97	2,260.38	2,200.85	11.45	10.30	-121.28	992.25	-682.46	1,401.37	1,381.12	20.25	69.190		
2,200.00	2,083.88	2,327.85	2,265.56	12.56	10.71	-121.69	1,000.82	-665.35	1,420.02	1,398.55	21.48	66.116		
2,300.00	2,163.74	2,443.72	2,376.99	13.74	11.39	-122.73	1,014.97	-636.95	1,441.56	1,418.59	22.97	62.758		
2,400.00	2,241.45	2,507.23	2,438.21	14.99	11.76	-123.17	1,022.27	-621.69	1,465.45	1,441.27	24.19	60.587		
2,421.22	2,257.65	2,523.00	2,453.44	15.26	11.85	-123.30	1,024.10	-618.06	1,471.05	1,446.59	24.46	60.145		
2,500.00	2,317.63	2,577.06	2,505.77	16.29	12.15	-124.06	1,030.39	-606.03	1,492.76	1,467.33	25.42	58.720		
2,600.00	2,393.75	2,636.90	2,563.89	17.62	12.47	-124.91	1,037.34	-593.61	1,522.26	1,495.70	26.56	57.314		
2,700.00	2,469.88	2,699.06	2,624.56	18.95	12.79	-125.80	1,044.63	-582.22	1,554.40	1,526.73	27.67	56.184		
2,800.00	2,546.01	2,799.63	2,723.20	20.30	13.27	-127.28	1,054.13	-565.06	1,587.52	1,558.60	28.92	54.892		
2,900.00	2,622.13	2,903.89	2,825.50	21.65	13.78	-128.78	1,062.73	-546.87	1,620.72	1,590.57	30.15	53.754		
3,000.00	2,698.26	3,010.30	2,929.66	23.01	14.31	-130.24	1,071.43	-526.91	1,653.59	1,622.21	31.38	52.696		
3,100.00	2,774.38	3,111.27	3,027.94	24.37	14.84	-131.48	1,081.71	-506.21	1,686.37	1,653.77	32.60	51.723		
3,200.00	2,850.51	3,217.85	3,131.30	25.74	15.42	-132.68	1,093.52	-483.06	1,718.99	1,685.12	33.86	50.763		
3,300.00	2,926.64	3,324.48	3,234.50	27.11	16.02	-133.84	1,104.96	-458.79	1,751.10	1,716.00	35.11	49.881		
3,400.00	3,002.76	3,406.13	3,313.39	28.49	16.48	-134.68	1,114.16	-439.88	1,783.54	1,747.33	36.20	49.266		
3,500.00	3,078.89	3,471.39	3,376.50	29.87	16.85	-135.32	1,122.13	-425.25	1,817.31	1,780.12	37.19	48.866		
3,600.00	3,155.02	3,543.72	3,446.51	31.25	17.25	-136.00	1,131.57	-409.77	1,852.56	1,814.36	38.20	48.495		
3,700.00	3,231.14	3,624.77	3,525.07	32.63	17.70	-136.74	1,142.33	-392.97	1,888.85	1,849.60	39.25	48.128		
3,800.00	3,307.27	3,728.69	3,625.98	34.01	18.26	-137.69	1,155.04	-371.67	1,925.48	1,885.07	40.40	47.657		
3,900.00	3,383.39	3,845.55	3,739.50	35.40	18.89	-138.76	1,167.21	-346.73	1,961.29	1,919.70	41.59	47.162		
4,000.00	3,459.52	3,932.24	3,823.69	36.79	19.36	-139.54	1,175.62	-327.86	1,996.95	1,954.38	42.57	46.906		
4,100.00	3,535.65	4,007.58	3,896.84	38.18	19.77	-140.19	1,183.35	-311.57	2,033.22	1,989.73	43.49	46.756		
4,200.00	3,611.77	4,081.43	3,968.69	39.57	20.16	-140.81	1,190.96	-296.29	2,070.65	2,026.27	44.37	46.665		
4,300.00	3,687.90	4,184.18	4,068.55	40.96	20.72	-141.62	1,202.54	-275.05	2,108.61	2,063.17	45.44	46.403		
4,400.00	3,764.02	4,319.11	4,198.75	42.35	21.49	-142.55	1,220.20	-244.40	2,145.25	2,098.49	46.75	45.883		
4,500.00	3,840.15	4,405.81	4,282.44	43.74	21.98	-143.16	1,230.33	-224.14	2,181.33	2,133.60	47.73	45.704		
4,600.00	3,916.28	4,600.00	4,511.83	45.13	23.16	-144.66	1,260.28	-160.11	2,214.81	2,165.43	49.39	44.844		
4,700.00	3,992.40	4,751.77	4,611.04	46.53	24.21	-145.18	1,276.51	-127.08	2,244.40	2,193.57	50.83	44.159		
4,800.00	4,068.53	4,795.02	4,651.71	47.92	24.50	-145.39	1,283.30	-114.02	2,275.33	2,223.71	51.62	44.077		
4,900.00	4,144.66	4,854.00	4,707.76	49.32	24.89	-145.67	1,292.52	-98.15	2,308.97	2,256.48	52.48	43.993		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	4,876.22	4,729.01	50.71	25.02	-145.78	1,295.98	-92.66	2,344.35	2,291.29	53.06	44.185		
5,100.00	4,296.91	4,943.00	4,793.03	52.11	25.42	-146.11	1,306.35	-76.76	2,381.53	2,327.62	53.91	44.173		
5,200.00	4,373.03	5,066.64	4,911.36	53.51	26.18	-146.69	1,325.95	-46.77	2,418.47	2,363.28	55.19	43.823		
5,300.00	4,449.16	5,147.51	4,988.50	54.90	26.68	-147.03	1,339.59	-26.70	2,455.13	2,398.97	56.16	43.717		
5,400.00	4,525.29	5,210.00	5,048.47	56.30	27.06	-147.33	1,348.87	-11.77	2,492.62	2,435.66	56.96	43.764		
5,500.00	4,601.41	5,274.20	5,110.41	57.70	27.42	-147.65	1,357.40	2.78	2,531.23	2,473.51	57.72	43.855		
5,600.00	4,677.54	5,337.71	5,171.94	59.10	27.77	-147.97	1,365.44	16.36	2,571.05	2,512.60	58.45	43.987		
5,700.00	4,753.66	5,414.16	5,246.29	60.49	28.18	-148.38	1,373.91	31.96	2,611.80	2,552.56	59.24	44.092		
5,800.00	4,829.79	5,611.83	5,437.86	61.89	29.28	-149.43	1,394.07	76.22	2,650.71	2,589.92	60.79	43.605		
5,900.00	4,905.92	5,681.23	5,504.63	63.29	29.69	-149.74	1,402.87	92.95	2,688.49	2,626.92	61.57	43.665		
6,000.00	4,982.04	5,744.00	5,565.05	64.69	30.06	-150.00	1,411.56	107.55	2,727.23	2,664.91	62.31	43.767		
6,100.00	5,058.17	5,783.58	5,603.29	66.09	30.27	-150.16	1,417.02	116.20	2,767.37	2,704.51	62.86	44.024		
6,200.00	5,134.30	5,833.00	5,651.33	67.49	30.54	-150.37	1,423.31	125.93	2,809.33	2,745.87	63.45	44.275		
6,300.00	5,210.42	5,874.94	5,692.27	68.89	30.75	-150.56	1,428.30	133.55	2,852.72	2,788.77	63.95	44.607		
6,400.00	5,286.55	6,046.77	5,859.85	70.29	31.64	-151.33	1,447.52	166.22	2,895.85	2,830.44	65.40	44.277		
6,500.00	5,362.67	6,126.91	5,937.76	71.69	32.07	-151.66	1,456.88	182.43	2,937.79	2,871.59	66.19	44.381		
6,600.00	5,438.80	6,419.54	6,220.35	73.09	33.74	-152.85	1,488.59	250.78	2,977.61	2,909.23	68.38	43.544		
6,700.00	5,514.93	6,490.21	6,287.08	74.49	34.20	-153.01	1,501.78	269.93	3,013.51	2,944.24	69.26	43.508		
6,800.00	5,591.05	6,546.00	6,339.95	75.89	34.57	-153.13	1,512.61	284.07	3,050.86	2,980.83	70.03	43.566		
6,900.00	5,667.18	6,590.48	6,382.31	77.29	34.84	-153.22	1,521.00	294.76	3,089.47	3,018.80	70.67	43.716		
7,000.00	5,743.30	6,693.39	6,480.88	78.69	35.47	-153.49	1,538.04	318.89	3,128.93	3,057.18	71.75	43.609		
7,100.00	5,819.43	6,957.99	6,732.52	80.09	37.17	-154.27	1,575.15	391.55	3,163.28	3,089.39	73.90	42.807		
7,200.00	5,895.56	7,012.37	6,783.86	81.49	37.53	-154.40	1,583.83	407.25	3,197.67	3,123.05	74.62	42.853		
7,300.00	5,971.68	7,055.67	6,825.03	82.90	37.81	-154.52	1,590.05	419.14	3,233.45	3,158.22	75.23	42.980		
7,400.00	6,047.81	7,116.96	6,883.76	84.30	38.18	-154.72	1,597.17	435.12	3,270.58	3,194.67	75.91	43.084		
7,500.00	6,123.94	7,204.55	6,968.15	85.70	38.69	-155.07	1,603.05	457.78	3,308.12	3,231.47	76.66	43.155		
7,600.00	6,200.06	7,282.84	7,043.77	87.10	39.12	-155.44	1,605.15	477.95	3,345.92	3,268.66	77.27	43.302		
7,700.00	6,276.19	7,349.00	7,107.80	88.50	39.46	-155.78	1,605.35	494.58	3,384.47	3,306.69	77.78	43.511		
7,800.00	6,352.31	7,832.94	7,549.39	89.90	41.43	-160.05	1,485.90	638.82	3,417.82	3,340.69	77.13	44.310		
7,900.00	6,428.44	7,883.00	7,590.33	91.31	41.61	-160.64	1,462.33	655.38	3,448.59	3,371.36	77.23	44.652		
8,000.00	6,504.57	7,909.01	7,611.04	92.71	41.67	-160.97	1,448.91	663.61	3,481.23	3,403.80	77.42	44.963		
8,100.00	6,580.69	7,931.82	7,628.84	94.11	41.72	-161.26	1,436.42	670.47	3,515.97	3,438.38	77.59	45.315		
8,200.00	6,656.82	7,972.00	7,659.34	95.51	41.82	-161.80	1,412.82	681.73	3,552.95	3,475.35	77.60	45.784		
8,300.00	6,732.95	7,972.00	7,659.34	96.91	41.82	-161.80	1,412.82	681.73	3,591.71	3,513.88	77.83	46.148		
8,400.00	6,809.07	7,972.00	7,659.34	98.32	41.82	-161.80	1,412.82	681.73	3,632.81	3,554.79	78.01	46.568		
8,500.00	6,885.20	7,972.00	7,659.34	99.72	41.82	-161.80	1,412.82	681.73	3,676.16	3,598.01	78.15	47.042		
8,600.00	6,961.32	8,015.73	7,691.15	101.12	41.87	-162.41	1,384.88	692.63	3,720.70	3,642.70	78.00	47.703		
8,700.00	7,037.45	8,028.28	7,700.00	102.52	41.89	-162.59	1,376.44	695.47	3,767.64	3,689.65	78.00	48.305		
8,732.15	7,061.92	8,061.00	7,722.40	102.97	41.93	-163.07	1,353.59	702.25	3,783.59	3,705.77	77.83	48.617		
8,750.00	7,075.57	8,061.00	7,722.40	103.22	41.93	-166.07	1,353.59	702.25	3,792.21	3,714.38	77.83	48.721		
8,800.00	7,114.27	8,061.00	7,722.40	103.91	41.93	-174.80	1,353.59	702.25	3,816.56	3,738.70	77.86	49.018		
8,850.00	7,153.47	8,061.00	7,722.40	104.58	41.93	176.15	1,353.59	702.25	3,841.07	3,763.18	77.89	49.316		
8,900.00	7,192.85	8,061.00	7,722.40	105.21	41.93	166.99	1,353.59	702.25	3,865.55	3,787.64	77.91	49.614		
8,950.00	7,232.12	8,061.00	7,722.40	105.80	41.93	157.96	1,353.59	702.25	3,889.82	3,811.89	77.94	49.910		
9,000.00	7,270.99	8,061.00	7,722.40	106.35	41.93	149.28	1,353.59	702.25	3,913.70	3,835.74	77.96	50.202		
9,050.00	7,309.16	8,061.00	7,722.40	106.85	41.93	141.14	1,353.59	702.25	3,937.01	3,859.02	77.99	50.484		
9,100.00	7,346.32	8,061.00	7,722.40	107.30	41.93	133.63	1,353.59	702.25	3,959.59	3,881.57	78.01	50.754		
9,150.00	7,382.22	8,061.00	7,722.40	107.69	41.93	126.84	1,353.59	702.25	3,981.28	3,903.23	78.05	51.008		
9,200.00	7,416.56	8,061.00	7,722.40	108.02	41.93	120.76	1,353.59	702.25	4,001.93	3,923.83	78.10	51.240		
9,250.00	7,449.09	8,099.63	7,747.99	108.29	41.93	115.35	1,325.38	708.66	4,020.12	3,942.17	77.95	51.574		
9,300.00	7,479.56	8,106.33	7,752.37	108.51	41.93	110.69	1,320.38	709.55	4,037.80	3,959.81	77.99	51.772		
9,350.00	7,507.74	8,113.09	7,756.76	108.68	41.93	106.66	1,315.31	710.38	4,053.97	3,975.91	78.06	51.937		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	8,150.00	7,780.38	108.79	41.93	103.28	1,287.16	713.75	4,069.31	3,991.35	77.96	52.194		
9,450.00	7,556.39	8,150.00	7,780.38	108.86	41.93	100.39	1,287.16	713.75	4,081.85	4,003.72	78.12	52.249		
9,500.00	7,576.48	8,150.00	7,780.38	108.88	41.93	97.98	1,287.16	713.75	4,092.67	4,014.36	78.32	52.258		
9,550.00	7,593.55	8,150.00	7,780.38	108.86	41.93	96.03	1,287.16	713.75	4,101.72	4,023.17	78.55	52.217		
9,600.00	7,607.46	8,150.00	7,780.38	108.80	41.93	94.50	1,287.16	713.75	4,108.94	4,030.11	78.83	52.124		
9,650.00	7,618.11	8,150.00	7,780.38	108.71	41.93	93.37	1,287.16	713.75	4,114.28	4,035.12	79.16	51.977		
9,700.00	7,625.41	8,150.00	7,780.38	108.59	41.93	92.63	1,287.16	713.75	4,117.70	4,038.17	79.53	51.777		
9,750.00	7,629.30	8,182.25	7,800.20	108.45	41.89	92.53	1,261.78	715.53	4,118.79	4,039.08	79.70	51.677		
9,781.81	7,630.00	8,190.40	7,805.03	108.35	41.88	92.58	1,255.23	715.89	4,118.50	4,038.57	79.93	51.529		
9,800.00	7,630.00	8,195.05	7,807.76	108.29	41.88	92.61	1,251.47	716.08	4,118.13	4,038.07	80.06	51.440		
9,900.00	7,630.00	8,239.00	7,832.39	107.97	41.84	92.96	1,215.10	717.25	4,117.34	4,036.71	80.63	51.064		
9,912.89	7,630.00	8,239.00	7,832.39	107.93	41.84	92.96	1,215.10	717.25	4,117.32	4,036.56	80.76	50.983		
10,000.00	7,630.00	8,267.61	7,847.20	107.67	41.79	93.16	1,190.63	717.61	4,118.14	4,036.79	81.35	50.625		
10,100.00	7,630.00	8,353.96	7,885.11	107.38	41.67	93.69	1,113.12	718.22	4,119.95	4,038.48	81.47	50.569		
10,200.00	7,630.00	8,435.77	7,908.60	107.10	41.55	94.02	1,034.85	717.77	4,122.22	4,040.66	81.56	50.542		
10,300.00	7,630.00	8,507.00	7,922.68	106.84	41.44	94.21	965.05	716.34	4,125.31	4,043.55	81.76	50.458		
10,400.00	7,630.00	8,645.02	7,939.30	106.59	41.28	94.44	828.12	713.63	4,127.74	4,046.37	81.36	50.733		
10,500.00	7,630.00	8,847.78	7,944.03	106.35	41.25	94.50	625.49	711.03	4,128.81	4,048.02	80.78	51.109		
10,600.00	7,630.00	9,004.04	7,937.60	106.13	41.43	94.41	469.38	711.60	4,127.63	4,046.65	80.98	50.968		
10,700.00	7,630.00	9,041.00	7,936.05	105.92	41.51	94.39	432.45	711.84	4,126.73	4,045.05	81.67	50.527		
10,729.13	7,630.00	9,074.67	7,934.92	105.86	41.57	94.38	398.80	711.85	4,126.52	4,044.66	81.86	50.412		
10,729.26	7,630.00	9,074.73	7,934.92	105.86	41.57	94.38	398.74	711.85	4,126.52	4,044.66	81.86	50.411		
10,800.00	7,630.00	9,102.91	7,934.22	105.72	41.64	94.37	370.57	711.56	4,126.88	4,044.51	82.37	50.104		
10,900.00	7,630.00	9,205.40	7,932.75	105.54	41.91	94.34	268.11	709.55	4,128.40	4,045.29	83.11	49.676		
11,000.00	7,630.00	9,279.09	7,932.12	105.37	42.15	94.34	194.43	708.42	4,129.57	4,045.63	83.95	49.193		
11,100.00	7,630.00	9,546.98	7,932.94	105.21	43.51	94.35	-73.40	709.48	4,128.39	4,042.59	85.79	48.121		
11,200.00	7,630.00	11,200.00	7,933.18	105.06	60.86	94.36	-184.40	712.00	4,125.81	4,023.10	102.71	40.170		
11,300.00	7,630.00	9,702.28	7,934.26	104.93	44.61	94.37	-228.63	713.05	4,123.55	4,035.29	88.25	46.723		
11,400.00	7,630.00	9,754.00	7,935.47	104.82	45.02	94.39	-280.33	712.89	4,123.25	4,033.91	89.33	46.156		
11,408.33	7,630.00	9,754.00	7,935.47	104.81	45.02	94.39	-280.33	712.89	4,123.24	4,033.85	89.39	46.128		
11,500.00	7,630.00	9,754.00	7,935.47	104.72	45.02	94.39	-280.33	712.89	4,124.26	4,034.30	89.96	45.845		
11,600.00	7,630.00	9,808.70	7,936.48	104.63	45.44	94.40	-335.00	711.41	4,126.88	4,035.78	91.09	45.303		
11,700.00	7,630.00	9,895.92	7,937.27	104.55	46.14	94.41	-422.14	707.75	4,130.75	4,038.19	92.56	44.626		
11,800.00	7,630.00	9,974.02	7,937.33	104.50	46.82	94.41	-500.18	704.73	4,134.35	4,040.35	94.00	43.983		
11,900.00	7,630.00	10,021.00	7,938.48	104.45	47.24	94.42	-547.09	702.43	4,139.12	4,043.98	95.13	43.509		
12,000.00	7,630.00	10,080.11	7,940.95	104.43	47.78	94.45	-606.04	698.95	4,145.00	4,048.56	96.44	42.981		
12,100.00	7,630.00	10,252.64	7,947.16	104.42	49.47	94.53	-778.15	688.87	4,150.94	4,051.65	99.29	41.807		
12,200.00	7,630.00	10,419.33	7,949.91	104.42	51.29	94.56	-944.71	683.07	4,153.81	4,051.48	102.33	40.592		
12,300.00	7,630.00	10,884.00	7,966.43	104.45	57.18	94.80	-1,408.55	690.40	4,151.09	4,039.55	111.54	37.215		
12,400.00	7,630.00	10,899.39	7,966.42	104.49	57.39	94.80	-1,423.94	690.89	4,146.59	4,034.34	112.25	36.941		
12,500.00	7,630.00	11,073.21	7,966.24	104.55	59.80	94.80	-1,597.58	698.68	4,141.59	4,025.23	116.36	35.594		
12,600.00	7,630.00	11,137.99	7,966.17	104.63	60.72	94.81	-1,662.29	701.66	4,136.63	4,018.47	118.16	35.009		
12,700.00	7,630.00	11,180.14	7,966.15	104.73	61.31	94.81	-1,704.41	703.23	4,132.66	4,013.21	119.45	34.597		
12,800.00	7,630.00	11,241.00	7,966.09	104.85	62.17	94.81	-1,765.26	704.15	4,130.47	4,009.29	121.17	34.087		
12,893.28	7,630.00	11,241.00	7,966.09	104.98	62.17	94.81	-1,765.26	704.15	4,129.41	4,007.93	121.48	33.993		
12,900.00	7,630.00	11,241.00	7,966.09	104.99	62.17	94.81	-1,765.26	704.15	4,129.42	4,007.92	121.50	33.987		
13,000.00	7,630.00	11,277.55	7,966.04	105.15	62.68	94.81	-1,801.81	703.80	4,130.23	4,007.58	122.65	33.674		
13,100.00	7,630.00	11,330.00	7,965.95	105.34	63.40	94.80	-1,854.22	701.90	4,133.03	4,008.86	124.16	33.287		
13,200.00	7,630.00	11,654.61	7,965.29	105.56	68.06	94.79	-2,178.64	699.51	4,133.96	4,001.67	132.29	31.250		
13,300.00	7,630.00	13,300.00	7,965.08	105.80	93.26	94.79	-2,278.11	701.62	4,131.49	3,972.33	159.17	25.957		
13,400.00	7,630.00	11,950.20	7,962.41	106.06	72.55	94.76	-2,474.06	708.64	4,127.20	3,986.78	140.42	29.391		
13,500.00	7,630.00	11,994.17	7,961.58	106.36	73.22	94.76	-2,518.00	710.31	4,122.95	3,981.11	141.84	29.068		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,600.00	7,630.00	12,043.00	7,960.66	106.68	73.97	94.74	-2,566.80	711.40	4,120.14	3,976.77	143.37	28.737		
13,700.00	7,630.00	12,070.48	7,960.14	107.03	74.39	94.74	-2,594.28	711.59	4,118.78	3,974.46	144.32	28.539		
13,733.51	7,630.00	12,081.72	7,959.93	107.16	74.56	94.73	-2,605.52	711.57	4,118.69	3,973.99	144.69	28.465		
13,800.00	7,630.00	12,104.03	7,959.51	107.42	74.90	94.73	-2,627.82	711.34	4,119.04	3,973.63	145.42	28.326		
13,900.00	7,630.00	12,271.04	7,956.32	107.83	77.45	94.68	-2,794.78	709.53	4,119.84	3,969.68	150.16	27.436		
14,000.00	7,630.00	12,360.90	7,954.67	108.28	78.84	94.66	-2,884.62	709.50	4,119.40	3,966.57	152.83	26.954		
14,100.00	7,630.00	12,601.06	7,952.79	108.77	82.62	94.64	-3,124.71	713.96	4,116.80	3,957.00	159.80	25.762		
14,200.00	7,630.00	12,685.55	7,952.50	109.29	83.97	94.64	-3,209.15	716.57	4,113.35	3,950.93	162.41	25.326		
14,300.00	7,630.00	12,787.99	7,952.16	109.84	85.62	94.64	-3,311.55	719.76	4,109.88	3,944.32	165.56	24.824		
14,400.00	7,630.00	12,844.00	7,952.09	110.43	86.52	94.64	-3,367.53	721.39	4,106.81	3,939.45	167.36	24.539		
14,500.00	7,630.00	12,888.46	7,952.06	111.06	87.22	94.64	-3,411.99	722.14	4,104.99	3,936.19	168.80	24.319		
14,555.36	7,630.00	12,907.24	7,952.04	111.42	87.52	94.64	-3,430.76	722.18	4,104.70	3,935.28	169.42	24.229		
14,600.00	7,630.00	12,934.00	7,952.01	111.72	87.95	94.64	-3,457.52	721.93	4,104.87	3,934.62	170.25	24.110		
14,700.00	7,630.00	12,959.10	7,951.98	112.42	88.35	94.64	-3,482.61	721.42	4,106.24	3,935.17	171.07	24.003		
14,800.00	7,630.00	12,997.26	7,951.92	113.16	88.94	94.64	-3,520.75	720.17	4,109.17	3,936.92	172.25	23.856		
14,900.00	7,630.00	13,068.32	7,951.78	113.94	90.06	94.63	-3,591.73	716.77	4,113.47	3,939.04	174.43	23.583		
15,000.00	7,630.00	13,206.87	7,951.50	114.75	92.23	94.62	-3,730.16	710.84	4,117.38	3,938.67	178.71	23.039		
15,100.00	7,630.00	13,294.24	7,951.39	115.60	93.62	94.62	-3,817.46	707.34	4,121.03	3,939.61	181.42	22.715		
15,200.00	7,630.00	13,413.70	7,951.02	116.48	95.52	94.61	-3,936.83	702.86	4,124.38	3,939.23	185.16	22.275		
15,300.00	7,630.00	13,519.78	7,950.79	117.40	97.21	94.60	-4,042.84	698.93	4,127.73	3,939.24	188.49	21.899		
15,400.00	7,630.00	13,909.24	7,954.15	118.35	103.57	94.65	-4,432.11	697.53	4,129.18	3,928.37	200.80	20.563		
15,500.00	7,630.00	14,037.88	7,957.48	119.34	105.73	94.70	-4,560.57	703.44	4,124.33	3,919.37	204.96	20.123		
15,600.00	7,630.00	14,092.00	7,958.64	120.35	106.64	94.72	-4,614.64	705.48	4,120.37	3,913.58	206.79	19.925		
15,700.00	7,630.00	14,150.22	7,959.60	121.40	107.62	94.73	-4,672.82	707.03	4,117.47	3,908.74	208.73	19.726		
15,800.00	7,630.00	14,214.01	7,960.66	122.48	108.68	94.75	-4,736.60	708.18	4,115.46	3,904.63	210.83	19.520		
15,900.00	7,630.00	14,270.00	7,961.59	123.58	109.61	94.76	-4,792.58	708.74	4,114.34	3,901.68	212.67	19.346		
15,972.54	7,630.00	14,321.99	7,962.45	124.40	110.48	94.77	-4,844.56	708.85	4,114.08	3,899.72	214.36	19.192		
16,000.00	7,630.00	14,338.78	7,962.73	124.71	110.76	94.78	-4,861.35	708.79	4,114.12	3,899.21	214.91	19.144		
16,100.00	7,630.00	14,395.24	7,963.67	125.87	111.69	94.79	-4,917.79	708.25	4,114.89	3,898.16	216.72	18.987		
16,200.00	7,630.00	16,200.00	7,965.36	127.05	141.77	94.81	-5,020.47	706.43	4,116.46	3,867.68	248.78	16.547		
16,300.00	7,630.00	14,670.85	7,967.93	128.26	116.27	94.85	-5,193.35	706.05	4,116.21	3,890.42	225.79	18.231		
16,400.00	7,630.00	14,756.25	7,969.15	129.48	117.70	94.87	-5,278.74	706.18	4,115.85	3,887.25	228.59	18.005		
16,500.00	7,630.00	14,855.60	7,970.58	130.73	119.37	94.89	-5,378.08	705.99	4,115.82	3,883.95	231.87	17.751		
16,600.00	7,630.00	14,959.88	7,972.16	132.00	121.12	94.91	-5,482.35	706.07	4,115.53	3,880.21	235.32	17.489		
16,700.00	7,630.00	15,097.82	7,974.01	133.29	123.44	94.94	-5,620.27	706.96	4,114.62	3,874.71	239.90	17.151		
16,800.00	7,630.00	15,163.00	7,973.54	134.59	124.54	94.93	-5,685.45	707.10	4,113.96	3,871.91	242.05	16.996		
16,813.43	7,630.00	15,163.00	7,973.54	134.77	124.54	94.93	-5,685.45	707.10	4,113.94	3,871.90	242.04	16.997		
16,900.00	7,630.00	15,210.34	7,972.67	135.91	125.33	94.92	-5,732.77	706.65	4,114.34	3,870.77	243.57	16.892		
17,000.00	7,630.00	15,272.44	7,971.66	137.25	126.37	94.90	-5,794.85	705.39	4,115.84	3,870.27	245.56	16.761		
17,100.00	7,630.00	15,363.59	7,969.41	138.61	127.89	94.87	-5,885.94	703.09	4,117.81	3,869.25	248.56	16.567		
17,200.00	7,630.00	15,446.17	7,968.10	139.97	129.27	94.85	-5,968.48	700.83	4,120.06	3,868.81	251.25	16.398		
17,300.00	7,630.00	15,519.00	7,967.81	141.36	130.49	94.84	-6,041.27	698.42	4,122.97	3,869.36	253.61	16.257		
17,400.00	7,630.00	16,232.00	7,979.80	142.75	142.71	95.05	-6,750.36	728.50	4,117.45	3,840.56	276.89	14.870		
17,500.00	7,630.00	16,281.52	7,984.23	144.16	143.58	95.12	-6,799.32	734.44	4,106.17	3,827.35	278.82	14.727		
17,600.00	7,630.00	16,321.00	7,988.08	145.58	144.27	95.18	-6,838.41	738.40	4,096.57	3,816.17	280.41	14.609		
17,700.00	7,630.00	16,321.00	7,988.08	147.01	144.27	95.18	-6,838.41	738.40	4,088.85	3,808.17	280.67	14.568		
17,800.00	7,630.00	16,361.63	7,991.91	148.45	144.98	95.23	-6,878.74	741.37	4,082.64	3,800.49	282.16	14.469		
17,900.00	7,630.00	16,410.00	7,995.72	149.91	145.82	95.29	-6,926.94	743.00	4,078.91	3,795.07	283.85	14.370		
18,000.00	7,630.00	16,410.00	7,995.72	151.37	145.82	95.29	-6,926.94	743.00	4,076.34	3,792.52	283.83	14.362		
18,081.27	7,630.00	16,436.53	7,997.36	152.56	146.27	95.31	-6,953.41	743.19	4,075.86	3,791.20	284.65	14.319		
18,100.00	7,630.00	16,444.41	7,997.77	152.84	146.40	95.32	-6,961.28	743.19	4,075.88	3,790.98	284.90	14.306		
18,200.00	7,630.00	16,499.00	7,999.54	154.32	147.33	95.34	-7,015.84	742.52	4,076.91	3,790.26	286.65	14.223		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,300.00	7,630.00	16,614.56	8,001.30	155.81	149.29	95.36	-7,131.37	740.53	4,078.47	3,787.89	290.58	14.036	
18,400.00	7,630.00	16,718.19	8,002.79	157.31	151.06	95.38	-7,234.98	739.53	4,079.23	3,785.14	294.09	13.871	
18,500.00	7,630.00	16,826.27	8,004.30	158.81	152.90	95.40	-7,343.04	738.15	4,080.32	3,782.56	297.76	13.703	
18,600.00	7,630.00	16,945.30	8,005.90	160.32	154.93	95.43	-7,462.06	737.44	4,080.68	3,778.85	301.83	13.520	
18,700.00	7,630.00	17,032.70	8,007.08	161.84	156.43	95.44	-7,549.44	736.90	4,081.09	3,776.32	304.77	13.391	
18,800.00	7,630.00	17,150.52	8,008.71	163.37	158.44	95.47	-7,667.25	736.60	4,081.09	3,772.29	308.80	13.216	
18,900.00	7,630.00	17,212.00	8,009.58	164.90	159.50	95.48	-7,728.73	736.07	4,081.72	3,770.92	310.80	13.133	
19,000.00	7,630.00	17,251.79	8,009.99	166.43	160.17	95.48	-7,768.50	735.23	4,083.54	3,771.58	311.96	13.090	
19,100.00	7,630.00	17,301.00	8,010.05	167.98	161.01	95.48	-7,817.68	733.40	4,086.81	3,773.38	313.43	13.039	
19,200.00	7,630.00	17,336.79	8,009.85	169.53	161.61	95.48	-7,853.42	731.54	4,091.45	3,777.13	314.32	13.017	
19,300.00	7,630.00	17,390.00	8,009.27	171.08	162.50	95.46	-7,906.51	728.01	4,097.51	3,781.67	315.84	12.973	
19,400.00	7,630.00	17,416.89	8,008.88	172.64	162.95	95.45	-7,933.31	725.82	4,104.95	3,788.70	316.25	12.980	
19,500.00	7,630.00	17,451.29	8,008.37	174.21	163.51	95.44	-7,967.54	722.53	4,113.99	3,797.10	316.89	12.982	
19,518.56	7,630.00	17,479.00	8,007.94	174.50	163.97	95.43	-7,995.08	719.48	4,116.00	3,798.11	317.90	12.948 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-52.66	786.52	-1,030.94	1,296.74					
100.00	100.00	90.38	90.38	0.13	0.15	-52.65	786.67	-1,030.85	1,296.73	1,296.44	0.28	4,552.398		
200.00	200.00	189.69	189.69	0.49	0.32	-52.63	787.19	-1,030.54	1,296.80	1,295.99	0.81	1,603.765		
300.00	300.00	289.00	288.99	0.85	0.48	-52.58	788.08	-1,030.02	1,296.93	1,295.60	1.33	973.422		
400.00	400.00	387.16	387.14	1.21	0.78	-52.52	789.29	-1,029.36	1,297.14	1,295.16	1.99	652.743		
500.00	499.98	484.85	484.82	1.56	1.13	-119.22	790.70	-1,028.75	1,298.38	1,295.69	2.69	482.395		
600.00	599.84	582.45	582.41	1.92	1.48	-119.29	792.32	-1,028.20	1,301.50	1,298.11	3.40	383.211		
700.00	699.45	779.43	778.99	2.29	2.19	-119.53	795.91	-1,017.85	1,302.71	1,298.25	4.46	292.023		
800.00	798.70	942.95	940.47	2.67	2.84	-119.47	802.33	-993.25	1,298.85	1,293.40	5.45	238.433		
900.00	897.47	1,051.81	1,046.67	3.07	3.33	-119.30	810.74	-970.94	1,294.87	1,288.58	6.29	205.729		
1,000.00	995.62	1,153.25	1,144.34	3.50	3.83	-119.02	822.07	-946.05	1,291.41	1,284.23	7.18	179.827		
1,073.71	1,067.52	1,215.14	1,203.40	3.84	4.17	-118.80	831.12	-929.96	1,290.63	1,282.81	7.82	164.970 CC		
1,100.00	1,093.06	1,237.94	1,225.10	3.96	4.29	-118.72	834.76	-923.96	1,290.72	1,282.66	8.06	160.132 ES		
1,200.00	1,189.64	1,350.89	1,331.88	4.46	4.95	-118.28	854.58	-892.93	1,292.26	1,283.09	9.17	140.974		
1,300.00	1,285.27	1,433.11	1,408.86	5.00	5.47	-117.94	870.37	-868.76	1,294.95	1,284.77	10.18	127.217		
1,400.00	1,379.82	1,534.05	1,503.39	5.60	6.12	-117.63	890.76	-839.87	1,300.47	1,289.11	11.36	114.450		
1,500.00	1,473.17	1,681.81	1,640.81	6.25	7.13	-117.36	918.21	-793.04	1,303.57	1,290.65	12.92	100.908		
1,600.00	1,565.21	1,761.03	1,714.44	6.95	7.69	-117.26	933.40	-768.10	1,309.35	1,295.25	14.10	92.862		
1,700.00	1,655.84	1,888.38	1,833.00	7.72	8.59	-117.34	957.35	-728.25	1,316.87	1,301.23	15.64	84.196		
1,800.00	1,744.94	1,983.37	1,921.70	8.55	9.25	-117.54	973.17	-698.18	1,324.28	1,307.27	17.01	77.873		
1,900.00	1,832.39	2,095.47	2,027.01	9.45	10.02	-118.01	990.30	-663.81	1,333.34	1,314.85	18.49	72.096		
2,000.00	1,918.11	2,196.67	2,122.52	10.41	10.70	-118.61	1,003.51	-633.07	1,343.10	1,323.17	19.93	67.399		
2,100.00	2,001.97	2,273.42	2,195.31	11.45	11.21	-119.09	1,013.54	-610.89	1,355.97	1,334.73	21.24	63.847		
2,200.00	2,083.88	2,373.70	2,290.92	12.56	11.84	-119.93	1,025.56	-583.11	1,371.31	1,348.63	22.68	60.459		
2,300.00	2,163.74	2,463.20	2,376.49	13.74	12.40	-120.75	1,035.30	-558.78	1,388.75	1,364.68	24.07	57.698		
2,400.00	2,241.45	2,537.71	2,447.76	14.99	12.86	-121.38	1,044.14	-538.93	1,409.54	1,384.15	25.39	55.511		
2,421.22	2,257.65	2,553.34	2,462.71	15.26	12.96	-121.51	1,046.12	-534.83	1,414.43	1,388.75	25.67	55.092		
2,500.00	2,317.63	2,611.22	2,518.10	16.29	13.31	-122.30	1,053.80	-519.88	1,433.45	1,406.74	26.71	53.662		
2,600.00	2,393.75	2,684.86	2,588.58	17.62	13.77	-123.27	1,064.32	-501.36	1,459.26	1,431.25	28.01	52.095		
2,700.00	2,469.88	2,778.31	2,678.05	18.95	14.34	-124.45	1,078.21	-478.21	1,486.27	1,456.85	29.42	50.524		
2,800.00	2,546.01	2,915.12	2,808.63	20.30	15.20	-126.11	1,097.35	-442.18	1,512.14	1,481.06	31.07	48.665		
2,900.00	2,622.13	3,019.32	2,907.72	21.65	15.87	-127.32	1,111.11	-413.02	1,536.92	1,504.41	32.50	47.283		
3,000.00	2,698.26	3,145.15	3,027.15	23.01	16.69	-128.74	1,126.78	-376.66	1,561.22	1,527.19	34.03	45.878		
3,100.00	2,774.38	3,233.86	3,110.64	24.37	17.31	-129.64	1,139.02	-349.29	1,584.81	1,549.44	35.37	44.803		
3,200.00	2,850.51	3,289.95	3,163.31	25.74	17.70	-130.16	1,148.14	-332.31	1,610.23	1,573.72	36.51	44.105		
3,300.00	2,926.64	3,407.68	3,273.88	27.11	18.52	-131.19	1,168.36	-297.32	1,636.92	1,598.88	38.05	43.025		
3,400.00	3,002.76	3,502.39	3,362.73	28.49	19.19	-132.00	1,183.77	-268.35	1,662.74	1,623.34	39.40	42.199		
3,500.00	3,078.89	3,574.00	3,429.62	29.87	19.71	-132.56	1,196.41	-246.14	1,689.05	1,648.44	40.61	41.597		
3,600.00	3,155.02	3,640.34	3,491.80	31.25	20.17	-133.07	1,208.48	-226.44	1,717.02	1,675.28	41.74	41.138		
3,700.00	3,231.14	3,731.79	3,578.23	32.63	20.79	-133.81	1,224.48	-201.19	1,746.79	1,703.78	43.01	40.613		
3,800.00	3,307.27	3,826.70	3,667.93	34.01	21.42	-134.55	1,240.52	-174.63	1,776.33	1,732.05	44.28	40.115		
3,900.00	3,383.39	3,893.39	3,731.14	35.40	21.86	-135.08	1,251.53	-156.48	1,806.77	1,761.45	45.31	39.873		
4,000.00	3,459.52	3,961.00	3,795.50	36.79	22.30	-135.60	1,263.02	-139.21	1,839.03	1,792.70	46.32	39.698		
4,100.00	3,535.65	4,029.82	3,861.27	38.18	22.72	-136.14	1,274.59	-122.58	1,872.73	1,825.43	47.31	39.587		
4,200.00	3,611.77	4,151.99	3,978.52	39.57	23.45	-137.13	1,292.67	-93.47	1,906.66	1,858.03	48.63	39.210		
4,300.00	3,687.90	4,299.96	4,120.34	40.96	24.36	-138.35	1,311.16	-55.51	1,938.67	1,888.64	50.03	38.750		
4,400.00	3,764.02	4,362.15	4,179.83	42.35	24.74	-138.85	1,318.45	-38.92	1,969.93	1,919.06	50.88	38.719		
4,500.00	3,840.15	4,422.41	4,237.93	43.74	25.10	-139.36	1,324.96	-24.37	2,003.38	1,951.71	51.67	38.775		
4,600.00	3,916.28	4,546.10	4,356.96	45.13	25.83	-140.35	1,338.64	6.37	2,036.62	1,983.79	52.84	38.546		
4,700.00	3,992.40	4,617.85	4,425.59	46.53	26.27	-140.85	1,348.34	24.92	2,069.86	2,016.14	53.72	38.531		
4,800.00	4,068.53	4,673.00	4,478.63	47.92	26.60	-141.24	1,355.58	38.16	2,104.86	2,050.39	54.46	38.648		
4,900.00	4,144.66	4,877.95	4,674.86	49.32	27.85	-142.63	1,381.74	90.98	2,138.49	2,082.31	56.19	38.061		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	4,940.00	4,734.27	50.71	28.24	-143.06	1,388.44	107.59	2,170.86	2,113.90	56.96	38.111		
5,100.00	4,296.91	4,973.41	4,766.44	52.11	28.44	-143.29	1,391.99	115.85	2,205.13	2,147.60	57.52	38.335		
5,200.00	4,373.03	5,030.00	4,821.07	53.51	28.77	-143.67	1,398.73	128.99	2,241.49	2,183.29	58.20	38.510		
5,300.00	4,449.16	5,155.92	4,941.88	54.90	29.52	-144.39	1,416.97	159.41	2,277.60	2,218.15	59.45	38.314		
5,400.00	4,525.29	5,208.00	4,991.69	56.30	29.85	-144.66	1,425.17	172.23	2,313.91	2,253.77	60.14	38.474		
5,500.00	4,601.41	5,262.93	5,044.48	57.70	30.16	-144.95	1,433.61	184.84	2,351.81	2,290.99	60.82	38.666		
5,600.00	4,677.54	5,345.27	5,124.21	59.10	30.63	-145.41	1,445.21	201.80	2,391.62	2,329.94	61.68	38.772		
5,700.00	4,753.66	5,564.00	5,335.19	60.49	31.89	-146.63	1,472.81	252.40	2,429.83	2,366.34	63.49	38.271		
5,800.00	4,829.79	5,631.03	5,399.32	61.89	32.30	-146.97	1,481.75	269.71	2,465.13	2,400.87	64.26	38.362		
5,900.00	4,905.92	5,677.10	5,443.53	63.29	32.57	-147.19	1,487.99	281.10	2,501.74	2,436.89	64.85	38.575		
6,000.00	4,982.04	5,712.51	5,477.72	64.69	32.78	-147.37	1,492.59	289.05	2,540.43	2,475.10	65.33	38.886		
6,100.00	5,058.17	5,753.10	5,517.16	66.09	33.00	-147.59	1,497.61	297.23	2,581.18	2,515.38	65.81	39.224		
6,200.00	5,134.30	5,826.69	5,588.98	67.49	33.37	-148.00	1,505.39	311.23	2,623.10	2,556.61	66.48	39.454		
6,300.00	5,210.42	5,996.33	5,754.00	68.89	34.27	-148.88	1,524.48	345.55	2,664.18	2,596.27	67.90	39.235		
6,400.00	5,286.55	6,133.41	5,885.67	70.29	35.08	-149.44	1,544.72	377.77	2,702.24	2,633.04	69.21	39.047		
6,500.00	5,362.67	6,188.00	5,938.23	71.69	35.41	-149.66	1,552.48	390.30	2,741.16	2,671.32	69.84	39.250		
6,600.00	5,438.80	6,258.59	6,006.41	73.09	35.81	-149.95	1,562.23	405.78	2,781.12	2,710.54	70.57	39.407		
6,700.00	5,514.93	6,317.06	6,062.91	74.49	36.13	-150.18	1,570.69	418.21	2,821.86	2,750.66	71.21	39.629		
6,800.00	5,591.05	6,372.13	6,116.36	75.89	36.44	-150.40	1,578.14	429.17	2,863.85	2,792.06	71.79	39.893		
6,900.00	5,667.18	6,473.57	6,215.13	77.29	36.97	-150.84	1,590.26	448.87	2,906.37	2,833.66	72.71	39.973		
7,000.00	5,743.30	7,000.00	6,533.44	78.69	40.19	-152.14	1,630.51	528.90	2,943.55	2,867.31	76.25	38.605		
7,100.00	5,819.43	6,860.51	6,586.74	80.09	39.28	-152.33	1,638.65	544.42	2,978.80	2,902.81	75.99	39.199		
7,200.00	5,895.56	6,902.00	6,626.37	81.49	39.54	-152.46	1,644.66	555.11	3,015.75	2,939.21	76.54	39.400		
7,300.00	5,971.68	6,995.25	6,715.80	82.90	40.11	-152.77	1,657.18	578.38	3,053.54	2,976.09	77.45	39.426		
7,400.00	6,047.81	7,032.29	6,751.47	84.30	40.32	-152.90	1,661.68	587.30	3,092.16	3,014.25	77.91	39.690		
7,500.00	6,123.94	7,080.00	6,797.65	85.70	40.60	-153.08	1,667.11	597.96	3,132.39	3,053.98	78.42	39.945		
7,600.00	6,200.06	7,110.58	6,827.38	87.10	40.75	-153.20	1,670.39	604.31	3,174.11	3,095.35	78.76	40.299		
7,700.00	6,276.19	7,482.43	7,179.97	88.50	42.28	-155.99	1,628.46	692.67	3,212.43	3,133.06	79.37	40.475		
7,800.00	6,352.31	7,525.00	7,218.49	89.90	42.41	-156.47	1,613.77	703.29	3,249.24	3,169.84	79.40	40.923		
7,900.00	6,428.44	7,525.00	7,218.49	91.31	42.41	-156.47	1,613.77	703.29	3,287.69	3,208.10	79.59	41.308		
8,000.00	6,504.57	7,525.00	7,218.49	92.71	42.41	-156.47	1,613.77	703.29	3,328.69	3,248.97	79.72	41.752		
8,100.00	6,580.69	7,575.41	7,264.26	94.11	42.51	-157.04	1,595.78	714.33	3,371.08	3,291.45	79.63	42.334		
8,200.00	6,656.82	7,614.00	7,299.06	95.51	42.59	-157.48	1,580.87	721.81	3,415.70	3,336.15	79.55	42.939		
8,300.00	6,732.95	7,664.45	7,344.13	96.91	42.67	-158.08	1,560.22	731.18	3,461.81	3,382.42	79.39	43.605		
8,400.00	6,809.07	7,724.51	7,396.99	98.32	42.76	-158.81	1,534.12	742.62	3,508.60	3,429.43	79.17	44.316		
8,500.00	6,885.20	7,754.07	7,422.53	99.72	42.80	-159.18	1,520.22	747.98	3,556.95	3,477.90	79.05	44.999		
8,600.00	6,961.32	7,792.00	7,454.71	101.12	42.85	-159.67	1,501.22	754.42	3,606.95	3,528.09	78.85	45.742		
8,700.00	7,037.45	8,700.00	7,578.88	102.52	44.30	-161.90	1,406.56	784.04	3,657.00	3,578.26	78.73	46.447		
8,732.15	7,061.92	8,732.15	7,591.53	102.97	44.38	-162.14	1,395.86	787.40	3,673.22	3,594.55	78.67	46.694		
8,750.00	7,075.57	8,750.00	7,598.73	103.22	44.43	-165.35	1,389.78	789.30	3,682.27	3,603.65	78.63	46.832		
8,800.00	7,114.27	7,970.00	7,592.99	103.91	43.00	-174.17	1,394.63	787.78	3,707.92	3,630.05	77.86	47.623		
8,850.00	7,153.47	7,999.08	7,613.47	104.58	43.01	176.21	1,374.82	793.55	3,733.36	3,655.67	77.69	48.052		
8,900.00	7,192.85	8,008.20	7,619.61	105.21	43.01	166.79	1,368.29	795.26	3,758.91	3,681.27	77.64	48.416		
8,950.00	7,232.12	8,017.75	7,625.88	105.80	43.01	157.51	1,361.30	796.98	3,784.15	3,706.57	77.58	48.777		
9,000.00	7,270.99	8,027.67	7,632.22	106.35	43.02	148.62	1,353.87	798.71	3,808.90	3,731.38	77.52	49.133		
9,050.00	7,309.16	8,059.00	7,651.09	106.85	43.03	140.12	1,329.38	803.75	3,833.18	3,755.85	77.32	49.575		
9,100.00	7,346.32	8,059.00	7,651.09	107.30	43.03	132.58	1,329.38	803.75	3,856.19	3,778.86	77.34	49.863		
9,150.00	7,382.22	8,059.00	7,651.09	107.69	43.03	125.75	1,329.38	803.75	3,878.27	3,800.91	77.36	50.133		
9,200.00	7,416.56	8,059.00	7,651.09	108.02	43.03	119.66	1,329.38	803.75	3,899.26	3,821.86	77.40	50.380		
9,250.00	7,449.09	8,087.53	7,666.78	108.29	43.00	114.18	1,305.91	807.83	3,918.69	3,841.45	77.24	50.734		
9,300.00	7,479.56	8,101.97	7,674.22	108.51	42.99	109.46	1,293.68	809.73	3,936.66	3,859.46	77.20	50.993		
9,350.00	7,507.74	8,116.62	7,681.42	108.68	42.98	105.40	1,281.06	811.55	3,952.97	3,875.80	77.18	51.220		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,400.00	7,533.41	8,148.00	7,695.60	108.79	42.97	101.92	1,253.29	815.08	3,967.62	3,890.59	77.03	51.509		
9,450.00	7,556.39	8,148.00	7,695.60	108.86	42.97	99.05	1,253.29	815.08	3,980.17	3,902.99	77.18	51.569		
9,500.00	7,576.48	8,175.04	7,706.77	108.88	42.93	96.67	1,228.82	817.83	3,990.80	3,913.67	77.13	51.740		
9,550.00	7,593.55	8,205.50	7,718.59	108.86	42.90	94.80	1,200.90	820.81	3,999.21	3,922.13	77.08	51.884		
9,600.00	7,607.46	8,237.00	7,729.94	108.80	42.87	93.40	1,171.67	823.73	4,005.34	3,928.30	77.05	51.986		
9,650.00	7,618.11	8,261.44	7,738.24	108.71	42.83	92.45	1,148.78	825.87	4,009.20	3,932.07	77.13	51.980		
9,700.00	7,625.41	8,286.49	7,746.42	108.59	42.80	91.93	1,125.20	827.92	4,010.79	3,933.54	77.25	51.923		
9,750.00	7,629.30	8,327.00	7,758.92	108.45	42.76	91.88	1,086.78	830.90	4,010.17	3,932.91	77.26	51.906		
9,781.81	7,630.00	8,327.00	7,758.92	108.35	42.76	91.98	1,086.78	830.90	4,008.51	3,930.99	77.52	51.710		
9,800.00	7,630.00	8,327.00	7,758.92	108.29	42.76	91.98	1,086.78	830.90	4,007.38	3,929.70	77.67	51.592		
9,900.00	7,630.00	8,367.30	7,770.20	107.97	42.71	92.14	1,048.17	833.29	4,002.04	3,923.85	78.19	51.181		
10,000.00	7,630.00	8,416.00	7,781.93	107.67	42.66	92.31	1,000.94	835.16	3,998.46	3,919.82	78.64	50.846		
10,100.00	7,630.00	8,416.00	7,781.93	107.38	42.66	92.31	1,000.94	835.16	3,996.54	3,916.96	79.58	50.220		
10,158.84	7,630.00	8,449.51	7,788.50	107.22	42.61	92.40	968.10	835.68	3,996.09	3,916.27	79.82	50.062		
10,200.00	7,630.00	8,461.19	7,790.43	107.10	42.59	92.43	956.58	835.68	3,996.24	3,916.14	80.10	49.891		
10,300.00	7,630.00	8,505.00	7,796.00	106.84	42.54	92.51	913.13	834.86	3,997.96	3,917.34	80.62	49.589		
10,400.00	7,630.00	8,801.58	7,804.46	106.59	42.43	92.63	616.83	836.40	3,996.42	3,917.24	79.18	50.476		
10,500.00	7,630.00	8,861.00	7,804.98	106.35	42.49	92.64	557.42	837.10	3,994.62	3,914.89	79.74	50.096		
10,570.17	7,630.00	8,861.00	7,804.98	106.19	42.49	92.64	557.42	837.10	3,994.01	3,913.67	80.34	49.715		
10,600.00	7,630.00	8,861.00	7,804.98	106.13	42.49	92.64	557.42	837.10	3,994.12	3,913.53	80.59	49.561		
10,700.00	7,630.00	8,911.94	7,804.79	105.92	42.52	92.64	506.49	836.46	3,995.25	3,914.00	81.25	49.173		
10,800.00	7,630.00	8,950.00	7,804.26	105.72	42.57	92.63	468.45	835.25	3,998.01	3,916.04	81.97	48.773		
10,900.00	7,630.00	9,161.90	7,803.44	105.54	42.97	92.61	256.65	829.29	4,000.83	3,918.38	82.46	48.521		
11,000.00	7,630.00	9,286.29	7,802.57	105.37	43.41	92.60	132.27	827.98	4,001.58	3,918.16	83.42	47.969		
11,100.00	7,630.00	9,421.51	7,803.35	105.21	44.04	92.61	-2.94	828.07	4,001.18	3,916.50	84.68	47.249		
11,200.00	7,630.00	9,524.98	7,803.10	105.06	44.65	92.61	-106.41	828.70	4,000.22	3,914.24	85.97	46.528		
11,300.00	7,630.00	9,615.65	7,802.21	104.93	45.26	92.60	-197.08	828.94	3,999.57	3,912.28	87.29	45.822		
11,396.57	7,630.00	9,685.87	7,800.92	104.82	45.77	92.58	-267.28	829.04	3,999.10	3,910.62	88.48	45.199		
11,400.00	7,630.00	9,687.31	7,800.88	104.82	45.78	92.58	-268.72	829.03	3,999.10	3,910.59	88.51	45.182		
11,500.00	7,630.00	9,729.29	7,799.31	104.72	46.10	92.56	-310.67	828.48	3,999.92	3,910.41	89.51	44.688		
11,600.00	7,630.00	10,034.83	7,798.40	104.63	48.89	92.54	-615.93	830.89	3,998.54	3,904.91	93.62	42.708		
11,700.00	7,630.00	10,116.61	7,801.25	104.55	49.75	92.59	-697.62	833.45	3,995.21	3,899.89	95.33	41.910		
11,800.00	7,630.00	10,239.37	7,805.10	104.50	51.12	92.65	-820.26	837.45	3,991.76	3,894.01	97.75	40.834		
11,900.00	7,630.00	10,332.27	7,807.74	104.45	52.20	92.69	-913.06	840.74	3,988.03	3,888.25	99.78	39.968		
12,000.00	7,630.00	12,000.00	7,810.05	104.43	74.50	92.72	-1,053.23	846.23	3,983.80	3,860.22	123.58	32.237		
12,100.00	7,630.00	10,521.13	7,810.89	104.42	54.51	92.74	-1,101.73	848.33	3,979.58	3,875.53	104.05	38.246		
12,200.00	7,630.00	10,554.00	7,811.05	104.42	54.92	92.74	-1,134.59	849.04	3,977.15	3,872.08	105.07	37.853		
12,300.00	7,630.00	10,623.32	7,810.82	104.45	55.79	92.74	-1,203.91	849.66	3,975.93	3,869.14	106.79	37.233		
12,400.00	7,630.00	10,692.79	7,810.20	104.49	56.66	92.73	-1,273.38	849.67	3,975.53	3,867.01	108.52	36.633		
12,403.15	7,630.00	10,695.03	7,810.18	104.49	56.69	92.73	-1,275.62	849.66	3,975.53	3,866.95	108.58	36.614		
12,500.00	7,630.00	10,780.73	7,809.11	104.55	57.79	92.71	-1,361.31	849.09	3,975.78	3,865.13	110.65	35.930		
12,600.00	7,630.00	10,890.54	7,807.04	104.63	59.22	92.68	-1,471.10	848.44	3,975.94	3,862.66	113.28	35.098		
12,700.00	7,630.00	10,992.68	7,802.84	104.73	60.59	92.62	-1,573.15	847.89	3,975.95	3,860.16	115.79	34.338		
12,800.00	7,630.00	11,102.18	7,795.70	104.85	62.08	92.52	-1,682.41	847.36	3,975.81	3,857.31	118.49	33.553		
12,898.38	7,630.00	11,190.85	7,789.30	104.99	63.31	92.43	-1,770.85	847.00	3,975.59	3,854.81	120.77	32.918		
12,900.00	7,630.00	11,192.06	7,789.21	104.99	63.32	92.42	-1,772.05	846.99	3,975.59	3,854.78	120.80	32.909		
13,000.00	7,630.00	11,278.23	7,782.61	105.15	64.53	92.33	-1,857.96	846.17	3,975.87	3,852.81	123.06	32.309		
13,100.00	7,630.00	11,382.23	7,774.31	105.34	66.00	92.21	-1,961.63	845.18	3,976.16	3,850.41	125.76	31.618		
13,200.00	7,630.00	11,501.81	7,763.58	105.56	67.71	92.05	-2,080.72	844.26	3,976.28	3,847.41	128.87	30.855		
13,300.00	7,630.00	11,615.66	7,751.70	105.80	69.37	91.88	-2,193.94	844.19	3,975.61	3,843.72	131.89	30.143		
13,348.50	7,630.00	11,642.76	7,749.49	105.92	69.77	91.85	-2,220.96	844.10	3,975.48	3,842.80	132.67	29.964		
13,400.00	7,630.00	11,681.00	7,747.32	106.06	70.33	91.82	-2,259.13	843.76	3,975.64	3,841.89	133.75	29.725		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	11,815.13	7,743.29	106.36	72.32	91.76	-2,393.19	843.76	3,975.10	3,837.64	137.46	28.919		
13,551.05	7,630.00	11,847.33	7,743.04	106.52	72.80	91.76	-2,425.40	843.73	3,974.95	3,836.54	138.41	28.718		
13,600.00	7,630.00	11,883.52	7,743.14	106.68	73.34	91.76	-2,461.59	843.56	3,975.02	3,835.55	139.47	28.501		
13,700.00	7,630.00	11,975.77	7,744.79	107.03	74.72	91.78	-2,553.82	842.84	3,975.51	3,833.35	142.16	27.965		
13,800.00	7,630.00	12,152.70	7,748.56	107.42	77.41	91.84	-2,730.70	843.52	3,974.74	3,827.46	147.27	26.989		
13,900.00	7,630.00	12,215.00	7,750.92	107.83	78.37	91.87	-2,792.95	843.95	3,973.80	3,824.61	149.19	26.636		
14,000.00	7,630.00	12,362.59	7,757.51	108.28	80.66	91.97	-2,940.39	845.36	3,972.64	3,819.03	153.61	25.861		
14,100.00	7,630.00	12,494.40	7,762.98	108.77	82.74	92.05	-3,072.05	847.98	3,970.44	3,812.82	157.62	25.190		
14,200.00	7,630.00	12,560.68	7,766.06	109.29	83.78	92.10	-3,138.25	849.24	3,968.36	3,808.66	159.70	24.849		
14,300.00	7,630.00	12,677.46	7,772.00	109.84	85.64	92.18	-3,254.86	851.39	3,966.36	3,803.04	163.32	24.286		
14,400.00	7,630.00	12,729.94	7,774.79	110.43	86.47	92.22	-3,307.25	852.09	3,964.88	3,799.89	164.99	24.031		
14,500.00	7,630.00	12,835.42	7,780.79	111.06	88.15	92.31	-3,412.56	852.71	3,964.19	3,795.90	168.29	23.555		
14,600.00	7,630.00	12,956.59	7,787.58	111.72	90.09	92.41	-3,533.53	854.62	3,962.42	3,790.31	172.11	23.023		
14,700.00	7,630.00	13,017.00	7,791.32	112.42	91.06	92.46	-3,593.82	855.06	3,961.53	3,787.49	174.04	22.763		
14,800.00	7,630.00	13,165.38	7,800.07	113.16	93.45	92.59	-3,741.93	856.33	3,960.70	3,781.95	178.75	22.157		
14,900.00	7,630.00	13,238.52	7,803.92	113.94	94.63	92.65	-3,814.96	857.51	3,959.07	3,777.97	181.09	21.862		
14,988.88	7,630.00	13,285.00	7,806.01	114.66	95.39	92.68	-3,861.40	857.70	3,958.60	3,776.02	182.57	21.682		
15,000.00	7,630.00	13,285.00	7,806.01	114.75	95.39	92.68	-3,861.40	857.70	3,958.61	3,776.04	182.57	21.683		
15,100.00	7,630.00	13,347.61	7,808.08	115.60	96.39	92.71	-3,923.97	857.19	3,959.28	3,774.74	184.54	21.455		
15,200.00	7,630.00	13,433.64	7,809.22	116.48	97.77	92.72	-4,009.97	855.58	3,960.86	3,773.60	187.26	21.152		
15,300.00	7,630.00	13,561.18	7,807.94	117.40	99.83	92.70	-4,137.49	853.46	3,962.14	3,770.82	191.32	20.710		
15,400.00	7,630.00	13,908.00	7,810.83	118.35	105.54	92.75	-4,484.02	860.32	3,959.76	3,757.23	202.53	19.552		
15,500.00	7,630.00	13,977.62	7,812.07	119.34	106.71	92.77	-4,553.54	863.73	3,954.67	3,749.84	204.83	19.307		
15,600.00	7,630.00	13,997.00	7,812.30	120.35	107.04	92.78	-4,572.91	864.53	3,950.94	3,745.46	205.48	19.228		
15,700.00	7,630.00	14,047.00	7,812.68	121.40	107.86	92.78	-4,622.89	865.77	3,948.61	3,741.52	207.09	19.067		
15,789.35	7,630.00	14,086.00	7,812.81	122.36	108.51	92.78	-4,661.89	865.69	3,948.24	3,739.93	208.31	18.953		
15,800.00	7,630.00	14,086.00	7,812.81	122.48	108.51	92.78	-4,661.89	865.69	3,948.26	3,739.96	208.30	18.955		
15,900.00	7,630.00	14,122.82	7,812.63	123.58	109.11	92.78	-4,698.71	865.02	3,949.47	3,740.07	209.40	18.861		
16,000.00	7,630.00	14,176.02	7,811.61	124.71	109.98	92.77	-4,751.87	863.48	3,951.93	3,740.91	211.02	18.728		
16,100.00	7,630.00	14,329.77	7,811.53	125.87	112.49	92.76	-4,905.56	859.49	3,954.11	3,737.99	216.12	18.296		
16,200.00	7,630.00	14,470.79	7,812.23	127.05	114.82	92.77	-5,046.55	857.53	3,955.16	3,734.35	220.80	17.913		
16,300.00	7,630.00	14,576.35	7,813.58	128.26	116.57	92.79	-5,152.10	856.48	3,955.88	3,731.59	224.28	17.638		
16,400.00	7,630.00	14,740.52	7,815.58	129.48	119.30	92.82	-5,316.26	856.49	3,955.60	3,725.81	229.79	17.214		
16,500.00	7,630.00	14,840.67	7,816.98	130.73	120.98	92.84	-5,416.39	857.52	3,954.31	3,721.19	233.11	16.963		
16,600.00	7,630.00	14,938.00	7,818.83	132.00	122.62	92.87	-5,513.70	858.14	3,953.43	3,717.08	236.35	16.727		
16,700.00	7,630.00	15,029.06	7,820.46	133.29	124.15	92.89	-5,604.74	858.94	3,952.32	3,712.95	239.37	16.511		
16,800.00	7,630.00	15,136.95	7,824.58	134.59	125.97	92.95	-5,712.55	859.52	3,951.65	3,708.66	243.00	16.262		
16,900.00	7,630.00	15,261.75	7,828.00	135.91	128.08	93.00	-5,837.29	860.99	3,950.27	3,703.06	247.21	15.979		
17,000.00	7,630.00	15,348.22	7,829.47	137.25	129.54	93.03	-5,923.74	862.02	3,948.84	3,698.74	250.09	15.790		
17,100.00	7,630.00	15,430.00	7,830.67	138.61	130.92	93.04	-6,005.51	862.75	3,947.69	3,694.89	252.81	15.616		
17,180.31	7,630.00	15,477.35	7,831.54	139.70	131.72	93.06	-6,052.85	862.88	3,947.31	3,692.98	254.33	15.520		
17,200.00	7,630.00	15,487.99	7,831.78	139.97	131.90	93.06	-6,063.49	862.85	3,947.34	3,692.67	254.67	15.500		
17,300.00	7,630.00	15,572.58	7,834.10	141.36	133.33	93.09	-6,148.04	862.10	3,947.98	3,690.51	257.48	15.333		
17,400.00	7,630.00	15,750.94	7,839.87	142.75	136.35	93.18	-6,326.30	862.56	3,947.54	3,683.89	263.64	14.973		
17,500.00	7,630.00	15,857.97	7,842.91	144.16	138.17	93.22	-6,433.29	864.00	3,946.01	3,678.74	267.27	14.764		
17,600.00	7,630.00	17,600.00	7,846.31	145.58	168.01	93.28	-6,545.16	865.83	3,944.20	3,645.00	299.20	13.182		
17,700.00	7,630.00	16,029.93	7,847.88	147.01	141.11	93.30	-6,605.15	866.59	3,942.79	3,669.75	273.05	14.440		
17,800.00	7,630.00	16,110.76	7,849.78	148.45	142.48	93.33	-6,685.96	866.77	3,942.34	3,666.60	275.74	14.297		
17,900.00	7,630.00	17,900.00	7,854.36	149.91	173.27	93.40	-6,881.02	869.56	3,940.63	3,630.52	310.12	12.707		
18,000.00	7,630.00	16,379.87	7,855.11	151.37	147.09	93.41	-6,954.96	871.42	3,937.94	3,652.95	285.00	13.818		
18,100.00	7,630.00	16,441.25	7,855.35	152.84	148.14	93.41	-7,016.33	872.14	3,936.41	3,649.40	287.01	13.715		
18,200.00	7,630.00	16,520.66	7,855.63	154.32	149.50	93.42	-7,095.74	872.52	3,935.60	3,645.94	289.66	13.587		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,300.00	7,630.00	16,612.58	7,855.90	155.81	151.07	93.42	-7,187.66	872.69	3,935.10	3,642.35	292.76	13.442	
18,400.00	7,630.00	16,709.06	7,856.38	157.31	152.71	93.43	-7,284.14	872.64	3,934.85	3,638.83	296.02	13.292	
18,500.00	7,630.00	16,831.44	7,858.09	158.81	154.81	93.45	-7,406.50	873.04	3,934.27	3,634.03	300.24	13.104	
18,600.00	7,630.00	16,987.25	7,861.01	160.32	157.49	93.50	-7,562.27	875.09	3,932.75	3,627.09	305.66	12.866	
18,700.00	7,630.00	17,128.70	7,863.37	161.84	159.93	93.54	-7,703.65	878.78	3,929.90	3,619.36	310.55	12.655	
18,800.00	7,630.00	17,234.66	7,864.65	163.37	161.76	93.56	-7,809.55	882.21	3,926.40	3,612.22	314.18	12.497	
18,900.00	7,630.00	17,313.01	7,865.10	164.90	163.12	93.57	-7,887.87	884.51	3,923.18	3,606.33	316.84	12.382	
19,000.00	7,630.00	17,390.00	7,865.23	166.43	164.45	93.57	-7,964.83	886.22	3,920.61	3,601.16	319.45	12.273	
19,100.00	7,630.00	17,461.46	7,865.49	167.98	165.69	93.58	-8,036.28	887.35	3,918.68	3,596.84	321.84	12.176	
19,200.00	7,630.00	17,561.05	7,866.57	169.53	167.40	93.59	-8,135.86	888.64	3,917.13	3,591.88	325.25	12.043	
19,300.00	7,630.00	17,632.05	7,867.45	171.08	168.63	93.61	-8,206.85	889.37	3,915.86	3,588.24	327.62	11.953	
19,400.00	7,630.00	17,708.07	7,868.23	172.64	169.93	93.62	-8,282.87	889.56	3,915.33	3,585.18	330.15	11.859	
19,451.92	7,630.00	17,749.77	7,868.63	173.45	170.65	93.63	-8,324.57	889.50	3,915.26	3,583.71	331.54	11.809	
19,500.00	7,630.00	17,790.93	7,869.00	174.21	171.36	93.63	-8,365.72	889.33	3,915.31	3,582.38	332.93	11.760	
19,518.56	7,630.00	17,809.49	7,869.16	174.50	171.68	93.63	-8,384.28	889.25	3,915.34	3,581.78	333.56	11.738 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-33.26	218.57	-143.36	261.52				
100.00	100.00	94.51	94.50	0.13	0.16	-33.36	217.94	-143.50	260.95	260.66	0.29	888.556	
200.00	200.00	198.07	198.04	0.49	0.39	-33.74	215.68	-144.05	259.43	258.54	0.88	293.168	
300.00	300.00	300.98	300.77	0.85	0.78	-34.84	210.19	-146.31	256.25	254.62	1.62	157.849	
400.00	400.00	397.19	396.61	1.21	1.14	-36.64	203.26	-151.16	253.34	251.00	2.34	108.085	
450.31	450.31	444.21	443.42	1.39	1.33	-104.44	200.21	-154.30	252.89	250.18	2.70	93.505 CC, ES	
500.00	499.98	491.48	490.45	1.56	1.51	-105.77	197.32	-158.00	253.26	250.20	3.07	82.596	
600.00	599.84	586.29	584.61	1.92	1.89	-109.24	191.34	-167.39	256.56	252.75	3.81	67.426	
700.00	699.45	679.07	676.30	2.29	2.28	-113.75	184.41	-179.74	263.98	259.42	4.56	57.867	
800.00	798.70	769.02	764.74	2.67	2.69	-118.77	177.17	-194.41	276.93	271.60	5.33	51.975	
900.00	897.47	855.47	849.14	3.07	3.10	-123.98	169.40	-211.41	296.63	290.55	6.09	48.737	
1,000.00	995.62	946.41	937.46	3.50	3.56	-129.39	160.99	-231.37	323.31	316.45	6.86	47.106	
1,100.00	1,093.06	1,040.90	1,029.42	3.96	4.04	-134.56	151.50	-250.94	353.98	346.34	7.65	46.293 SF	
1,200.00	1,189.64	1,128.98	1,115.20	4.46	4.50	-138.91	142.22	-268.66	389.15	380.76	8.38	46.417	
1,300.00	1,285.27	1,220.60	1,204.36	5.00	4.98	-143.06	131.89	-286.97	428.99	419.86	9.13	46.989	
1,400.00	1,379.82	1,311.91	1,293.57	5.60	5.44	-146.64	122.00	-303.77	472.12	462.26	9.86	47.866	
1,500.00	1,473.17	1,394.33	1,374.22	6.25	5.86	-149.41	113.35	-318.37	518.96	508.43	10.54	49.249	
1,600.00	1,565.21	1,469.56	1,447.70	6.95	6.25	-151.66	105.22	-332.35	570.53	559.36	11.16	51.109	
1,700.00	1,655.84	1,541.36	1,517.65	7.72	6.62	-153.53	97.58	-346.62	626.86	615.09	11.77	53.280	
1,800.00	1,744.94	1,613.69	1,587.99	8.55	7.01	-155.22	89.75	-361.55	687.29	674.91	12.37	55.546	
1,900.00	1,832.39	1,688.16	1,660.33	9.45	7.41	-156.82	81.40	-377.08	751.16	738.16	13.00	57.774	
2,000.00	1,918.11	1,763.03	1,733.12	10.41	7.81	-158.25	72.98	-392.50	817.92	804.29	13.64	59.982	
2,100.00	2,001.97	1,839.68	1,807.80	11.45	8.22	-159.50	65.22	-407.93	887.14	872.85	14.29	62.083	
2,200.00	2,083.88	1,917.01	1,883.32	12.56	8.61	-160.59	57.86	-422.77	958.37	943.42	14.95	64.105	
2,300.00	2,163.74	1,990.17	1,954.98	13.74	8.98	-161.38	52.36	-436.48	1,031.63	1,016.04	15.59	66.192	
2,400.00	2,241.45	2,047.28	2,010.95	14.99	9.26	-161.70	48.90	-447.29	1,107.28	1,091.17	16.11	68.738	
2,421.22	2,257.65	2,058.87	2,022.30	15.26	9.32	-161.75	48.20	-449.54	1,123.69	1,107.47	16.22	69.277	
2,500.00	2,317.63	2,100.51	2,063.05	16.29	9.53	-162.48	45.76	-457.74	1,185.00	1,168.40	16.60	71.373	
2,600.00	2,393.75	2,150.67	2,112.06	17.62	9.78	-163.25	43.04	-468.05	1,263.42	1,246.35	17.07	74.017	
2,700.00	2,469.88	2,202.19	2,162.31	18.95	10.04	-163.94	40.52	-479.13	1,342.44	1,324.89	17.55	76.496	
2,800.00	2,546.01	2,256.34	2,215.07	20.30	10.33	-164.60	37.75	-491.00	1,421.85	1,403.80	18.05	78.767	
2,900.00	2,622.13	2,313.00	2,270.24	21.65	10.62	-165.23	34.71	-503.58	1,501.54	1,482.96	18.58	80.832	
3,000.00	2,698.26	2,371.74	2,327.41	23.01	10.93	-165.81	31.73	-516.73	1,581.36	1,562.24	19.12	82.704	
3,100.00	2,774.38	2,442.44	2,396.27	24.37	11.30	-166.43	28.40	-532.39	1,661.04	1,641.27	19.76	84.040	
3,200.00	2,850.51	2,496.88	2,449.34	25.74	11.58	-166.86	25.80	-544.26	1,740.58	1,720.30	20.28	85.823	
3,300.00	2,926.64	2,544.87	2,496.06	27.11	11.83	-167.25	22.87	-554.85	1,820.53	1,799.79	20.74	87.762	
3,400.00	3,002.76	2,612.08	2,561.44	28.49	12.19	-167.77	18.16	-569.65	1,900.65	1,879.28	21.37	88.954	
3,500.00	3,078.89	2,680.72	2,628.32	29.87	12.56	-168.27	13.31	-584.34	1,980.45	1,958.45	22.00	90.008	
3,600.00	3,155.02	2,747.05	2,692.99	31.25	12.90	-168.72	8.43	-598.27	2,060.10	2,037.48	22.62	91.068	
3,700.00	3,231.14	2,829.98	2,773.97	32.63	13.33	-169.23	2.51	-615.13	2,139.36	2,115.98	23.38	91.517	
3,800.00	3,307.27	2,903.63	2,846.02	34.01	13.71	-169.64	-2.46	-629.56	2,218.13	2,194.08	24.06	92.205	
3,900.00	3,383.39	2,955.50	2,896.79	35.40	13.97	-169.91	-5.93	-639.60	2,296.80	2,272.24	24.56	93.513	
4,000.00	3,459.52	2,996.47	2,936.83	36.79	14.18	-170.10	-8.66	-647.87	2,375.97	2,350.99	24.98	95.125	
4,100.00	3,535.65	3,021.00	2,960.76	38.18	14.31	-170.22	-10.29	-652.98	2,455.73	2,430.48	25.25	97.240	
4,200.00	3,611.77	3,067.12	3,005.65	39.57	14.56	-170.42	-13.51	-663.03	2,536.00	2,510.28	25.71	98.623	
4,300.00	3,687.90	3,114.00	3,051.13	40.96	14.81	-170.62	-17.08	-673.85	2,617.03	2,590.85	26.18	99.961	
4,400.00	3,764.02	3,147.80	3,083.85	42.35	15.00	-170.76	-19.80	-681.85	2,698.41	2,671.87	26.54	101.692	
4,500.00	3,840.15	3,218.18	3,152.05	43.74	15.40	-171.05	-25.60	-698.29	2,779.81	2,752.60	27.21	102.169	
4,600.00	3,916.28	3,355.71	3,285.86	45.13	16.14	-171.58	-37.05	-727.86	2,860.11	2,831.66	28.45	100.527	
4,700.00	3,992.40	3,420.47	3,349.11	46.53	16.48	-171.81	-42.21	-740.75	2,939.47	2,910.40	29.07	101.108	
4,800.00	4,068.53	3,456.20	3,383.97	47.92	16.66	-171.93	-45.07	-748.09	3,019.24	2,989.79	29.45	102.520	
4,900.00	4,144.66	3,490.00	3,416.87	49.32	16.84	-172.04	-47.81	-755.30	3,099.50	3,069.69	29.81	103.974	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	3,522.36	3,448.32	50.71	17.02	-172.14	-50.40	-762.48	3,180.27	3,150.11	30.16	105.451		
5,100.00	4,296.91	3,552.93	3,477.97	52.11	17.19	-172.22	-52.79	-769.57	3,261.55	3,231.06	30.49	106.968		
5,200.00	4,373.03	3,584.00	3,508.02	53.51	17.36	-172.30	-55.13	-777.06	3,343.32	3,312.50	30.83	108.454		
5,300.00	4,449.16	3,771.00	3,689.63	54.90	18.39	-172.73	-68.14	-819.60	3,424.21	3,391.68	32.53	105.275		
5,400.00	4,525.29	3,817.63	3,735.14	56.30	18.63	-172.84	-71.68	-829.18	3,503.99	3,470.99	33.00	106.175		
5,500.00	4,601.41	3,864.00	3,780.29	57.70	18.88	-172.95	-75.17	-839.13	3,584.24	3,550.76	33.48	107.069		
5,600.00	4,677.54	3,927.13	3,841.74	59.10	19.22	-173.09	-80.11	-852.71	3,664.61	3,630.52	34.10	107.480		
5,700.00	4,753.66	3,997.73	3,910.55	60.49	19.59	-173.25	-85.98	-867.38	3,744.66	3,709.88	34.78	107.670		
5,800.00	4,829.79	4,057.07	3,968.40	61.89	19.91	-173.38	-90.84	-879.71	3,824.69	3,789.33	35.37	108.144		
5,900.00	4,905.92	4,096.65	4,006.95	63.29	20.12	-173.47	-94.19	-888.01	3,904.89	3,869.11	35.79	109.119		
6,000.00	4,982.04	4,136.61	4,045.82	64.69	20.34	-173.56	-97.87	-896.48	3,985.39	3,949.19	36.21	110.073		
6,100.00	5,058.17	4,176.77	4,084.85	66.09	20.56	-173.65	-101.79	-905.11	4,066.18	4,029.55	36.63	111.005		
6,200.00	5,134.30	5,230.10	5,127.22	67.49	24.74	-175.16	-148.51	-1,019.56	4,138.12	4,093.46	44.67	92.647		
6,300.00	5,210.42	5,310.31	5,207.43	68.89	24.94	-175.25	-149.16	-1,019.32	4,202.83	4,157.45	45.37	92.626		
6,400.00	5,286.55	5,398.70	5,295.80	70.29	25.15	-175.35	-150.16	-1,018.70	4,267.33	4,221.20	46.13	92.501		
6,500.00	5,362.67	5,474.06	5,371.16	71.69	25.34	-175.44	-151.16	-1,017.97	4,331.70	4,284.88	46.81	92.534		
6,600.00	5,438.80	5,529.07	5,426.16	73.09	25.48	-175.50	-151.87	-1,017.63	4,396.32	4,348.95	47.37	92.809		
6,700.00	5,514.93	5,593.06	5,490.15	74.49	25.65	-175.57	-152.58	-1,017.57	4,461.26	4,413.28	47.99	92.969		
6,800.00	5,591.05	5,667.30	5,564.38	75.89	25.85	-175.63	-152.95	-1,017.78	4,526.32	4,477.65	48.67	92.995		
6,900.00	5,667.18	5,752.59	5,649.67	77.29	26.08	-175.70	-152.73	-1,018.14	4,591.30	4,541.87	49.43	92.883		
7,000.00	5,743.30	5,831.57	5,728.65	78.69	26.29	-175.75	-152.29	-1,018.45	4,656.18	4,606.04	50.14	92.858		
7,100.00	5,819.43	5,900.89	5,797.97	80.09	26.48	-175.80	-151.87	-1,018.77	4,721.08	4,670.29	50.80	92.943		
7,200.00	5,895.56	5,965.63	5,862.71	81.49	26.66	-175.84	-151.47	-1,019.18	4,786.12	4,734.70	51.42	93.078		
7,300.00	5,971.68	6,027.90	5,924.97	82.90	26.83	-175.88	-151.18	-1,019.72	4,851.37	4,799.34	52.03	93.240		
7,400.00	6,047.81	6,090.92	5,987.99	84.30	27.01	-175.91	-150.86	-1,020.46	4,916.82	4,864.17	52.65	93.389		
7,500.00	6,123.94	6,163.78	6,060.85	85.70	27.22	-175.95	-150.47	-1,021.47	4,982.42	4,929.08	53.33	93.419		
7,600.00	6,200.06	6,229.47	6,126.52	87.10	27.42	-175.99	-150.33	-1,022.31	5,048.03	4,994.06	53.97	93.531		
7,700.00	6,276.19	6,280.36	6,177.41	88.50	27.57	-176.02	-150.27	-1,023.16	5,113.95	5,059.44	54.51	93.819		
7,800.00	6,352.31	6,354.24	6,251.27	89.90	27.79	-176.06	-150.21	-1,024.66	5,180.12	5,124.91	55.20	93.834		
7,900.00	6,428.44	6,432.70	6,329.72	91.31	28.03	-176.10	-150.00	-1,026.18	5,246.18	5,190.25	55.93	93.793		
8,000.00	6,504.57	6,507.81	6,404.81	92.71	28.25	-176.14	-149.72	-1,027.69	5,312.27	5,255.63	56.64	93.790		
8,100.00	6,580.69	6,601.25	6,498.23	94.11	28.54	-176.18	-149.47	-1,029.38	5,378.24	5,320.77	57.47	93.576		
8,200.00	6,656.82	6,780.27	6,677.25	95.51	29.06	-176.30	-150.59	-1,030.02	5,443.56	5,384.67	58.89	92.442		
8,300.00	6,732.95	6,846.08	6,743.06	96.91	29.23	-176.35	-151.17	-1,029.57	5,508.07	5,448.55	59.52	92.548		
8,400.00	6,809.07	6,906.58	6,803.55	98.32	29.39	-176.39	-151.49	-1,029.31	5,572.67	5,512.56	60.11	92.701		
8,500.00	6,885.20	6,963.56	6,860.53	99.72	29.55	-176.42	-151.86	-1,029.25	5,637.54	5,576.85	60.69	92.890		
8,600.00	6,961.32	7,022.00	6,918.97	101.12	29.72	-176.46	-152.26	-1,029.38	5,702.66	5,641.37	61.28	93.056		
8,700.00	7,037.45	7,080.62	6,977.59	102.52	29.90	-176.49	-152.69	-1,029.69	5,768.00	5,706.13	61.88	93.219		
8,732.15	7,061.92	7,099.54	6,996.50	102.97	29.95	-176.51	-152.85	-1,029.82	5,789.06	5,726.99	62.07	93.270		
8,750.00	7,075.57	7,110.07	7,007.04	103.22	29.99	179.99	-152.95	-1,029.90	5,800.70	5,738.53	62.17	93.298		
8,800.00	7,114.27	7,142.00	7,038.96	103.91	30.08	170.11	-153.27	-1,030.16	5,832.69	5,770.21	62.48	93.347		
8,850.00	7,153.47	7,169.82	7,066.78	104.58	30.17	160.26	-153.58	-1,030.42	5,863.57	5,800.81	62.76	93.430		
8,900.00	7,192.85	7,199.78	7,096.74	105.21	30.26	150.66	-153.90	-1,030.76	5,893.12	5,830.08	63.04	93.480		
8,950.00	7,232.12	7,229.62	7,126.57	105.80	30.35	141.49	-154.21	-1,031.14	5,921.14	5,857.83	63.31	93.521		
9,000.00	7,270.99	7,282.89	7,179.83	106.35	30.52	133.06	-154.81	-1,031.80	5,947.37	5,883.63	63.74	93.302		
9,050.00	7,309.16	7,340.91	7,237.85	106.85	30.70	125.43	-155.59	-1,032.27	5,971.54	5,907.35	64.20	93.021		
9,100.00	7,346.32	7,363.28	7,260.21	107.30	30.76	118.43	-155.96	-1,032.45	5,993.63	5,929.24	64.39	93.090		
9,150.00	7,382.22	7,390.75	7,287.67	107.69	30.85	112.31	-156.47	-1,032.67	6,013.55	5,948.95	64.60	93.087		
9,200.00	7,416.56	7,417.16	7,314.08	108.02	30.93	107.00	-157.02	-1,032.89	6,031.20	5,966.40	64.80	93.072		
9,250.00	7,449.09	7,476.10	7,372.95	108.29	31.66	104.17	-161.31	-1,030.68	6,045.94	5,979.35	66.60	90.784		
9,300.00	7,479.56	7,734.25	7,631.08	108.51	31.82	100.69	-161.33	-1,029.22	6,057.52	5,990.53	67.00	90.417		
9,350.00	7,507.74	9,350.00	7,752.77	108.68	35.92	98.40	-160.10	-1,025.07	6,066.17	5,993.81	72.36	83.832		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	8,002.45	7,898.99	108.79	32.49	96.97	-156.61	-1,018.10	6,071.98	6,003.22	68.76	88.311		
9,450.00	7,556.39	8,002.45	7,881.92	108.86	36.09	94.76	-157.15	-1,019.03	6,075.44	6,002.33	73.11	83.105		
9,500.00	7,576.48	7,984.00	7,880.57	108.88	32.44	93.18	-157.19	-1,019.09	6,076.60	6,007.90	68.70	88.447		
9,550.00	7,593.55	8,012.37	7,908.90	108.86	32.52	92.33	-156.49	-1,017.63	6,075.32	6,006.39	68.93	88.139		
9,600.00	7,607.46	8,018.25	7,914.77	108.80	32.53	91.73	-156.38	-1,017.34	6,071.83	6,002.81	69.02	87.972		
9,650.00	7,618.11	8,022.74	7,919.25	108.71	32.54	91.55	-156.31	-1,017.12	6,066.08	5,996.96	69.12	87.765		
9,700.00	7,625.41	8,025.76	7,922.27	108.59	32.55	91.76	-156.27	-1,016.97	6,058.12	5,988.90	69.22	87.518		
9,750.00	7,629.30	8,027.26	7,923.77	108.45	32.55	92.37	-156.25	-1,016.90	6,048.00	5,978.67	69.34	87.227		
9,781.81	7,630.00	8,027.40	7,923.90	108.35	32.55	92.96	-156.25	-1,016.90	6,040.48	5,971.06	69.42	87.019		
9,800.00	7,630.00	8,027.29	7,923.80	108.29	32.55	92.96	-156.25	-1,016.90	6,035.96	5,966.50	69.46	86.895		
9,900.00	7,630.00	8,026.69	7,923.20	107.97	32.55	92.95	-156.26	-1,016.93	6,012.06	5,942.31	69.75	86.197		
10,000.00	7,630.00	8,026.07	7,922.58	107.67	32.55	92.95	-156.27	-1,016.96	5,989.72	5,919.65	70.08	85.473		
10,100.00	7,630.00	8,025.43	7,921.94	107.38	32.55	92.94	-156.27	-1,016.99	5,968.98	5,898.53	70.45	84.726		
10,200.00	7,630.00	8,024.76	7,921.27	107.10	32.55	92.93	-156.28	-1,017.02	5,949.85	5,878.99	70.87	83.959		
10,300.00	7,630.00	8,024.06	7,920.57	106.84	32.55	92.93	-156.29	-1,017.06	5,932.35	5,861.02	71.32	83.174		
10,400.00	7,630.00	8,023.34	7,919.85	106.59	32.54	92.92	-156.30	-1,017.09	5,916.48	5,844.65	71.82	82.375		
10,500.00	7,630.00	8,022.58	7,919.09	106.35	32.54	92.91	-156.31	-1,017.13	5,902.26	5,829.90	72.36	81.566		
10,600.00	7,630.00	8,021.79	7,918.31	106.13	32.54	92.90	-156.33	-1,017.17	5,889.71	5,816.77	72.94	80.750		
10,700.00	7,630.00	8,020.97	7,917.48	105.92	32.54	92.90	-156.34	-1,017.21	5,878.83	5,805.28	73.55	79.930		
10,800.00	7,630.00	8,020.11	7,916.63	105.72	32.54	92.89	-156.35	-1,017.25	5,869.63	5,795.44	74.20	79.109		
10,900.00	7,630.00	8,019.21	7,915.73	105.54	32.53	92.88	-156.37	-1,017.29	5,862.13	5,787.25	74.88	78.292		
11,000.00	7,630.00	8,018.27	7,914.79	105.37	32.53	92.87	-156.38	-1,017.34	5,856.32	5,780.74	75.58	77.481		
11,100.00	7,630.00	8,017.28	7,913.80	105.21	32.53	92.86	-156.40	-1,017.39	5,852.22	5,775.90	76.32	76.680		
11,200.00	7,630.00	8,016.25	7,912.77	105.06	32.53	92.85	-156.42	-1,017.44	5,849.82	5,772.74	77.08	75.890		
11,290.27	7,630.00	8,015.27	7,911.80	104.95	32.52	92.84	-156.43	-1,017.49	5,849.12	5,771.33	77.79	75.188		
11,300.00	7,630.00	8,015.16	7,911.69	104.93	32.52	92.84	-156.44	-1,017.49	5,849.13	5,771.26	77.87	75.116		
11,400.00	7,630.00	8,014.02	7,910.55	104.82	32.52	92.83	-156.46	-1,017.55	5,850.15	5,771.48	78.67	74.359		
11,500.00	7,630.00	8,012.82	7,909.35	104.72	32.52	92.82	-156.48	-1,017.61	5,852.88	5,773.38	79.50	73.622		
11,600.00	7,630.00	8,011.55	7,908.08	104.63	32.51	92.80	-156.50	-1,017.67	5,857.32	5,776.98	80.34	72.906		
11,700.00	7,630.00	8,010.21	7,906.74	104.55	32.51	92.79	-156.53	-1,017.74	5,863.45	5,782.26	81.20	72.214		
11,800.00	7,630.00	8,008.80	7,905.33	104.50	32.51	92.78	-156.56	-1,017.81	5,871.29	5,789.23	82.06	71.546		
11,900.00	7,630.00	8,007.30	7,903.83	104.45	32.50	92.76	-156.59	-1,017.89	5,880.81	5,797.87	82.94	70.905		
12,000.00	7,630.00	8,005.71	7,902.24	104.43	32.50	92.75	-156.62	-1,017.97	5,892.02	5,808.19	83.82	70.290		
12,100.00	7,630.00	8,004.02	7,900.56	104.42	32.50	92.73	-156.66	-1,018.05	5,904.89	5,820.18	84.71	69.704		
12,200.00	7,630.00	8,002.21	7,898.76	104.42	32.49	92.71	-156.70	-1,018.15	5,919.43	5,833.82	85.61	69.147		
12,300.00	7,630.00	8,000.29	7,896.84	104.45	32.49	92.69	-156.75	-1,018.24	5,935.62	5,849.12	86.50	68.620		
12,400.00	7,630.00	7,998.24	7,894.78	104.49	32.48	92.67	-156.79	-1,018.35	5,953.44	5,866.04	87.39	68.122		
12,500.00	7,630.00	8,003.35	7,899.88	104.55	32.49	92.72	-156.58	-1,018.05	5,972.87	5,884.54	88.33	67.618		
12,600.00	7,630.00	7,998.76	7,895.31	104.63	32.48	92.68	-156.73	-1,018.30	5,993.92	5,904.72	89.21	67.192		
12,700.00	7,630.00	7,994.31	7,890.86	104.73	32.47	92.63	-156.87	-1,018.54	6,016.56	5,926.48	90.08	66.794		
12,800.00	7,630.00	7,989.98	7,886.54	104.85	32.46	92.59	-157.00	-1,018.77	6,040.76	5,949.82	90.94	66.425		
12,900.00	7,630.00	7,985.77	7,882.34	104.99	32.45	92.55	-157.13	-1,019.00	6,066.52	5,974.72	91.80	66.083		
13,000.00	7,630.00	7,981.68	7,878.26	105.15	32.44	92.51	-157.26	-1,019.21	6,093.80	6,001.15	92.65	65.770		
13,100.00	7,630.00	7,977.69	7,874.28	105.34	32.43	92.47	-157.38	-1,019.42	6,122.60	6,029.10	93.50	65.484		
13,200.00	7,630.00	7,973.82	7,870.41	105.56	32.42	92.43	-157.49	-1,019.63	6,152.88	6,058.55	94.33	65.225		
13,300.00	7,630.00	7,970.04	7,866.64	105.80	32.41	92.40	-157.60	-1,019.82	6,184.63	6,089.47	95.16	64.994		
13,400.00	7,630.00	7,966.36	7,862.96	106.06	32.40	92.36	-157.71	-1,020.01	6,217.83	6,121.86	95.97	64.789		
13,500.00	7,630.00	7,962.77	7,859.39	106.36	32.39	92.33	-157.81	-1,020.20	6,252.44	6,155.67	96.77	64.610		
13,600.00	7,630.00	7,959.28	7,855.90	106.68	32.38	92.29	-157.91	-1,020.38	6,288.46	6,190.90	97.56	64.457		
13,700.00	7,630.00	7,955.87	7,852.49	107.03	32.38	92.26	-158.00	-1,020.55	6,325.85	6,227.51	98.34	64.329		
13,800.00	7,630.00	7,952.55	7,849.18	107.42	32.37	92.23	-158.09	-1,020.72	6,364.59	6,265.49	99.10	64.226		
13,900.00	7,630.00	7,949.30	7,845.94	107.83	32.36	92.19	-158.18	-1,020.88	6,404.65	6,304.81	99.84	64.146		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,946.14	7,842.78	108.28	32.35	92.16	-158.27	-1,021.04	6,446.02	6,345.44	100.58	64.091		
14,100.00	7,630.00	7,943.05	7,839.69	108.77	32.34	92.13	-158.35	-1,021.20	6,488.66	6,387.37	101.29	64.058		
14,200.00	7,630.00	7,940.03	7,836.68	109.29	32.34	92.10	-158.43	-1,021.35	6,532.56	6,430.56	102.00	64.047		
14,300.00	7,630.00	7,937.08	7,833.73	109.84	32.33	92.07	-158.50	-1,021.50	6,577.68	6,474.99	102.68	64.058		
14,400.00	7,630.00	7,934.20	7,830.86	110.43	32.32	92.05	-158.58	-1,021.64	6,624.00	6,520.64	103.35	64.090		
14,500.00	7,630.00	7,931.38	7,828.05	111.06	32.31	92.02	-158.65	-1,021.78	6,671.50	6,567.48	104.01	64.143		
14,600.00	7,630.00	7,928.63	7,825.30	111.72	32.31	91.99	-158.72	-1,021.91	6,720.14	6,615.49	104.65	64.215		
14,700.00	7,630.00	7,925.94	7,822.61	112.42	32.30	91.97	-158.78	-1,022.04	6,769.92	6,664.65	105.27	64.307		
14,800.00	7,630.00	7,923.31	7,819.98	113.16	32.29	91.94	-158.85	-1,022.17	6,820.80	6,714.92	105.88	64.418		
14,900.00	7,630.00	7,920.73	7,817.41	113.94	32.29	91.91	-158.91	-1,022.30	6,872.75	6,766.28	106.48	64.548		
15,000.00	7,630.00	7,918.21	7,814.89	114.75	32.28	91.89	-158.97	-1,022.42	6,925.76	6,818.71	107.05	64.695		
15,100.00	7,630.00	7,915.74	7,812.43	115.60	32.28	91.87	-159.03	-1,022.54	6,979.80	6,872.19	107.62	64.859		
15,200.00	7,630.00	7,913.33	7,810.02	116.48	32.27	91.84	-159.08	-1,022.65	7,034.84	6,926.68	108.16	65.040		
15,300.00	7,630.00	7,910.96	7,807.65	117.40	32.26	91.82	-159.14	-1,022.76	7,090.87	6,982.18	108.69	65.237		
15,400.00	7,630.00	7,908.64	7,805.34	118.35	32.26	91.80	-159.19	-1,022.87	7,147.86	7,038.64	109.21	65.450		
15,500.00	7,630.00	7,906.37	7,803.07	119.34	32.25	91.77	-159.24	-1,022.98	7,205.78	7,096.06	109.71	65.678		
15,600.00	7,630.00	7,904.15	7,800.85	120.35	32.25	91.75	-159.29	-1,023.09	7,264.61	7,154.41	110.20	65.921		
15,700.00	7,630.00	7,901.92	7,798.62	121.40	32.26	91.79	-159.20	-1,022.89	7,324.34	7,213.63	110.70	66.161		
15,800.00	7,630.00	7,904.75	7,801.45	122.48	32.25	91.76	-159.27	-1,023.05	7,384.94	7,273.78	111.16	66.436		
15,900.00	7,630.00	7,901.51	7,798.22	123.58	32.24	91.73	-159.35	-1,023.21	7,446.38	7,334.78	111.60	66.724		
16,000.00	7,630.00	7,898.38	7,795.09	124.71	32.23	91.70	-159.42	-1,023.35	7,508.66	7,396.63	112.03	67.024		
16,100.00	7,630.00	7,895.37	7,792.08	125.87	32.23	91.67	-159.48	-1,023.50	7,571.75	7,459.30	112.45	67.337		
16,200.00	7,630.00	7,892.46	7,789.17	127.05	32.22	91.64	-159.54	-1,023.63	7,635.62	7,522.77	112.85	67.662		
16,300.00	7,630.00	7,889.64	7,786.37	128.26	32.21	91.61	-159.60	-1,023.76	7,700.26	7,587.02	113.24	67.998		
16,400.00	7,630.00	7,886.93	7,783.65	129.48	32.20	91.58	-159.66	-1,023.89	7,765.65	7,652.03	113.62	68.346		
16,500.00	7,630.00	7,884.30	7,781.03	130.73	32.20	91.56	-159.71	-1,024.01	7,831.77	7,717.78	113.99	68.705		
16,600.00	7,630.00	7,881.76	7,778.49	132.00	32.19	91.53	-159.76	-1,024.12	7,898.60	7,784.25	114.35	69.074		
16,700.00	7,630.00	7,879.29	7,776.03	133.29	32.19	91.51	-159.81	-1,024.23	7,966.12	7,851.43	114.70	69.454		
16,800.00	7,630.00	7,876.91	7,773.64	134.59	32.18	91.49	-159.86	-1,024.34	8,034.33	7,919.29	115.03	69.843		
16,900.00	7,630.00	7,874.60	7,771.34	135.91	32.17	91.46	-159.90	-1,024.44	8,103.19	7,987.83	115.36	70.243		
17,000.00	7,630.00	7,872.36	7,769.10	137.25	32.17	91.44	-159.94	-1,024.54	8,172.69	8,057.01	115.68	70.651		
17,100.00	7,630.00	7,870.18	7,766.93	138.61	32.16	91.42	-159.98	-1,024.63	8,242.82	8,126.84	115.98	71.069		
17,200.00	7,630.00	7,868.08	7,764.82	139.97	32.16	91.40	-160.02	-1,024.72	8,313.56	8,197.28	116.28	71.496		
17,300.00	7,630.00	7,866.03	7,762.78	141.36	32.15	91.38	-160.06	-1,024.81	8,384.90	8,268.33	116.57	71.931		
17,400.00	7,630.00	7,864.04	7,760.79	142.75	32.15	91.36	-160.09	-1,024.89	8,456.82	8,339.97	116.85	72.374		
17,500.00	7,630.00	7,862.11	7,758.86	144.16	32.14	91.34	-160.13	-1,024.97	8,529.30	8,412.18	117.12	72.825		
17,600.00	7,630.00	7,860.23	7,756.98	145.58	32.14	91.32	-160.16	-1,025.05	8,602.34	8,484.95	117.38	73.285		
17,700.00	7,630.00	7,858.40	7,755.16	147.01	32.13	91.30	-160.19	-1,025.13	8,675.91	8,558.27	117.64	73.751		
17,800.00	7,630.00	7,856.62	7,753.38	148.45	32.13	91.29	-160.22	-1,025.20	8,750.00	8,632.12	117.88	74.225		
17,900.00	7,630.00	7,854.89	7,751.65	149.91	32.12	91.27	-160.25	-1,025.27	8,824.61	8,706.49	118.12	74.707		
18,000.00	7,630.00	7,853.21	7,749.97	151.37	32.12	91.25	-160.27	-1,025.34	8,899.71	8,781.36	118.36	75.195		
18,100.00	7,630.00	7,851.57	7,748.33	152.84	32.12	91.24	-160.30	-1,025.41	8,975.30	8,856.72	118.58	75.690		
18,200.00	7,630.00	7,849.97	7,746.74	154.32	32.11	91.22	-160.33	-1,025.47	9,051.37	8,932.57	118.80	76.191		
18,300.00	7,630.00	7,848.42	7,745.18	155.81	32.11	91.21	-160.35	-1,025.53	9,127.89	9,008.88	119.01	76.698		
18,400.00	7,630.00	7,846.90	7,743.67	157.31	32.10	91.19	-160.37	-1,025.59	9,204.87	9,085.65	119.22	77.212		
18,500.00	7,630.00	7,845.42	7,742.19	158.81	32.10	91.18	-160.40	-1,025.65	9,282.28	9,162.87	119.41	77.732		
18,600.00	7,630.00	7,843.97	7,740.74	160.32	32.10	91.16	-160.42	-1,025.71	9,360.12	9,240.51	119.61	78.257		
18,700.00	7,630.00	7,842.57	7,739.34	161.84	32.09	91.15	-160.44	-1,025.76	9,438.38	9,318.58	119.79	78.788		
18,800.00	7,630.00	7,841.19	7,737.96	163.37	32.09	91.14	-160.46	-1,025.82	9,517.05	9,397.07	119.98	79.324		
18,900.00	7,630.00	7,839.85	7,736.62	164.90	32.09	91.12	-160.48	-1,025.87	9,596.11	9,475.95	120.15	79.866		
19,000.00	7,630.00	7,838.54	7,735.31	166.43	32.08	91.11	-160.50	-1,025.92	9,675.56	9,555.23	120.32	80.412		
19,100.00	7,630.00	7,837.25	7,734.03	167.98	32.08	91.10	-160.52	-1,025.97	9,755.39	9,634.89	120.49	80.964		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
19,200.00	7,630.00	7,836.00	7,732.78	169.53	32.08	91.08	-160.53	-1,026.01	9,835.58	9,714.93	120.65	81.520	
19,300.00	7,630.00	7,834.78	7,731.56	171.08	32.07	91.07	-160.55	-1,026.06	9,916.14	9,795.33	120.81	82.081	
19,400.00	7,630.00	7,833.58	7,730.36	172.64	32.07	91.06	-160.57	-1,026.11	9,997.04	9,876.08	120.96	82.647	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-38.55	218.57	-174.16	279.59				
100.00	100.00	90.69	90.69	0.13	0.15	-38.44	219.07	-173.88	279.69	279.41	0.28	990.011	ES
200.00	200.00	183.42	183.39	0.49	0.39	-38.14	220.87	-173.43	280.96	280.07	0.89	316.922	
300.00	300.00	271.40	271.25	0.85	0.71	-37.94	225.12	-175.49	286.20	284.62	1.57	181.835	
400.00	400.00	360.39	359.85	1.21	1.05	-38.07	231.11	-181.02	295.32	293.06	2.25	131.016	
500.00	499.98	449.45	448.19	1.56	1.40	-105.05	239.18	-188.85	308.33	305.39	2.94	105.026	
600.00	599.84	537.78	535.41	1.92	1.77	-105.69	249.50	-198.26	325.51	321.90	3.61	90.136	
700.00	699.45	624.12	620.19	2.29	2.16	-106.53	261.96	-208.74	346.83	342.54	4.29	80.906	
800.00	798.70	707.52	701.49	2.67	2.57	-107.53	276.34	-220.57	372.77	367.81	4.96	75.162	
900.00	897.47	789.66	780.93	3.07	3.00	-108.73	292.02	-234.34	403.18	397.54	5.64	71.495	
1,000.00	995.62	867.00	855.01	3.50	3.44	-109.90	308.58	-249.09	438.35	432.04	6.31	69.471	
1,100.00	1,093.06	949.29	933.18	3.96	3.94	-111.18	327.76	-266.23	477.69	470.66	7.03	67.905	
1,200.00	1,189.64	1,041.36	1,020.50	4.46	4.52	-112.76	349.32	-285.94	519.36	511.51	7.85	66.137	
1,300.00	1,285.27	1,122.05	1,096.93	5.00	5.03	-114.01	368.46	-303.31	563.25	554.61	8.63	65.249	
1,400.00	1,379.82	1,206.41	1,176.59	5.60	5.58	-115.25	389.38	-321.58	609.84	600.36	9.48	64.352	
1,500.00	1,473.17	1,287.87	1,253.38	6.25	6.12	-116.32	410.11	-339.17	658.76	648.42	10.34	63.712	
1,600.00	1,565.21	1,360.40	1,321.55	6.95	6.62	-117.12	428.92	-355.26	710.47	699.29	11.17	63.587	SF
1,700.00	1,655.84	1,427.95	1,384.57	7.72	7.09	-117.67	447.55	-370.89	765.67	753.67	12.00	63.791	
1,800.00	1,744.94	1,494.06	1,445.73	8.55	7.57	-118.03	467.19	-386.50	824.14	811.28	12.86	64.088	
1,900.00	1,832.39	1,548.64	1,495.80	9.45	8.00	-118.01	484.19	-400.04	885.99	872.35	13.65	64.930	
2,000.00	1,918.11	1,602.32	1,544.61	10.41	8.42	-117.91	501.11	-414.63	951.49	937.04	14.45	65.860	
2,100.00	2,001.97	1,680.02	1,615.23	11.45	9.04	-118.41	525.33	-436.14	1,019.12	1,003.59	15.53	65.622	
2,200.00	2,083.88	1,743.45	1,673.03	12.56	9.55	-118.49	544.71	-453.67	1,088.42	1,071.92	16.50	65.981	
2,300.00	2,163.74	1,802.94	1,727.21	13.74	10.03	-118.41	562.61	-470.49	1,159.86	1,142.41	17.45	66.481	
2,400.00	2,241.45	1,859.37	1,778.60	14.99	10.49	-118.19	579.25	-486.81	1,233.39	1,215.00	18.39	67.080	
2,421.22	2,257.65	1,870.93	1,789.13	15.26	10.58	-118.12	582.61	-490.20	1,249.25	1,230.66	18.59	67.215	
2,500.00	2,317.63	1,915.28	1,829.50	16.29	10.95	-119.44	595.52	-503.26	1,308.58	1,289.24	19.33	67.687	
2,600.00	2,393.75	1,973.08	1,882.05	17.62	11.42	-121.02	612.51	-520.34	1,384.52	1,364.23	20.29	68.230	
2,700.00	2,469.88	2,049.77	1,951.90	18.95	12.04	-122.89	635.04	-542.55	1,460.61	1,439.14	21.47	68.040	
2,800.00	2,546.01	2,152.31	2,046.02	20.30	12.85	-125.10	664.64	-570.47	1,536.00	1,513.07	22.93	66.982	
2,900.00	2,622.13	2,229.47	2,117.34	21.65	13.44	-126.57	686.58	-590.12	1,610.54	1,586.44	24.10	66.832	
3,000.00	2,698.26	2,301.17	2,183.73	23.01	13.98	-127.81	707.07	-607.83	1,684.91	1,659.71	25.20	66.856	
3,100.00	2,774.38	2,366.28	2,244.05	24.37	14.47	-128.82	725.77	-623.65	1,759.34	1,733.12	26.23	67.082	
3,200.00	2,850.51	2,424.06	2,297.63	25.74	14.91	-129.68	742.07	-637.86	1,834.13	1,806.97	27.16	67.532	
3,300.00	2,926.64	2,492.84	2,361.48	27.11	15.42	-130.64	761.14	-654.90	1,909.18	1,880.97	28.21	67.676	
3,400.00	3,002.76	2,561.21	2,425.03	28.49	15.93	-131.52	780.04	-671.59	1,984.18	1,954.93	29.25	67.827	
3,500.00	3,078.89	2,626.67	2,485.84	29.87	16.42	-132.29	798.40	-687.43	2,059.27	2,029.01	30.26	68.048	
3,600.00	3,155.02	2,687.64	2,542.46	31.25	16.88	-132.97	815.51	-702.19	2,134.53	2,103.32	31.22	68.381	
3,700.00	3,231.14	2,748.53	2,599.04	32.63	17.33	-133.61	832.43	-717.03	2,210.00	2,177.84	32.16	68.716	
3,800.00	3,307.27	2,809.12	2,655.38	34.01	17.78	-134.21	848.99	-731.92	2,285.68	2,252.58	33.10	69.059	
3,900.00	3,383.39	2,879.58	2,721.01	35.40	18.30	-134.89	867.92	-749.22	2,361.41	2,327.26	34.14	69.162	
4,000.00	3,459.52	2,948.24	2,785.10	36.79	18.80	-135.52	886.04	-765.94	2,437.07	2,401.91	35.16	69.314	
4,100.00	3,535.65	3,012.40	2,845.09	38.18	19.26	-136.08	902.63	-781.52	2,512.74	2,476.63	36.12	69.574	
4,200.00	3,611.77	3,068.08	2,897.15	39.57	19.67	-136.55	916.88	-795.15	2,588.63	2,551.66	36.97	70.028	
4,300.00	3,687.90	3,124.96	2,950.28	40.96	20.08	-137.00	931.55	-809.22	2,664.78	2,626.95	37.83	70.436	
4,400.00	3,764.02	3,183.05	3,004.30	42.35	20.51	-137.41	947.35	-823.59	2,741.14	2,702.42	38.72	70.795	
4,500.00	3,840.15	3,258.24	3,074.06	43.74	21.08	-137.90	968.51	-841.99	2,817.49	2,777.66	39.83	70.732	
4,600.00	3,916.28	3,310.79	3,122.81	45.13	21.47	-138.21	983.42	-854.76	2,893.82	2,853.16	40.66	71.166	
4,700.00	3,992.40	3,355.59	3,164.33	46.53	21.81	-138.48	996.03	-865.93	2,970.57	2,929.18	41.39	71.770	
4,800.00	4,068.53	3,425.12	3,228.75	47.92	22.34	-138.87	1,015.41	-883.49	3,047.58	3,005.15	42.43	71.829	
4,900.00	4,144.66	3,498.53	3,296.90	49.32	22.89	-139.27	1,035.70	-901.74	3,124.34	3,080.83	43.51	71.804	
5,000.00	4,220.78	3,565.32	3,358.97	50.71	23.39	-139.62	1,054.00	-918.24	3,201.04	3,156.53	44.51	71.919	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	3,632.12	3,421.14	52.11	23.88	-139.96	1,072.07	-934.70	3,277.71	3,232.21	45.50	72.038		
5,200.00	4,373.03	3,706.66	3,490.62	53.51	24.43	-140.32	1,091.97	-952.95	3,354.30	3,307.71	46.58	72.007		
5,300.00	4,449.16	3,854.94	3,629.62	54.90	25.49	-141.02	1,130.59	-987.19	3,429.92	3,381.36	48.56	70.634		
5,400.00	4,525.29	3,893.82	3,666.14	56.30	25.76	-141.20	1,140.72	-995.86	3,505.12	3,455.92	49.20	71.249		
5,500.00	4,601.41	3,930.00	3,700.00	57.70	26.02	-141.35	1,150.39	-1,004.17	3,580.83	3,531.03	49.79	71.912		
5,600.00	4,677.54	3,961.67	3,729.53	59.10	26.25	-141.47	1,159.00	-1,011.68	3,657.12	3,606.78	50.34	72.647		
5,700.00	4,753.66	3,991.01	3,756.80	60.49	26.47	-141.58	1,167.06	-1,018.91	3,734.02	3,683.17	50.85	73.430		
5,800.00	4,829.79	4,023.00	3,786.44	61.89	26.71	-141.70	1,175.93	-1,027.07	3,811.52	3,760.13	51.39	74.165		
5,900.00	4,905.92	4,051.51	3,812.78	63.29	26.93	-141.80	1,183.83	-1,034.58	3,889.56	3,837.68	51.88	74.966		
6,000.00	4,982.04	4,083.12	3,841.96	64.69	27.18	-141.92	1,192.48	-1,043.13	3,968.10	3,915.69	52.41	75.709		
6,100.00	5,058.17	4,117.00	3,873.19	66.09	27.44	-142.04	1,201.62	-1,052.56	4,047.11	3,994.15	52.97	76.408		
6,200.00	5,134.30	4,156.89	3,909.90	67.49	27.76	-142.18	1,212.38	-1,063.88	4,126.51	4,072.90	53.60	76.985		
6,300.00	5,210.42	4,200.60	3,950.03	68.89	28.11	-142.33	1,224.34	-1,076.42	4,206.15	4,151.86	54.29	77.478		
6,400.00	5,286.55	4,304.00	4,045.10	70.29	28.93	-142.66	1,252.78	-1,105.45	4,285.29	4,229.50	55.79	76.814		
6,500.00	5,362.67	4,346.67	4,084.44	71.69	29.26	-142.80	1,264.32	-1,117.26	4,364.40	4,307.94	56.46	77.304		
6,600.00	5,438.80	4,371.84	4,107.60	73.09	29.46	-142.88	1,271.02	-1,124.49	4,444.08	4,387.19	56.89	78.120		
6,700.00	5,514.93	4,397.00	4,130.71	74.49	29.66	-142.96	1,277.65	-1,131.92	4,524.25	4,466.93	57.31	78.937		
6,800.00	5,591.05	4,441.73	4,171.69	75.89	30.02	-143.09	1,289.55	-1,145.33	4,604.75	4,546.73	58.01	79.375		
6,900.00	5,667.18	4,738.08	4,444.25	77.29	32.36	-143.87	1,371.30	-1,227.87	4,684.55	4,622.42	62.13	75.402		
7,000.00	5,743.30	4,770.00	4,473.79	78.69	32.61	-143.94	1,380.37	-1,235.87	4,762.15	4,699.48	62.67	75.988		
7,100.00	5,819.43	4,819.52	4,519.51	80.09	32.99	-144.04	1,394.61	-1,248.49	4,839.98	4,776.53	63.45	76.276		
7,200.00	5,895.56	4,864.00	4,560.35	81.49	33.34	-144.13	1,407.75	-1,260.23	4,918.34	4,854.17	64.17	76.644		
7,300.00	5,971.68	4,864.00	4,560.35	82.90	33.34	-144.13	1,407.75	-1,260.23	4,997.07	4,932.80	64.27	77.749		
7,400.00	6,047.81	6,014.41	5,665.06	84.30	39.87	-147.68	1,622.85	-1,465.89	5,074.32	4,998.15	76.17	66.617		
7,500.00	6,123.94	7,500.00	6,067.27	85.70	42.81	-149.52	1,631.99	-1,482.95	5,137.10	5,056.38	80.71	63.646		
7,600.00	6,200.06	6,504.25	6,154.25	87.10	41.00	-149.91	1,631.92	-1,483.53	5,196.91	5,117.74	79.17	65.642		
7,700.00	6,276.19	6,548.00	6,198.00	88.50	41.08	-150.10	1,632.15	-1,483.95	5,257.12	5,177.41	79.71	65.956		
7,800.00	6,352.31	6,605.34	6,255.33	89.90	41.20	-150.35	1,632.63	-1,484.78	5,317.80	5,237.50	80.30	66.224		
7,900.00	6,428.44	6,675.86	6,325.83	91.31	41.35	-150.64	1,633.37	-1,486.08	5,378.89	5,297.94	80.95	66.448		
8,000.00	6,504.57	6,915.25	6,565.20	92.71	41.81	-151.62	1,634.75	-1,485.49	5,437.70	5,355.41	82.29	66.076		
8,100.00	6,580.69	6,970.19	6,620.13	94.11	41.91	-151.84	1,634.78	-1,484.90	5,496.82	5,413.95	82.86	66.336		
8,200.00	6,656.82	7,016.00	6,665.94	95.51	42.00	-152.02	1,634.65	-1,484.58	5,556.36	5,472.97	83.39	66.633		
8,300.00	6,732.95	7,072.69	6,722.63	96.91	42.10	-152.24	1,634.34	-1,484.44	5,616.34	5,532.39	83.95	66.902		
8,400.00	6,809.07	7,122.08	6,772.01	98.32	42.19	-152.44	1,633.98	-1,484.57	5,676.80	5,592.33	84.47	67.202		
8,500.00	6,885.20	7,173.92	6,823.86	99.72	42.29	-152.64	1,633.65	-1,484.93	5,737.70	5,652.69	85.01	67.497		
8,600.00	6,961.32	7,225.95	6,875.88	101.12	42.39	-152.84	1,633.41	-1,485.52	5,799.01	5,713.47	85.54	67.795		
8,700.00	7,037.45	7,278.24	6,928.16	102.52	42.50	-153.03	1,633.16	-1,486.31	5,860.71	5,774.65	86.07	68.096		
8,732.15	7,061.92	7,296.00	6,945.92	102.97	42.53	-153.10	1,633.06	-1,486.62	5,880.63	5,794.39	86.24	68.190		
8,750.00	7,075.57	7,304.30	6,954.22	103.22	42.55	-156.55	1,633.02	-1,486.78	5,891.74	5,805.41	86.33	68.250		
8,800.00	7,114.27	7,330.71	6,980.62	103.91	42.61	-166.59	1,632.87	-1,487.31	5,923.17	5,836.60	86.57	68.423		
8,850.00	7,153.47	7,357.38	7,007.29	104.58	42.66	-176.98	1,632.71	-1,487.89	5,954.86	5,868.08	86.78	68.621		
8,900.00	7,192.85	7,390.00	7,039.90	105.21	42.73	172.55	1,632.50	-1,488.68	5,986.57	5,899.58	86.99	68.820		
8,950.00	7,232.12	7,462.31	7,112.19	105.80	42.88	162.37	1,631.92	-1,490.26	6,017.92	5,930.57	87.35	68.894		
9,000.00	7,270.99	7,504.99	7,154.86	106.35	42.97	152.63	1,631.48	-1,490.98	6,048.54	5,961.00	87.54	69.093		
9,050.00	7,309.16	7,532.76	7,182.63	106.85	43.02	143.49	1,631.14	-1,491.48	6,078.47	5,990.84	87.64	69.360		
9,100.00	7,346.32	7,559.82	7,209.68	107.30	43.08	135.10	1,630.78	-1,492.02	6,107.52	6,019.82	87.70	69.640		
9,150.00	7,382.22	7,577.00	7,226.85	107.69	43.11	127.48	1,630.53	-1,492.38	6,135.50	6,047.81	87.70	69.962		
9,200.00	7,416.56	7,577.00	7,226.85	108.02	43.11	120.57	1,630.53	-1,492.38	6,162.34	6,074.75	87.59	70.351		
9,250.00	7,449.09	8,045.00	7,694.46	108.29	44.05	117.83	1,626.25	-1,489.80	6,186.90	6,097.34	89.56	69.083		
9,300.00	7,479.56	8,073.97	7,723.40	108.51	44.10	112.89	1,626.01	-1,488.59	6,208.55	6,118.96	89.58	69.307		
9,350.00	7,507.74	8,094.69	7,744.11	108.68	44.14	108.55	1,625.87	-1,487.76	6,228.65	6,139.08	89.57	69.543		
9,400.00	7,533.41	8,113.51	7,762.91	108.79	44.17	104.82	1,625.76	-1,487.04	6,247.08	6,157.54	89.54	69.766		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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 OWSSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,450.00	7,556.39	8,130.29	7,779.69	108.86	44.20	101.65	1,625.68	-1,486.41	6,263.76	6,174.24	89.52	69.973		
9,500.00	7,576.48	8,146.80	7,796.18	108.88	44.24	99.00	1,625.61	-1,485.80	6,278.58	6,189.08	89.50	70.152		
9,550.00	7,593.55	8,162.51	7,811.88	108.86	44.27	96.83	1,625.57	-1,485.24	6,291.46	6,201.97	89.49	70.300		
9,600.00	7,607.46	8,175.22	7,824.59	108.80	44.29	95.08	1,625.56	-1,484.78	6,302.34	6,212.85	89.49	70.422		
9,650.00	7,618.11	8,184.89	7,834.24	108.71	44.31	93.75	1,625.55	-1,484.44	6,311.17	6,221.67	89.50	70.515		
9,700.00	7,625.41	8,191.46	7,840.81	108.59	44.32	92.79	1,625.56	-1,484.20	6,317.90	6,228.38	89.52	70.577		
9,750.00	7,629.30	8,194.92	7,844.27	108.45	44.33	92.21	1,625.56	-1,484.08	6,322.50	6,232.95	89.55	70.604		
9,781.81	7,630.00	8,195.51	7,844.86	108.35	44.33	92.02	1,625.56	-1,484.06	6,324.30	6,234.73	89.57	70.604		
9,800.00	7,630.00	8,195.49	7,844.84	108.29	44.33	92.02	1,625.56	-1,484.06	6,325.11	6,235.52	89.59	70.600		
9,900.00	7,630.00	8,195.39	7,844.74	107.97	44.33	92.02	1,625.56	-1,484.06	6,330.48	6,240.78	89.70	70.573		
10,000.00	7,630.00	8,195.29	7,844.64	107.67	44.33	92.02	1,625.56	-1,484.07	6,337.43	6,247.60	89.83	70.547		
10,100.00	7,630.00	8,195.19	7,844.54	107.38	44.33	92.02	1,625.56	-1,484.07	6,345.95	6,255.96	89.99	70.521		
10,200.00	7,630.00	8,195.09	7,844.44	107.10	44.33	92.02	1,625.56	-1,484.08	6,356.03	6,265.87	90.16	70.497		
10,300.00	7,630.00	8,194.99	7,844.34	106.84	44.33	92.02	1,625.56	-1,484.08	6,367.66	6,277.31	90.35	70.474		
10,400.00	7,630.00	8,194.90	7,844.25	106.59	44.33	92.02	1,625.56	-1,484.08	6,380.84	6,290.28	90.57	70.455		
10,500.00	7,630.00	8,194.80	7,844.15	106.35	44.33	92.01	1,625.56	-1,484.09	6,395.56	6,304.76	90.80	70.438		
10,600.00	7,630.00	8,194.71	7,844.06	106.13	44.33	92.01	1,625.56	-1,484.09	6,411.80	6,320.76	91.04	70.425		
10,700.00	7,630.00	8,194.62	7,843.97	105.92	44.33	92.01	1,625.56	-1,484.09	6,429.56	6,338.26	91.31	70.417		
10,800.00	7,630.00	8,194.53	7,843.88	105.72	44.33	92.01	1,625.56	-1,484.09	6,448.82	6,357.24	91.58	70.414		
10,900.00	7,630.00	8,194.44	7,843.79	105.54	44.33	92.01	1,625.56	-1,484.10	6,469.57	6,377.69	91.87	70.417		
11,000.00	7,630.00	8,194.35	7,843.70	105.37	44.33	92.01	1,625.56	-1,484.10	6,491.79	6,399.61	92.18	70.426		
11,100.00	7,630.00	8,194.26	7,843.62	105.21	44.33	92.01	1,625.56	-1,484.10	6,515.47	6,422.98	92.49	70.442		
11,200.00	7,630.00	8,194.18	7,843.53	105.06	44.33	92.01	1,625.56	-1,484.11	6,540.60	6,447.78	92.82	70.465		
11,300.00	7,630.00	8,194.09	7,843.45	104.93	44.33	92.01	1,625.56	-1,484.11	6,567.15	6,473.99	93.16	70.496		
11,400.00	7,630.00	8,194.01	7,843.36	104.82	44.33	92.01	1,625.56	-1,484.11	6,595.11	6,501.61	93.50	70.535		
11,500.00	7,630.00	8,193.93	7,843.28	104.72	44.33	92.01	1,625.56	-1,484.12	6,624.46	6,530.61	93.85	70.583		
11,600.00	7,630.00	8,193.85	7,843.20	104.63	44.33	92.01	1,625.56	-1,484.12	6,655.19	6,560.97	94.21	70.639		
11,700.00	7,630.00	8,193.77	7,843.12	104.55	44.33	92.01	1,625.56	-1,484.12	6,687.27	6,592.69	94.58	70.705		
11,800.00	7,630.00	8,193.69	7,843.04	104.50	44.33	92.00	1,625.56	-1,484.12	6,720.68	6,625.73	94.95	70.780		
11,900.00	7,630.00	8,193.61	7,842.96	104.45	44.33	92.00	1,625.56	-1,484.13	6,755.41	6,660.08	95.33	70.864		
12,000.00	7,630.00	8,193.54	7,842.89	104.43	44.33	92.00	1,625.56	-1,484.13	6,791.44	6,695.73	95.71	70.959		
12,100.00	7,630.00	8,193.46	7,842.81	104.42	44.33	92.00	1,625.56	-1,484.13	6,828.74	6,732.64	96.09	71.063		
12,200.00	7,630.00	8,193.39	7,842.74	104.42	44.32	92.00	1,625.56	-1,484.14	6,867.29	6,770.81	96.48	71.178		
12,300.00	7,630.00	8,193.31	7,842.66	104.45	44.32	92.00	1,625.56	-1,484.14	6,907.08	6,810.21	96.87	71.303		
12,400.00	7,630.00	8,193.24	7,842.59	104.49	44.32	92.00	1,625.56	-1,484.14	6,948.08	6,850.81	97.26	71.438		
12,500.00	7,630.00	8,193.17	7,842.52	104.55	44.32	92.00	1,625.56	-1,484.14	6,990.26	6,892.61	97.65	71.583		
12,600.00	7,630.00	8,193.10	7,842.45	104.63	44.32	92.00	1,625.56	-1,484.15	7,033.62	6,935.58	98.04	71.739		
12,700.00	7,630.00	8,193.03	7,842.38	104.73	44.32	92.00	1,625.56	-1,484.15	7,078.12	6,979.69	98.44	71.905		
12,800.00	7,630.00	8,192.96	7,842.31	104.85	44.32	92.00	1,625.56	-1,484.15	7,123.75	7,024.92	98.83	72.082		
12,900.00	7,630.00	8,192.89	7,842.24	104.99	44.32	92.00	1,625.56	-1,484.15	7,170.49	7,071.27	99.22	72.268		
13,000.00	7,630.00	8,192.82	7,842.17	105.15	44.32	92.00	1,625.56	-1,484.16	7,218.30	7,118.69	99.61	72.465		
13,100.00	7,630.00	8,192.76	7,842.11	105.34	44.32	92.00	1,625.56	-1,484.16	7,267.18	7,167.18	100.00	72.672		
13,200.00	7,630.00	8,192.69	7,842.04	105.56	44.32	92.00	1,625.56	-1,484.16	7,317.10	7,216.71	100.39	72.889		
13,300.00	7,630.00	8,192.62	7,841.98	105.80	44.32	92.00	1,625.56	-1,484.16	7,368.04	7,267.27	100.77	73.116		
13,400.00	7,630.00	8,192.56	7,841.91	106.06	44.32	91.99	1,625.56	-1,484.16	7,419.97	7,318.82	101.16	73.352		
13,500.00	7,630.00	8,192.50	7,841.85	106.36	44.32	91.99	1,625.56	-1,484.17	7,472.89	7,371.35	101.54	73.599		
13,600.00	7,630.00	8,192.43	7,841.79	106.68	44.32	91.99	1,625.56	-1,484.17	7,526.76	7,424.84	101.91	73.854		
13,700.00	7,630.00	8,192.37	7,841.72	107.03	44.32	91.99	1,625.56	-1,484.17	7,581.56	7,479.28	102.29	74.120		
13,800.00	7,630.00	8,192.31	7,841.66	107.42	44.32	91.99	1,625.56	-1,484.17	7,637.29	7,534.63	102.66	74.394		
13,900.00	7,630.00	8,192.25	7,841.60	107.83	44.32	91.99	1,625.56	-1,484.18	7,693.90	7,590.88	103.03	74.678		
14,000.00	7,630.00	8,192.19	7,841.54	108.28	44.32	91.99	1,625.56	-1,484.18	7,751.40	7,648.01	103.39	74.970		
14,100.00	7,630.00	8,192.13	7,841.48	108.77	44.32	91.99	1,625.56	-1,484.18	7,809.75	7,706.00	103.75	75.272		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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				
14,200.00	7,630.00	8,192.07	7,841.43	109.29	44.32	91.99	1,625.56	-1,484.18	7,868.94	7,764.83	104.11	75.582				
14,300.00	7,630.00	8,192.02	7,841.37	109.84	44.32	91.99	1,625.56	-1,484.18	7,928.95	7,824.49	104.47	75.900				
14,400.00	7,630.00	8,191.96	7,841.31	110.43	44.32	91.99	1,625.56	-1,484.19	7,989.76	7,884.95	104.82	76.227				
14,500.00	7,630.00	8,191.90	7,841.26	111.06	44.32	91.99	1,625.56	-1,484.19	8,051.36	7,946.19	105.16	76.562				
14,600.00	7,630.00	8,191.85	7,841.20	111.72	44.32	91.99	1,625.56	-1,484.19	8,113.71	8,008.21	105.50	76.905				
14,700.00	7,630.00	8,191.79	7,841.14	112.42	44.32	91.99	1,625.56	-1,484.19	8,176.82	8,070.98	105.84	77.255				
14,800.00	7,630.00	8,191.74	7,841.09	113.16	44.32	91.99	1,625.56	-1,484.19	8,240.66	8,134.48	106.18	77.614				
14,900.00	7,630.00	8,191.68	7,841.04	113.94	44.32	91.99	1,625.56	-1,484.20	8,305.21	8,198.70	106.50	77.980				
15,000.00	7,630.00	8,191.63	7,840.98	114.75	44.32	91.99	1,625.56	-1,484.20	8,370.45	8,263.62	106.83	78.353				
15,100.00	7,630.00	8,191.58	7,840.93	115.60	44.32	91.99	1,625.56	-1,484.20	8,436.38	8,329.23	107.15	78.734				
15,200.00	7,630.00	8,191.52	7,840.88	116.48	44.32	91.99	1,625.56	-1,484.20	8,502.97	8,395.50	107.47	79.121				
15,300.00	7,630.00	8,191.47	7,840.83	117.40	44.32	91.98	1,625.56	-1,484.20	8,570.21	8,462.43	107.78	79.515				
15,400.00	7,630.00	8,191.42	7,840.78	118.35	44.32	91.98	1,625.56	-1,484.20	8,638.09	8,530.00	108.09	79.917				
15,500.00	7,630.00	8,191.37	7,840.72	119.34	44.32	91.98	1,625.56	-1,484.21	8,706.58	8,598.19	108.39	80.324				
15,600.00	7,630.00	8,191.32	7,840.67	120.35	44.32	91.98	1,625.56	-1,484.21	8,775.68	8,666.99	108.69	80.738				
15,700.00	7,630.00	8,191.27	7,840.63	121.40	44.32	91.98	1,625.56	-1,484.21	8,845.38	8,736.39	108.99	81.159				
15,800.00	7,630.00	8,191.22	7,840.58	122.48	44.32	91.98	1,625.56	-1,484.21	8,915.64	8,806.36	109.28	81.585				
15,900.00	7,630.00	8,191.17	7,840.53	123.58	44.32	91.98	1,625.56	-1,484.21	8,986.47	8,876.91	109.57	82.018				
16,000.00	7,630.00	8,191.13	7,840.48	124.71	44.32	91.98	1,625.56	-1,484.22	9,057.86	8,948.01	109.85	82.456				
16,100.00	7,630.00	8,191.08	7,840.43	125.87	44.32	91.98	1,625.56	-1,484.22	9,129.77	9,019.64	110.13	82.900				
16,200.00	7,630.00	8,191.03	7,840.39	127.05	44.32	91.98	1,625.56	-1,484.22	9,202.22	9,091.81	110.41	83.350				
16,300.00	7,630.00	8,190.99	7,840.34	128.26	44.32	91.98	1,625.56	-1,484.22	9,275.17	9,164.50	110.68	83.805				
16,400.00	7,630.00	8,190.94	7,840.29	129.48	44.32	91.98	1,625.56	-1,484.22	9,348.63	9,237.69	110.94	84.265				
16,500.00	7,630.00	8,190.89	7,840.25	130.73	44.32	91.98	1,625.56	-1,484.22	9,422.57	9,311.37	111.21	84.730				
16,600.00	7,630.00	8,190.85	7,840.20	132.00	44.32	91.98	1,625.56	-1,484.23	9,497.00	9,385.53	111.47	85.201				
16,700.00	7,630.00	8,190.81	7,840.16	133.29	44.32	91.98	1,625.56	-1,484.23	9,571.88	9,460.16	111.72	85.677				
16,800.00	7,630.00	8,190.76	7,840.11	134.59	44.32	91.98	1,625.56	-1,484.23	9,647.23	9,535.25	111.97	86.157				
16,900.00	7,630.00	8,190.72	7,840.07	135.91	44.32	91.98	1,625.56	-1,484.23	9,723.01	9,610.79	112.22	86.642				
17,000.00	7,630.00	8,190.67	7,840.03	137.25	44.32	91.98	1,625.56	-1,484.23	9,799.24	9,686.77	112.46	87.131				
17,100.00	7,630.00	8,190.63	7,839.98	138.61	44.32	91.98	1,625.56	-1,484.23	9,875.88	9,763.18	112.71	87.626				
17,200.00	7,630.00	8,190.59	7,839.94	139.97	44.32	91.98	1,625.56	-1,484.23	9,952.94	9,840.00	112.94	88.124				

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-35.27	218.57	-154.56	267.82				
100.00	100.00	91.21	91.21	0.13	0.15	-35.25	218.73	-154.57	267.84	267.55	0.28	947.473	
200.00	200.00	189.97	189.97	0.49	0.41	-35.10	219.53	-154.27	268.33	267.42	0.90	297.104 ES	
300.00	300.00	286.30	286.22	0.85	0.76	-34.37	222.50	-152.18	269.62	268.01	1.61	167.469	
400.00	400.00	383.34	383.02	1.21	1.12	-33.06	228.25	-148.55	272.48	270.15	2.33	117.124	
500.00	499.98	479.16	478.27	1.56	1.48	-98.04	236.57	-142.47	276.74	273.69	3.05	90.849	
600.00	599.84	571.92	569.99	1.92	1.86	-96.30	247.91	-134.56	283.64	279.86	3.78	75.124	
700.00	699.45	662.51	659.04	2.29	2.26	-94.79	262.21	-126.09	293.83	289.31	4.52	65.020	
800.00	798.70	757.64	752.05	2.67	2.70	-93.59	279.97	-116.94	306.85	301.54	5.31	57.804	
900.00	897.47	850.21	842.27	3.07	3.15	-92.91	298.62	-107.96	321.42	315.30	6.11	52.566	
1,000.00	995.62	942.47	931.83	3.50	3.61	-92.71	319.12	-99.54	338.29	331.33	6.96	48.636	
1,100.00	1,093.06	1,040.80	1,027.12	3.96	4.12	-93.06	341.90	-91.15	356.45	348.58	7.87	45.309	
1,200.00	1,189.64	1,141.90	1,125.21	4.46	4.64	-93.93	364.73	-82.31	374.30	365.45	8.85	42.287	
1,300.00	1,285.27	1,242.90	1,223.26	5.00	5.16	-95.17	386.99	-72.73	391.77	381.88	9.89	39.615	
1,400.00	1,379.82	1,345.59	1,323.36	5.60	5.68	-97.02	407.98	-63.69	408.92	397.93	10.99	37.224	
1,500.00	1,473.17	1,431.49	1,407.00	6.25	6.12	-98.73	426.17	-56.46	427.89	415.87	12.02	35.587	
1,600.00	1,565.21	1,530.14	1,502.59	6.95	6.64	-100.73	448.73	-47.16	448.93	435.71	13.22	33.961	
1,700.00	1,655.84	1,625.92	1,594.88	7.72	7.17	-102.55	471.82	-36.16	471.10	456.64	14.47	32.562	
1,800.00	1,744.94	1,725.46	1,690.73	8.55	7.73	-104.57	495.77	-23.93	494.27	478.47	15.80	31.276	
1,900.00	1,832.39	1,824.17	1,786.05	9.45	8.27	-106.81	518.37	-11.88	518.43	501.27	17.17	30.203	
2,000.00	1,918.11	1,923.56	1,882.57	10.41	8.79	-109.37	539.06	-0.30	543.72	525.17	18.54	29.323	
2,100.00	2,001.97	2,017.22	1,974.08	11.45	9.26	-112.03	556.29	9.74	570.73	550.88	19.86	28.740	
2,200.00	2,083.88	2,103.62	2,059.06	12.56	9.66	-114.71	570.10	16.89	601.20	580.12	21.08	28.517	
2,300.00	2,163.74	2,199.88	2,153.87	13.74	10.10	-117.74	584.55	25.18	634.43	612.09	22.34	28.398 SF	
2,400.00	2,241.45	2,286.50	2,239.09	14.99	10.50	-120.26	597.66	33.46	670.67	647.15	23.52	28.517	
2,421.22	2,257.65	2,304.20	2,256.48	15.26	10.58	-120.75	600.46	35.22	678.82	655.05	23.76	28.566	
2,500.00	2,317.63	2,370.37	2,321.33	16.29	10.90	-122.97	611.61	42.11	709.99	685.33	24.66	28.789	
2,600.00	2,393.75	2,452.70	2,401.85	17.62	11.31	-125.45	626.38	50.88	751.16	725.39	25.77	29.145	
2,700.00	2,469.88	2,539.95	2,487.15	18.95	11.74	-127.82	642.18	60.15	793.70	766.81	26.89	29.515	
2,800.00	2,546.01	2,622.39	2,567.72	20.30	12.15	-129.84	657.28	68.98	837.30	809.35	27.94	29.963	
2,900.00	2,622.13	2,702.95	2,646.29	21.65	12.56	-131.58	672.91	77.50	882.20	853.22	28.97	30.450	
3,000.00	2,698.26	2,813.64	2,754.41	23.01	13.11	-133.80	693.36	89.43	927.58	897.35	30.22	30.691	
3,100.00	2,774.38	2,906.49	2,845.38	24.37	13.56	-135.61	707.74	101.18	971.21	939.95	31.26	31.069	
3,200.00	2,850.51	2,989.40	2,926.45	25.74	13.97	-137.04	721.45	111.81	1,015.62	983.40	32.22	31.523	
3,300.00	2,926.64	3,095.58	3,029.98	27.11	14.51	-138.64	740.19	126.10	1,060.30	1,026.91	33.38	31.762	
3,400.00	3,002.76	3,172.58	3,104.72	28.49	14.91	-139.64	754.70	137.59	1,104.33	1,070.01	34.32	32.173	
3,500.00	3,078.89	3,246.00	3,176.08	29.87	15.29	-140.53	768.93	147.42	1,150.04	1,114.82	35.22	32.653	
3,600.00	3,155.02	3,326.90	3,255.08	31.25	15.70	-141.52	783.20	157.38	1,196.75	1,160.61	36.14	33.112	
3,700.00	3,231.14	3,410.48	3,336.60	32.63	16.13	-142.45	798.51	167.69	1,243.85	1,206.76	37.09	33.537	
3,800.00	3,307.27	3,474.71	3,399.12	34.01	16.46	-143.07	811.24	175.02	1,292.16	1,254.30	37.87	34.122	
3,900.00	3,383.39	3,588.32	3,509.73	35.40	17.05	-144.10	833.78	187.82	1,340.90	1,301.77	39.13	34.266	
4,000.00	3,459.52	3,675.06	3,594.03	36.79	17.50	-144.81	851.03	198.75	1,388.58	1,348.45	40.13	34.598	
4,100.00	3,535.65	3,768.85	3,685.09	38.18	18.00	-145.52	869.93	210.89	1,436.14	1,394.93	41.21	34.848	
4,200.00	3,611.77	3,841.50	3,755.73	39.57	18.38	-146.05	884.16	220.10	1,484.04	1,441.97	42.07	35.278	
4,300.00	3,687.90	3,963.22	3,873.55	40.96	19.04	-146.79	910.18	236.05	1,531.94	1,488.49	43.45	35.257	
4,400.00	3,764.02	4,013.84	3,922.42	42.35	19.32	-147.06	921.53	242.82	1,579.58	1,535.45	44.13	35.796	
4,500.00	3,840.15	4,074.14	3,980.97	43.74	19.64	-147.40	934.27	249.56	1,629.12	1,584.25	44.87	36.308	
4,600.00	3,916.28	4,159.82	4,064.28	45.13	20.09	-147.88	952.03	258.73	1,679.21	1,633.34	45.86	36.614	
4,700.00	3,992.40	4,230.24	4,132.85	46.53	20.45	-148.26	966.36	265.90	1,729.82	1,683.13	46.68	37.054	
4,800.00	4,068.53	4,328.87	4,229.19	47.92	20.95	-148.82	985.10	275.70	1,780.68	1,732.91	47.77	37.277	
4,900.00	4,144.66	4,442.68	4,340.65	49.32	21.50	-149.51	1,004.15	288.61	1,830.28	1,781.35	48.94	37.400	
5,000.00	4,220.78	4,505.68	4,402.43	50.71	21.80	-149.88	1,014.18	295.72	1,880.10	1,830.49	49.61	37.897	

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,563.55	4,459.31	52.11	22.07	-150.23	1,023.11	301.50	1,931.13	1,880.91	50.21	38.459		
5,200.00	4,373.03	4,615.00	4,510.07	53.51	22.30	-150.56	1,030.33	305.90	1,983.51	1,932.78	50.73	39.103		
5,300.00	4,449.16	4,678.53	4,572.96	54.90	22.56	-150.98	1,038.04	310.49	2,037.09	1,985.78	51.31	39.705		
5,400.00	4,525.29	4,734.56	4,628.61	56.30	22.78	-151.38	1,043.62	313.85	2,091.78	2,040.00	51.78	40.397		
5,500.00	4,601.41	4,787.03	4,680.83	57.70	22.97	-151.78	1,047.99	316.31	2,147.72	2,095.52	52.19	41.149		
5,600.00	4,677.54	4,843.48	4,737.12	59.10	23.16	-152.21	1,051.86	318.25	2,204.81	2,152.20	52.61	41.908		
5,700.00	4,753.66	4,901.37	4,794.90	60.49	23.35	-152.66	1,055.05	319.70	2,262.86	2,209.84	53.02	42.678		
5,800.00	4,829.79	4,963.07	4,856.55	61.89	23.54	-153.16	1,057.35	320.77	2,321.74	2,268.31	53.43	43.452		
5,900.00	4,905.92	5,034.58	4,928.04	63.29	23.74	-153.75	1,058.69	321.63	2,381.27	2,327.38	53.90	44.182		
6,000.00	4,982.04	5,110.53	5,003.98	64.69	23.95	-154.36	1,059.75	322.56	2,441.01	2,386.62	54.39	44.882		
6,100.00	5,058.17	5,180.34	5,073.79	66.09	24.14	-154.91	1,059.93	323.31	2,501.10	2,446.28	54.82	45.625		
6,200.00	5,134.30	5,224.10	5,117.54	67.49	24.25	-155.26	1,059.92	323.42	2,562.01	2,506.96	55.05	46.541		
6,300.00	5,210.42	5,270.00	5,163.44	68.89	24.36	-155.60	1,060.21	322.96	2,624.02	2,568.73	55.30	47.453		
6,400.00	5,286.55	5,335.93	5,229.35	70.29	24.53	-156.06	1,060.85	321.77	2,686.77	2,631.05	55.72	48.221		
6,500.00	5,362.67	5,414.52	5,307.92	71.69	24.74	-156.59	1,061.65	320.25	2,749.77	2,693.52	56.25	48.884		
6,600.00	5,438.80	5,498.09	5,391.48	73.09	24.95	-157.13	1,062.46	318.89	2,812.67	2,755.84	56.83	49.491		
6,700.00	5,514.93	5,572.11	5,465.49	74.49	25.15	-157.60	1,062.89	317.85	2,875.56	2,818.22	57.33	50.156		
6,800.00	5,591.05	5,631.63	5,525.00	75.89	25.30	-157.96	1,063.00	316.82	2,938.85	2,881.14	57.71	50.922		
6,900.00	5,667.18	5,711.02	5,604.37	77.29	25.50	-158.44	1,062.99	315.25	3,002.46	2,944.20	58.26	51.536		
7,000.00	5,743.30	5,787.21	5,680.56	78.69	25.70	-158.87	1,063.08	313.88	3,066.02	3,007.23	58.79	52.153		
7,100.00	5,819.43	5,877.68	5,771.01	80.09	25.94	-159.36	1,063.36	312.31	3,129.66	3,070.21	59.45	52.645		
7,200.00	5,895.56	5,958.21	5,851.53	81.49	26.15	-159.78	1,063.82	311.45	3,192.82	3,132.79	60.03	53.183		
7,300.00	5,971.68	6,018.00	5,911.32	82.90	26.31	-160.07	1,064.05	310.52	3,256.46	3,196.00	60.45	53.870		
7,400.00	6,047.81	6,122.61	6,015.92	84.30	26.60	-160.58	1,064.26	309.14	3,320.07	3,258.83	61.24	54.213		
7,500.00	6,123.94	6,201.69	6,095.00	85.70	26.81	-160.95	1,064.41	308.54	3,383.32	3,321.49	61.83	54.724		
7,600.00	6,200.06	6,257.64	6,150.94	87.10	26.96	-161.20	1,064.56	308.02	3,446.77	3,384.54	62.22	55.394		
7,700.00	6,276.19	6,321.21	6,214.50	88.50	27.14	-161.47	1,064.74	307.04	3,510.72	3,448.03	62.69	56.003		
7,800.00	6,352.31	6,412.25	6,305.54	89.90	27.39	-161.86	1,064.97	305.81	3,574.61	3,511.22	63.39	56.392		
7,900.00	6,428.44	6,511.60	6,404.88	91.31	27.66	-162.26	1,064.96	304.91	3,638.30	3,574.15	64.16	56.710		
8,000.00	6,504.57	6,633.40	6,526.67	92.71	27.99	-162.77	1,063.55	305.69	3,700.92	3,635.84	65.08	56.868		
8,100.00	6,580.69	6,707.32	6,600.57	94.11	28.19	-163.07	1,062.45	306.50	3,763.41	3,697.79	65.62	57.350		
8,200.00	6,656.82	6,775.24	6,668.49	95.51	28.37	-163.33	1,061.67	307.07	3,826.12	3,759.99	66.13	57.861		
8,300.00	6,732.95	6,850.52	6,743.77	96.91	28.58	-163.61	1,061.05	307.56	3,888.97	3,822.28	66.70	58.307		
8,400.00	6,809.07	6,945.65	6,838.89	98.32	28.85	-163.94	1,060.66	308.31	3,951.74	3,884.30	67.44	58.594		
8,500.00	6,885.20	7,022.12	6,915.35	99.72	29.07	-164.19	1,060.85	309.03	4,014.33	3,946.28	68.05	58.988		
8,600.00	6,961.32	7,097.62	6,990.85	101.12	29.30	-164.42	1,061.50	309.62	4,077.01	4,008.34	68.67	59.373		
8,700.00	7,037.45	7,192.36	7,085.59	102.52	29.59	-164.71	1,062.24	310.47	4,139.67	4,070.22	69.45	59.608		
8,732.15	7,061.92	7,231.45	7,124.66	102.97	29.71	-164.82	1,062.65	311.00	4,159.70	4,089.93	69.77	59.617		
8,750.00	7,075.57	7,265.86	7,159.07	103.22	29.82	-168.33	1,063.02	311.60	4,170.75	4,100.69	70.06	59.531		
8,800.00	7,114.27	7,344.67	7,237.85	103.91	30.06	-178.19	1,063.69	313.69	4,201.12	4,130.41	70.71	59.414		
8,850.00	7,153.47	7,384.12	7,277.29	104.58	30.18	171.93	1,063.89	314.90	4,230.88	4,159.84	71.03	59.560		
8,900.00	7,192.85	7,423.76	7,316.90	105.21	30.30	162.17	1,063.99	316.14	4,259.90	4,188.53	71.36	59.694		
8,950.00	7,232.12	7,456.22	7,349.34	105.80	30.40	152.73	1,064.11	317.11	4,288.02	4,216.38	71.63	59.860		
9,000.00	7,270.99	7,488.43	7,381.54	106.35	30.50	143.83	1,064.39	317.99	4,315.08	4,243.17	71.91	60.009		
9,050.00	7,309.16	7,521.66	7,414.76	106.85	30.61	135.64	1,064.83	318.80	4,340.91	4,268.72	72.19	60.131		
9,100.00	7,346.32	7,563.73	7,456.81	107.30	30.74	128.31	1,065.51	319.82	4,365.31	4,292.75	72.56	60.165		
9,150.00	7,382.22	7,604.24	7,497.31	107.69	30.87	121.81	1,066.22	320.82	4,388.09	4,315.18	72.91	60.182		
9,200.00	7,416.56	7,643.32	7,536.36	108.02	31.00	116.14	1,066.91	321.83	4,409.17	4,335.90	73.27	60.180		
9,250.00	7,449.09	7,680.51	7,573.54	108.29	31.12	111.23	1,067.47	322.85	4,428.44	4,354.83	73.61	60.159		
9,300.00	7,479.56	7,715.51	7,608.52	108.51	31.23	107.03	1,067.92	323.85	4,445.84	4,371.89	73.95	60.118		
9,350.00	7,507.74	7,727.22	7,620.23	108.68	31.27	103.24	1,068.04	324.15	4,461.39	4,387.28	74.11	60.196		
9,400.00	7,533.41	7,743.11	7,636.10	108.79	31.32	100.10	1,068.20	324.54	4,475.03	4,400.70	74.33	60.205		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,556.39	7,757.29	7,650.28	108.86	31.36	97.48	1,068.32	324.86	4,486.70	4,412.15	74.56	60.179		
9,500.00	7,576.48	7,769.67	7,662.67	108.88	31.40	95.35	1,068.42	325.12	4,496.37	4,421.58	74.79	60.117		
9,550.00	7,593.55	7,780.18	7,673.17	108.86	31.43	93.67	1,068.49	325.33	4,503.99	4,428.95	75.04	60.017		
9,600.00	7,607.46	7,797.00	7,689.99	108.80	31.49	92.50	1,068.59	325.63	4,509.55	4,434.17	75.38	59.822		
9,650.00	7,618.11	7,797.00	7,689.99	108.71	31.49	91.54	1,068.59	325.63	4,513.00	4,437.39	75.61	59.684		
9,700.00	7,625.41	7,797.00	7,689.99	108.59	31.49	90.97	1,068.59	325.63	4,514.37	4,438.49	75.88	59.491		
9,750.00	7,629.30	7,802.82	7,695.81	108.45	31.50	90.86	1,068.62	325.72	4,513.65	4,437.41	76.24	59.203		
9,781.81	7,630.00	7,803.22	7,696.21	108.35	31.51	90.94	1,068.62	325.73	4,512.10	4,435.64	76.46	59.014		
9,800.00	7,630.00	7,803.15	7,696.14	108.29	31.50	90.94	1,068.62	325.73	4,511.01	4,434.43	76.59	58.901		
9,900.00	7,630.00	7,802.77	7,695.76	107.97	31.50	90.94	1,068.62	325.72	4,506.34	4,429.03	77.31	58.287		
10,000.00	7,630.00	7,797.00	7,689.99	107.67	31.49	90.87	1,068.59	325.63	4,503.89	4,425.85	78.03	57.719		
10,060.72	7,630.00	7,797.00	7,689.99	107.49	31.49	90.87	1,068.59	325.63	4,503.48	4,424.96	78.52	57.355		
10,100.00	7,630.00	7,797.00	7,689.99	107.38	31.49	90.87	1,068.59	325.63	4,503.65	4,424.82	78.83	57.131		
10,200.00	7,630.00	7,797.00	7,689.99	107.10	31.49	90.87	1,068.59	325.63	4,505.63	4,425.97	79.66	56.563		
10,300.00	7,630.00	7,797.00	7,689.99	106.84	31.49	90.87	1,068.59	325.63	4,509.83	4,429.32	80.51	56.016		
10,400.00	7,630.00	7,797.00	7,689.99	106.59	31.49	90.87	1,068.59	325.63	4,516.24	4,434.86	81.38	55.494		
10,500.00	7,630.00	7,797.00	7,689.99	106.35	31.49	90.87	1,068.59	325.63	4,524.85	4,442.58	82.27	54.999		
10,600.00	7,630.00	7,797.00	7,689.99	106.13	31.49	90.87	1,068.59	325.63	4,535.65	4,452.48	83.17	54.532		
10,700.00	7,630.00	7,797.00	7,689.99	105.92	31.49	90.87	1,068.59	325.63	4,548.62	4,464.54	84.09	54.094		
10,800.00	7,630.00	7,797.00	7,689.99	105.72	31.49	90.87	1,068.59	325.63	4,563.75	4,478.75	85.01	53.688		
10,900.00	7,630.00	7,797.00	7,689.99	105.54	31.49	90.87	1,068.59	325.63	4,581.01	4,495.09	85.93	53.313		
11,000.00	7,630.00	7,797.00	7,689.99	105.37	31.49	90.87	1,068.59	325.63	4,600.39	4,513.54	86.85	52.971		
11,100.00	7,630.00	7,797.00	7,689.99	105.21	31.49	90.87	1,068.59	325.63	4,621.84	4,534.08	87.76	52.662		
11,200.00	7,630.00	7,797.00	7,689.99	105.06	31.49	90.87	1,068.59	325.63	4,645.35	4,556.67	88.68	52.386		
11,300.00	7,630.00	7,797.00	7,689.99	104.93	31.49	90.87	1,068.59	325.63	4,670.88	4,581.30	89.58	52.144		
11,400.00	7,630.00	7,797.00	7,689.99	104.82	31.49	90.87	1,068.59	325.63	4,698.40	4,607.93	90.47	51.934		
11,500.00	7,630.00	7,797.00	7,689.99	104.72	31.49	90.87	1,068.59	325.63	4,727.88	4,636.53	91.35	51.757		
11,600.00	7,630.00	7,797.00	7,689.99	104.63	31.49	90.87	1,068.59	325.63	4,759.27	4,667.06	92.21	51.613		
11,700.00	7,630.00	7,797.00	7,689.99	104.55	31.49	90.87	1,068.59	325.63	4,792.55	4,699.49	93.06	51.501		
11,800.00	7,630.00	7,797.00	7,689.99	104.50	31.49	90.87	1,068.59	325.63	4,827.67	4,733.78	93.89	51.420		
11,900.00	7,630.00	7,797.00	7,689.99	104.45	31.49	90.87	1,068.59	325.63	4,864.59	4,769.89	94.70	51.370		
12,000.00	7,630.00	7,797.00	7,689.99	104.43	31.49	90.87	1,068.59	325.63	4,903.27	4,807.79	95.49	51.350		
12,100.00	7,630.00	7,797.00	7,689.99	104.42	31.49	90.87	1,068.59	325.63	4,943.68	4,847.42	96.26	51.359		
12,200.00	7,630.00	7,797.00	7,689.99	104.42	31.49	90.87	1,068.59	325.63	4,985.76	4,888.76	97.01	51.397		
12,300.00	7,630.00	7,797.00	7,689.99	104.45	31.49	90.87	1,068.59	325.63	5,029.48	4,931.75	97.73	51.462		
12,400.00	7,630.00	7,797.00	7,689.99	104.49	31.49	90.87	1,068.59	325.63	5,074.79	4,976.36	98.44	51.554		
12,500.00	7,630.00	7,797.00	7,689.99	104.55	31.49	90.87	1,068.59	325.63	5,121.66	5,022.54	99.12	51.672		
12,600.00	7,630.00	7,797.00	7,689.99	104.63	31.49	90.87	1,068.59	325.63	5,170.03	5,070.25	99.78	51.815		
12,700.00	7,630.00	7,797.00	7,689.99	104.73	31.49	90.87	1,068.59	325.63	5,219.87	5,119.46	100.42	51.983		
12,800.00	7,630.00	7,797.00	7,689.99	104.85	31.49	90.87	1,068.59	325.63	5,271.14	5,170.11	101.03	52.174		
12,900.00	7,630.00	7,797.00	7,689.99	104.99	31.49	90.87	1,068.59	325.63	5,323.80	5,222.17	101.62	52.387		
13,000.00	7,630.00	7,790.97	7,683.96	105.15	31.47	90.79	1,068.56	325.53	5,377.79	5,275.63	102.16	52.641		
13,100.00	7,630.00	7,790.55	7,683.54	105.34	31.47	90.78	1,068.55	325.52	5,433.09	5,330.38	102.71	52.899		
13,200.00	7,630.00	7,790.13	7,683.12	105.56	31.46	90.78	1,068.55	325.51	5,489.65	5,386.42	103.23	53.177		
13,300.00	7,630.00	7,789.70	7,682.69	105.80	31.46	90.77	1,068.55	325.50	5,547.45	5,443.70	103.74	53.474		
13,400.00	7,630.00	7,789.27	7,682.25	106.06	31.46	90.77	1,068.55	325.50	5,606.42	5,502.20	104.23	53.790		
13,500.00	7,630.00	7,788.83	7,681.82	106.36	31.46	90.76	1,068.54	325.49	5,666.55	5,561.86	104.69	54.125		
13,600.00	7,630.00	7,788.38	7,681.37	106.68	31.46	90.76	1,068.54	325.48	5,727.80	5,622.66	105.14	54.477		
13,700.00	7,630.00	7,787.93	7,680.92	107.03	31.46	90.75	1,068.54	325.47	5,790.12	5,684.55	105.57	54.845		
13,800.00	7,630.00	7,787.48	7,680.47	107.42	31.46	90.74	1,068.54	325.46	5,853.49	5,747.51	105.98	55.230		
13,900.00	7,630.00	7,787.02	7,680.01	107.83	31.45	90.74	1,068.53	325.46	5,917.87	5,811.50	106.38	55.630		
14,000.00	7,630.00	7,786.56	7,679.55	108.28	31.45	90.73	1,068.53	325.45	5,983.23	5,876.48	106.76	56.046		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	7,786.09	7,679.07	108.77	31.45	90.73	1,068.53	325.44	6,049.54	5,942.42	107.12	56.476		
14,200.00	7,630.00	7,785.61	7,678.60	109.29	31.45	90.72	1,068.53	325.43	6,116.76	6,009.30	107.46	56.919		
14,300.00	7,630.00	7,785.13	7,678.12	109.84	31.45	90.71	1,068.52	325.42	6,184.87	6,077.07	107.80	57.376		
14,400.00	7,630.00	7,784.64	7,677.63	110.43	31.45	90.71	1,068.52	325.41	6,253.83	6,145.72	108.11	57.846		
14,500.00	7,630.00	7,784.15	7,677.13	111.06	31.45	90.70	1,068.52	325.40	6,323.63	6,215.21	108.41	58.328		
14,600.00	7,630.00	7,783.64	7,676.63	111.72	31.44	90.70	1,068.51	325.39	6,394.23	6,285.52	108.70	58.822		
14,700.00	7,630.00	7,783.14	7,676.13	112.42	31.44	90.69	1,068.51	325.38	6,465.60	6,356.62	108.98	59.327		
14,800.00	7,630.00	7,782.63	7,675.62	113.16	31.44	90.68	1,068.51	325.37	6,537.72	6,428.47	109.25	59.844		
14,900.00	7,630.00	7,782.11	7,675.10	113.94	31.44	90.68	1,068.50	325.37	6,610.57	6,501.07	109.50	60.371		
15,000.00	7,630.00	7,781.58	7,674.57	114.75	31.44	90.67	1,068.50	325.36	6,684.12	6,574.38	109.74	60.908		
15,100.00	7,630.00	7,781.05	7,674.04	115.60	31.44	90.66	1,068.50	325.35	6,758.35	6,648.38	109.97	61.455		
15,200.00	7,630.00	7,780.51	7,673.50	116.48	31.43	90.66	1,068.49	325.34	6,833.24	6,723.04	110.19	62.011		
15,300.00	7,630.00	7,779.96	7,672.95	117.40	31.43	90.65	1,068.49	325.32	6,908.76	6,798.36	110.41	62.576		
15,400.00	7,630.00	7,779.41	7,672.40	118.35	31.43	90.64	1,068.49	325.31	6,984.90	6,874.29	110.61	63.150		
15,500.00	7,630.00	7,778.85	7,671.84	119.34	31.43	90.63	1,068.48	325.30	7,061.63	6,950.83	110.80	63.733		
15,600.00	7,630.00	7,778.28	7,671.27	120.35	31.43	90.63	1,068.48	325.29	7,138.94	7,027.96	110.98	64.324		
15,700.00	7,630.00	7,777.70	7,670.69	121.40	31.43	90.62	1,068.48	325.28	7,216.81	7,105.65	111.16	64.922		
15,800.00	7,630.00	7,777.12	7,670.11	122.48	31.42	90.61	1,068.47	325.27	7,295.21	7,183.89	111.33	65.528		
15,900.00	7,630.00	7,776.52	7,669.51	123.58	31.42	90.60	1,068.47	325.26	7,374.14	7,262.65	111.49	66.141		
16,000.00	7,630.00	7,775.92	7,668.91	124.71	31.42	90.60	1,068.46	325.25	7,453.58	7,341.93	111.64	66.762		
16,100.00	7,630.00	7,775.32	7,668.31	125.87	31.42	90.59	1,068.46	325.24	7,533.50	7,421.71	111.79	67.388		
16,200.00	7,630.00	7,774.70	7,667.69	127.05	31.42	90.58	1,068.46	325.22	7,613.90	7,501.97	111.93	68.022		
16,300.00	7,630.00	7,774.07	7,667.06	128.26	31.41	90.57	1,068.45	325.21	7,694.76	7,582.69	112.07	68.662		
16,400.00	7,630.00	7,773.44	7,666.43	129.48	31.41	90.57	1,068.45	325.20	7,776.06	7,663.86	112.20	69.307		
16,500.00	7,630.00	7,772.80	7,665.79	130.73	31.41	90.56	1,068.44	325.19	7,857.80	7,745.48	112.32	69.959		
16,600.00	7,630.00	7,772.14	7,665.14	132.00	31.41	90.55	1,068.44	325.17	7,939.95	7,827.51	112.44	70.616		
16,700.00	7,630.00	7,771.48	7,664.47	133.29	31.41	90.54	1,068.43	325.16	8,022.51	7,909.95	112.55	71.278		
16,800.00	7,630.00	7,770.81	7,663.80	134.59	31.40	90.53	1,068.43	325.15	8,105.46	7,992.80	112.66	71.946		
16,900.00	7,630.00	7,770.13	7,663.12	135.91	31.40	90.52	1,068.42	325.13	8,188.79	8,076.02	112.76	72.619		
17,000.00	7,630.00	7,769.44	7,662.43	137.25	31.40	90.51	1,068.42	325.12	8,272.49	8,159.63	112.86	73.296		
17,100.00	7,630.00	7,768.74	7,661.73	138.61	31.40	90.51	1,068.41	325.10	8,356.55	8,243.59	112.96	73.979		
17,200.00	7,630.00	7,768.03	7,661.02	139.97	31.40	90.50	1,068.41	325.09	8,440.95	8,327.90	113.05	74.665		
17,300.00	7,630.00	7,767.30	7,660.30	141.36	31.39	90.49	1,068.40	325.08	8,525.70	8,412.56	113.14	75.357		
17,400.00	7,630.00	7,766.57	7,659.56	142.75	31.39	90.48	1,068.40	325.06	8,610.77	8,497.55	113.22	76.052		
17,500.00	7,630.00	7,765.83	7,658.82	144.16	31.39	90.47	1,068.39	325.04	8,696.16	8,582.86	113.30	76.751		
17,600.00	7,630.00	7,765.07	7,658.06	145.58	31.39	90.46	1,068.39	325.03	8,781.86	8,668.48	113.38	77.455		
17,700.00	7,630.00	7,764.30	7,657.30	147.01	31.38	90.45	1,068.38	325.01	8,867.85	8,754.40	113.46	78.162		
17,800.00	7,630.00	7,763.52	7,656.52	148.45	31.38	90.44	1,068.37	325.00	8,954.14	8,840.61	113.53	78.873		
17,900.00	7,630.00	7,762.73	7,655.73	149.91	31.38	90.43	1,068.37	324.98	9,040.71	8,927.11	113.60	79.587		
18,000.00	7,630.00	7,761.93	7,654.92	151.37	31.38	90.42	1,068.36	324.96	9,127.55	9,013.89	113.66	80.304		
18,100.00	7,630.00	7,761.11	7,654.11	152.84	31.37	90.41	1,068.36	324.95	9,214.66	9,100.94	113.73	81.025		
18,200.00	7,630.00	7,760.28	7,653.28	154.32	31.37	90.40	1,068.35	324.93	9,302.03	9,188.25	113.79	81.750		
18,300.00	7,630.00	7,759.44	7,652.43	155.81	31.37	90.39	1,068.34	324.91	9,389.66	9,275.81	113.85	82.477		
18,400.00	7,630.00	7,758.58	7,651.58	157.31	31.37	90.38	1,068.33	324.89	9,477.52	9,363.62	113.90	83.207		
18,500.00	7,630.00	7,757.71	7,650.70	158.81	31.36	90.37	1,068.33	324.87	9,565.63	9,451.67	113.96	83.940		
18,600.00	7,630.00	7,756.82	7,649.82	160.32	31.36	90.35	1,068.32	324.85	9,653.97	9,539.96	114.01	84.676		
18,700.00	7,630.00	7,755.92	7,648.92	161.84	31.36	90.34	1,068.31	324.83	9,742.53	9,628.47	114.06	85.414		
18,800.00	7,630.00	7,755.01	7,648.00	163.37	31.35	90.33	1,068.31	324.81	9,831.31	9,717.20	114.11	86.155		
18,900.00	7,630.00	7,754.08	7,647.07	164.90	31.35	90.32	1,068.30	324.79	9,920.31	9,806.15	114.16	86.898		

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-29.52	218.57	-123.76	251.31					
100.00	100.00	90.96	90.96	0.13	0.15	-29.50	218.78	-123.77	251.37	251.09	0.28	889.912		
200.00	200.00	190.35	190.34	0.49	0.41	-29.44	219.42	-123.84	251.96	251.05	0.90	278.471		
300.00	300.00	290.01	290.01	0.85	0.77	-29.40	220.12	-124.02	252.66	251.04	1.62	155.933		
400.00	400.00	394.29	394.28	1.21	1.13	-29.32	220.48	-123.85	252.89	250.55	2.34	107.965		
500.00	499.98	503.83	503.77	1.56	1.51	-96.40	218.18	-121.88	250.37	247.30	3.07	81.559		
600.00	599.84	614.28	613.94	1.92	1.90	-97.53	212.35	-116.86	244.16	240.35	3.81	64.148		
700.00	699.45	724.48	723.39	2.29	2.31	-99.38	203.02	-108.02	233.98	229.43	4.55	51.407		
800.00	798.70	833.59	831.01	2.67	2.75	-101.87	190.94	-94.80	220.21	214.91	5.30	41.539		
900.00	897.47	939.78	934.81	3.07	3.22	-105.33	176.16	-78.07	203.13	197.08	6.05	33.556		
1,000.00	995.62	1,038.64	1,030.94	3.50	3.70	-109.90	161.21	-60.44	185.50	178.68	6.82	27.206		
1,100.00	1,093.06	1,138.10	1,127.33	3.96	4.20	-116.47	145.06	-42.03	169.27	161.68	7.59	22.298		
1,200.00	1,189.64	1,231.41	1,217.91	4.46	4.68	-124.56	130.38	-25.15	157.97	149.57	8.41	18.787		
1,291.19	1,276.88	1,317.07	1,301.37	4.96	5.12	-133.42	117.42	-10.80	154.39	145.21	9.18	16.815 CC		
1,300.00	1,285.27	1,325.43	1,309.52	5.00	5.16	-134.34	116.16	-9.45	154.42	145.16	9.26	16.682 ES		
1,400.00	1,379.82	1,420.29	1,402.07	5.60	5.64	-144.93	101.80	5.62	159.61	149.47	10.14	15.743		
1,500.00	1,473.17	1,516.22	1,495.49	6.25	6.13	-155.27	86.78	21.37	172.99	161.94	11.05	15.654 SF		
1,600.00	1,565.21	1,610.42	1,586.92	6.95	6.64	-164.46	71.04	37.70	194.00	182.01	11.99	16.179		
1,700.00	1,655.84	1,702.36	1,676.16	7.72	7.13	-171.79	55.91	53.80	222.30	209.36	12.94	17.183		
1,800.00	1,744.94	1,792.43	1,763.77	8.55	7.61	-177.36	41.74	69.21	256.90	243.03	13.87	18.518		
1,900.00	1,832.39	1,880.44	1,849.52	9.45	8.07	-178.47	28.22	83.73	296.90	282.10	14.79	20.069		
2,000.00	1,918.11	1,965.98	1,933.18	10.41	8.50	175.54	16.04	96.70	341.73	326.05	15.69	21.787		
2,100.00	2,001.97	2,053.43	2,019.06	11.45	8.92	173.46	5.02	108.99	390.37	373.80	16.57	23.555		
2,200.00	2,083.88	2,130.08	2,094.51	12.56	9.28	172.11	-4.22	118.84	442.95	425.59	17.36	25.510		
2,300.00	2,163.74	2,209.97	2,173.13	13.74	9.66	170.90	-14.72	128.29	499.72	481.52	18.19	27.465		
2,400.00	2,241.45	2,291.06	2,252.60	14.99	10.06	169.66	-26.93	138.82	559.38	540.30	19.07	29.329		
2,421.22	2,257.65	2,308.18	2,269.33	15.26	10.15	169.39	-29.71	141.20	572.37	553.10	19.27	29.708		
2,500.00	2,317.63	2,372.89	2,332.41	16.29	10.49	168.62	-40.64	150.63	620.74	600.74	19.99	31.050		
2,600.00	2,393.75	2,457.86	2,415.20	17.62	10.93	167.77	-54.71	163.53	681.66	660.70	20.95	32.530		
2,700.00	2,469.88	2,545.69	2,500.86	18.95	11.39	167.10	-68.33	177.39	741.79	719.84	21.95	33.790		
2,800.00	2,546.01	2,634.47	2,587.35	20.30	11.86	166.51	-81.68	192.33	801.07	778.10	22.97	34.871		
2,900.00	2,622.13	2,723.41	2,674.03	21.65	12.33	166.05	-94.19	207.80	859.57	835.57	24.00	35.819		
3,000.00	2,698.26	2,804.95	2,753.55	23.01	12.75	165.70	-105.23	222.11	917.74	892.79	24.95	36.784		
3,100.00	2,774.38	2,869.72	2,816.73	24.37	13.09	165.46	-114.32	233.08	976.57	950.84	25.73	37.949		
3,200.00	2,850.51	2,942.69	2,887.93	25.74	13.47	165.19	-125.26	244.71	1,036.51	1,009.90	26.61	38.957		
3,300.00	2,926.64	3,023.04	2,966.28	27.11	13.89	164.92	-137.59	257.56	1,096.60	1,069.04	27.57	39.778		
3,400.00	3,002.76	3,102.15	3,043.31	28.49	14.31	164.64	-150.06	270.56	1,156.61	1,128.08	28.53	40.544		
3,500.00	3,078.89	3,172.17	3,111.55	29.87	14.68	164.44	-161.16	281.65	1,217.06	1,187.68	29.39	41.417		
3,600.00	3,155.02	3,270.48	3,207.55	31.25	15.19	164.22	-175.84	296.94	1,277.30	1,246.75	30.55	41.813		
3,700.00	3,231.14	3,344.53	3,279.94	32.63	15.57	164.10	-186.28	308.53	1,337.08	1,305.65	31.44	42.534		
3,800.00	3,307.27	3,421.90	3,355.56	34.01	15.97	163.99	-197.41	320.44	1,397.17	1,364.81	32.36	43.172		
3,900.00	3,383.39	3,500.65	3,432.50	35.40	16.38	163.86	-208.99	332.66	1,457.33	1,424.02	33.31	43.749		
4,000.00	3,459.52	3,579.67	3,509.75	36.79	16.78	163.76	-220.44	344.73	1,517.55	1,483.29	34.26	44.294		
4,100.00	3,535.65	3,659.34	3,587.65	38.18	17.19	163.67	-231.92	356.83	1,577.79	1,542.58	35.22	44.802		
4,200.00	3,611.77	3,738.39	3,665.12	39.57	17.58	163.63	-242.65	368.33	1,638.06	1,601.91	36.15	45.311		
4,300.00	3,687.90	3,828.27	3,753.20	40.96	18.03	163.58	-254.65	381.57	1,698.11	1,660.90	37.21	45.642		
4,400.00	3,764.02	3,921.28	3,844.01	42.35	18.51	163.47	-267.95	396.66	1,757.63	1,719.30	38.33	45.859		
4,500.00	3,840.15	4,006.56	3,927.28	43.74	18.95	163.39	-279.78	410.77	1,816.74	1,777.38	39.36	46.159		
4,600.00	3,916.28	4,094.76	4,013.63	45.13	19.40	163.35	-290.88	424.88	1,875.60	1,835.20	40.40	46.422		
4,700.00	3,992.40	4,159.35	4,076.70	46.53	19.74	163.29	-299.66	435.67	1,934.51	1,893.30	41.21	46.943		
4,800.00	4,068.53	4,216.13	4,131.89	47.92	20.04	163.20	-308.87	445.36	1,994.39	1,952.45	41.94	47.550		
4,900.00	4,144.66	4,286.53	4,200.33	49.32	20.42	163.09	-320.59	456.93	2,054.91	2,012.07	42.84	47.965		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	4,340.29	4,252.82	50.71	20.70	163.04	-329.05	464.94	2,116.01	2,072.50	43.51	48.629		
5,100.00	4,296.91	4,397.00	4,308.46	52.11	20.98	163.03	-337.48	471.89	2,178.27	2,134.08	44.20	49.287		
5,200.00	4,373.03	4,474.12	4,384.49	53.51	21.33	163.09	-347.61	479.86	2,241.01	2,195.95	45.06	49.730		
5,300.00	4,449.16	4,543.41	4,453.07	54.90	21.62	163.19	-355.20	486.14	2,303.57	2,257.76	45.81	50.288		
5,400.00	4,525.29	4,611.91	4,521.07	56.30	21.90	163.34	-361.80	491.18	2,366.57	2,320.06	46.52	50.877		
5,500.00	4,601.41	4,690.31	4,599.03	57.70	22.20	163.53	-368.42	496.19	2,429.66	2,382.36	47.30	51.370		
5,600.00	4,677.54	4,767.18	4,675.58	59.10	22.48	163.74	-373.96	500.42	2,492.75	2,444.71	48.04	51.889		
5,700.00	4,753.66	4,835.02	4,743.24	60.49	22.72	163.96	-377.94	503.36	2,556.01	2,507.34	48.67	52.520		
5,800.00	4,829.79	4,898.34	4,806.46	61.89	22.93	164.18	-380.93	505.26	2,619.62	2,570.38	49.24	53.205		
5,900.00	4,905.92	4,958.00	4,866.04	63.29	23.12	164.39	-383.76	506.62	2,683.72	2,633.95	49.76	53.928		
6,000.00	4,982.04	5,009.83	4,917.80	64.69	23.28	164.57	-386.33	507.40	2,748.42	2,698.20	50.22	54.732		
6,100.00	5,058.17	5,061.79	4,969.69	66.09	23.44	164.75	-389.02	507.70	2,813.81	2,763.15	50.67	55.537		
6,200.00	5,134.30	5,118.88	5,026.68	67.49	23.62	164.93	-392.33	507.80	2,879.76	2,828.60	51.16	56.287		
6,300.00	5,210.42	5,284.30	5,191.95	68.89	24.11	165.50	-398.57	508.56	2,944.57	2,891.99	52.58	56.002		
6,400.00	5,286.55	5,352.82	5,260.46	70.29	24.29	165.77	-399.12	508.53	3,008.61	2,955.48	53.13	56.628		
6,500.00	5,362.67	5,425.27	5,332.91	71.69	24.48	166.05	-399.30	508.07	3,072.81	3,019.12	53.69	57.229		
6,600.00	5,438.80	5,494.55	5,402.19	73.09	24.65	166.32	-399.35	507.43	3,137.18	3,082.95	54.23	57.852		
6,700.00	5,514.93	5,567.04	5,474.68	74.49	24.83	166.58	-399.50	506.68	3,201.72	3,146.93	54.79	58.438		
6,800.00	5,591.05	5,642.98	5,550.61	75.89	25.02	166.86	-399.54	505.78	3,266.32	3,210.95	55.38	58.983		
6,900.00	5,667.18	5,721.94	5,629.57	77.29	25.21	167.13	-399.59	504.92	3,330.92	3,274.93	55.99	59.488		
7,000.00	5,743.30	5,803.10	5,710.72	78.69	25.42	167.40	-399.61	504.15	3,395.45	3,338.82	56.63	59.958		
7,100.00	5,819.43	5,880.07	5,787.69	80.09	25.61	167.64	-399.58	503.48	3,459.94	3,402.71	57.24	60.449		
7,200.00	5,895.56	5,956.85	5,864.47	81.49	25.81	167.88	-399.45	502.79	3,524.44	3,466.59	57.85	60.929		
7,300.00	5,971.68	6,029.15	5,936.77	82.90	25.99	168.10	-399.22	502.07	3,588.97	3,530.55	58.42	61.435		
7,400.00	6,047.81	6,100.12	6,007.72	84.30	26.17	168.30	-399.02	501.24	3,653.65	3,594.67	58.98	61.943		
7,500.00	6,123.94	6,176.11	6,083.71	85.70	26.37	168.52	-398.73	500.28	3,718.40	3,658.81	59.59	62.399		
7,600.00	6,200.06	6,258.18	6,165.77	87.10	26.58	168.75	-398.27	499.24	3,783.10	3,722.85	60.24	62.796		
7,700.00	6,276.19	6,344.09	6,251.68	88.50	26.80	168.98	-397.70	498.31	3,847.67	3,786.73	60.93	63.148		
7,800.00	6,352.31	6,416.63	6,324.21	89.90	26.99	169.17	-397.25	497.66	3,912.16	3,850.64	61.52	63.593		
7,900.00	6,428.44	6,488.68	6,396.26	91.31	27.18	169.35	-396.83	496.91	3,976.78	3,914.68	62.11	64.033		
8,000.00	6,504.57	6,569.40	6,476.97	92.71	27.40	169.54	-396.46	496.13	4,041.44	3,978.68	62.76	64.392		
8,100.00	6,580.69	6,661.88	6,569.45	94.11	27.65	169.75	-396.08	495.65	4,105.84	4,042.32	63.52	64.639		
8,200.00	6,656.82	6,735.02	6,642.59	95.51	27.85	169.90	-395.88	495.43	4,170.17	4,106.04	64.13	65.028		
8,300.00	6,732.95	6,813.76	6,721.33	96.91	28.07	170.06	-395.84	495.30	4,234.53	4,169.73	64.80	65.352		
8,400.00	6,809.07	6,892.34	6,799.90	98.32	28.31	170.21	-396.12	495.42	4,298.86	4,233.38	65.48	65.654		
8,500.00	6,885.20	6,971.94	6,879.51	99.72	28.55	170.35	-396.82	495.84	4,363.15	4,296.97	66.18	65.930		
8,600.00	6,961.32	7,049.82	6,957.38	101.12	28.79	170.48	-397.61	496.39	4,427.40	4,360.53	66.87	66.207		
8,700.00	7,037.45	7,122.81	7,030.36	102.52	29.02	170.59	-398.59	497.02	4,491.67	4,424.14	67.53	66.515		
8,732.15	7,061.92	7,143.77	7,051.31	102.97	29.09	170.62	-398.91	497.21	4,512.36	4,444.64	67.72	66.632		
8,750.00	7,075.57	7,155.44	7,062.98	103.22	29.13	167.31	-399.10	497.31	4,523.75	4,455.93	67.83	66.697		
8,800.00	7,114.27	7,188.55	7,096.09	103.91	29.23	158.09	-399.65	497.57	4,554.57	4,486.45	68.12	66.860		
8,850.00	7,153.47	7,226.70	7,134.23	104.58	29.36	149.02	-400.33	497.85	4,583.57	4,515.12	68.45	66.961		
8,900.00	7,192.85	7,269.06	7,176.59	105.21	29.49	140.26	-401.07	498.18	4,610.52	4,541.71	68.81	67.004		
8,950.00	7,232.12	7,311.28	7,218.79	105.80	29.63	131.96	-401.80	498.53	4,635.24	4,566.08	69.16	67.025		
9,000.00	7,270.99	7,352.84	7,260.34	106.35	29.76	124.28	-402.51	498.89	4,657.57	4,588.08	69.49	67.026		
9,050.00	7,309.16	7,394.03	7,301.53	106.85	29.89	117.33	-403.20	499.27	4,677.41	4,607.61	69.80	67.007		
9,100.00	7,346.32	7,438.05	7,345.54	107.30	30.03	111.21	-403.91	499.70	4,694.63	4,624.50	70.13	66.940		
9,150.00	7,382.22	7,480.63	7,388.11	107.69	30.17	105.90	-404.52	500.15	4,709.15	4,638.72	70.43	66.860		
9,200.00	7,416.56	7,550.12	7,457.59	108.02	30.39	101.63	-405.29	501.08	4,720.82	4,649.88	70.95	66.540		
9,250.00	7,449.09	9,250.00	7,480.91	108.29	35.89	97.73	-405.44	501.49	4,729.59	4,653.09	76.50	61.823		
9,300.00	7,479.56	7,603.98	7,511.45	108.51	30.56	94.59	-405.63	501.96	4,735.67	4,664.45	71.22	66.498		
9,350.00	7,507.74	7,618.63	7,526.10	108.68	30.61	91.95	-405.72	502.12	4,739.12	4,667.90	71.23	66.535		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,631.94	7,539.41	108.79	30.65	89.88	-405.80	502.22	4,739.94	4,668.72	71.22	66.555		
9,450.00	7,556.39	7,643.82	7,551.29	108.86	30.69	88.34	-405.88	502.28	4,738.14	4,666.95	71.19	66.554		
9,500.00	7,576.48	7,672.00	7,579.46	108.88	30.78	87.49	-406.06	502.30	4,733.82	4,662.51	71.31	66.388		
9,550.00	7,593.55	7,672.00	7,579.46	108.86	30.78	86.81	-406.06	502.30	4,726.84	4,655.66	71.18	66.411		
9,600.00	7,607.46	7,672.00	7,579.46	108.80	30.78	86.58	-406.06	502.30	4,717.40	4,646.36	71.05	66.396		
9,650.00	7,618.11	7,672.00	7,579.46	108.71	30.78	86.79	-406.06	502.30	4,705.58	4,634.65	70.93	66.338		
9,700.00	7,625.41	7,672.00	7,579.46	108.59	30.78	87.44	-406.06	502.30	4,691.44	4,620.61	70.83	66.234		
9,750.00	7,629.30	7,684.61	7,592.08	108.45	30.81	88.68	-406.14	502.25	4,675.04	4,604.17	70.87	65.971		
9,781.81	7,630.00	7,685.21	7,592.67	108.35	30.81	89.61	-406.14	502.25	4,663.50	4,592.67	70.83	65.839		
9,800.00	7,630.00	7,685.29	7,592.75	108.29	30.81	89.61	-406.14	502.25	4,656.69	4,585.88	70.81	65.759		
9,900.00	7,630.00	7,685.74	7,593.20	107.97	30.82	89.62	-406.15	502.25	4,620.37	4,549.62	70.75	65.309		
10,000.00	7,630.00	7,686.18	7,593.65	107.67	30.82	89.62	-406.15	502.25	4,585.94	4,515.21	70.73	64.835		
10,100.00	7,630.00	7,686.63	7,594.10	107.38	30.82	89.63	-406.15	502.25	4,553.44	4,482.67	70.77	64.338		
10,200.00	7,630.00	7,687.08	7,594.55	107.10	30.82	89.64	-406.16	502.24	4,522.93	4,452.06	70.87	63.818		
10,300.00	7,630.00	7,687.53	7,595.00	106.84	30.82	89.64	-406.16	502.24	4,494.43	4,423.40	71.03	63.275		
10,400.00	7,630.00	7,687.99	7,595.45	106.59	30.82	89.65	-406.16	502.24	4,467.99	4,396.74	71.25	62.711		
10,500.00	7,630.00	7,688.44	7,595.90	106.35	30.82	89.65	-406.17	502.24	4,443.64	4,372.12	71.52	62.128		
10,600.00	7,630.00	7,688.89	7,596.36	106.13	30.83	89.66	-406.17	502.24	4,421.42	4,349.56	71.86	61.528		
10,700.00	7,630.00	7,689.35	7,596.81	105.92	30.83	89.67	-406.17	502.23	4,401.37	4,329.11	72.26	60.913		
10,800.00	7,630.00	7,689.81	7,597.27	105.72	30.83	89.67	-406.18	502.23	4,383.50	4,310.79	72.71	60.289		
10,900.00	7,630.00	7,690.27	7,597.73	105.54	30.83	89.68	-406.18	502.23	4,367.84	4,294.63	73.22	59.658		
11,000.00	7,630.00	7,690.73	7,598.19	105.37	30.83	89.68	-406.18	502.23	4,354.43	4,280.66	73.77	59.024		
11,100.00	7,630.00	7,691.19	7,598.65	105.21	30.83	89.69	-406.18	502.23	4,343.28	4,268.90	74.38	58.391		
11,200.00	7,630.00	7,691.65	7,599.12	105.06	30.83	89.70	-406.19	502.22	4,334.41	4,259.37	75.04	57.763		
11,300.00	7,630.00	7,692.12	7,599.58	104.93	30.84	89.70	-406.19	502.22	4,327.83	4,252.10	75.74	57.144		
11,400.00	7,630.00	7,692.58	7,600.05	104.82	30.84	89.71	-406.19	502.22	4,323.56	4,247.09	76.47	56.538		
11,500.00	7,630.00	7,693.05	7,600.51	104.72	30.84	89.72	-406.20	502.22	4,321.60	4,244.35	77.24	55.949		
11,534.91	7,630.00	7,693.21	7,600.68	104.68	30.84	89.72	-406.20	502.22	4,321.45	4,243.93	77.52	55.743		
11,600.00	7,630.00	7,693.52	7,600.98	104.63	30.84	89.72	-406.20	502.21	4,321.94	4,243.90	78.04	55.379		
11,700.00	7,630.00	7,693.99	7,601.45	104.55	30.84	89.73	-406.20	502.21	4,324.61	4,245.74	78.87	54.832		
11,800.00	7,630.00	7,694.46	7,601.92	104.50	30.84	89.73	-406.21	502.21	4,329.58	4,249.86	79.72	54.310		
11,900.00	7,630.00	7,694.93	7,602.40	104.45	30.84	89.74	-406.21	502.21	4,336.85	4,256.26	80.59	53.816		
12,000.00	7,630.00	7,695.41	7,602.87	104.43	30.84	89.75	-406.21	502.21	4,346.41	4,264.94	81.47	53.351		
12,100.00	7,630.00	7,695.88	7,603.35	104.42	30.85	89.75	-406.22	502.20	4,358.24	4,275.88	82.36	52.917		
12,200.00	7,630.00	7,696.36	7,603.82	104.42	30.85	89.76	-406.22	502.20	4,372.33	4,289.07	83.26	52.515		
12,300.00	7,630.00	7,696.84	7,604.30	104.45	30.85	89.77	-406.22	502.20	4,388.66	4,304.50	84.16	52.146		
12,400.00	7,630.00	7,697.32	7,604.78	104.49	30.85	89.77	-406.23	502.20	4,407.19	4,322.13	85.06	51.811		
12,500.00	7,630.00	7,697.80	7,605.26	104.55	30.85	89.78	-406.23	502.19	4,427.91	4,341.94	85.96	51.510		
12,600.00	7,630.00	7,698.28	7,605.75	104.63	30.85	89.78	-406.23	502.19	4,450.77	4,363.91	86.86	51.243		
12,700.00	7,630.00	7,698.77	7,606.23	104.73	30.85	89.79	-406.24	502.19	4,475.75	4,388.01	87.74	51.011		
12,800.00	7,630.00	7,699.25	7,606.72	104.85	30.86	89.80	-406.24	502.18	4,502.82	4,414.20	88.62	50.812		
12,900.00	7,630.00	7,699.74	7,607.20	104.99	30.86	89.80	-406.24	502.18	4,531.93	4,442.45	89.48	50.648		
13,000.00	7,630.00	7,700.23	7,607.69	105.15	30.86	89.81	-406.25	502.18	4,563.05	4,472.72	90.33	50.517		
13,100.00	7,630.00	7,700.72	7,608.18	105.34	30.86	89.82	-406.25	502.18	4,596.13	4,504.97	91.16	50.418		
13,200.00	7,630.00	7,701.21	7,608.67	105.56	30.86	89.82	-406.26	502.17	4,631.14	4,539.16	91.98	50.352		
13,300.00	7,630.00	7,701.70	7,609.17	105.80	30.86	89.83	-406.26	502.17	4,668.02	4,575.25	92.77	50.317		
13,400.00	7,630.00	7,702.20	7,609.66	106.06	30.87	89.84	-406.26	502.17	4,706.74	4,613.19	93.55	50.312		
13,500.00	7,630.00	7,702.69	7,610.16	106.36	30.87	89.84	-406.27	502.16	4,747.26	4,652.95	94.31	50.338		
13,600.00	7,630.00	7,703.19	7,610.66	106.68	30.87	89.85	-406.27	502.16	4,789.51	4,694.47	95.05	50.392		
13,700.00	7,630.00	7,703.69	7,611.15	107.03	30.87	89.86	-406.27	502.16	4,833.47	4,737.71	95.76	50.474		
13,800.00	7,630.00	7,704.19	7,611.65	107.42	30.87	89.86	-406.28	502.16	4,879.08	4,782.63	96.46	50.583		
13,900.00	7,630.00	7,704.69	7,612.16	107.83	30.87	89.87	-406.28	502.15	4,926.30	4,829.17	97.13	50.718		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,705.20	7,612.66	108.28	30.87	89.88	-406.28	502.15	4,975.08	4,877.30	97.78	50.879		
14,100.00	7,630.00	7,705.70	7,613.17	108.77	30.88	89.88	-406.29	502.15	5,025.38	4,926.97	98.41	51.064		
14,200.00	7,630.00	7,706.21	7,613.67	109.29	30.88	89.89	-406.29	502.14	5,077.15	4,978.13	99.02	51.272		
14,300.00	7,630.00	7,706.72	7,614.18	109.84	30.88	89.90	-406.29	502.14	5,130.35	5,030.73	99.61	51.503		
14,400.00	7,630.00	7,707.23	7,614.69	110.43	30.88	89.90	-406.30	502.14	5,184.93	5,084.75	100.18	51.756		
14,500.00	7,630.00	7,707.74	7,615.20	111.06	30.88	89.91	-406.30	502.13	5,240.84	5,140.12	100.73	52.030		
14,600.00	7,630.00	7,708.25	7,615.72	111.72	30.88	89.92	-406.31	502.13	5,298.06	5,196.81	101.25	52.325		
14,700.00	7,630.00	7,708.77	7,616.23	112.42	30.88	89.92	-406.31	502.13	5,356.53	5,254.77	101.76	52.638		
14,800.00	7,630.00	7,709.29	7,616.75	113.16	30.89	89.93	-406.31	502.12	5,416.22	5,313.97	102.25	52.971		
14,900.00	7,630.00	7,709.80	7,617.27	113.94	30.89	89.94	-406.32	502.12	5,477.08	5,374.36	102.72	53.321		
15,000.00	7,630.00	7,710.32	7,617.79	114.75	30.89	89.94	-406.32	502.11	5,539.08	5,435.91	103.17	53.689		
15,100.00	7,630.00	7,710.84	7,618.31	115.60	30.89	89.95	-406.33	502.11	5,602.18	5,498.58	103.60	54.073		
15,200.00	7,630.00	7,711.37	7,618.83	116.48	30.89	89.96	-406.33	502.11	5,666.34	5,562.32	104.02	54.473		
15,300.00	7,630.00	7,711.89	7,619.35	117.40	30.89	89.96	-406.33	502.10	5,731.53	5,627.11	104.42	54.889		
15,400.00	7,630.00	7,712.42	7,619.88	118.35	30.90	89.97	-406.34	502.10	5,797.71	5,692.90	104.81	55.319		
15,500.00	7,630.00	7,712.95	7,620.41	119.34	30.90	89.98	-406.34	502.10	5,864.84	5,759.67	105.17	55.763		
15,600.00	7,630.00	7,713.48	7,620.94	120.35	30.90	89.99	-406.34	502.09	5,932.91	5,827.38	105.53	56.221		
15,700.00	7,630.00	7,714.01	7,621.47	121.40	30.90	89.99	-406.35	502.09	6,001.86	5,896.00	105.87	56.692		
15,800.00	7,630.00	7,714.54	7,622.00	122.48	30.90	90.00	-406.35	502.08	6,071.69	5,965.49	106.19	57.175		
15,900.00	7,630.00	7,715.07	7,622.54	123.58	30.90	90.01	-406.36	502.08	6,142.34	6,035.83	106.51	57.671		
16,000.00	7,630.00	7,715.61	7,623.07	124.71	30.91	90.01	-406.36	502.08	6,213.80	6,106.99	106.81	58.177		
16,100.00	7,630.00	7,716.15	7,623.61	125.87	30.91	90.02	-406.36	502.07	6,286.04	6,178.95	107.10	58.695		
16,200.00	7,630.00	7,716.69	7,624.15	127.05	30.91	90.03	-406.37	502.07	6,359.03	6,251.66	107.37	59.224		
16,300.00	7,630.00	7,717.23	7,624.69	128.26	30.91	90.04	-406.37	502.06	6,432.75	6,325.11	107.64	59.763		
16,400.00	7,630.00	7,717.77	7,625.23	129.48	30.91	90.04	-406.38	502.06	6,507.17	6,399.28	107.89	60.311		
16,500.00	7,630.00	7,718.32	7,625.78	130.73	30.91	90.05	-406.38	502.06	6,582.27	6,474.13	108.14	60.870		
16,600.00	7,630.00	7,718.86	7,626.33	132.00	30.91	90.06	-406.38	502.05	6,658.02	6,549.65	108.37	61.437		
16,700.00	7,630.00	7,719.41	7,626.87	133.29	30.92	90.06	-406.39	502.05	6,734.41	6,625.81	108.60	62.013		
16,800.00	7,630.00	7,719.96	7,627.42	134.59	30.92	90.07	-406.39	502.04	6,811.40	6,702.59	108.81	62.597		
16,900.00	7,630.00	7,720.51	7,627.98	135.91	30.92	90.08	-406.40	502.04	6,888.99	6,779.97	109.02	63.189		
17,000.00	7,630.00	7,721.07	7,628.53	137.25	30.92	90.09	-406.40	502.03	6,967.15	6,857.93	109.22	63.789		
17,100.00	7,630.00	7,721.62	7,629.09	138.61	30.92	90.09	-406.41	502.03	7,045.86	6,936.45	109.41	64.397		
17,200.00	7,630.00	7,722.18	7,629.64	139.97	30.92	90.10	-406.41	502.03	7,125.10	7,015.51	109.60	65.012		
17,300.00	7,630.00	7,722.74	7,630.20	141.36	30.93	90.11	-406.41	502.02	7,204.87	7,095.09	109.77	65.633		
17,400.00	7,630.00	7,723.30	7,630.76	142.75	30.93	90.12	-406.42	502.02	7,285.13	7,175.18	109.95	66.261		
17,500.00	7,630.00	7,723.86	7,631.32	144.16	30.93	90.12	-406.42	502.01	7,365.87	7,255.76	110.11	66.896		
17,600.00	7,630.00	7,724.43	7,631.89	145.58	30.93	90.13	-406.43	502.01	7,447.08	7,336.81	110.27	67.537		
17,700.00	7,630.00	7,724.99	7,632.46	147.01	30.93	90.14	-406.43	502.00	7,528.74	7,418.33	110.42	68.183		
17,800.00	7,630.00	7,725.56	7,633.02	148.45	30.93	90.15	-406.44	502.00	7,610.85	7,500.28	110.57	68.836		
17,900.00	7,630.00	7,726.13	7,633.59	149.91	30.94	90.15	-406.44	501.99	7,693.37	7,582.66	110.71	69.494		
18,000.00	7,630.00	7,726.70	7,634.17	151.37	30.94	90.16	-406.44	501.99	7,776.30	7,665.46	110.84	70.157		
18,100.00	7,630.00	7,727.28	7,634.74	152.84	30.94	90.17	-406.45	501.98	7,859.64	7,748.66	110.97	70.825		
18,200.00	7,630.00	7,727.85	7,635.32	154.32	30.94	90.18	-406.45	501.98	7,943.35	7,832.25	111.10	71.498		
18,300.00	7,630.00	7,728.43	7,635.89	155.81	30.94	90.18	-406.46	501.97	8,027.44	7,916.22	111.22	72.176		
18,400.00	7,630.00	7,729.01	7,636.47	157.31	30.94	90.19	-406.46	501.97	8,111.89	8,000.55	111.34	72.858		
18,500.00	7,630.00	7,729.59	7,637.05	158.81	30.95	90.20	-406.47	501.96	8,196.69	8,085.24	111.45	73.544		
18,600.00	7,630.00	7,730.18	7,637.64	160.32	30.95	90.21	-406.47	501.96	8,281.83	8,170.27	111.56	74.235		
18,700.00	7,630.00	7,730.76	7,638.22	161.84	30.95	90.22	-406.48	501.95	8,367.30	8,255.63	111.67	74.930		
18,800.00	7,630.00	7,731.35	7,638.81	163.37	30.95	90.22	-406.48	501.95	8,453.08	8,341.31	111.77	75.629		
18,900.00	7,630.00	7,731.94	7,639.40	164.90	30.95	90.23	-406.48	501.94	8,539.18	8,427.31	111.87	76.331		
19,000.00	7,630.00	7,732.53	7,639.99	166.43	30.96	90.24	-406.49	501.93	8,625.58	8,513.61	111.97	77.037		
19,100.00	7,630.00	7,733.12	7,640.58	167.98	30.96	90.25	-406.49	501.93	8,712.26	8,600.20	112.06	77.747		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
19,200.00	7,630.00	7,733.72	7,641.18	169.53	30.96	90.25	-406.50	501.92	8,799.23	8,687.08	112.15	78.460	
19,300.00	7,630.00	7,734.31	7,641.77	171.08	30.96	90.26	-406.50	501.92	8,886.47	8,774.24	112.24	79.176	
19,400.00	7,630.00	7,734.91	7,642.37	172.64	30.96	90.27	-406.51	501.91	8,973.98	8,861.66	112.32	79.895	
19,500.00	7,630.00	7,735.51	7,642.97	174.21	30.96	90.28	-406.51	501.91	9,061.75	8,949.35	112.40	80.617	
19,518.56	7,630.00	7,735.63	7,643.09	174.50	30.96	90.28	-406.51	501.90	9,078.07	8,965.65	112.42	80.752	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-37.18	218.57	-165.76	274.44				
100.00	100.00	92.43	92.42	0.13	0.15	-37.29	218.19	-166.14	274.25	273.96	0.29	961.238	
158.80	158.80	151.48	151.47	0.35	0.25	-37.48	217.55	-166.79	274.13	273.54	0.59	462.713 CC	
200.00	200.00	189.57	189.56	0.49	0.41	-37.52	217.57	-167.09	274.34	273.44	0.90	305.361 ES	
300.00	300.00	281.12	281.08	0.85	0.73	-37.27	219.91	-167.34	276.55	274.97	1.58	174.705	
400.00	400.00	372.32	372.04	1.21	1.06	-36.51	226.26	-167.48	282.21	279.94	2.27	124.399	
500.00	499.98	463.89	463.09	1.56	1.40	-102.19	235.97	-167.25	291.04	288.08	2.96	98.394	
600.00	599.84	553.79	552.14	1.92	1.76	-101.50	248.33	-167.60	303.58	299.94	3.65	83.213	
700.00	699.45	642.07	639.05	2.29	2.14	-101.01	263.78	-168.16	320.04	315.69	4.35	73.639	
800.00	798.70	729.20	724.20	2.67	2.54	-100.74	282.18	-169.16	340.42	335.37	5.06	67.304	
900.00	897.47	814.69	807.03	3.07	2.96	-100.60	303.27	-170.46	364.58	358.79	5.79	62.988	
1,000.00	995.62	901.23	890.00	3.50	3.43	-100.55	327.82	-171.96	392.48	385.92	6.56	59.844	
1,100.00	1,093.06	995.78	980.31	3.96	3.96	-100.86	355.72	-173.95	422.23	414.82	7.41	56.961	
1,200.00	1,189.64	1,089.64	1,070.05	4.46	4.50	-101.48	383.19	-175.83	452.51	444.19	8.32	54.357	
1,300.00	1,285.27	1,178.23	1,154.35	5.00	5.02	-102.16	410.35	-177.68	484.80	475.55	9.25	52.419	
1,400.00	1,379.82	1,272.44	1,243.97	5.60	5.58	-103.13	439.34	-179.88	518.34	508.07	10.27	50.474	
1,500.00	1,473.17	1,364.15	1,331.22	6.25	6.13	-104.21	467.49	-181.94	552.96	541.63	11.33	48.812	
1,600.00	1,565.21	1,451.73	1,414.30	6.95	6.67	-105.23	495.11	-183.73	589.36	576.95	12.41	47.476	
1,700.00	1,655.84	1,538.69	1,496.50	7.72	7.22	-106.23	523.49	-185.21	627.72	614.16	13.56	46.308	
1,800.00	1,744.94	1,622.98	1,575.93	8.55	7.76	-107.18	551.64	-186.81	668.19	653.46	14.73	45.363	
1,900.00	1,832.39	1,708.87	1,658.82	9.45	8.31	-108.23	580.44	-188.88	710.71	694.74	15.97	44.503	
2,000.00	1,918.11	1,794.62	1,737.68	10.41	8.86	-109.34	608.85	-191.44	755.13	737.88	17.25	43.769	
2,100.00	2,001.97	1,878.92	1,817.36	11.45	9.40	-110.48	636.22	-194.46	801.48	782.93	18.56	43.188	
2,200.00	2,083.88	1,965.64	1,899.59	12.56	9.94	-111.72	663.56	-198.00	849.74	829.82	19.92	42.666	
2,300.00	2,163.74	2,046.70	1,976.78	13.74	10.43	-112.87	688.01	-201.70	899.84	878.61	21.24	42.372	
2,400.00	2,241.45	2,130.43	2,056.69	14.99	10.94	-114.08	712.66	-205.89	952.25	929.65	22.60	42.131	
2,421.22	2,257.65	2,149.64	2,075.04	15.26	11.06	-114.37	718.24	-206.77	963.57	940.66	22.91	42.060	
2,500.00	2,317.63	2,221.13	2,143.46	16.29	11.48	-116.29	738.79	-209.62	1,005.75	981.71	24.04	41.831	
2,600.00	2,393.75	2,310.14	2,228.83	17.62	12.00	-118.46	763.83	-212.37	1,059.34	1,033.89	25.44	41.633	
2,700.00	2,469.88	2,398.50	2,313.79	18.95	12.51	-120.44	788.02	-214.63	1,113.17	1,086.36	26.81	41.514	
2,800.00	2,546.01	2,486.97	2,399.06	20.30	13.01	-122.27	811.52	-216.21	1,166.95	1,138.79	28.16	41.438 SF	
2,900.00	2,622.13	2,565.83	2,475.10	21.65	13.45	-123.76	832.39	-217.45	1,221.24	1,191.85	29.39	41.550	
3,000.00	2,698.26	2,646.80	2,553.18	23.01	13.91	-125.17	853.78	-218.68	1,276.08	1,245.45	30.63	41.664	
3,100.00	2,774.38	2,726.38	2,630.00	24.37	14.35	-126.47	874.51	-219.93	1,331.40	1,299.57	31.83	41.829	
3,200.00	2,850.51	2,835.63	2,735.54	25.74	14.95	-128.09	902.73	-220.63	1,386.47	1,353.15	33.32	41.606	
3,300.00	2,926.64	2,912.01	2,809.29	27.11	15.38	-129.12	922.63	-220.21	1,441.08	1,406.60	34.48	41.796	
3,400.00	3,002.76	2,984.12	2,878.93	28.49	15.78	-130.03	941.32	-220.12	1,496.34	1,460.77	35.57	42.065	
3,500.00	3,078.89	3,061.23	2,953.42	29.87	16.21	-130.96	961.23	-220.48	1,552.35	1,515.64	36.71	42.289	
3,600.00	3,155.02	3,139.65	3,028.87	31.25	16.65	-131.79	982.62	-220.42	1,608.56	1,570.69	37.87	42.477	
3,700.00	3,231.14	3,206.86	3,093.18	32.63	17.05	-132.41	1,002.14	-220.43	1,665.47	1,626.55	38.92	42.794	
3,800.00	3,307.27	3,319.91	3,201.17	34.01	17.73	-133.34	1,035.60	-219.65	1,722.13	1,681.62	40.51	42.510	
3,900.00	3,383.39	3,385.25	3,263.59	35.40	18.12	-133.85	1,054.86	-219.04	1,778.68	1,737.14	41.54	42.816	
4,000.00	3,459.52	3,494.60	3,367.90	36.79	18.77	-134.62	1,087.65	-217.36	1,835.07	1,791.98	43.10	42.582	
4,100.00	3,535.65	3,578.53	3,447.99	38.18	19.28	-135.16	1,112.67	-215.31	1,890.79	1,846.45	44.35	42.637	
4,200.00	3,611.77	3,625.23	3,492.63	39.57	19.56	-135.47	1,126.35	-214.56	1,947.23	1,902.09	45.14	43.133	
4,300.00	3,687.90	3,677.00	3,542.07	40.96	19.87	-135.79	1,141.70	-214.82	2,005.36	1,959.37	45.98	43.610	
4,400.00	3,764.02	3,744.54	3,606.72	42.35	20.26	-136.22	1,161.22	-215.96	2,064.46	2,017.47	46.99	43.932	
4,500.00	3,840.15	3,826.11	3,685.20	43.74	20.73	-136.77	1,183.39	-217.48	2,123.56	2,075.42	48.14	44.109	
4,600.00	3,916.28	3,916.57	3,772.32	45.13	21.25	-137.34	1,207.70	-219.03	2,182.64	2,133.24	49.39	44.191	
4,700.00	3,992.40	4,005.02	3,857.34	46.53	21.76	-137.85	1,232.08	-219.84	2,241.26	2,190.64	50.62	44.272	
4,800.00	4,068.53	4,098.85	3,947.60	47.92	22.29	-138.36	1,257.68	-220.52	2,299.83	2,247.92	51.92	44.300	
4,900.00	4,144.66	4,196.49	4,041.76	49.32	22.85	-138.89	1,283.56	-220.37	2,357.64	2,304.40	53.24	44.284	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	4,281.42	4,123.30	50.71	23.33	-139.28	1,307.27	-219.78	2,415.32	2,360.89	54.43	44.372		
5,100.00	4,296.91	4,357.67	4,196.48	52.11	23.78	-139.61	1,328.68	-219.11	2,472.95	2,417.42	55.53	44.533		
5,200.00	4,373.03	4,416.32	4,252.79	53.51	24.12	-139.86	1,345.08	-219.00	2,531.16	2,474.76	56.41	44.873		
5,300.00	4,449.16	4,469.98	4,304.34	54.90	24.43	-140.09	1,359.97	-219.42	2,590.19	2,532.97	57.21	45.275		
5,400.00	4,525.29	4,522.00	4,354.39	56.30	24.73	-140.32	1,374.12	-220.42	2,650.10	2,592.12	57.98	45.707		
5,500.00	4,601.41	4,679.92	4,506.02	57.70	25.64	-140.92	1,418.22	-221.57	2,709.11	2,649.03	60.07	45.097		
5,600.00	4,677.54	4,765.43	4,587.74	59.10	26.15	-141.19	1,443.34	-220.64	2,766.98	2,705.68	61.30	45.139		
5,700.00	4,753.66	4,844.11	4,662.95	60.49	26.62	-141.43	1,466.46	-219.94	2,825.04	2,762.60	62.44	45.246		
5,800.00	4,829.79	4,922.33	4,738.12	61.89	27.07	-141.69	1,488.06	-219.39	2,883.10	2,819.56	63.54	45.374		
5,900.00	4,905.92	4,989.00	4,802.43	63.29	27.45	-141.93	1,505.64	-219.26	2,941.48	2,877.00	64.48	45.618		
6,000.00	4,982.04	5,050.52	4,861.93	64.69	27.78	-142.16	1,521.28	-219.54	3,000.35	2,935.02	65.34	45.921		
6,100.00	5,058.17	5,113.66	4,923.13	66.09	28.12	-142.40	1,536.81	-220.29	3,059.76	2,993.56	66.20	46.221		
6,200.00	5,134.30	5,180.07	4,987.54	67.49	28.48	-142.65	1,552.91	-221.41	3,119.59	3,052.50	67.09	46.501		
6,300.00	5,210.42	5,259.55	5,064.96	68.89	28.88	-142.97	1,570.82	-223.05	3,179.61	3,111.52	68.09	46.697		
6,400.00	5,286.55	5,354.54	5,158.13	70.29	29.33	-143.41	1,589.16	-225.10	3,239.53	3,170.34	69.19	46.818		
6,500.00	5,362.67	5,446.63	5,249.02	71.69	29.72	-143.88	1,603.83	-226.92	3,299.14	3,228.96	70.18	47.006		
6,600.00	5,438.80	5,528.08	5,329.78	73.09	30.04	-144.33	1,614.32	-228.53	3,358.65	3,287.64	71.01	47.299		
6,700.00	5,514.93	5,606.89	5,408.15	74.49	30.32	-144.80	1,622.45	-230.21	3,418.25	3,346.49	71.76	47.635		
6,800.00	5,591.05	5,678.89	5,479.86	75.89	30.56	-145.23	1,628.70	-231.84	3,478.01	3,405.59	72.42	48.026		
6,900.00	5,667.18	5,751.11	5,551.90	77.29	30.78	-145.69	1,633.20	-233.78	3,538.12	3,465.08	73.04	48.442		
7,000.00	5,743.30	5,929.23	5,729.90	78.69	31.25	-146.87	1,638.95	-236.54	3,597.58	3,523.33	74.26	48.448		
7,100.00	5,819.43	5,997.13	5,797.79	80.09	31.42	-147.31	1,640.25	-236.69	3,656.01	3,581.24	74.78	48.893		
7,200.00	5,895.56	6,059.05	5,859.70	81.49	31.57	-147.71	1,641.23	-236.97	3,714.82	3,639.57	75.25	49.367		
7,300.00	5,971.68	6,117.55	5,918.20	82.90	31.71	-148.09	1,641.43	-237.54	3,774.18	3,698.50	75.68	49.867		
7,400.00	6,047.81	6,189.26	5,989.90	84.30	31.87	-148.54	1,641.50	-238.44	3,833.95	3,757.76	76.18	50.325		
7,500.00	6,123.94	6,277.09	6,077.72	85.70	32.08	-149.08	1,641.94	-239.47	3,893.85	3,817.07	76.78	50.712		
7,600.00	6,200.06	6,346.95	6,147.58	87.10	32.24	-149.50	1,642.37	-240.14	3,953.78	3,876.49	77.28	51.159		
7,700.00	6,276.19	6,418.92	6,219.54	88.50	32.42	-149.91	1,642.93	-241.05	4,014.08	3,936.28	77.80	51.595		
7,800.00	6,352.31	6,509.71	6,310.32	89.90	32.64	-150.42	1,643.84	-241.92	4,074.33	3,995.90	78.43	51.947		
7,900.00	6,428.44	6,586.42	6,387.03	91.31	32.83	-150.84	1,644.15	-242.58	4,134.65	4,055.68	78.97	52.356		
8,000.00	6,504.57	6,700.79	6,501.40	92.71	33.11	-151.45	1,644.44	-242.88	4,194.64	4,114.91	79.73	52.611		
8,100.00	6,580.69	6,778.55	6,579.15	94.11	33.30	-151.84	1,645.18	-242.75	4,254.48	4,174.19	80.29	52.988		
8,200.00	6,656.82	6,835.38	6,635.97	95.51	33.45	-152.12	1,646.01	-242.81	4,314.64	4,233.90	80.74	53.441		
8,300.00	6,732.95	6,897.51	6,698.10	96.91	33.62	-152.41	1,647.15	-243.15	4,375.24	4,294.03	81.22	53.870		
8,400.00	6,809.07	6,968.84	6,769.41	98.32	33.81	-152.74	1,648.60	-243.71	4,436.14	4,354.38	81.76	54.256		
8,500.00	6,885.20	7,064.50	6,865.04	99.72	34.07	-153.16	1,650.80	-244.22	4,496.95	4,414.48	82.47	54.526		
8,600.00	6,961.32	7,138.24	6,938.76	101.12	34.28	-153.48	1,652.36	-244.50	4,557.76	4,474.72	83.04	54.887		
8,700.00	7,037.45	7,209.81	7,010.32	102.52	34.47	-153.78	1,653.69	-244.82	4,618.73	4,535.14	83.59	55.256		
8,732.15	7,061.92	7,232.75	7,033.26	102.97	34.53	-153.88	1,654.12	-244.94	4,638.37	4,554.61	83.76	55.374		
8,750.00	7,075.57	7,248.71	7,049.21	103.22	34.58	-157.33	1,654.42	-245.03	4,649.31	4,565.42	83.88	55.426		
8,800.00	7,114.27	7,295.98	7,096.47	103.91	34.71	-167.31	1,655.53	-245.23	4,680.13	4,595.89	84.24	55.560		
8,850.00	7,153.47	7,378.07	7,178.52	104.58	34.95	-177.53	1,658.22	-245.26	4,710.98	4,626.16	84.83	55.535		
8,900.00	7,192.85	7,451.33	7,251.71	105.21	35.16	172.35	1,661.16	-244.54	4,741.22	4,655.87	85.35	55.549		
8,950.00	7,232.12	7,491.73	7,292.10	105.80	35.27	162.43	1,661.82	-244.00	4,771.10	4,685.48	85.63	55.720		
9,000.00	7,270.99	7,515.00	7,315.37	106.35	35.34	152.89	1,661.77	-243.67	4,800.47	4,714.69	85.78	55.963		
9,050.00	7,309.16	7,550.56	7,350.93	106.85	35.42	144.01	1,661.27	-243.21	4,829.16	4,743.18	85.98	56.169		
9,100.00	7,346.32	7,574.88	7,375.24	107.30	35.47	135.83	1,660.73	-242.96	4,857.06	4,770.95	86.10	56.410		
9,150.00	7,382.22	7,609.00	7,409.34	107.69	35.55	128.51	1,659.71	-242.73	4,883.97	4,797.69	86.28	56.608		
9,200.00	7,416.56	9,200.00	7,469.02	108.02	39.05	122.22	1,657.80	-241.93	4,909.35	4,819.40	89.95	54.578		
9,250.00	7,449.09	7,733.70	7,533.96	108.29	35.82	116.81	1,655.81	-240.84	4,933.28	4,846.36	86.92	56.755		
9,300.00	7,479.56	7,757.87	7,558.12	108.51	35.88	111.81	1,655.14	-240.38	4,955.64	4,868.59	87.06	56.924		
9,350.00	7,507.74	7,780.23	7,580.47	108.68	35.93	107.47	1,654.55	-240.00	4,976.45	4,889.25	87.20	57.073		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,803.51	7,603.73	108.79	35.98	103.77	1,653.95	-239.63	4,995.58	4,908.23	87.35	57.189		
9,450.00	7,556.39	7,836.43	7,636.65	108.86	36.06	100.74	1,653.10	-239.08	5,012.90	4,925.32	87.58	57.237		
9,500.00	7,576.48	7,865.68	7,665.88	108.88	36.12	98.22	1,652.30	-238.54	5,028.33	4,940.52	87.81	57.262		
9,550.00	7,593.55	8,153.51	7,953.06	108.86	36.75	98.99	1,639.68	-225.55	5,041.42	4,952.15	89.27	56.475		
9,600.00	7,607.46	8,183.58	7,983.00	108.80	36.81	97.46	1,637.82	-223.36	5,052.03	4,962.50	89.53	56.427		
9,650.00	7,618.11	9,650.00	7,972.02	108.71	39.85	95.90	1,638.52	-224.18	5,060.84	4,968.09	92.75	54.562		
9,700.00	7,625.41	8,171.00	7,970.48	108.59	36.78	94.83	1,638.61	-224.28	5,067.79	4,977.94	89.85	56.404		
9,750.00	7,629.30	8,171.00	7,970.48	108.45	36.78	94.17	1,638.61	-224.28	5,072.84	4,982.76	90.07	56.319		
9,781.81	7,630.00	8,171.00	7,970.48	108.35	36.78	93.94	1,638.61	-224.28	5,075.04	4,984.81	90.23	56.244		
9,800.00	7,630.00	8,171.00	7,970.48	108.29	36.78	93.94	1,638.61	-224.28	5,076.11	4,985.78	90.33	56.196		
9,900.00	7,630.00	8,171.00	7,970.48	107.97	36.78	93.94	1,638.61	-224.28	5,083.15	4,992.29	90.86	55.944		
10,000.00	7,630.00	8,171.00	7,970.48	107.67	36.78	93.94	1,638.61	-224.28	5,092.14	5,000.73	91.41	55.709		
10,100.00	7,630.00	8,171.00	7,970.48	107.38	36.78	93.94	1,638.61	-224.28	5,103.07	5,011.11	91.96	55.491		
10,200.00	7,630.00	8,171.00	7,970.48	107.10	36.78	93.94	1,638.61	-224.28	5,115.94	5,023.41	92.53	55.291		
10,300.00	7,630.00	8,171.00	7,970.48	106.84	36.78	93.94	1,638.61	-224.28	5,130.72	5,037.62	93.10	55.110		
10,400.00	7,630.00	8,171.00	7,970.48	106.59	36.78	93.94	1,638.61	-224.28	5,147.41	5,053.73	93.68	54.949		
10,500.00	7,630.00	8,171.00	7,970.48	106.35	36.78	93.94	1,638.61	-224.28	5,165.98	5,071.72	94.26	54.807		
10,600.00	7,630.00	8,171.00	7,970.48	106.13	36.78	93.94	1,638.61	-224.28	5,186.41	5,091.57	94.84	54.687		
10,700.00	7,630.00	8,171.00	7,970.48	105.92	36.78	93.94	1,638.61	-224.28	5,208.67	5,113.25	95.42	54.587		
10,800.00	7,630.00	8,171.00	7,970.48	105.72	36.78	93.94	1,638.61	-224.28	5,232.76	5,136.76	96.00	54.508		
10,900.00	7,630.00	8,171.00	7,970.48	105.54	36.78	93.94	1,638.61	-224.28	5,258.64	5,162.06	96.58	54.451		
11,000.00	7,630.00	8,171.00	7,970.48	105.37	36.78	93.94	1,638.61	-224.28	5,286.28	5,189.13	97.15	54.415		
11,100.00	7,630.00	8,171.00	7,970.48	105.21	36.78	93.94	1,638.61	-224.28	5,315.66	5,217.95	97.71	54.401		
11,200.00	7,630.00	8,171.00	7,970.48	105.06	36.78	93.94	1,638.61	-224.28	5,346.75	5,248.48	98.27	54.407		
11,300.00	7,630.00	8,171.00	7,970.48	104.93	36.78	93.94	1,638.61	-224.28	5,379.52	5,280.69	98.82	54.436		
11,400.00	7,630.00	8,171.00	7,970.48	104.82	36.78	93.94	1,638.61	-224.28	5,413.94	5,314.57	99.37	54.485		
11,500.00	7,630.00	8,171.00	7,970.48	104.72	36.78	93.94	1,638.61	-224.28	5,449.97	5,350.07	99.90	54.555		
11,600.00	7,630.00	8,205.60	8,004.95	104.63	36.86	94.33	1,636.77	-222.03	5,487.11	5,386.54	100.57	54.561		
11,700.00	7,630.00	8,206.58	8,005.93	104.55	36.86	94.35	1,636.73	-221.98	5,526.25	5,425.17	101.08	54.670		
11,800.00	7,630.00	8,207.54	8,006.89	104.50	36.87	94.36	1,636.68	-221.92	5,566.92	5,465.33	101.59	54.799		
11,900.00	7,630.00	8,208.48	8,007.83	104.45	36.87	94.37	1,636.64	-221.87	5,609.07	5,506.99	102.08	54.948		
12,000.00	7,630.00	8,209.40	8,008.74	104.43	36.87	94.38	1,636.60	-221.82	5,652.68	5,550.12	102.56	55.116		
12,100.00	7,630.00	8,210.29	8,009.64	104.42	36.87	94.39	1,636.57	-221.77	5,697.71	5,594.68	103.03	55.304		
12,200.00	7,630.00	8,211.17	8,010.52	104.42	36.87	94.40	1,636.53	-221.72	5,744.12	5,640.64	103.48	55.509		
12,300.00	7,630.00	8,212.04	8,011.38	104.45	36.88	94.41	1,636.49	-221.67	5,791.89	5,687.97	103.92	55.733		
12,400.00	7,630.00	8,212.88	8,012.22	104.49	36.88	94.42	1,636.46	-221.63	5,840.98	5,736.63	104.35	55.975		
12,500.00	7,630.00	8,213.71	8,013.04	104.55	36.88	94.43	1,636.43	-221.58	5,891.36	5,786.59	104.77	56.233		
12,600.00	7,630.00	8,214.52	8,013.85	104.63	36.88	94.44	1,636.39	-221.54	5,942.99	5,837.82	105.17	56.509		
12,700.00	7,630.00	8,215.31	8,014.64	104.73	36.88	94.44	1,636.36	-221.50	5,995.85	5,890.29	105.56	56.800		
12,800.00	7,630.00	8,216.09	8,015.42	104.85	36.89	94.45	1,636.33	-221.46	6,049.90	5,943.96	105.94	57.108		
12,900.00	7,630.00	8,216.85	8,016.18	104.99	36.89	94.46	1,636.30	-221.42	6,105.10	5,998.80	106.30	57.431		
13,000.00	7,630.00	8,217.60	8,016.92	105.15	36.89	94.47	1,636.27	-221.38	6,161.44	6,054.78	106.66	57.769		
13,100.00	7,630.00	8,218.33	8,017.66	105.34	36.89	94.48	1,636.24	-221.34	6,218.87	6,111.87	107.00	58.121		
13,200.00	7,630.00	8,219.05	8,018.37	105.56	36.89	94.49	1,636.22	-221.31	6,277.37	6,170.04	107.33	58.488		
13,300.00	7,630.00	8,219.75	8,019.08	105.80	36.89	94.49	1,636.19	-221.27	6,336.90	6,229.26	107.65	58.868		
13,400.00	7,630.00	8,220.45	8,019.77	106.06	36.90	94.50	1,636.17	-221.24	6,397.45	6,289.50	107.95	59.262		
13,500.00	7,630.00	8,221.12	8,020.45	106.36	36.90	94.51	1,636.14	-221.20	6,458.97	6,350.73	108.25	59.668		
13,600.00	7,630.00	8,221.79	8,021.11	106.68	36.90	94.52	1,636.12	-221.17	6,521.45	6,412.92	108.53	60.087		
13,700.00	7,630.00	8,222.45	8,021.76	107.03	36.90	94.52	1,636.09	-221.14	6,584.86	6,476.05	108.81	60.518		
13,800.00	7,630.00	8,223.09	8,022.41	107.42	36.90	94.53	1,636.07	-221.11	6,649.16	6,540.09	109.07	60.960		
13,900.00	7,630.00	8,223.72	8,023.04	107.83	36.90	94.54	1,636.05	-221.07	6,714.34	6,605.01	109.33	61.414		
14,000.00	7,630.00	8,224.34	8,023.65	108.28	36.90	94.55	1,636.03	-221.04	6,780.36	6,670.79	109.57	61.879		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,630.00	8,224.95	8,024.26	108.77	36.91	94.55	1,636.00	-221.02	6,847.21	6,737.40	109.81	62.354		
14,200.00	7,630.00	8,225.55	8,024.86	109.29	36.91	94.56	1,635.98	-220.99	6,914.85	6,804.82	110.04	62.840		
14,300.00	7,630.00	8,226.13	8,025.45	109.84	36.91	94.57	1,635.96	-220.96	6,983.28	6,873.02	110.26	63.336		
14,400.00	7,630.00	8,226.71	8,026.02	110.43	36.91	94.57	1,635.94	-220.93	7,052.46	6,941.99	110.47	63.841		
14,500.00	7,630.00	8,264.00	8,063.27	111.06	36.99	94.99	1,635.04	-219.50	7,122.93	7,012.12	110.80	64.286		
14,600.00	7,630.00	8,264.00	8,063.27	111.72	36.99	94.99	1,635.04	-219.50	7,193.53	7,082.53	110.99	64.810		
14,700.00	7,630.00	8,264.00	8,063.27	112.42	36.99	94.99	1,635.04	-219.50	7,264.82	7,153.64	111.18	65.343		
14,800.00	7,630.00	8,264.00	8,063.27	113.16	36.99	94.99	1,635.04	-219.50	7,336.78	7,225.43	111.36	65.885		
14,900.00	7,630.00	8,264.00	8,063.27	113.94	36.99	94.99	1,635.04	-219.50	7,409.40	7,297.87	111.53	66.434		
15,000.00	7,630.00	8,264.00	8,063.27	114.75	36.99	94.99	1,635.04	-219.50	7,482.64	7,370.95	111.70	66.991		
15,100.00	7,630.00	8,264.00	8,063.27	115.60	36.99	94.99	1,635.04	-219.50	7,556.50	7,444.65	111.85	67.556		
15,200.00	7,630.00	8,264.00	8,063.27	116.48	36.99	94.99	1,635.04	-219.50	7,630.96	7,518.95	112.01	68.129		
15,300.00	7,630.00	8,264.00	8,063.27	117.40	36.99	94.99	1,635.04	-219.50	7,705.99	7,593.83	112.16	68.708		
15,400.00	7,630.00	8,264.00	8,063.27	118.35	36.99	94.99	1,635.04	-219.50	7,781.58	7,669.29	112.30	69.294		
15,500.00	7,630.00	8,264.00	8,063.27	119.34	36.99	94.99	1,635.04	-219.50	7,857.72	7,745.29	112.44	69.887		
15,600.00	7,630.00	8,264.00	8,063.27	120.35	36.99	94.99	1,635.04	-219.50	7,934.39	7,821.83	112.57	70.486		
15,700.00	7,630.00	8,264.00	8,063.27	121.40	36.99	94.99	1,635.04	-219.50	8,011.58	7,898.88	112.69	71.091		
15,800.00	7,630.00	8,264.00	8,063.27	122.48	36.99	94.99	1,635.04	-219.50	8,089.26	7,976.45	112.82	71.703		
15,900.00	7,630.00	8,264.00	8,063.27	123.58	36.99	94.99	1,635.04	-219.50	8,167.43	8,054.50	112.93	72.320		
16,000.00	7,630.00	8,264.00	8,063.27	124.71	36.99	94.99	1,635.04	-219.50	8,246.07	8,133.02	113.05	72.943		
16,100.00	7,630.00	8,264.00	8,063.27	125.87	36.99	94.99	1,635.04	-219.50	8,325.17	8,212.01	113.16	73.571		
16,200.00	7,630.00	8,264.00	8,063.27	127.05	36.99	94.99	1,635.04	-219.50	8,404.72	8,291.45	113.26	74.204		
16,300.00	7,630.00	8,264.00	8,063.27	128.26	36.99	94.99	1,635.04	-219.50	8,484.70	8,371.33	113.37	74.843		
16,400.00	7,630.00	8,264.00	8,063.27	129.48	36.99	94.99	1,635.04	-219.50	8,565.09	8,451.63	113.47	75.486		
16,500.00	7,630.00	8,264.00	8,063.27	130.73	36.99	94.99	1,635.04	-219.50	8,645.90	8,532.34	113.56	76.134		
16,600.00	7,630.00	8,264.00	8,063.27	132.00	36.99	94.99	1,635.04	-219.50	8,727.11	8,613.45	113.65	76.787		
16,700.00	7,630.00	8,264.00	8,063.27	133.29	36.99	94.99	1,635.04	-219.50	8,808.70	8,694.96	113.74	77.444		
16,800.00	7,630.00	8,264.00	8,063.27	134.59	36.99	94.99	1,635.04	-219.50	8,890.67	8,776.84	113.83	78.106		
16,900.00	7,630.00	8,264.00	8,063.27	135.91	36.99	94.99	1,635.04	-219.50	8,973.00	8,859.09	113.91	78.771		
17,000.00	7,630.00	8,264.00	8,063.27	137.25	36.99	94.99	1,635.04	-219.50	9,055.69	8,941.70	113.99	79.441		
17,100.00	7,630.00	8,264.00	8,063.27	138.61	36.99	94.99	1,635.04	-219.50	9,138.72	9,024.65	114.07	80.114		
17,200.00	7,630.00	8,264.00	8,063.27	139.97	36.99	94.99	1,635.04	-219.50	9,222.10	9,107.95	114.15	80.792		
17,300.00	7,630.00	8,264.00	8,063.27	141.36	36.99	94.99	1,635.04	-219.50	9,305.80	9,191.58	114.22	81.473		
17,400.00	7,630.00	8,264.00	8,063.27	142.75	36.99	94.99	1,635.04	-219.50	9,389.81	9,275.52	114.29	82.157		
17,500.00	7,630.00	8,264.00	8,063.27	144.16	36.99	94.99	1,635.04	-219.50	9,474.14	9,359.78	114.36	82.845		
17,600.00	7,630.00	8,264.00	8,063.27	145.58	36.99	94.99	1,635.04	-219.50	9,558.77	9,444.35	114.43	83.536		
17,700.00	7,630.00	8,264.00	8,063.27	147.01	36.99	94.99	1,635.04	-219.50	9,643.70	9,529.21	114.49	84.230		
17,800.00	7,630.00	8,264.00	8,063.27	148.45	36.99	94.99	1,635.04	-219.50	9,728.91	9,614.36	114.56	84.927		
17,900.00	7,630.00	8,264.00	8,063.27	149.91	36.99	94.99	1,635.04	-219.50	9,814.40	9,699.78	114.62	85.628		
18,000.00	7,630.00	8,264.00	8,063.27	151.37	36.99	94.99	1,635.04	-219.50	9,900.16	9,785.49	114.68	86.331		
18,100.00	7,630.00	8,264.00	8,063.27	152.84	36.99	94.99	1,635.04	-219.50	9,986.19	9,871.46	114.74	87.037		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-31.69	218.57	-134.96	257.01				
100.00	100.00	91.39	91.39	0.13	0.14	-31.73	218.57	-135.16	256.99	256.71	0.28	922.677	
200.00	200.00	192.00	192.00	0.49	0.47	-31.85	218.42	-135.71	257.15	256.18	0.97	266.320	
300.00	300.00	294.91	294.90	0.85	0.84	-32.08	217.47	-136.29	256.66	254.97	1.69	151.810	
400.00	400.00	404.23	404.14	1.21	1.23	-32.60	213.42	-136.48	253.62	251.18	2.44	103.832	
500.00	499.98	511.39	510.98	1.56	1.63	-100.98	205.18	-136.93	247.73	244.54	3.19	77.762	
600.00	599.84	619.22	618.04	1.92	2.05	-104.33	192.48	-137.65	239.65	235.71	3.94	60.838	
700.00	699.45	728.27	725.67	2.29	2.50	-109.34	175.03	-136.83	229.23	224.52	4.72	48.589	
800.00	798.70	831.76	826.81	2.67	2.98	-116.28	153.19	-135.47	217.86	212.34	5.52	39.465	
900.00	897.47	928.46	920.59	3.07	3.47	-124.74	129.61	-134.36	209.76	203.38	6.38	32.884	
961.11	957.53	985.76	975.86	3.33	3.76	-130.54	114.51	-134.10	208.16	201.22	6.93	30.019 CC, ES	
1,000.00	995.62	1,021.69	1,010.46	3.50	3.96	-134.34	104.86	-134.02	208.86	201.57	7.29	28.639	
1,100.00	1,093.06	1,113.30	1,098.53	3.96	4.46	-144.18	79.65	-133.95	217.48	209.25	8.23	26.420	
1,200.00	1,189.64	1,202.69	1,184.09	4.46	4.97	-153.51	53.73	-134.09	236.26	227.12	9.14	25.844 SF	
1,300.00	1,285.27	1,292.44	1,269.83	5.00	5.50	-161.86	27.20	-134.17	264.58	254.57	10.01	26.428	
1,400.00	1,379.82	1,381.29	1,354.57	5.60	6.03	-168.92	0.53	-133.18	300.14	289.29	10.85	27.670	
1,500.00	1,473.17	1,466.46	1,435.47	6.25	6.55	-174.71	-26.04	-131.75	342.37	330.73	11.64	29.409	
1,600.00	1,565.21	1,550.11	1,515.01	6.95	7.07	-179.35	-51.90	-130.30	390.19	377.76	12.43	31.392	
1,700.00	1,655.84	1,631.22	1,591.99	7.72	7.58	-176.87	-77.43	-128.80	442.85	429.65	13.21	33.534	
1,800.00	1,744.94	1,716.78	1,673.31	8.55	8.11	-173.61	-103.97	-126.85	499.10	485.05	14.04	35.538	
1,900.00	1,832.39	1,799.32	1,751.98	9.45	8.62	-171.06	-128.83	-124.53	558.16	543.29	14.87	37.531	
2,000.00	1,918.11	1,878.74	1,827.75	10.41	9.11	-168.97	-152.48	-121.93	619.98	604.29	15.69	39.504	
2,100.00	2,001.97	1,963.53	1,908.78	11.45	9.62	-167.12	-177.25	-118.75	684.20	667.61	16.59	41.251	
2,200.00	2,083.88	2,044.85	1,986.94	12.56	10.10	-165.70	-199.47	-115.40	750.08	732.62	17.46	42.963	
2,300.00	2,163.74	2,117.16	2,056.65	13.74	10.52	-164.60	-218.46	-112.55	818.21	799.95	18.26	44.814	
2,400.00	2,241.45	2,181.67	2,118.87	14.99	10.89	-163.67	-235.35	-110.48	889.18	870.18	18.99	46.814	
2,421.22	2,257.65	2,196.30	2,132.98	15.26	10.97	-163.47	-239.17	-110.07	904.59	885.42	19.16	47.204	
2,500.00	2,317.63	2,250.44	2,185.30	16.29	11.28	-163.29	-253.05	-108.75	961.99	942.22	19.77	48.649	
2,600.00	2,393.75	2,310.19	2,243.12	17.62	11.62	-163.15	-268.05	-107.71	1,035.04	1,014.58	20.46	50.587	
2,700.00	2,469.88	2,364.28	2,295.43	18.95	11.92	-163.05	-281.84	-107.42	1,108.90	1,087.81	21.09	52.578	
2,800.00	2,546.01	2,418.41	2,347.75	20.30	12.23	-162.99	-295.71	-107.85	1,183.54	1,161.82	21.72	54.500	
2,900.00	2,622.13	2,473.70	2,401.20	21.65	12.54	-162.97	-309.78	-109.08	1,258.87	1,236.52	22.35	56.319	
3,000.00	2,698.26	2,536.95	2,462.43	23.01	12.88	-163.00	-325.49	-111.10	1,334.49	1,311.42	23.07	57.854	
3,100.00	2,774.38	2,620.65	2,543.52	24.37	13.35	-163.03	-346.11	-113.48	1,409.87	1,385.86	24.00	58.734	
3,200.00	2,850.51	2,702.15	2,622.30	25.74	13.81	-162.94	-367.01	-113.77	1,484.27	1,459.33	24.94	59.510	
3,300.00	2,926.64	2,768.94	2,686.71	27.11	14.20	-162.83	-384.64	-113.16	1,558.29	1,532.56	25.74	60.543	
3,400.00	3,002.76	2,824.23	2,739.84	28.49	14.52	-162.71	-399.94	-112.50	1,632.69	1,606.27	26.42	61.795	
3,500.00	3,078.89	2,932.33	2,843.54	29.87	15.17	-162.44	-430.33	-109.93	1,706.71	1,679.00	27.71	61.591	
3,600.00	3,155.02	2,990.88	2,899.74	31.25	15.52	-162.30	-446.61	-107.93	1,779.95	1,751.50	28.45	62.560	
3,700.00	3,231.14	3,049.25	2,955.72	32.63	15.87	-162.17	-463.04	-106.07	1,853.49	1,824.29	29.20	63.485	
3,800.00	3,307.27	3,104.60	3,008.66	34.01	16.21	-162.03	-479.13	-104.34	1,927.44	1,897.52	29.91	64.441	
3,900.00	3,383.39	3,153.02	3,054.86	35.40	16.51	-161.91	-493.54	-103.01	2,001.89	1,971.35	30.55	65.539	
4,000.00	3,459.52	3,199.19	3,098.92	36.79	16.79	-161.81	-507.32	-102.29	2,077.00	2,045.85	31.15	66.674	
4,100.00	3,535.65	3,280.63	3,176.78	38.18	17.29	-161.68	-531.20	-101.58	2,152.30	2,120.13	32.17	66.904	
4,200.00	3,611.77	3,376.38	3,268.65	39.57	17.87	-161.57	-558.14	-100.26	2,226.82	2,193.47	33.35	66.772	
4,300.00	3,687.90	3,450.93	3,340.19	40.96	18.32	-161.47	-579.02	-98.43	2,300.70	2,266.41	34.29	67.097	
4,400.00	3,764.02	3,507.69	3,394.55	42.35	18.66	-161.38	-595.29	-96.74	2,374.61	2,339.58	35.03	67.790	
4,500.00	3,840.15	3,548.42	3,433.45	43.74	18.91	-161.32	-607.32	-95.73	2,449.13	2,413.55	35.58	68.832	
4,600.00	3,916.28	3,584.00	3,467.35	45.13	19.14	-161.26	-618.11	-95.07	2,524.36	2,488.29	36.07	69.987	
4,700.00	3,992.40	3,628.14	3,509.35	46.53	19.41	-161.19	-631.64	-94.70	2,600.24	2,563.58	36.66	70.936	
4,800.00	4,068.53	3,677.00	3,555.88	47.92	19.72	-161.14	-646.58	-95.02	2,676.79	2,639.49	37.30	71.765	
4,900.00	4,144.66	3,723.38	3,600.06	49.32	20.01	-161.10	-660.66	-95.76	2,753.73	2,715.83	37.90	72.653	

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,220.78	3,790.13	3,663.74	50.71	20.43	161.06	-680.65	-97.07	2,830.74	2,791.99	38.75	73.044		
5,100.00	4,296.91	3,872.20	3,742.13	52.11	20.93	161.02	-704.89	-98.51	2,907.49	2,867.70	39.79	73.074		
5,200.00	4,373.03	3,961.05	3,827.08	53.51	21.48	160.97	-730.91	-99.44	2,983.77	2,942.87	40.91	72.942		
5,300.00	4,449.16	4,098.57	3,958.93	54.90	22.30	160.91	-769.95	-99.27	3,059.15	3,016.55	42.60	71.818		
5,400.00	4,525.29	4,187.00	4,044.23	56.30	22.82	160.90	-793.24	-98.40	3,133.06	3,089.38	43.68	71.722		
5,500.00	4,601.41	4,242.00	4,097.36	57.70	23.13	160.90	-807.50	-98.22	3,207.22	3,162.84	44.38	72.265		
5,600.00	4,677.54	4,273.66	4,127.92	59.10	23.32	160.91	-815.78	-98.35	3,281.85	3,237.04	44.81	73.240		
5,700.00	4,753.66	4,307.23	4,160.26	60.49	23.51	160.91	-824.75	-98.73	3,357.13	3,311.87	45.26	74.181		
5,800.00	4,829.79	4,345.75	4,197.31	61.89	23.73	160.92	-835.27	-99.48	3,433.03	3,387.27	45.76	75.028		
5,900.00	4,905.92	4,414.99	4,263.91	63.29	24.14	160.93	-854.12	-101.04	3,509.10	3,462.48	46.62	75.278		
6,000.00	4,982.04	4,462.23	4,309.37	64.69	24.42	160.94	-866.94	-102.19	3,585.25	3,538.03	47.22	75.930		
6,100.00	5,058.17	4,503.32	4,348.82	66.09	24.66	160.95	-878.36	-103.32	3,661.81	3,614.06	47.75	76.690		
6,200.00	5,134.30	4,562.28	4,405.32	67.49	25.02	160.95	-895.14	-105.02	3,738.68	3,690.19	48.50	77.093		
6,300.00	5,210.42	4,757.82	4,592.74	68.89	26.19	160.90	-950.83	-106.75	3,814.82	3,763.94	50.88	74.974		
6,400.00	5,286.55	5,018.91	4,846.30	70.29	27.61	160.99	-1,012.85	-104.09	3,887.64	3,833.81	53.83	72.225		
6,500.00	5,362.67	5,113.59	4,938.85	71.69	28.09	161.06	-1,032.64	-101.85	3,958.54	3,903.62	54.91	72.086		
6,600.00	5,438.80	5,211.53	5,035.21	73.09	28.55	161.18	-1,050.12	-101.30	4,029.19	3,973.21	55.97	71.984		
6,700.00	5,514.93	5,730.95	5,552.79	74.49	30.19	162.66	-1,084.23	-102.18	4,094.14	4,034.32	59.81	68.447		
6,800.00	5,591.05	5,805.15	5,626.98	75.89	30.35	162.91	-1,083.99	-101.36	4,156.39	4,095.95	60.44	68.767		
6,900.00	5,667.18	5,874.60	5,696.43	77.29	30.50	163.13	-1,083.63	-100.76	4,218.77	4,157.73	61.04	69.117		
7,000.00	5,743.30	5,943.32	5,765.15	78.69	30.64	163.36	-1,083.31	-100.35	4,281.36	4,219.74	61.63	69.472		
7,100.00	5,819.43	6,019.90	5,841.73	80.09	30.81	163.60	-1,082.98	-99.93	4,344.06	4,281.81	62.26	69.774		
7,200.00	5,895.56	6,094.87	5,916.69	81.49	30.97	163.83	-1,082.60	-99.57	4,406.83	4,343.95	62.88	70.082		
7,300.00	5,971.68	6,167.25	5,989.07	82.90	31.12	164.05	-1,082.17	-99.33	4,469.68	4,406.19	63.48	70.406		
7,400.00	6,047.81	6,235.82	6,057.64	84.30	31.27	164.25	-1,081.71	-99.24	4,532.67	4,468.60	64.06	70.752		
7,500.00	6,123.94	6,299.00	6,120.82	85.70	31.40	164.44	-1,081.29	-99.32	4,595.87	4,531.26	64.61	71.131		
7,600.00	6,200.06	6,358.02	6,179.84	87.10	31.53	164.61	-1,080.99	-99.57	4,659.37	4,594.24	65.14	71.533		
7,700.00	6,276.19	6,443.01	6,264.83	88.50	31.72	164.85	-1,080.62	-100.02	4,723.00	4,657.20	65.81	71.770		
7,800.00	6,352.31	6,556.91	6,378.72	89.90	31.97	165.16	-1,079.72	-100.23	4,786.32	4,719.67	66.64	71.821		
7,900.00	6,428.44	6,613.91	6,435.72	91.31	32.09	165.31	-1,079.22	-100.27	4,849.52	4,782.36	67.16	72.212		
8,000.00	6,504.57	6,691.71	6,513.51	92.71	32.27	165.51	-1,078.62	-100.44	4,912.93	4,845.14	67.79	72.473		
8,100.00	6,580.69	6,790.34	6,612.14	94.11	32.48	165.76	-1,077.47	-100.57	4,976.15	4,907.61	68.54	72.602		
8,200.00	6,656.82	6,883.03	6,704.82	95.51	32.69	165.99	-1,076.29	-100.27	5,039.06	4,969.80	69.26	72.752		
8,300.00	6,732.95	6,989.72	6,811.50	96.91	32.94	166.23	-1,075.33	-99.20	5,101.76	5,031.67	70.08	72.796		
8,400.00	6,809.07	7,070.05	6,891.82	98.32	33.13	166.41	-1,074.70	-97.86	5,164.08	5,093.33	70.76	72.983		
8,500.00	6,885.20	7,132.76	6,954.52	99.72	33.29	166.54	-1,074.40	-96.81	5,226.58	5,155.25	71.33	73.274		
8,600.00	6,961.32	7,187.66	7,009.42	101.12	33.42	166.65	-1,074.25	-96.07	5,289.38	5,217.53	71.85	73.612		
8,700.00	7,037.45	7,244.33	7,066.08	102.52	33.57	166.76	-1,074.17	-95.54	5,352.53	5,280.14	72.39	73.943		
8,732.15	7,061.92	7,262.76	7,084.52	102.97	33.61	166.80	-1,074.14	-95.42	5,372.89	5,300.33	72.56	74.048		
8,750.00	7,075.57	7,273.02	7,094.77	103.22	33.64	163.58	-1,074.13	-95.36	5,384.10	5,311.44	72.66	74.105		
8,800.00	7,114.27	7,298.00	7,119.75	103.91	33.70	154.58	-1,074.08	-95.27	5,414.26	5,341.36	72.90	74.267		
8,850.00	7,153.47	7,326.50	7,148.25	104.58	33.78	145.70	-1,074.06	-95.21	5,442.46	5,369.29	73.18	74.373		
8,900.00	7,192.85	7,351.59	7,173.34	105.21	33.84	137.07	-1,074.10	-95.21	5,468.54	5,395.11	73.43	74.469		
8,950.00	7,232.12	7,376.55	7,198.30	105.80	33.91	128.87	-1,074.19	-95.25	5,492.32	5,418.63	73.69	74.534		
9,000.00	7,270.99	7,440.22	7,261.97	106.35	34.08	121.49	-1,074.57	-95.29	5,513.60	5,439.40	74.20	74.309		
9,050.00	7,309.16	7,517.86	7,339.61	106.85	34.29	114.93	-1,075.10	-94.58	5,531.86	5,457.06	74.80	73.954		
9,100.00	7,346.32	7,569.91	7,391.64	107.30	34.44	109.01	-1,075.62	-93.74	5,547.24	5,472.01	75.23	73.735		
9,150.00	7,382.22	7,602.49	7,424.21	107.69	34.53	103.78	-1,076.03	-93.12	5,559.74	5,484.22	75.53	73.613		
9,200.00	7,416.56	7,630.48	7,452.19	108.02	34.61	99.29	-1,076.44	-92.59	5,569.42	5,493.64	75.78	73.494		
9,250.00	7,449.09	7,657.12	7,478.83	108.29	34.69	95.55	-1,076.88	-92.10	5,576.23	5,500.22	76.01	73.359		
9,300.00	7,479.56	7,672.00	7,493.70	108.51	34.73	92.41	-1,077.15	-91.82	5,580.18	5,504.03	76.15	73.277		
9,350.00	7,507.74	7,699.53	7,521.23	108.68	34.81	90.02	-1,077.68	-91.35	5,581.26	5,504.89	76.37	73.084		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,717.01	7,538.70	108.79	34.86	88.14	-1,078.02	-91.10	5,579.51	5,503.01	76.50	72.933		
9,450.00	7,556.39	7,732.72	7,554.40	108.86	34.91	86.80	-1,078.33	-90.89	5,574.97	5,498.36	76.61	72.768		
9,500.00	7,576.48	7,746.55	7,568.23	108.88	34.95	85.96	-1,078.61	-90.73	5,567.68	5,490.98	76.70	72.588		
9,550.00	7,593.55	7,766.00	7,587.68	108.86	35.01	85.68	-1,079.01	-90.53	5,557.72	5,480.89	76.83	72.340		
9,600.00	7,607.46	7,766.00	7,587.68	108.80	35.01	85.68	-1,079.01	-90.53	5,545.15	5,468.34	76.81	72.195		
9,650.00	7,618.11	7,766.00	7,587.68	108.71	35.01	86.15	-1,079.01	-90.53	5,530.10	5,453.31	76.79	72.019		
9,700.00	7,625.41	7,766.00	7,587.68	108.59	35.01	87.07	-1,079.01	-90.53	5,512.66	5,435.89	76.77	71.808		
9,750.00	7,629.30	7,766.00	7,587.68	108.45	35.01	88.47	-1,079.01	-90.53	5,492.94	5,416.18	76.76	71.561		
9,781.81	7,630.00	7,766.00	7,587.68	108.35	35.01	89.60	-1,079.01	-90.53	5,479.27	5,402.51	76.76	71.383		
9,800.00	7,630.00	7,766.00	7,587.68	108.29	35.01	89.60	-1,079.01	-90.53	5,471.23	5,394.47	76.76	71.278		
9,900.00	7,630.00	7,766.00	7,587.68	107.97	35.01	89.60	-1,079.01	-90.53	5,427.93	5,351.15	76.79	70.690		
10,000.00	7,630.00	7,766.00	7,587.68	107.67	35.01	89.60	-1,079.01	-90.53	5,386.14	5,309.29	76.85	70.089		
10,100.00	7,630.00	7,766.00	7,587.68	107.38	35.01	89.60	-1,079.01	-90.53	5,345.89	5,268.94	76.95	69.474		
10,200.00	7,630.00	7,766.00	7,587.68	107.10	35.01	89.60	-1,079.01	-90.53	5,307.22	5,230.13	77.09	68.846		
10,300.00	7,630.00	7,785.80	7,607.47	106.84	35.07	89.83	-1,079.43	-90.38	5,270.09	5,192.65	77.44	68.057		
10,400.00	7,630.00	7,786.90	7,608.57	106.59	35.07	89.84	-1,079.46	-90.37	5,234.68	5,157.00	77.67	67.394		
10,500.00	7,630.00	7,788.01	7,609.68	106.35	35.07	89.86	-1,079.48	-90.37	5,200.94	5,122.99	77.95	66.721		
10,600.00	7,630.00	7,789.13	7,610.80	106.13	35.08	89.87	-1,079.51	-90.36	5,168.92	5,090.65	78.27	66.037		
10,700.00	7,630.00	7,790.26	7,611.93	105.92	35.08	89.88	-1,079.54	-90.36	5,138.65	5,060.01	78.64	65.345		
10,800.00	7,630.00	7,791.40	7,613.07	105.72	35.08	89.90	-1,079.56	-90.35	5,110.15	5,031.11	79.05	64.647		
10,900.00	7,630.00	7,792.55	7,614.22	105.54	35.09	89.91	-1,079.59	-90.35	5,083.46	5,003.97	79.50	63.944		
11,000.00	7,630.00	7,793.71	7,615.38	105.37	35.09	89.92	-1,079.61	-90.34	5,058.61	4,978.62	79.99	63.238		
11,100.00	7,630.00	7,794.88	7,616.55	105.21	35.09	89.94	-1,079.64	-90.34	5,035.62	4,955.09	80.53	62.532		
11,200.00	7,630.00	7,796.06	7,617.73	105.06	35.10	89.95	-1,079.67	-90.33	5,014.52	4,933.42	81.10	61.829		
11,300.00	7,630.00	7,797.25	7,618.92	104.93	35.10	89.96	-1,079.70	-90.33	4,995.33	4,913.62	81.71	61.131		
11,400.00	7,630.00	7,798.45	7,620.12	104.82	35.11	89.98	-1,079.73	-90.32	4,978.08	4,895.71	82.36	60.441		
11,500.00	7,630.00	7,799.66	7,621.33	104.72	35.11	89.99	-1,079.75	-90.32	4,962.78	4,879.73	83.05	59.760		
11,600.00	7,630.00	7,800.89	7,622.55	104.63	35.11	90.01	-1,079.78	-90.31	4,949.45	4,865.69	83.76	59.092		
11,700.00	7,630.00	7,802.12	7,623.79	104.55	35.12	90.02	-1,079.81	-90.31	4,938.11	4,853.61	84.50	58.439		
11,800.00	7,630.00	7,803.36	7,625.03	104.50	35.12	90.04	-1,079.84	-90.31	4,928.78	4,843.51	85.27	57.803		
11,900.00	7,630.00	7,804.62	7,626.29	104.45	35.12	90.05	-1,079.87	-90.30	4,921.46	4,835.40	86.06	57.187		
12,000.00	7,630.00	7,805.89	7,627.55	104.43	35.13	90.06	-1,079.90	-90.30	4,916.16	4,829.29	86.87	56.591		
12,100.00	7,630.00	7,807.17	7,628.83	104.42	35.13	90.08	-1,079.93	-90.30	4,912.89	4,825.19	87.70	56.019		
12,200.00	7,630.00	7,808.46	7,630.12	104.42	35.14	90.09	-1,079.96	-90.30	4,911.66	4,823.11	88.54	55.472		
12,210.67	7,630.00	7,808.60	7,630.26	104.42	35.14	90.10	-1,079.97	-90.30	4,911.65	4,823.01	88.64	55.413		
12,300.00	7,630.00	7,809.76	7,631.42	104.45	35.14	90.11	-1,080.00	-90.30	4,912.46	4,823.06	89.40	54.950		
12,400.00	7,630.00	7,811.08	7,632.74	104.49	35.14	90.13	-1,080.03	-90.29	4,915.29	4,825.03	90.26	54.456		
12,500.00	7,630.00	7,812.40	7,634.07	104.55	35.15	90.14	-1,080.06	-90.29	4,920.16	4,829.03	91.13	53.989		
12,600.00	7,630.00	7,813.74	7,635.41	104.63	35.15	90.16	-1,080.09	-90.29	4,927.05	4,835.04	92.01	53.552		
12,700.00	7,630.00	7,815.10	7,636.76	104.73	35.16	90.17	-1,080.13	-90.29	4,935.95	4,843.07	92.88	53.144		
12,800.00	7,630.00	7,816.46	7,638.12	104.85	35.16	90.19	-1,080.16	-90.29	4,946.86	4,853.11	93.75	52.766		
12,900.00	7,630.00	7,817.84	7,639.50	104.99	35.16	90.20	-1,080.20	-90.29	4,959.77	4,865.15	94.62	52.419		
13,000.00	7,630.00	7,819.23	7,640.89	105.15	35.17	90.22	-1,080.23	-90.29	4,974.65	4,879.17	95.48	52.102		
13,100.00	7,630.00	7,820.64	7,642.30	105.34	35.17	90.24	-1,080.27	-90.29	4,991.48	4,895.15	96.33	51.816		
13,200.00	7,630.00	7,822.05	7,643.71	105.56	35.18	90.25	-1,080.30	-90.29	5,010.26	4,913.09	97.17	51.560		
13,300.00	7,630.00	7,823.49	7,645.15	105.80	35.18	90.27	-1,080.34	-90.29	5,030.96	4,932.95	98.00	51.334		
13,400.00	7,630.00	7,824.93	7,646.59	106.06	35.19	90.29	-1,080.38	-90.29	5,053.54	4,954.72	98.82	51.139		
13,500.00	7,630.00	7,826.39	7,648.05	106.36	35.19	90.30	-1,080.42	-90.30	5,078.00	4,978.38	99.62	50.973		
13,600.00	7,630.00	7,827.87	7,649.53	106.68	35.19	90.32	-1,080.45	-90.30	5,104.30	5,003.89	100.41	50.836		
13,700.00	7,630.00	7,829.36	7,651.01	107.03	35.20	90.34	-1,080.49	-90.30	5,132.41	5,031.24	101.17	50.729		
13,800.00	7,630.00	7,830.86	7,652.52	107.42	35.20	90.36	-1,080.53	-90.31	5,162.30	5,060.38	101.92	50.649		
13,900.00	7,630.00	7,832.38	7,654.04	107.83	35.21	90.37	-1,080.57	-90.31	5,193.95	5,091.30	102.65	50.597		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,833.91	7,655.57	108.28	35.21	90.39	-1,080.61	-90.31	5,227.32	5,123.96	103.36	50.572		
14,100.00	7,630.00	7,835.46	7,657.12	108.77	35.22	90.41	-1,080.65	-90.32	5,262.38	5,158.32	104.05	50.573		
14,200.00	7,630.00	7,837.03	7,658.68	109.29	35.22	90.43	-1,080.70	-90.32	5,299.09	5,194.36	104.72	50.601		
14,300.00	7,630.00	7,838.61	7,660.27	109.84	35.23	90.45	-1,080.74	-90.33	5,337.42	5,232.05	105.37	50.653		
14,400.00	7,630.00	7,840.21	7,661.86	110.43	35.23	90.46	-1,080.78	-90.34	5,377.34	5,271.34	106.00	50.729		
14,500.00	7,630.00	7,841.82	7,663.48	111.06	35.24	90.48	-1,080.83	-90.34	5,418.81	5,312.20	106.61	50.830		
14,600.00	7,630.00	7,843.45	7,665.11	111.72	35.24	90.50	-1,080.87	-90.35	5,461.79	5,354.60	107.19	50.953		
14,700.00	7,630.00	7,845.10	7,666.75	112.42	35.25	90.52	-1,080.92	-90.36	5,506.25	5,398.50	107.76	51.099		
14,800.00	7,630.00	7,859.00	7,680.65	113.16	35.29	90.68	-1,081.31	-90.44	5,552.18	5,443.80	108.39	51.226		
14,900.00	7,630.00	7,859.00	7,680.65	113.94	35.29	90.68	-1,081.31	-90.44	5,599.49	5,490.60	108.90	51.420		
15,000.00	7,630.00	7,859.00	7,680.65	114.75	35.29	90.68	-1,081.31	-90.44	5,648.18	5,538.79	109.39	51.635		
15,100.00	7,630.00	7,859.00	7,680.65	115.60	35.29	90.68	-1,081.31	-90.44	5,698.20	5,588.35	109.86	51.869		
15,200.00	7,630.00	7,859.00	7,680.65	116.48	35.29	90.68	-1,081.31	-90.44	5,749.53	5,639.22	110.31	52.122		
15,300.00	7,630.00	7,859.00	7,680.65	117.40	35.29	90.68	-1,081.31	-90.44	5,802.13	5,691.39	110.74	52.393		
15,400.00	7,630.00	7,859.00	7,680.65	118.35	35.29	90.68	-1,081.31	-90.44	5,855.97	5,744.81	111.16	52.682		
15,500.00	7,630.00	7,859.00	7,680.65	119.34	35.29	90.68	-1,081.31	-90.44	5,911.00	5,799.45	111.55	52.989		
15,600.00	7,630.00	7,859.00	7,680.65	120.35	35.29	90.68	-1,081.31	-90.44	5,967.20	5,855.27	111.93	53.311		
15,700.00	7,630.00	7,859.00	7,680.65	121.40	35.29	90.68	-1,081.31	-90.44	6,024.54	5,912.25	112.29	53.650		
15,800.00	7,630.00	7,859.00	7,680.65	122.48	35.29	90.68	-1,081.31	-90.44	6,082.99	5,970.35	112.64	54.005		
15,900.00	7,630.00	7,859.00	7,680.65	123.58	35.29	90.68	-1,081.31	-90.44	6,142.50	6,029.53	112.97	54.374		
16,000.00	7,630.00	7,859.00	7,680.65	124.71	35.29	90.68	-1,081.31	-90.44	6,203.06	6,089.78	113.28	54.758		
16,100.00	7,630.00	7,859.00	7,680.65	125.87	35.29	90.68	-1,081.31	-90.44	6,264.62	6,151.04	113.58	55.155		
16,200.00	7,630.00	7,859.00	7,680.65	127.05	35.29	90.68	-1,081.31	-90.44	6,327.17	6,213.31	113.87	55.566		
16,300.00	7,630.00	7,859.00	7,680.65	128.26	35.29	90.68	-1,081.31	-90.44	6,390.67	6,276.54	114.14	55.990		
16,400.00	7,630.00	7,859.00	7,680.65	129.48	35.29	90.68	-1,081.31	-90.44	6,455.10	6,340.70	114.40	56.427		
16,500.00	7,630.00	7,859.00	7,680.65	130.73	35.29	90.68	-1,081.31	-90.44	6,520.42	6,405.78	114.64	56.876		
16,600.00	7,630.00	7,859.00	7,680.65	132.00	35.29	90.68	-1,081.31	-90.44	6,586.62	6,471.74	114.88	57.336		
16,700.00	7,630.00	7,859.00	7,680.65	133.29	35.29	90.68	-1,081.31	-90.44	6,653.65	6,538.55	115.10	57.808		
16,800.00	7,630.00	7,877.70	7,699.34	134.59	35.35	90.90	-1,081.86	-90.63	6,721.46	6,606.04	115.42	58.234		
16,900.00	7,630.00	7,879.22	7,700.85	135.91	35.35	90.92	-1,081.90	-90.65	6,790.10	6,674.47	115.63	58.723		
17,000.00	7,630.00	7,880.75	7,702.39	137.25	35.36	90.94	-1,081.95	-90.67	6,859.52	6,743.69	115.83	59.222		
17,100.00	7,630.00	7,882.30	7,703.93	138.61	35.36	90.96	-1,082.00	-90.69	6,929.68	6,813.66	116.02	59.730		
17,200.00	7,630.00	7,883.85	7,705.49	139.97	35.37	90.97	-1,082.04	-90.71	7,000.56	6,884.37	116.20	60.248		
17,300.00	7,630.00	8,358.05	8,178.84	141.36	36.94	96.48	-1,106.04	-84.58	7,072.06	6,953.10	118.96	59.448		
17,400.00	7,630.00	8,361.57	8,182.36	142.75	36.95	96.52	-1,106.30	-84.45	7,144.00	7,024.88	119.12	59.975		
17,500.00	7,630.00	8,365.06	8,185.83	144.16	36.96	96.56	-1,106.55	-84.32	7,216.60	7,097.34	119.26	60.511		
17,600.00	7,630.00	8,368.50	8,189.26	145.58	36.98	96.60	-1,106.80	-84.20	7,289.84	7,170.44	119.40	61.055		
17,700.00	7,630.00	8,371.91	8,192.66	147.01	36.99	96.64	-1,107.05	-84.08	7,363.71	7,244.19	119.53	61.607		
17,800.00	7,630.00	8,375.28	8,196.02	148.45	37.00	96.67	-1,107.29	-83.96	7,438.19	7,318.54	119.65	62.166		
17,900.00	7,630.00	8,378.61	8,199.34	149.91	37.01	96.71	-1,107.53	-83.84	7,513.26	7,393.49	119.77	62.732		
18,000.00	7,630.00	8,381.90	8,202.62	151.37	37.02	96.75	-1,107.76	-83.73	7,588.90	7,469.02	119.88	63.305		
18,100.00	7,630.00	8,385.16	8,205.87	152.84	37.04	96.79	-1,108.00	-83.61	7,665.10	7,545.12	119.98	63.885		
18,200.00	7,630.00	8,388.38	8,209.08	154.32	37.05	96.83	-1,108.22	-83.50	7,741.83	7,621.75	120.08	64.472		
18,300.00	7,630.00	8,391.57	8,212.25	155.81	37.06	96.86	-1,108.45	-83.40	7,819.09	7,698.92	120.17	65.065		
18,400.00	7,630.00	8,394.72	8,215.40	157.31	37.07	96.90	-1,108.66	-83.29	7,896.85	7,776.59	120.26	65.664		
18,500.00	7,630.00	8,397.84	8,218.51	158.81	37.08	96.93	-1,108.88	-83.19	7,975.11	7,854.77	120.35	66.268		
18,600.00	7,630.00	8,420.00	8,240.61	160.32	37.16	97.19	-1,110.38	-82.48	8,053.90	7,933.38	120.52	66.826		
18,700.00	7,630.00	8,420.00	8,240.61	161.84	37.16	97.19	-1,110.38	-82.48	8,133.09	8,012.51	120.58	67.450		
18,800.00	7,630.00	8,420.00	8,240.61	163.37	37.16	97.19	-1,110.38	-82.48	8,212.73	8,092.09	120.63	68.079		
18,900.00	7,630.00	8,420.00	8,240.61	164.90	37.16	97.19	-1,110.38	-82.48	8,292.81	8,172.12	120.69	68.714		
19,000.00	7,630.00	8,420.00	8,240.61	166.43	37.16	97.19	-1,110.38	-82.48	8,373.32	8,252.58	120.73	69.353		
19,100.00	7,630.00	8,420.00	8,240.61	167.98	37.16	97.19	-1,110.38	-82.48	8,454.24	8,333.46	120.78	69.997		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	
19,200.00	7,630.00	8,420.00	8,240.61	169.53	37.16	97.19	-1,110.38	-82.48	8,535.57	8,414.75	120.82	70.646	
19,300.00	7,630.00	8,420.00	8,240.61	171.08	37.16	97.19	-1,110.38	-82.48	8,617.30	8,496.44	120.86	71.299	
19,400.00	7,630.00	8,420.00	8,240.61	172.64	37.16	97.19	-1,110.38	-82.48	8,699.40	8,578.50	120.90	71.956	
19,500.00	7,630.00	8,420.00	8,240.61	174.21	37.16	97.19	-1,110.38	-82.48	8,781.88	8,660.95	120.93	72.618	
19,518.56	7,630.00	8,420.00	8,240.61	174.50	37.16	97.19	-1,110.38	-82.48	8,797.23	8,676.29	120.94	72.741	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-27.82	218.57	-115.36	247.28				
100.00	100.00	89.97	89.97	0.13	0.15	-27.76	219.03	-115.29	247.53	247.24	0.28	877.205	
200.00	200.00	192.61	192.60	0.49	0.42	-27.50	220.25	-114.65	248.31	247.40	0.91	272.784	
300.00	300.00	300.80	300.70	0.85	0.81	-26.72	220.02	-110.74	246.47	244.81	1.66	148.598	
400.00	400.00	407.66	407.20	1.21	1.20	-25.09	218.26	-102.19	241.47	239.06	2.41	100.167	
500.00	499.98	511.00	509.67	1.56	1.61	-89.66	216.36	-88.99	234.59	231.43	3.16	74.128	
600.00	599.84	618.29	615.54	1.92	2.07	-87.67	212.46	-72.05	225.15	221.19	3.96	56.843	
700.00	699.45	718.49	713.75	2.29	2.54	-85.78	208.05	-52.76	213.89	209.13	4.77	44.864	
800.00	798.70	811.42	804.18	2.67	3.01	-83.64	205.89	-31.46	203.50	197.90	5.60	36.318	
900.00	897.47	903.06	892.84	3.07	3.49	-81.22	209.24	-8.60	198.12	191.63	6.49	30.520	
1,000.00	995.62	1,007.55	993.81	3.50	4.05	-79.19	212.85	18.04	192.31	184.82	7.49	25.659	
1,100.00	1,093.06	1,108.14	1,090.89	3.96	4.61	-78.11	214.72	44.32	184.32	175.80	8.52	21.638	
1,200.00	1,189.64	1,207.60	1,186.64	4.46	5.18	-77.76	216.68	71.15	175.62	166.04	9.58	18.324	
1,300.00	1,285.27	1,303.42	1,279.17	5.00	5.72	-78.84	219.42	95.88	167.30	156.64	10.66	15.696	
1,400.00	1,379.82	1,397.69	1,370.27	5.60	6.24	-81.15	224.67	119.52	161.25	149.49	11.76	13.713	
1,500.00	1,473.17	1,497.63	1,466.59	6.25	6.81	-84.63	231.92	145.13	156.56	143.61	12.95	12.091	
1,600.00	1,565.21	1,596.35	1,561.61	6.95	7.38	-89.35	239.12	170.95	152.22	138.06	14.16	10.749	
1,700.00	1,655.84	1,692.59	1,653.99	7.72	7.94	-95.00	247.49	196.58	150.24	134.88	15.36	9.780	
1,711.47	1,666.14	1,703.83	1,664.78	7.82	8.00	-95.74	248.54	199.54	150.22	134.72	15.50	9.691 CC, ES	
1,800.00	1,744.94	1,790.12	1,747.79	8.55	8.50	-102.14	256.53	221.70	151.50	135.01	16.49	9.188	
1,900.00	1,832.39	1,887.65	1,841.81	9.45	9.05	-110.41	265.31	246.13	156.68	139.24	17.44	8.982 SF	
2,000.00	1,918.11	1,985.07	1,936.10	10.41	9.60	-119.71	271.93	269.67	166.17	148.05	18.12	9.171	
2,100.00	2,001.97	2,079.91	2,028.03	11.45	10.12	-128.68	277.45	292.32	181.77	163.20	18.56	9.792	
2,200.00	2,083.88	2,174.32	2,119.35	12.56	10.66	-136.52	283.44	315.54	203.48	184.54	18.94	10.742	
2,300.00	2,163.74	2,265.76	2,207.71	13.74	11.17	-142.93	289.82	338.22	231.16	211.83	19.34	11.954	
2,400.00	2,241.45	2,353.38	2,292.66	14.99	11.66	-148.32	295.16	358.95	265.21	245.47	19.74	13.433	
2,421.22	2,257.65	2,371.99	2,310.75	15.26	11.76	-149.37	296.22	363.24	273.22	253.38	19.84	13.773	
2,500.00	2,317.63	2,441.02	2,377.85	16.29	12.13	-153.10	300.21	378.94	304.17	283.95	20.22	15.044	
2,600.00	2,393.75	2,530.47	2,464.83	17.62	12.62	-156.94	305.69	399.09	345.02	324.22	20.79	16.592	
2,700.00	2,469.88	2,629.44	2,560.76	18.95	13.16	-160.47	310.56	422.91	385.62	364.15	21.46	17.965	
2,800.00	2,546.01	2,715.05	2,643.66	20.30	13.65	-163.12	313.64	444.03	426.66	404.55	22.10	19.302	
2,900.00	2,622.13	2,809.25	2,734.80	21.65	14.18	-165.48	317.50	467.52	468.11	445.27	22.84	20.496	
3,000.00	2,698.26	2,898.34	2,820.90	23.01	14.69	-167.39	320.85	490.17	509.69	486.11	23.58	21.618	
3,100.00	2,774.38	2,988.75	2,908.25	24.37	15.21	-169.14	323.48	513.34	551.66	527.31	24.34	22.660	
3,200.00	2,850.51	3,083.39	2,999.58	25.74	15.77	-170.64	326.90	537.91	593.55	568.38	25.17	23.581	
3,300.00	2,926.64	3,169.16	3,082.36	27.11	16.26	-171.69	331.39	559.88	635.62	609.66	25.96	24.483	
3,400.00	3,002.76	3,258.88	3,169.07	28.49	16.78	-172.55	337.06	582.24	678.20	651.41	26.79	25.312	
3,500.00	3,078.89	3,342.37	3,249.84	29.87	17.25	-173.24	342.44	602.70	721.25	693.66	27.58	26.147	
3,600.00	3,155.02	3,429.65	3,334.44	31.25	17.73	-173.88	347.97	623.42	765.07	736.67	28.41	26.932	
3,700.00	3,231.14	3,513.98	3,416.23	32.63	18.20	-174.47	352.75	643.39	809.22	780.01	29.21	27.703	
3,800.00	3,307.27	3,603.69	3,503.34	34.01	18.69	-175.14	356.40	664.53	854.00	823.94	30.06	28.408	
3,900.00	3,383.39	3,691.97	3,588.94	35.40	19.18	-175.76	359.65	685.85	898.46	867.55	30.91	29.069	
4,000.00	3,459.52	3,779.93	3,674.38	36.79	19.67	-176.28	363.37	706.43	943.49	911.73	31.76	29.710	
4,100.00	3,535.65	3,871.53	3,763.23	38.18	20.17	-176.80	367.00	728.39	988.16	955.52	32.64	30.273	
4,200.00	3,611.77	3,957.08	3,846.28	39.57	20.65	-177.23	370.53	748.61	1,033.14	999.66	33.48	30.860	
4,300.00	3,687.90	4,044.41	3,931.10	40.96	21.12	-177.62	374.31	769.06	1,078.27	1,043.94	34.33	31.408	
4,400.00	3,764.02	4,127.26	4,011.70	42.35	21.57	-177.88	379.05	787.64	1,123.83	1,088.69	35.14	31.980	
4,500.00	3,840.15	4,216.06	4,098.14	43.74	22.04	-178.15	383.92	807.41	1,169.65	1,133.64	36.01	32.485	
4,600.00	3,916.28	4,312.86	4,192.27	45.13	22.56	-178.43	389.08	829.36	1,215.17	1,178.22	36.95	32.891	
4,700.00	3,992.40	4,378.69	4,256.41	46.53	22.91	-178.59	392.75	843.71	1,261.34	1,223.74	37.60	33.547	
4,800.00	4,068.53	4,483.33	4,358.44	47.92	23.46	-178.87	397.72	866.35	1,308.02	1,269.40	38.62	33.873	
4,900.00	4,144.66	4,569.96	4,442.69	49.32	23.93	-179.13	401.13	886.26	1,353.82	1,314.35	39.47	34.297	

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	4,659.23	4,529.57	50.71	24.41	-179.35	405.16	906.40	1,399.79	1,359.44	40.36	34.687		
5,100.00	4,296.91	4,746.20	4,614.20	52.11	24.87	-179.55	409.20	925.99	1,445.76	1,404.54	41.22	35.078		
5,200.00	4,373.03	4,813.68	4,679.93	53.51	25.23	-179.73	411.60	941.09	1,492.29	1,450.39	41.90	35.620		
5,300.00	4,449.16	4,864.00	4,729.08	54.90	25.49	-179.88	412.47	951.80	1,540.49	1,498.09	42.40	36.336		
5,400.00	4,525.29	4,926.07	4,789.95	56.30	25.79	179.94	413.00	963.92	1,590.38	1,547.38	43.00	36.985		
5,500.00	4,601.41	4,981.72	4,844.77	57.70	26.04	179.80	413.42	973.51	1,642.06	1,598.54	43.52	37.728		
5,600.00	4,677.54	5,040.51	4,902.84	59.10	26.30	179.67	413.79	982.66	1,695.16	1,651.09	44.07	38.467		
5,700.00	4,753.66	5,102.38	4,964.10	60.49	26.55	179.56	414.11	991.34	1,749.47	1,704.83	44.64	39.194		
5,800.00	4,829.79	5,163.83	5,025.05	61.89	26.79	179.46	414.37	999.20	1,804.81	1,759.61	45.19	39.935		
5,900.00	4,905.92	5,223.21	5,084.03	63.29	27.02	179.37	414.55	1,006.01	1,861.19	1,815.47	45.72	40.707		
6,000.00	4,982.04	5,275.10	5,135.66	64.69	27.20	179.32	414.68	1,011.21	1,918.71	1,872.56	46.15	41.573		
6,100.00	5,058.17	5,332.00	5,192.37	66.09	27.40	179.27	414.81	1,015.79	1,977.62	1,930.98	46.64	42.405		
6,200.00	5,134.30	5,376.27	5,236.55	67.49	27.54	179.24	414.90	1,018.62	2,037.69	1,990.73	46.96	43.392		
6,300.00	5,210.42	5,429.97	5,290.18	68.89	27.70	179.23	415.01	1,021.37	2,098.82	2,051.43	47.39	44.286		
6,400.00	5,286.55	5,493.73	5,353.89	70.29	27.88	179.21	415.09	1,024.01	2,160.70	2,112.76	47.94	45.070		
6,500.00	5,362.67	5,561.86	5,421.97	71.69	28.08	179.20	415.14	1,026.37	2,223.06	2,174.52	48.54	45.797		
6,600.00	5,438.80	5,628.87	5,488.96	73.09	28.26	179.20	415.30	1,028.40	2,285.70	2,236.58	49.13	46.524		
6,700.00	5,514.93	5,684.38	5,544.45	74.49	28.41	179.20	415.47	1,029.58	2,348.96	2,299.38	49.58	47.379		
6,800.00	5,591.05	5,741.81	5,601.87	75.89	28.56	179.22	415.65	1,030.23	2,412.91	2,362.86	50.04	48.215		
6,900.00	5,667.18	5,800.56	5,660.62	77.29	28.71	179.23	415.79	1,030.44	2,477.43	2,426.90	50.53	49.033		
7,000.00	5,743.30	5,874.30	5,734.36	78.69	28.89	179.26	416.00	1,030.35	2,542.26	2,491.09	51.18	49.676		
7,100.00	5,819.43	5,946.93	5,807.00	80.09	29.06	179.29	416.27	1,030.16	2,607.18	2,555.37	51.81	50.321		
7,200.00	5,895.56	6,018.89	5,878.96	81.49	29.23	179.31	416.39	1,029.91	2,672.21	2,619.77	52.44	50.961		
7,300.00	5,971.68	6,090.65	5,950.72	82.90	29.40	179.33	416.57	1,029.52	2,737.35	2,684.29	53.06	51.590		
7,400.00	6,047.81	6,163.38	6,023.44	84.30	29.57	179.36	416.80	1,028.99	2,802.60	2,748.90	53.70	52.194		
7,500.00	6,123.94	6,237.98	6,098.04	85.70	29.74	179.38	416.98	1,028.42	2,867.90	2,813.55	54.35	52.764		
7,600.00	6,200.06	6,307.72	6,167.78	87.10	29.90	179.40	417.01	1,027.88	2,933.27	2,878.31	54.96	53.373		
7,700.00	6,276.19	6,374.30	6,234.36	88.50	30.06	179.42	417.05	1,027.15	2,998.86	2,943.33	55.53	54.006		
7,800.00	6,352.31	6,443.09	6,303.13	89.90	30.22	179.45	417.23	1,026.14	3,064.64	3,008.51	56.12	54.604		
7,900.00	6,428.44	6,513.99	6,374.02	91.31	30.38	179.48	417.47	1,024.94	3,130.55	3,073.81	56.75	55.168		
8,000.00	6,504.57	6,582.85	6,442.87	92.71	30.54	179.50	417.52	1,023.74	3,196.58	3,139.23	57.35	55.741		
8,100.00	6,580.69	6,652.85	6,512.86	94.11	30.71	179.51	417.19	1,022.50	3,262.79	3,204.83	57.96	56.292		
8,200.00	6,656.82	6,763.15	6,623.15	95.51	30.97	179.53	416.82	1,021.00	3,328.70	3,269.68	59.02	56.937		
8,300.00	6,732.95	6,896.23	6,756.23	96.91	31.32	179.56	417.52	1,020.92	3,393.38	3,333.04	60.34	56.240		
8,400.00	6,809.07	6,987.25	6,847.24	98.32	31.58	179.58	418.11	1,021.87	3,457.29	3,396.08	61.21	56.486		
8,500.00	6,885.20	7,065.47	6,925.46	99.72	31.80	179.59	418.60	1,022.83	3,521.08	3,459.14	61.94	56.848		
8,600.00	6,961.32	7,150.28	7,010.26	101.12	32.05	179.60	419.31	1,023.82	3,584.85	3,522.11	62.74	57.137		
8,700.00	7,037.45	7,239.34	7,099.30	102.52	32.30	179.61	420.07	1,025.26	3,648.29	3,584.70	63.59	57.372		
8,732.15	7,061.92	7,264.11	7,124.06	102.97	32.38	179.61	420.29	1,025.68	3,668.66	3,604.84	63.82	57.483		
8,750.00	7,075.57	7,277.91	7,137.86	103.22	32.42	176.23	420.42	1,025.91	3,679.90	3,615.95	63.95	57.543		
8,800.00	7,114.27	7,313.58	7,173.53	103.91	32.52	166.74	420.77	1,026.49	3,710.58	3,646.31	64.27	57.734		
8,850.00	7,153.47	7,345.86	7,205.80	104.58	32.62	157.32	421.17	1,026.92	3,739.94	3,675.40	64.54	57.946		
8,900.00	7,192.85	7,378.09	7,238.02	105.21	32.71	148.15	421.66	1,027.24	3,767.80	3,703.00	64.80	58.143		
8,950.00	7,232.12	7,406.50	7,266.43	105.80	32.79	139.38	422.15	1,027.43	3,794.00	3,728.99	65.01	58.361		
9,000.00	7,270.99	7,432.14	7,292.07	106.35	32.86	131.19	422.52	1,027.53	3,818.42	3,753.25	65.18	58.587		
9,050.00	7,309.16	7,457.22	7,317.15	106.85	32.93	123.71	422.81	1,027.58	3,840.94	3,775.61	65.33	58.797		
9,100.00	7,346.32	7,484.00	7,343.92	107.30	33.01	117.04	423.03	1,027.55	3,861.44	3,795.95	65.49	58.967		
9,150.00	7,382.22	7,512.32	7,372.24	107.69	33.08	111.22	423.21	1,027.48	3,879.77	3,814.12	65.65	59.096		
9,200.00	7,416.56	7,542.46	7,402.39	108.02	33.16	106.22	423.39	1,027.38	3,895.84	3,830.01	65.83	59.176		
9,250.00	7,449.09	7,570.98	7,430.90	108.29	33.24	101.98	423.54	1,027.26	3,909.58	3,843.58	66.00	59.237		
9,300.00	7,479.56	7,596.54	7,456.46	108.51	33.31	98.41	423.67	1,027.12	3,920.95	3,854.82	66.13	59.288		
9,350.00	7,507.74	7,619.72	7,479.65	108.68	33.37	95.46	423.80	1,026.97	3,929.95	3,863.70	66.25	59.319		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,400.00	7,533.41	7,640.76	7,500.68	108.79	33.43	93.07	423.92	1,026.80	3,936.57	3,870.21	66.36	59.325		
9,450.00	7,556.39	7,659.49	7,519.41	108.86	33.48	91.20	424.03	1,026.63	3,940.80	3,874.35	66.45	59.301		
9,500.00	7,576.48	7,676.86	7,536.78	108.88	33.52	89.82	424.14	1,026.45	3,942.67	3,876.11	66.56	59.235		
9,550.00	7,593.55	7,694.57	7,554.49	108.86	33.57	88.91	424.24	1,026.27	3,942.18	3,875.48	66.70	59.106		
9,600.00	7,607.46	7,709.00	7,568.92	108.80	33.61	88.39	424.32	1,026.13	3,939.38	3,872.55	66.83	58.946		
9,650.00	7,618.11	7,720.02	7,579.93	108.71	33.64	88.25	424.37	1,026.03	3,934.32	3,867.35	66.96	58.752		
9,700.00	7,625.41	7,727.52	7,587.43	108.59	33.66	88.46	424.41	1,025.96	3,927.05	3,859.94	67.10	58.524		
9,750.00	7,629.30	7,731.43	7,591.34	108.45	33.67	89.01	424.42	1,025.92	3,917.63	3,850.39	67.25	58.258		
9,781.81	7,630.00	7,732.02	7,591.93	108.35	33.67	89.55	424.43	1,025.92	3,910.56	3,843.22	67.34	58.071		
9,800.00	7,630.00	7,731.93	7,591.85	108.29	33.67	89.55	424.43	1,025.92	3,906.31	3,838.92	67.40	57.959		
9,900.00	7,630.00	7,731.47	7,591.38	107.97	33.67	89.54	424.42	1,025.92	3,884.43	3,816.66	67.77	57.321		
10,000.00	7,630.00	7,730.99	7,590.91	107.67	33.66	89.53	424.42	1,025.93	3,865.01	3,796.78	68.23	56.650		
10,100.00	7,630.00	7,730.52	7,590.43	107.38	33.66	89.52	424.42	1,025.93	3,848.09	3,779.31	68.78	55.952		
10,200.00	7,630.00	7,730.04	7,589.96	107.10	33.66	89.52	424.42	1,025.93	3,833.70	3,764.29	69.41	55.232		
10,300.00	7,630.00	7,729.56	7,589.48	106.84	33.66	89.51	424.41	1,025.94	3,821.88	3,751.75	70.13	54.498		
10,400.00	7,630.00	7,729.08	7,588.99	106.59	33.66	89.50	424.41	1,025.94	3,812.64	3,741.72	70.92	53.756		
10,500.00	7,630.00	7,728.59	7,588.50	106.35	33.66	89.50	424.41	1,025.95	3,806.01	3,734.22	71.79	53.014		
10,600.00	7,630.00	7,728.10	7,588.01	106.13	33.66	89.49	424.41	1,025.95	3,802.00	3,729.28	72.73	52.278		
10,700.00	7,630.00	7,727.60	7,587.52	105.92	33.66	89.48	424.41	1,025.96	3,800.62	3,726.90	73.72	51.555		
10,702.54	7,630.00	7,727.59	7,587.51	105.91	33.66	89.48	424.41	1,025.96	3,800.62	3,726.88	73.75	51.537		
10,800.00	7,630.00	7,727.11	7,587.02	105.72	33.65	89.47	424.40	1,025.96	3,801.87	3,727.11	74.76	50.851		
10,900.00	7,630.00	7,726.61	7,586.52	105.54	33.65	89.47	424.40	1,025.97	3,805.75	3,729.89	75.86	50.171		
11,000.00	7,630.00	7,726.10	7,586.01	105.37	33.65	89.46	424.40	1,025.97	3,812.24	3,735.26	76.98	49.519		
11,100.00	7,630.00	7,725.59	7,585.51	105.21	33.65	89.45	424.40	1,025.98	3,821.35	3,743.20	78.14	48.901		
11,200.00	7,630.00	7,725.08	7,584.99	105.06	33.65	89.44	424.39	1,025.98	3,833.04	3,753.71	79.33	48.318		
11,300.00	7,630.00	7,724.56	7,584.48	104.93	33.65	89.43	424.39	1,025.98	3,847.30	3,766.76	80.53	47.774		
11,400.00	7,630.00	7,724.04	7,583.96	104.82	33.65	89.43	424.39	1,025.99	3,864.09	3,782.34	81.74	47.271		
11,500.00	7,630.00	7,723.52	7,583.43	104.72	33.64	89.42	424.39	1,025.99	3,883.38	3,800.42	82.96	46.809		
11,600.00	7,630.00	7,722.99	7,582.91	104.63	33.64	89.41	424.38	1,026.00	3,905.14	3,820.96	84.18	46.390		
11,700.00	7,630.00	7,722.46	7,582.38	104.55	33.64	89.40	424.38	1,026.00	3,929.33	3,843.94	85.39	46.014		
11,800.00	7,630.00	7,721.93	7,581.84	104.50	33.64	89.39	424.38	1,026.01	3,955.90	3,869.30	86.60	45.682		
11,900.00	7,630.00	7,721.39	7,581.30	104.45	33.64	89.39	424.38	1,026.01	3,984.80	3,897.01	87.79	45.392		
12,000.00	7,630.00	7,720.84	7,580.76	104.43	33.64	89.38	424.37	1,026.02	4,015.98	3,927.02	88.96	45.145		
12,100.00	7,630.00	7,720.30	7,580.21	104.42	33.64	89.37	424.37	1,026.02	4,049.39	3,959.29	90.11	44.940		
12,200.00	7,630.00	7,719.74	7,579.66	104.42	33.63	89.36	424.37	1,026.03	4,084.98	3,993.75	91.23	44.775		
12,300.00	7,630.00	7,719.19	7,579.10	104.45	33.63	89.35	424.37	1,026.03	4,122.69	4,030.35	92.33	44.650		
12,400.00	7,630.00	7,718.63	7,578.54	104.49	33.63	89.34	424.36	1,026.04	4,162.46	4,069.05	93.41	44.563		
12,500.00	7,630.00	7,718.07	7,577.98	104.55	33.63	89.34	424.36	1,026.04	4,204.23	4,109.78	94.45	44.513		
12,600.00	7,630.00	7,717.50	7,577.41	104.63	33.63	89.33	424.36	1,026.05	4,247.94	4,152.48	95.46	44.500		
12,700.00	7,630.00	7,716.93	7,576.84	104.73	33.63	89.32	424.36	1,026.06	4,293.54	4,197.10	96.44	44.521		
12,800.00	7,630.00	7,716.35	7,576.26	104.85	33.63	89.31	424.35	1,026.06	4,340.96	4,243.58	97.39	44.575		
12,900.00	7,630.00	7,715.77	7,575.68	104.99	33.62	89.30	424.35	1,026.07	4,390.15	4,291.85	98.30	44.660		
13,000.00	7,630.00	7,715.18	7,575.10	105.15	33.62	89.29	424.35	1,026.07	4,441.05	4,341.87	99.18	44.777		
13,100.00	7,630.00	7,714.59	7,574.51	105.34	33.62	89.28	424.34	1,026.08	4,493.60	4,393.57	100.03	44.923		
13,200.00	7,630.00	7,714.00	7,573.91	105.56	33.62	89.28	424.34	1,026.08	4,547.73	4,446.89	100.84	45.096		
13,300.00	7,630.00	7,713.40	7,573.31	105.80	33.62	89.27	424.34	1,026.09	4,603.41	4,501.78	101.63	45.297		
13,400.00	7,630.00	7,712.79	7,572.71	106.06	33.62	89.26	424.34	1,026.09	4,660.56	4,558.18	102.38	45.523		
13,500.00	7,630.00	7,712.18	7,572.10	106.36	33.61	89.25	424.33	1,026.10	4,719.14	4,616.05	103.10	45.773		
13,600.00	7,630.00	7,711.57	7,571.49	106.68	33.61	89.24	424.33	1,026.11	4,779.10	4,675.31	103.79	46.047		
13,700.00	7,630.00	7,710.95	7,570.87	107.03	33.61	89.23	424.33	1,026.11	4,840.38	4,735.93	104.45	46.343		
13,800.00	7,630.00	7,710.33	7,570.24	107.42	33.61	89.22	424.32	1,026.12	4,902.93	4,797.86	105.08	46.660		
13,900.00	7,630.00	7,709.70	7,569.62	107.83	33.61	89.21	424.32	1,026.12	4,966.71	4,861.03	105.68	46.998		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,630.00	7,709.07	7,568.98	108.28	33.61	89.20	424.32	1,026.13	5,031.67	4,925.41	106.26	47.355		
14,100.00	7,630.00	7,708.43	7,568.34	108.77	33.60	89.19	424.31	1,026.14	5,097.76	4,990.96	106.80	47.730		
14,200.00	7,630.00	7,707.78	7,567.70	109.29	33.60	89.18	424.31	1,026.14	5,164.94	5,057.62	107.33	48.123		
14,300.00	7,630.00	7,707.14	7,567.05	109.84	33.60	89.17	424.31	1,026.15	5,233.18	5,125.35	107.83	48.532		
14,400.00	7,630.00	7,706.48	7,566.40	110.43	33.60	89.16	424.30	1,026.15	5,302.41	5,194.11	108.31	48.958		
14,500.00	7,630.00	7,705.82	7,565.74	111.06	33.60	89.15	424.30	1,026.16	5,372.62	5,263.86	108.76	49.399		
14,600.00	7,630.00	7,705.16	7,565.07	111.72	33.60	89.14	424.30	1,026.17	5,443.76	5,334.57	109.19	49.854		
14,700.00	7,630.00	7,704.49	7,564.40	112.42	33.59	89.13	424.29	1,026.17	5,515.80	5,406.19	109.61	50.323		
14,800.00	7,630.00	7,703.81	7,563.73	113.16	33.59	89.12	424.29	1,026.18	5,588.69	5,478.69	110.00	50.806		
14,900.00	7,630.00	7,703.13	7,563.05	113.94	33.59	89.11	424.29	1,026.19	5,662.42	5,552.04	110.38	51.301		
15,000.00	7,630.00	7,702.44	7,562.36	114.75	33.59	89.10	424.28	1,026.19	5,736.93	5,626.20	110.73	51.808		
15,100.00	7,630.00	7,701.75	7,561.67	115.60	33.59	89.09	424.28	1,026.20	5,812.22	5,701.14	111.07	52.327		
15,200.00	7,630.00	7,701.05	7,560.97	116.48	33.59	89.08	424.27	1,026.21	5,888.24	5,776.84	111.40	52.857		
15,300.00	7,630.00	7,700.35	7,560.26	117.40	33.58	89.07	424.27	1,026.21	5,964.97	5,853.26	111.71	53.398		
15,400.00	7,630.00	7,699.64	7,559.55	118.35	33.58	89.06	424.27	1,026.22	6,042.37	5,930.37	112.00	53.948		
15,500.00	7,630.00	7,698.92	7,558.83	119.34	33.58	89.05	424.26	1,026.23	6,120.44	6,008.15	112.28	54.509		
15,600.00	7,630.00	7,698.20	7,558.11	120.35	33.58	89.04	424.26	1,026.23	6,199.13	6,086.58	112.55	55.078		
15,700.00	7,630.00	7,697.47	7,557.38	121.40	33.58	89.03	424.26	1,026.24	6,278.43	6,165.62	112.81	55.657		
15,800.00	7,630.00	7,696.73	7,556.65	122.48	33.57	89.01	424.25	1,026.25	6,358.31	6,245.26	113.05	56.244		
15,900.00	7,630.00	7,695.99	7,555.91	123.58	33.57	89.00	424.25	1,026.26	6,438.76	6,325.48	113.28	56.839		
16,000.00	7,630.00	7,695.24	7,555.16	124.71	33.57	88.99	424.24	1,026.26	6,519.74	6,406.24	113.50	57.441		
16,100.00	7,630.00	7,694.49	7,554.40	125.87	33.57	88.98	424.24	1,026.27	6,601.25	6,487.54	113.71	58.052		
16,200.00	7,630.00	7,693.73	7,553.64	127.05	33.57	88.97	424.23	1,026.28	6,683.26	6,569.35	113.91	58.669		
16,300.00	7,630.00	7,692.96	7,552.87	128.26	33.56	88.96	424.23	1,026.29	6,765.75	6,651.65	114.11	59.293		
16,400.00	7,630.00	7,692.18	7,552.10	129.48	33.56	88.95	424.23	1,026.29	6,848.71	6,734.42	114.29	59.924		
16,500.00	7,630.00	7,691.40	7,551.32	130.73	33.56	88.93	424.22	1,026.30	6,932.12	6,817.66	114.47	60.561		
16,600.00	7,630.00	7,690.61	7,550.53	132.00	33.56	88.92	424.22	1,026.31	7,015.97	6,901.33	114.63	61.204		
16,700.00	7,630.00	7,689.82	7,549.73	133.29	33.56	88.91	424.21	1,026.32	7,100.23	6,985.44	114.79	61.853		
16,800.00	7,630.00	7,689.01	7,548.93	134.59	33.55	88.90	424.21	1,026.33	7,184.89	7,069.95	114.95	62.507		
16,900.00	7,630.00	7,688.20	7,548.12	135.91	33.55	88.89	424.20	1,026.33	7,269.95	7,154.86	115.09	63.167		
17,000.00	7,630.00	7,687.39	7,547.30	137.25	33.55	88.87	424.20	1,026.34	7,355.38	7,240.15	115.23	63.831		
17,100.00	7,630.00	7,686.56	7,546.48	138.61	33.55	88.86	424.19	1,026.35	7,441.17	7,325.81	115.36	64.501		
17,200.00	7,630.00	7,685.73	7,545.65	139.97	33.55	88.85	424.19	1,026.36	7,527.32	7,411.82	115.49	65.175		
17,300.00	7,630.00	7,684.89	7,544.81	141.36	33.54	88.84	424.18	1,026.37	7,613.80	7,498.18	115.62	65.854		
17,400.00	7,630.00	7,684.04	7,543.96	142.75	33.54	88.82	424.18	1,026.38	7,700.61	7,584.88	115.73	66.538		
17,500.00	7,630.00	7,683.18	7,543.10	144.16	33.54	88.81	424.17	1,026.38	7,787.74	7,671.89	115.85	67.225		
17,600.00	7,630.00	7,682.32	7,542.24	145.58	33.54	88.80	424.17	1,026.39	7,875.17	7,759.22	115.95	67.916		
17,700.00	7,630.00	7,681.45	7,541.37	147.01	33.53	88.78	424.16	1,026.40	7,962.90	7,846.84	116.06	68.612		
17,800.00	7,630.00	7,680.57	7,540.49	148.45	33.53	88.77	424.16	1,026.41	8,050.91	7,934.75	116.16	69.310		
17,900.00	7,630.00	7,679.68	7,539.60	149.91	33.53	88.76	424.15	1,026.42	8,139.20	8,022.95	116.25	70.013		
18,000.00	7,630.00	7,678.78	7,538.70	151.37	33.53	88.74	424.15	1,026.43	8,227.76	8,111.42	116.34	70.719		
18,100.00	7,630.00	7,677.88	7,537.79	152.84	33.52	88.73	424.14	1,026.44	8,316.58	8,200.15	116.43	71.428		
18,200.00	7,630.00	7,676.96	7,536.88	154.32	33.52	88.72	424.14	1,026.45	8,405.65	8,289.13	116.52	72.140		
18,300.00	7,630.00	7,676.04	7,535.96	155.81	33.52	88.70	424.13	1,026.46	8,494.96	8,378.36	116.60	72.856		
18,400.00	7,630.00	7,675.11	7,535.02	157.31	33.52	88.69	424.12	1,026.47	8,584.51	8,467.83	116.68	73.574		
18,500.00	7,630.00	7,674.16	7,534.08	158.81	33.51	88.67	424.12	1,026.48	8,674.29	8,557.53	116.75	74.295		
18,600.00	7,630.00	7,673.21	7,533.13	160.32	33.51	88.66	424.11	1,026.49	8,764.28	8,647.46	116.83	75.019		
18,700.00	7,630.00	7,672.25	7,532.17	161.84	33.51	88.65	424.11	1,026.50	8,854.50	8,737.60	116.90	75.745		
18,800.00	7,630.00	7,672.00	7,531.92	163.37	33.51	88.64	424.11	1,026.50	8,944.92	8,827.95	116.97	76.472		
18,900.00	7,630.00	7,672.00	7,531.92	164.90	33.51	88.64	424.11	1,026.50	9,035.54	8,918.50	117.04	77.202		
19,000.00	7,630.00	7,672.00	7,531.92	166.43	33.51	88.64	424.11	1,026.50	9,126.36	9,009.25	117.10	77.933		
19,100.00	7,630.00	7,672.00	7,531.92	167.98	33.51	88.64	424.11	1,026.50	9,217.37	9,100.20	117.17	78.667		

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

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,672.00	7,531.92	169.53	33.51	88.64	424.11	1,026.50	9,308.56	9,191.33	117.23	79.403	
19,300.00	7,630.00	7,672.00	7,531.92	171.08	33.51	88.64	424.11	1,026.50	9,399.93	9,282.64	117.29	80.141	
19,400.00	7,630.00	7,672.00	7,531.92	172.64	33.51	88.64	424.11	1,026.50	9,491.48	9,374.13	117.35	80.881	
19,500.00	7,630.00	7,672.00	7,531.92	174.21	33.51	88.64	424.11	1,026.50	9,583.19	9,465.78	117.41	81.622	
19,518.56	7,630.00	7,672.00	7,531.92	174.50	33.51	88.64	424.11	1,026.50	9,600.24	9,482.82	117.42	81.760	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	68.09	1,835.16	4,563.73	9,339.74					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.09	1,835.16	4,563.73	9,254.88	9,166.84	88.04	105.123		
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.09	1,835.16	4,563.73	9,170.33	9,081.88	88.45	103.680		
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.09	1,835.16	4,563.73	9,086.09	8,997.20	88.89	102.219		
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.09	1,835.16	4,563.73	9,002.17	8,912.81	89.36	100.740		
500.00	499.98	15,353.00	7,799.48	1.56	138.96	1.45	1,835.16	4,563.73	8,917.64	8,827.78	89.87	99.231		
600.00	599.84	15,353.00	7,799.48	1.92	138.96	1.54	1,835.16	4,563.73	8,831.60	8,741.21	90.39	97.705		
700.00	699.45	15,353.00	7,799.48	2.29	138.96	1.64	1,835.16	4,563.73	8,744.10	8,653.19	90.91	96.187		
800.00	798.70	15,353.00	7,799.48	2.67	138.96	1.75	1,835.16	4,563.73	8,655.21	8,563.80	91.41	94.684		
900.00	897.47	15,353.00	7,799.48	3.07	138.96	1.88	1,835.16	4,563.73	8,565.00	8,473.09	91.90	93.197		
1,000.00	995.62	15,353.00	7,799.48	3.50	138.96	2.04	1,835.16	4,563.73	8,473.53	8,381.15	92.38	91.728		
1,100.00	1,093.06	15,353.00	7,799.48	3.96	138.96	2.22	1,835.16	4,563.73	8,380.88	8,288.05	92.83	90.281		
1,200.00	1,189.64	15,353.00	7,799.48	4.46	138.96	2.44	1,835.16	4,563.73	8,287.13	8,193.86	93.27	88.855		
1,300.00	1,285.27	15,353.00	7,799.48	5.00	138.96	2.71	1,835.16	4,563.73	8,192.35	8,098.67	93.68	87.454		
1,400.00	1,379.82	15,353.00	7,799.48	5.60	138.96	3.04	1,835.16	4,563.73	8,096.62	8,002.56	94.06	86.078		
1,500.00	1,473.17	15,353.00	7,799.48	6.25	138.96	3.46	1,835.16	4,563.73	8,000.03	7,905.61	94.42	84.728		
1,600.00	1,565.21	15,353.00	7,799.48	6.95	138.96	4.02	1,835.16	4,563.73	7,902.66	7,807.91	94.75	83.406		
1,700.00	1,655.84	15,353.00	7,799.48	7.72	138.96	4.78	1,835.16	4,563.73	7,804.62	7,709.57	95.05	82.113		
1,800.00	1,744.94	15,353.00	7,799.48	8.55	138.96	5.90	1,835.16	4,563.73	7,705.99	7,610.67	95.31	80.850		
1,900.00	1,832.39	15,353.00	7,799.48	9.45	138.96	7.67	1,835.16	4,563.73	7,606.87	7,511.32	95.54	79.617		
2,000.00	1,918.11	15,353.00	7,799.48	10.41	138.96	10.90	1,835.16	4,563.73	7,507.37	7,411.63	95.74	78.417		
2,100.00	2,001.97	15,353.00	7,799.48	11.45	138.96	18.54	1,835.16	4,563.73	7,407.59	7,311.70	95.89	77.249		
2,200.00	2,083.88	15,353.00	7,799.48	12.56	138.96	51.40	1,835.16	4,563.73	7,307.65	7,211.65	96.01	76.116		
2,300.00	2,163.74	15,353.00	7,799.48	13.74	138.96	143.60	1,835.16	4,563.73	7,207.67	7,111.59	96.08	75.017		
2,400.00	2,241.45	15,353.00	7,799.48	14.99	138.96	163.97	1,835.16	4,563.73	7,107.77	7,011.66	96.11	73.954		
2,421.22	2,257.65	15,353.00	7,799.48	15.26	138.96	165.71	1,835.16	4,563.73	7,086.59	6,990.48	96.11	73.734		
2,500.00	2,317.63	15,353.00	7,799.48	16.29	138.96	165.71	1,835.16	4,563.73	7,007.99	6,911.88	96.11	72.915		
2,600.00	2,393.75	15,353.00	7,799.48	17.62	138.96	165.71	1,835.16	4,563.73	6,908.23	6,812.11	96.11	71.875		
2,700.00	2,469.88	15,353.00	7,799.48	18.95	138.96	165.71	1,835.16	4,563.73	6,808.47	6,712.35	96.12	70.833		
2,800.00	2,546.01	15,353.00	7,799.48	20.30	138.96	165.71	1,835.16	4,563.73	6,708.72	6,612.59	96.13	69.790		
2,900.00	2,622.13	15,353.00	7,799.48	21.65	138.96	165.71	1,835.16	4,563.73	6,608.97	6,512.84	96.14	68.747		
3,000.00	2,698.26	15,353.00	7,799.48	23.01	138.96	165.71	1,835.16	4,563.73	6,509.24	6,413.09	96.15	67.702		
3,100.00	2,774.38	15,353.00	7,799.48	24.37	138.96	165.71	1,835.16	4,563.73	6,409.51	6,313.35	96.16	66.656		
3,200.00	2,850.51	15,353.00	7,799.48	25.74	138.96	165.71	1,835.16	4,563.73	6,309.79	6,213.62	96.17	65.610		
3,300.00	2,926.64	15,353.00	7,799.48	27.11	138.96	165.71	1,835.16	4,563.73	6,210.08	6,113.89	96.19	64.563		
3,400.00	3,002.76	15,353.00	7,799.48	28.49	138.96	165.71	1,835.16	4,563.73	6,110.38	6,014.18	96.20	63.516		
3,500.00	3,078.89	15,353.00	7,799.48	29.87	138.96	165.71	1,835.16	4,563.73	6,010.69	5,914.47	96.22	62.468		
3,600.00	3,155.02	15,353.00	7,799.48	31.25	138.96	165.71	1,835.16	4,563.73	5,911.01	5,814.77	96.24	61.420		
3,700.00	3,231.14	15,353.00	7,799.48	32.63	138.96	165.71	1,835.16	4,563.73	5,811.34	5,715.08	96.26	60.372		
3,800.00	3,307.27	15,353.00	7,799.48	34.01	138.96	165.71	1,835.16	4,563.73	5,711.68	5,615.40	96.28	59.324		
3,900.00	3,383.39	15,353.00	7,799.48	35.40	138.96	165.71	1,835.16	4,563.73	5,612.04	5,515.74	96.30	58.277		
4,000.00	3,459.52	15,353.00	7,799.48	36.79	138.96	165.71	1,835.16	4,563.73	5,512.40	5,416.08	96.32	57.229		
4,100.00	3,535.65	15,353.00	7,799.48	38.18	138.96	165.71	1,835.16	4,563.73	5,412.78	5,316.44	96.34	56.182		
4,200.00	3,611.77	15,353.00	7,799.48	39.57	138.96	165.71	1,835.16	4,563.73	5,313.18	5,216.81	96.37	55.135		
4,300.00	3,687.90	15,353.00	7,799.48	40.96	138.96	165.71	1,835.16	4,563.73	5,213.59	5,117.20	96.39	54.089		
4,400.00	3,764.02	15,353.00	7,799.48	42.35	138.96	165.71	1,835.16	4,563.73	5,114.02	5,017.60	96.41	53.044		
4,500.00	3,840.15	15,353.00	7,799.48	43.74	138.96	165.71	1,835.16	4,563.73	5,014.46	4,918.03	96.43	51.999		
4,600.00	3,916.28	15,353.00	7,799.48	45.13	138.96	165.71	1,835.16	4,563.73	4,914.92	4,818.46	96.46	50.955		
4,700.00	3,992.40	15,353.00	7,799.48	46.53	138.96	165.71	1,835.16	4,563.73	4,815.40	4,718.92	96.48	49.912		
4,800.00	4,068.53	15,353.00	7,799.48	47.92	138.96	165.71	1,835.16	4,563.73	4,715.90	4,619.40	96.50	48.870		
4,900.00	4,144.66	15,353.00	7,799.48	49.32	138.96	165.71	1,835.16	4,563.73	4,616.42	4,519.90	96.52	47.829		
5,000.00	4,220.78	15,353.00	7,799.48	50.71	138.96	165.71	1,835.16	4,563.73	4,516.97	4,420.43	96.54	46.790		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	15,353.00	7,799.48	52.11	138.96	165.71	1,835.16	4,563.73	4,417.54	4,320.98	96.56	45.751		
5,200.00	4,373.03	15,353.00	7,799.48	53.51	138.96	165.71	1,835.16	4,563.73	4,318.14	4,221.56	96.57	44.715		
5,300.00	4,449.16	15,353.00	7,799.48	54.90	138.96	165.71	1,835.16	4,563.73	4,218.76	4,122.17	96.59	43.679		
5,400.00	4,525.29	15,353.00	7,799.48	56.30	138.96	165.71	1,835.16	4,563.73	4,119.41	4,022.82	96.60	42.645		
5,500.00	4,601.41	15,353.00	7,799.48	57.70	138.96	165.71	1,835.16	4,563.73	4,020.10	3,923.49	96.61	41.613		
5,600.00	4,677.54	15,353.00	7,799.48	59.10	138.96	165.71	1,835.16	4,563.73	3,920.82	3,824.21	96.61	40.582		
5,700.00	4,753.66	15,353.00	7,799.48	60.49	138.96	165.71	1,835.16	4,563.73	3,821.58	3,724.97	96.62	39.553		
5,800.00	4,829.79	15,353.00	7,799.48	61.89	138.96	165.71	1,835.16	4,563.73	3,722.38	3,625.76	96.62	38.526		
5,900.00	4,905.92	15,353.00	7,799.48	63.29	138.96	165.71	1,835.16	4,563.73	3,623.23	3,526.61	96.62	37.501		
6,000.00	4,982.04	15,353.00	7,799.48	64.69	138.96	165.71	1,835.16	4,563.73	3,524.12	3,427.51	96.61	36.478		
6,100.00	5,058.17	15,353.00	7,799.48	66.09	138.96	165.71	1,835.16	4,563.73	3,425.06	3,328.47	96.60	35.457		
6,200.00	5,134.30	15,353.00	7,799.48	67.49	138.96	165.71	1,835.16	4,563.73	3,326.07	3,229.48	96.58	34.438		
6,300.00	5,210.42	15,353.00	7,799.48	68.89	138.96	165.71	1,835.16	4,563.73	3,227.13	3,130.57	96.56	33.421		
6,400.00	5,286.55	15,353.00	7,799.48	70.29	138.96	165.71	1,835.16	4,563.73	3,128.26	3,031.72	96.53	32.406		
6,500.00	5,362.67	15,353.00	7,799.48	71.69	138.96	165.71	1,835.16	4,563.73	3,029.46	2,932.96	96.50	31.393		
6,600.00	5,438.80	15,353.00	7,799.48	73.09	138.96	165.71	1,835.16	4,563.73	2,930.75	2,834.29	96.46	30.383		
6,700.00	5,514.93	15,353.00	7,799.48	74.49	138.96	165.71	1,835.16	4,563.73	2,832.12	2,735.71	96.41	29.376		
6,800.00	5,591.05	15,353.00	7,799.48	75.89	138.96	165.71	1,835.16	4,563.73	2,733.60	2,637.24	96.35	28.370		
6,900.00	5,667.18	15,353.00	7,799.48	77.29	138.96	165.71	1,835.16	4,563.73	2,635.19	2,538.90	96.29	27.367		
7,000.00	5,743.30	15,353.00	7,799.48	78.69	138.96	165.71	1,835.16	4,563.73	2,536.90	2,440.68	96.21	26.367		
7,100.00	5,819.43	15,353.00	7,799.48	80.09	138.96	165.71	1,835.16	4,563.73	2,438.75	2,342.62	96.13	25.370		
7,200.00	5,895.56	15,353.00	7,799.48	81.49	138.96	165.71	1,835.16	4,563.73	2,340.75	2,244.72	96.03	24.375		
7,300.00	5,971.68	15,353.00	7,799.48	82.90	138.96	165.71	1,835.16	4,563.73	2,242.94	2,147.01	95.92	23.383		
7,400.00	6,047.81	15,353.00	7,799.48	84.30	138.96	165.71	1,835.16	4,563.73	2,145.32	2,049.52	95.80	22.393		
7,500.00	6,123.94	15,353.00	7,799.48	85.70	138.96	165.71	1,835.16	4,563.73	2,047.94	1,952.27	95.67	21.407		
7,600.00	6,200.06	15,353.00	7,799.48	87.10	138.96	165.71	1,835.16	4,563.73	1,950.82	1,855.30	95.52	20.424		
7,700.00	6,276.19	15,353.00	7,799.48	88.50	138.96	165.71	1,835.16	4,563.73	1,854.00	1,758.65	95.35	19.444		
7,800.00	6,352.31	15,353.00	7,799.48	89.90	138.96	165.71	1,835.16	4,563.73	1,757.55	1,662.38	95.17	18.467		
7,900.00	6,428.44	15,353.00	7,799.48	91.31	138.96	165.71	1,835.16	4,563.73	1,661.51	1,566.54	94.97	17.494		
8,000.00	6,504.57	15,353.00	7,799.48	92.71	138.96	165.71	1,835.16	4,563.73	1,565.97	1,471.21	94.76	16.525		
8,100.00	6,580.69	15,353.00	7,799.48	94.11	138.96	165.71	1,835.16	4,563.73	1,471.02	1,376.48	94.54	15.560		
8,200.00	6,656.82	15,353.00	7,799.48	95.51	138.96	165.71	1,835.16	4,563.73	1,376.79	1,282.48	94.31	14.599		
8,300.00	6,732.95	15,353.00	7,799.48	96.91	138.96	165.71	1,835.16	4,563.73	1,283.43	1,189.35	94.08	13.642		
8,400.00	6,809.07	15,353.00	7,799.48	98.32	138.96	165.71	1,835.16	4,563.73	1,191.14	1,097.28	93.86	12.691		
8,500.00	6,885.20	15,353.00	7,799.48	99.72	138.96	165.71	1,835.16	4,563.73	1,100.21	1,006.53	93.69	11.744		
8,600.00	6,961.32	15,339.34	7,799.60	101.12	138.72	167.09	1,848.82	4,563.50	1,010.90	918.13	92.77	10.897		
8,700.00	7,037.45	15,314.02	7,799.83	102.52	138.28	169.74	1,874.13	4,563.08	923.16	831.90	91.26	10.115		
8,732.15	7,061.92	15,305.88	7,799.90	102.97	138.14	170.63	1,882.27	4,562.94	895.35	804.52	90.83	9.857		
8,750.00	7,075.57	15,301.63	7,799.94	103.22	138.06	171.83	1,886.52	4,562.87	879.94	789.33	90.61	9.711		
8,800.00	7,114.27	15,303.38	7,800.02	103.91	138.09	175.16	1,895.53	4,562.72	836.61	746.44	90.17	9.278		
8,850.00	7,153.47	15,288.53	7,800.06	104.58	137.84	177.88	1,899.62	4,562.67	793.41	703.62	89.79	8.836		
8,900.00	7,192.85	15,288.13	7,800.07	105.21	137.83	179.70	1,900.02	4,562.66	750.78	661.02	89.76	8.364		
8,950.00	7,232.12	15,291.89	7,800.03	105.80	137.89	-179.68	1,896.26	4,562.72	709.19	619.05	90.14	7.868		
9,000.00	7,270.99	15,299.95	7,799.96	106.35	138.03	179.77	1,888.20	4,562.85	669.10	578.03	91.07	7.347		
9,050.00	7,309.16	15,312.56	7,799.84	106.85	138.25	178.22	1,875.59	4,563.06	630.96	538.25	92.71	6.806		
9,100.00	7,346.32	15,329.34	7,799.69	107.30	138.54	175.94	1,858.82	4,563.33	595.20	500.01	95.19	6.253		
9,150.00	7,382.22	15,350.15	7,799.50	107.69	138.91	173.16	1,838.01	4,563.68	562.21	463.59	98.61	5.701		
9,200.00	7,416.56	15,353.00	7,799.48	108.02	138.96	172.18	1,835.16	4,563.73	532.74	429.59	103.15	5.165		
9,250.00	7,449.09	15,353.00	7,799.48	108.29	138.96	171.21	1,835.16	4,563.73	508.19	398.63	109.57	4.638		
9,300.00	7,479.56	15,353.00	7,799.48	108.51	138.96	169.98	1,835.16	4,563.73	489.51	371.77	117.74	4.157		
9,350.00	7,507.74	15,353.00	7,799.48	108.68	138.96	168.49	1,835.16	4,563.73	477.53	350.44	127.09	3.757		
9,400.00	7,533.41	15,353.00	7,799.48	108.79	138.96	166.74	1,835.16	4,563.73	472.85	336.15	136.70	3.459		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,405.96	7,536.29	15,353.00	7,799.48	108.80	138.96	166.52	1,835.16	4,563.73	472.80	334.98	137.82	3.431	CC	
9,450.00	7,556.39	15,353.00	7,799.48	108.86	138.96	164.70	1,835.16	4,563.73	475.74	330.12	145.62	3.267	ES	
9,500.00	7,576.48	15,353.00	7,799.48	108.88	138.96	162.32	1,835.16	4,563.73	486.02	332.95	153.07	3.175		
9,550.00	7,593.55	15,353.00	7,799.48	108.86	138.96	159.54	1,835.16	4,563.73	503.18	344.55	158.63	3.172	SF	
9,600.00	7,607.46	15,353.00	7,799.48	108.80	138.96	156.29	1,835.16	4,563.73	526.41	364.18	162.23	3.245		
9,650.00	7,618.11	15,353.00	7,799.48	108.71	138.96	152.48	1,835.16	4,563.73	554.80	390.72	164.08	3.381		
9,700.00	7,625.41	15,353.00	7,799.48	108.59	138.96	148.02	1,835.16	4,563.73	587.39	422.93	164.46	3.572		
9,750.00	7,629.30	15,353.00	7,799.48	108.45	138.96	142.84	1,835.16	4,563.73	623.30	459.58	163.72	3.807		
9,781.81	7,630.00	15,353.00	7,799.48	108.35	138.96	139.16	1,835.16	4,563.73	647.51	484.71	162.79	3.977		
9,800.00	7,630.00	15,353.00	7,799.48	108.29	138.96	139.16	1,835.16	4,563.73	661.71	499.53	162.18	4.080		
9,900.00	7,630.00	15,353.00	7,799.48	107.97	138.96	139.16	1,835.16	4,563.73	742.89	584.08	158.81	4.678		
10,000.00	7,630.00	15,353.00	7,799.48	107.67	138.96	139.16	1,835.16	4,563.73	828.20	672.55	155.65	5.321		
10,100.00	7,630.00	15,353.00	7,799.48	107.38	138.96	139.16	1,835.16	4,563.73	916.48	763.64	152.84	5.996		
10,200.00	7,630.00	15,353.00	7,799.48	107.10	138.96	139.16	1,835.16	4,563.73	1,006.96	856.57	150.39	6.696		
10,300.00	7,630.00	15,353.00	7,799.48	106.84	138.96	139.16	1,835.16	4,563.73	1,099.09	950.82	148.27	7.413		
10,400.00	7,630.00	15,353.00	7,799.48	106.59	138.96	139.16	1,835.16	4,563.73	1,192.49	1,046.03	146.45	8.142		
10,500.00	7,630.00	15,353.00	7,799.48	106.35	138.96	139.16	1,835.16	4,563.73	1,286.88	1,141.99	144.89	8.882		
10,600.00	7,630.00	15,353.00	7,799.48	106.13	138.96	139.16	1,835.16	4,563.73	1,382.06	1,238.51	143.54	9.628		
10,700.00	7,630.00	15,353.00	7,799.48	105.92	138.96	139.16	1,835.16	4,563.73	1,477.87	1,335.49	142.38	10.380		
10,800.00	7,630.00	15,353.00	7,799.48	105.72	138.96	139.16	1,835.16	4,563.73	1,574.21	1,432.84	141.37	11.136		
10,900.00	7,630.00	15,353.00	7,799.48	105.54	138.96	139.16	1,835.16	4,563.73	1,670.98	1,530.49	140.48	11.894		
11,000.00	7,630.00	15,353.00	7,799.48	105.37	138.96	139.16	1,835.16	4,563.73	1,768.10	1,628.39	139.71	12.655		
11,100.00	7,630.00	15,353.00	7,799.48	105.21	138.96	139.16	1,835.16	4,563.73	1,865.53	1,726.50	139.03	13.418		
11,200.00	7,630.00	15,353.00	7,799.48	105.06	138.96	139.16	1,835.16	4,563.73	1,963.22	1,824.79	138.43	14.182		
11,300.00	7,630.00	15,353.00	7,799.48	104.93	138.96	139.16	1,835.16	4,563.73	2,061.13	1,923.23	137.90	14.947		
11,400.00	7,630.00	15,353.00	7,799.48	104.82	138.96	139.16	1,835.16	4,563.73	2,159.24	2,021.81	137.43	15.712		
11,500.00	7,630.00	15,353.00	7,799.48	104.72	138.96	139.16	1,835.16	4,563.73	2,257.50	2,120.50	137.00	16.478		
11,600.00	7,630.00	15,353.00	7,799.48	104.63	138.96	139.16	1,835.16	4,563.73	2,355.92	2,219.30	136.62	17.244		
11,700.00	7,630.00	15,353.00	7,799.48	104.55	138.96	139.16	1,835.16	4,563.73	2,454.46	2,318.18	136.28	18.011		
11,800.00	7,630.00	15,353.00	7,799.48	104.50	138.96	139.16	1,835.16	4,563.73	2,553.12	2,417.15	135.97	18.777		
11,900.00	7,630.00	15,353.00	7,799.48	104.45	138.96	139.16	1,835.16	4,563.73	2,651.87	2,516.19	135.69	19.544		
12,000.00	7,630.00	15,353.00	7,799.48	104.43	138.96	139.16	1,835.16	4,563.73	2,750.72	2,615.29	135.43	20.310		
12,100.00	7,630.00	15,353.00	7,799.48	104.42	138.96	139.16	1,835.16	4,563.73	2,849.65	2,714.45	135.20	21.077		
12,200.00	7,630.00	15,353.00	7,799.48	104.42	138.96	139.16	1,835.16	4,563.73	2,948.65	2,813.66	134.99	21.843		
12,300.00	7,630.00	15,353.00	7,799.48	104.45	138.96	139.16	1,835.16	4,563.73	3,047.71	2,912.92	134.80	22.610		
12,400.00	7,630.00	15,353.00	7,799.48	104.49	138.96	139.16	1,835.16	4,563.73	3,146.84	3,012.22	134.62	23.376		
12,500.00	7,630.00	15,353.00	7,799.48	104.55	138.96	139.16	1,835.16	4,563.73	3,246.01	3,111.56	134.45	24.142		
12,600.00	7,630.00	15,353.00	7,799.48	104.63	138.96	139.16	1,835.16	4,563.73	3,345.24	3,210.94	134.30	24.908		
12,700.00	7,630.00	15,353.00	7,799.48	104.73	138.96	139.16	1,835.16	4,563.73	3,444.51	3,310.35	134.16	25.674		
12,800.00	7,630.00	15,353.00	7,799.48	104.85	138.96	139.16	1,835.16	4,563.73	3,543.82	3,409.79	134.03	26.440		
12,900.00	7,630.00	15,353.00	7,799.48	104.99	138.96	139.16	1,835.16	4,563.73	3,643.17	3,509.26	133.91	27.205		
13,000.00	7,630.00	15,353.00	7,799.48	105.15	138.96	139.16	1,835.16	4,563.73	3,742.56	3,608.75	133.80	27.970		
13,100.00	7,630.00	15,353.00	7,799.48	105.34	138.96	139.16	1,835.16	4,563.73	3,841.97	3,708.27	133.70	28.736		
13,200.00	7,630.00	15,353.00	7,799.48	105.56	138.96	139.16	1,835.16	4,563.73	3,941.42	3,807.81	133.61	29.500		
13,300.00	7,630.00	15,353.00	7,799.48	105.80	138.96	139.16	1,835.16	4,563.73	4,040.89	3,907.38	133.52	30.265		
13,400.00	7,630.00	15,353.00	7,799.48	106.06	138.96	139.16	1,835.16	4,563.73	4,140.39	4,006.96	133.43	31.030		
13,500.00	7,630.00	15,353.00	7,799.48	106.36	138.96	139.16	1,835.16	4,563.73	4,239.91	4,106.56	133.36	31.794		
13,600.00	7,630.00	15,353.00	7,799.48	106.68	138.96	139.16	1,835.16	4,563.73	4,339.46	4,206.18	133.28	32.558		
13,700.00	7,630.00	15,353.00	7,799.48	107.03	138.96	139.16	1,835.16	4,563.73	4,439.02	4,305.81	133.22	33.322		
13,800.00	7,630.00	15,353.00	7,799.48	107.42	138.96	139.16	1,835.16	4,563.73	4,538.61	4,405.45	133.15	34.086		
13,900.00	7,630.00	15,353.00	7,799.48	107.83	138.96	139.16	1,835.16	4,563.73	4,638.21	4,505.12	133.09	34.849		
14,000.00	7,630.00	15,353.00	7,799.48	108.28	138.96	139.16	1,835.16	4,563.73	4,737.83	4,604.79	133.04	35.612		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	15,353.00	7,799.48	108.77	138.96	139.16	1,835.16	4,563.73	4,837.46	4,704.48	132.99	36.375		
14,200.00	7,630.00	15,353.00	7,799.48	109.29	138.96	139.16	1,835.16	4,563.73	4,937.11	4,804.17	132.94	37.138		
14,300.00	7,630.00	15,353.00	7,799.48	109.84	138.96	139.16	1,835.16	4,563.73	5,036.77	4,903.88	132.89	37.901		
14,400.00	7,630.00	15,353.00	7,799.48	110.43	138.96	139.16	1,835.16	4,563.73	5,136.45	5,003.60	132.85	38.663		
14,500.00	7,630.00	15,353.00	7,799.48	111.06	138.96	139.16	1,835.16	4,563.73	5,236.14	5,103.33	132.81	39.425		
14,600.00	7,630.00	15,353.00	7,799.48	111.72	138.96	139.16	1,835.16	4,563.73	5,335.84	5,203.06	132.77	40.187		
14,700.00	7,630.00	15,353.00	7,799.48	112.42	138.96	139.16	1,835.16	4,563.73	5,435.55	5,302.81	132.74	40.949		
14,800.00	7,630.00	15,353.00	7,799.48	113.16	138.96	139.16	1,835.16	4,563.73	5,535.27	5,402.56	132.71	41.710		
14,900.00	7,630.00	15,353.00	7,799.48	113.94	138.96	139.16	1,835.16	4,563.73	5,635.00	5,502.33	132.68	42.472		
15,000.00	7,630.00	15,353.00	7,799.48	114.75	138.96	139.16	1,835.16	4,563.73	5,734.74	5,602.10	132.65	43.233		
15,100.00	7,630.00	15,353.00	7,799.48	115.60	138.96	139.16	1,835.16	4,563.73	5,834.49	5,701.87	132.62	43.993		
15,200.00	7,630.00	15,353.00	7,799.48	116.48	138.96	139.16	1,835.16	4,563.73	5,934.25	5,801.65	132.60	44.754		
15,300.00	7,630.00	15,353.00	7,799.48	117.40	138.96	139.16	1,835.16	4,563.73	6,034.02	5,901.44	132.57	45.514		
15,400.00	7,630.00	15,353.00	7,799.48	118.35	138.96	139.16	1,835.16	4,563.73	6,133.79	6,001.24	132.55	46.274		
15,500.00	7,630.00	15,353.00	7,799.48	119.34	138.96	139.16	1,835.16	4,563.73	6,233.57	6,101.04	132.53	47.034		
15,600.00	7,630.00	15,353.00	7,799.48	120.35	138.96	139.16	1,835.16	4,563.73	6,333.36	6,200.84	132.52	47.793		
15,700.00	7,630.00	15,353.00	7,799.48	121.40	138.96	139.16	1,835.16	4,563.73	6,433.15	6,300.66	132.50	48.553		
15,800.00	7,630.00	15,353.00	7,799.48	122.48	138.96	139.16	1,835.16	4,563.73	6,532.96	6,400.47	132.48	49.312		
15,900.00	7,630.00	15,353.00	7,799.48	123.58	138.96	139.16	1,835.16	4,563.73	6,632.76	6,500.29	132.47	50.070		
16,000.00	7,630.00	15,353.00	7,799.48	124.71	138.96	139.16	1,835.16	4,563.73	6,732.57	6,600.12	132.46	50.829		
16,100.00	7,630.00	15,353.00	7,799.48	125.87	138.96	139.16	1,835.16	4,563.73	6,832.39	6,699.95	132.44	51.587		
16,200.00	7,630.00	15,353.00	7,799.48	127.05	138.96	139.16	1,835.16	4,563.73	6,932.22	6,799.78	132.43	52.345		
16,300.00	7,630.00	15,353.00	7,799.48	128.26	138.96	139.16	1,835.16	4,563.73	7,032.04	6,899.62	132.42	53.102		
16,400.00	7,630.00	15,353.00	7,799.48	129.48	138.96	139.16	1,835.16	4,563.73	7,131.88	6,999.46	132.42	53.860		
16,500.00	7,630.00	15,353.00	7,799.48	130.73	138.96	139.16	1,835.16	4,563.73	7,231.71	7,099.31	132.41	54.617		
16,600.00	7,630.00	15,353.00	7,799.48	132.00	138.96	139.16	1,835.16	4,563.73	7,331.56	7,199.16	132.40	55.374		
16,700.00	7,630.00	15,353.00	7,799.48	133.29	138.96	139.16	1,835.16	4,563.73	7,431.40	7,299.01	132.40	56.130		
16,800.00	7,630.00	15,353.00	7,799.48	134.59	138.96	139.16	1,835.16	4,563.73	7,531.25	7,398.86	132.39	56.886		
16,900.00	7,630.00	15,353.00	7,799.48	135.91	138.96	139.16	1,835.16	4,563.73	7,631.11	7,498.72	132.39	57.642		
17,000.00	7,630.00	15,353.00	7,799.48	137.25	138.96	139.16	1,835.16	4,563.73	7,730.97	7,598.58	132.39	58.398		
17,100.00	7,630.00	15,353.00	7,799.48	138.61	138.96	139.16	1,835.16	4,563.73	7,830.83	7,698.44	132.38	59.153		
17,200.00	7,630.00	15,353.00	7,799.48	139.97	138.96	139.16	1,835.16	4,563.73	7,930.69	7,798.31	132.38	59.908		
17,300.00	7,630.00	15,353.00	7,799.48	141.36	138.96	139.16	1,835.16	4,563.73	8,030.56	7,898.18	132.38	60.662		
17,400.00	7,630.00	15,353.00	7,799.48	142.75	138.96	139.16	1,835.16	4,563.73	8,130.43	7,998.05	132.38	61.417		
17,500.00	7,630.00	15,353.00	7,799.48	144.16	138.96	139.16	1,835.16	4,563.73	8,230.31	8,097.93	132.38	62.171		
17,600.00	7,630.00	15,353.00	7,799.48	145.58	138.96	139.16	1,835.16	4,563.73	8,330.19	8,197.80	132.38	62.924		
17,700.00	7,630.00	15,353.00	7,799.48	147.01	138.96	139.16	1,835.16	4,563.73	8,430.07	8,297.68	132.39	63.678		
17,800.00	7,630.00	15,353.00	7,799.48	148.45	138.96	139.16	1,835.16	4,563.73	8,529.95	8,397.56	132.39	64.431		
17,900.00	7,630.00	15,353.00	7,799.48	149.91	138.96	139.16	1,835.16	4,563.73	8,629.84	8,497.44	132.39	65.183		
18,000.00	7,630.00	15,353.00	7,799.48	151.37	138.96	139.16	1,835.16	4,563.73	8,729.73	8,597.33	132.40	65.936		
18,100.00	7,630.00	15,353.00	7,799.48	152.84	138.96	139.16	1,835.16	4,563.73	8,829.62	8,697.21	132.40	66.688		
18,200.00	7,630.00	15,353.00	7,799.48	154.32	138.96	139.16	1,835.16	4,563.73	8,929.51	8,797.10	132.41	67.439		
18,300.00	7,630.00	15,353.00	7,799.48	155.81	138.96	139.16	1,835.16	4,563.73	9,029.41	8,896.99	132.41	68.191		
18,400.00	7,630.00	15,353.00	7,799.48	157.31	138.96	139.16	1,835.16	4,563.73	9,129.31	8,996.88	132.42	68.942		
18,500.00	7,630.00	15,353.00	7,799.48	158.81	138.96	139.16	1,835.16	4,563.73	9,229.21	9,096.78	132.43	69.692		
18,600.00	7,630.00	15,353.00	7,799.48	160.32	138.96	139.16	1,835.16	4,563.73	9,329.11	9,196.67	132.44	70.442		
18,700.00	7,630.00	15,353.00	7,799.48	161.84	138.96	139.16	1,835.16	4,563.73	9,429.01	9,296.57	132.44	71.192		
18,800.00	7,630.00	15,353.00	7,799.48	163.37	138.96	139.16	1,835.16	4,563.73	9,528.92	9,396.47	132.45	71.942		
18,900.00	7,630.00	15,353.00	7,799.48	164.90	138.96	139.16	1,835.16	4,563.73	9,628.83	9,496.37	132.46	72.691		
19,000.00	7,630.00	15,353.00	7,799.48	166.43	138.96	139.16	1,835.16	4,563.73	9,728.74	9,596.27	132.47	73.440		
19,100.00	7,630.00	15,353.00	7,799.48	167.98	138.96	139.16	1,835.16	4,563.73	9,828.65	9,696.17	132.48	74.188		
19,200.00	7,630.00	15,353.00	7,799.48	169.53	138.96	139.16	1,835.16	4,563.73	9,928.57	9,796.07	132.49	74.936		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	69.37	1,844.58	4,899.42	9,400.91					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.37	1,844.58	4,899.42	9,318.02	9,227.17	90.85	102.570		
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.37	1,844.58	4,899.42	9,235.46	9,144.18	91.29	101.168		
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.37	1,844.58	4,899.42	9,153.26	9,061.49	91.76	99.747		
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.37	1,844.58	4,899.42	9,071.41	8,979.13	92.28	98.308		
500.00	499.98	15,243.00	7,668.35	1.56	138.66	2.78	1,844.58	4,899.42	8,988.93	8,896.10	92.82	96.839		
600.00	599.84	15,243.00	7,668.35	1.92	138.66	2.94	1,844.58	4,899.42	8,904.86	8,811.47	93.39	95.350		
700.00	699.45	15,243.00	7,668.35	2.29	138.66	3.11	1,844.58	4,899.42	8,819.26	8,725.31	93.95	93.870		
800.00	798.70	15,243.00	7,668.35	2.67	138.66	3.31	1,844.58	4,899.42	8,732.19	8,637.69	94.50	92.402		
900.00	897.47	15,243.00	7,668.35	3.07	138.66	3.54	1,844.58	4,899.42	8,643.72	8,548.68	95.04	90.948		
1,000.00	995.62	15,243.00	7,668.35	3.50	138.66	3.80	1,844.58	4,899.42	8,553.90	8,458.34	95.56	89.512		
1,100.00	1,093.06	15,243.00	7,668.35	3.96	138.66	4.10	1,844.58	4,899.42	8,462.81	8,366.75	96.07	88.094		
1,200.00	1,189.64	15,243.00	7,668.35	4.46	138.66	4.46	1,844.58	4,899.42	8,370.52	8,273.97	96.55	86.697		
1,300.00	1,285.27	15,243.00	7,668.35	5.00	138.66	4.89	1,844.58	4,899.42	8,277.11	8,180.10	97.01	85.321		
1,400.00	1,379.82	15,243.00	7,668.35	5.60	138.66	5.40	1,844.58	4,899.42	8,182.65	8,085.20	97.45	83.968		
1,500.00	1,473.17	15,243.00	7,668.35	6.25	138.66	6.04	1,844.58	4,899.42	8,087.21	7,989.35	97.86	82.639		
1,600.00	1,565.21	15,243.00	7,668.35	6.95	138.66	6.85	1,844.58	4,899.42	7,990.90	7,892.65	98.25	81.336		
1,700.00	1,655.84	15,243.00	7,668.35	7.72	138.66	7.89	1,844.58	4,899.42	7,893.78	7,795.18	98.60	80.058		
1,800.00	1,744.94	15,243.00	7,668.35	8.55	138.66	9.30	1,844.58	4,899.42	7,795.96	7,697.03	98.92	78.807		
1,900.00	1,832.39	15,243.00	7,668.35	9.45	138.66	11.30	1,844.58	4,899.42	7,697.52	7,598.31	99.22	77.584		
2,000.00	1,918.11	15,243.00	7,668.35	10.41	138.66	14.35	1,844.58	4,899.42	7,598.57	7,499.10	99.47	76.390		
2,100.00	2,001.97	15,243.00	7,668.35	11.45	138.66	19.49	1,844.58	4,899.42	7,499.21	7,399.52	99.69	75.226		
2,200.00	2,083.88	15,243.00	7,668.35	12.56	138.66	29.70	1,844.58	4,899.42	7,399.54	7,299.67	99.87	74.093		
2,300.00	2,163.74	15,243.00	7,668.35	13.74	138.66	55.31	1,844.58	4,899.42	7,299.68	7,199.68	100.01	72.992		
2,400.00	2,241.45	15,243.00	7,668.35	14.99	138.66	109.53	1,844.58	4,899.42	7,199.74	7,099.64	100.10	71.923		
2,421.22	2,257.65	15,243.00	7,668.35	15.26	138.66	119.90	1,844.58	4,899.42	7,178.54	7,078.42	100.12	71.701		
2,500.00	2,317.63	15,243.00	7,668.35	16.29	138.66	119.90	1,844.58	4,899.42	7,099.82	6,999.65	100.17	70.877		
2,600.00	2,393.75	15,243.00	7,668.35	17.62	138.66	119.90	1,844.58	4,899.42	6,999.90	6,899.66	100.24	69.831		
2,700.00	2,469.88	15,243.00	7,668.35	18.95	138.66	119.90	1,844.58	4,899.42	6,899.98	6,799.66	100.31	68.783		
2,800.00	2,546.01	15,243.00	7,668.35	20.30	138.66	119.90	1,844.58	4,899.42	6,800.06	6,699.67	100.39	67.735		
2,900.00	2,622.13	15,243.00	7,668.35	21.65	138.66	119.90	1,844.58	4,899.42	6,700.14	6,599.67	100.47	66.686		
3,000.00	2,698.26	15,243.00	7,668.35	23.01	138.66	119.90	1,844.58	4,899.42	6,600.23	6,499.68	100.56	65.636		
3,100.00	2,774.38	15,243.00	7,668.35	24.37	138.66	119.90	1,844.58	4,899.42	6,500.32	6,399.68	100.65	64.586		
3,200.00	2,850.51	15,243.00	7,668.35	25.74	138.66	119.90	1,844.58	4,899.42	6,400.42	6,299.68	100.74	63.536		
3,300.00	2,926.64	15,243.00	7,668.35	27.11	138.66	119.90	1,844.58	4,899.42	6,300.51	6,199.68	100.83	62.486		
3,400.00	3,002.76	15,243.00	7,668.35	28.49	138.66	119.90	1,844.58	4,899.42	6,200.61	6,099.68	100.93	61.435		
3,500.00	3,078.89	15,243.00	7,668.35	29.87	138.66	119.90	1,844.58	4,899.42	6,100.71	5,999.68	101.03	60.384		
3,600.00	3,155.02	15,243.00	7,668.35	31.25	138.66	119.90	1,844.58	4,899.42	6,000.82	5,899.68	101.14	59.334		
3,700.00	3,231.14	15,243.00	7,668.35	32.63	138.66	119.90	1,844.58	4,899.42	5,900.93	5,799.68	101.25	58.283		
3,800.00	3,307.27	15,243.00	7,668.35	34.01	138.66	119.90	1,844.58	4,899.42	5,801.04	5,699.69	101.36	57.233		
3,900.00	3,383.39	15,243.00	7,668.35	35.40	138.66	119.90	1,844.58	4,899.42	5,701.16	5,599.69	101.47	56.183		
4,000.00	3,459.52	15,243.00	7,668.35	36.79	138.66	119.90	1,844.58	4,899.42	5,601.28	5,499.69	101.59	55.134		
4,100.00	3,535.65	15,243.00	7,668.35	38.18	138.66	119.90	1,844.58	4,899.42	5,501.41	5,399.69	101.72	54.085		
4,200.00	3,611.77	15,243.00	7,668.35	39.57	138.66	119.90	1,844.58	4,899.42	5,401.54	5,299.70	101.84	53.037		
4,300.00	3,687.90	15,243.00	7,668.35	40.96	138.66	119.90	1,844.58	4,899.42	5,301.68	5,199.70	101.98	51.990		
4,400.00	3,764.02	15,243.00	7,668.35	42.35	138.66	119.90	1,844.58	4,899.42	5,201.82	5,099.71	102.11	50.943		
4,500.00	3,840.15	15,243.00	7,668.35	43.74	138.66	119.90	1,844.58	4,899.42	5,101.96	4,999.71	102.25	49.898		
4,600.00	3,916.28	15,243.00	7,668.35	45.13	138.66	119.90	1,844.58	4,899.42	5,002.12	4,899.72	102.39	48.853		
4,700.00	3,992.40	15,243.00	7,668.35	46.53	138.66	119.90	1,844.58	4,899.42	4,902.27	4,799.74	102.54	47.809		
4,800.00	4,068.53	15,243.00	7,668.35	47.92	138.66	119.90	1,844.58	4,899.42	4,802.44	4,699.75	102.69	46.767		
4,900.00	4,144.66	15,243.00	7,668.35	49.32	138.66	119.90	1,844.58	4,899.42	4,702.61	4,599.77	102.84	45.725		
5,000.00	4,220.78	15,243.00	7,668.35	50.71	138.66	119.90	1,844.58	4,899.42	4,602.79	4,499.79	103.00	44.685		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	15,243.00	7,668.35	52.11	138.66	119.90	1,844.58	4,899.42	4,502.98	4,399.81	103.17	43.646		
5,200.00	4,373.03	15,243.00	7,668.35	53.51	138.66	119.90	1,844.58	4,899.42	4,403.17	4,299.83	103.34	42.609		
5,300.00	4,449.16	15,243.00	7,668.35	54.90	138.66	119.90	1,844.58	4,899.42	4,303.38	4,199.87	103.51	41.573		
5,400.00	4,525.29	15,243.00	7,668.35	56.30	138.66	119.90	1,844.58	4,899.42	4,203.59	4,099.90	103.69	40.539		
5,500.00	4,601.41	15,243.00	7,668.35	57.70	138.66	119.90	1,844.58	4,899.42	4,103.82	3,999.94	103.88	39.506		
5,600.00	4,677.54	15,243.00	7,668.35	59.10	138.66	119.90	1,844.58	4,899.42	4,004.06	3,899.99	104.07	38.475		
5,700.00	4,753.66	15,243.00	7,668.35	60.49	138.66	119.90	1,844.58	4,899.42	3,904.30	3,800.04	104.27	37.445		
5,800.00	4,829.79	15,243.00	7,668.35	61.89	138.66	119.90	1,844.58	4,899.42	3,804.57	3,700.09	104.47	36.417		
5,900.00	4,905.92	15,243.00	7,668.35	63.29	138.66	119.90	1,844.58	4,899.42	3,704.84	3,600.16	104.68	35.391		
6,000.00	4,982.04	15,243.00	7,668.35	64.69	138.66	119.90	1,844.58	4,899.42	3,605.13	3,500.23	104.90	34.367		
6,100.00	5,058.17	15,243.00	7,668.35	66.09	138.66	119.90	1,844.58	4,899.42	3,505.44	3,400.31	105.13	33.344		
6,200.00	5,134.30	15,243.00	7,668.35	67.49	138.66	119.90	1,844.58	4,899.42	3,405.77	3,300.40	105.36	32.324		
6,300.00	5,210.42	15,243.00	7,668.35	68.89	138.66	119.90	1,844.58	4,899.42	3,306.11	3,200.50	105.61	31.305		
6,400.00	5,286.55	15,243.00	7,668.35	70.29	138.66	119.90	1,844.58	4,899.42	3,206.48	3,100.61	105.86	30.289		
6,500.00	5,362.67	15,243.00	7,668.35	71.69	138.66	119.90	1,844.58	4,899.42	3,106.87	3,000.74	106.13	29.274		
6,600.00	5,438.80	15,243.00	7,668.35	73.09	138.66	119.90	1,844.58	4,899.42	3,007.28	2,900.88	106.41	28.262		
6,700.00	5,514.93	15,243.00	7,668.35	74.49	138.66	119.90	1,844.58	4,899.42	2,907.73	2,801.03	106.70	27.251		
6,800.00	5,591.05	15,243.00	7,668.35	75.89	138.66	119.90	1,844.58	4,899.42	2,808.21	2,701.20	107.01	26.243		
6,900.00	5,667.18	15,243.00	7,668.35	77.29	138.66	119.90	1,844.58	4,899.42	2,708.72	2,601.39	107.33	25.237		
7,000.00	5,743.30	15,243.00	7,668.35	78.69	138.66	119.90	1,844.58	4,899.42	2,609.27	2,501.59	107.67	24.233		
7,100.00	5,819.43	15,243.00	7,668.35	80.09	138.66	119.90	1,844.58	4,899.42	2,509.86	2,401.83	108.04	23.231		
7,200.00	5,895.56	15,243.00	7,668.35	81.49	138.66	119.90	1,844.58	4,899.42	2,410.51	2,302.08	108.42	22.232		
7,300.00	5,971.68	15,243.00	7,668.35	82.90	138.66	119.90	1,844.58	4,899.42	2,311.21	2,202.37	108.84	21.235		
7,400.00	6,047.81	15,243.00	7,668.35	84.30	138.66	119.90	1,844.58	4,899.42	2,211.97	2,102.69	109.28	20.241		
7,500.00	6,123.94	15,243.00	7,668.35	85.70	138.66	119.90	1,844.58	4,899.42	2,112.80	2,003.04	109.76	19.249		
7,600.00	6,200.06	15,243.00	7,668.35	87.10	138.66	119.90	1,844.58	4,899.42	2,013.72	1,903.43	110.28	18.259		
7,700.00	6,276.19	15,243.00	7,668.35	88.50	138.66	119.90	1,844.58	4,899.42	1,914.73	1,803.88	110.85	17.273		
7,800.00	6,352.31	15,243.00	7,668.35	89.90	138.66	119.90	1,844.58	4,899.42	1,815.85	1,704.38	111.48	16.289		
7,900.00	6,428.44	15,243.00	7,668.35	91.31	138.66	119.90	1,844.58	4,899.42	1,717.11	1,604.94	112.16	15.309		
8,000.00	6,504.57	15,243.00	7,668.35	92.71	138.66	119.90	1,844.58	4,899.42	1,618.51	1,505.58	112.93	14.332		
8,100.00	6,580.69	15,243.00	7,668.35	94.11	138.66	119.90	1,844.58	4,899.42	1,520.10	1,406.32	113.79	13.359		
8,200.00	6,656.82	15,243.00	7,668.35	95.51	138.66	119.90	1,844.58	4,899.42	1,421.92	1,307.16	114.75	12.391		
8,300.00	6,732.95	15,243.00	7,668.35	96.91	138.66	119.90	1,844.58	4,899.42	1,324.00	1,208.15	115.85	11.428		
8,400.00	6,809.07	15,243.00	7,668.35	98.32	138.66	119.90	1,844.58	4,899.42	1,226.42	1,109.31	117.11	10.472		
8,500.00	6,885.20	15,238.00	7,668.31	99.72	138.57	120.12	1,849.58	4,899.31	1,129.25	1,011.08	118.17	9.556		
8,600.00	6,961.32	15,214.31	7,668.13	101.12	138.16	121.28	1,873.27	4,898.77	1,032.25	914.49	117.76	8.765		
8,700.00	7,037.45	15,190.62	7,667.95	102.52	137.75	122.66	1,896.95	4,898.24	935.28	818.02	117.26	7.976		
8,732.15	7,061.92	15,193.00	7,667.89	102.97	137.79	123.17	1,904.56	4,898.07	904.12	786.93	117.19	7.715		
8,750.00	7,075.57	15,180.62	7,667.88	103.22	137.57	123.39	1,906.95	4,898.02	886.76	769.64	117.12	7.571		
8,800.00	7,114.27	15,173.74	7,667.84	103.91	137.45	129.02	1,913.82	4,897.87	837.59	720.64	116.94	7.162		
8,850.00	7,153.47	15,170.36	7,667.82	104.58	137.39	155.94	1,917.20	4,897.80	787.89	671.24	116.65	6.754		
8,900.00	7,192.85	15,170.61	7,667.83	105.21	137.40	-150.47	1,916.95	4,897.81	738.05	621.82	116.24	6.350		
8,950.00	7,232.12	15,174.60	7,667.84	105.80	137.47	-130.12	1,912.97	4,897.89	688.44	572.74	115.70	5.950		
9,000.00	7,270.99	15,182.41	7,667.89	106.35	137.60	-126.51	1,905.15	4,898.06	639.46	524.43	115.03	5.559		
9,050.00	7,309.16	15,194.98	7,667.98	106.85	137.82	-127.68	1,892.59	4,898.34	591.49	477.14	114.35	5.173		
9,100.00	7,346.32	15,212.54	7,668.12	107.30	138.13	-130.40	1,875.03	4,898.73	544.90	431.16	113.74	4.791		
9,150.00	7,382.22	15,234.12	7,668.28	107.69	138.50	-133.56	1,853.46	4,899.22	500.05	386.97	113.07	4.422		
9,200.00	7,416.56	15,243.00	7,668.35	108.02	138.66	-136.15	1,844.58	4,899.42	457.56	348.17	109.39	4.183		
9,250.00	7,449.09	15,243.00	7,668.35	108.29	138.66	-138.43	1,844.58	4,899.42	419.37	315.68	103.69	4.044		
9,300.00	7,479.56	15,243.00	7,668.35	108.51	138.66	-140.64	1,844.58	4,899.42	387.18	286.42	100.76	3.843		
9,350.00	7,507.74	15,243.00	7,668.35	108.68	138.66	-142.71	1,844.58	4,899.42	362.87	258.65	104.22	3.482		
9,400.00	7,533.41	15,243.00	7,668.35	108.79	138.66	-144.60	1,844.58	4,899.42	348.28	236.84	111.43	3.125		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,440.28	7,552.14	15,243.00	7,668.35	108.84	138.66	-146.01	1,844.58	4,899.42	344.54	226.98	117.57	2.931	CC	
9,450.00	7,556.39	15,243.00	7,668.35	108.86	138.66	-146.34	1,844.58	4,899.42	344.76	225.82	118.95	2.898	ES	
9,500.00	7,576.48	15,243.00	7,668.35	108.88	138.66	-147.95	1,844.58	4,899.42	352.69	227.70	124.99	2.822	SF	
9,550.00	7,593.55	15,243.00	7,668.35	108.86	138.66	-149.48	1,844.58	4,899.42	371.26	242.21	129.04	2.877		
9,600.00	7,607.46	15,243.00	7,668.35	108.80	138.66	-150.99	1,844.58	4,899.42	398.86	267.45	131.42	3.035		
9,650.00	7,618.11	15,243.00	7,668.35	108.71	138.66	-152.60	1,844.58	4,899.42	433.60	300.91	132.69	3.268		
9,700.00	7,625.41	15,243.00	7,668.35	108.59	138.66	-154.47	1,844.58	4,899.42	473.66	340.31	133.35	3.552		
9,750.00	7,629.30	15,243.00	7,668.35	108.45	138.66	-156.92	1,844.58	4,899.42	517.56	383.84	133.71	3.871		
9,781.81	7,630.00	15,243.00	7,668.35	108.35	138.66	-159.08	1,844.58	4,899.42	546.91	413.04	133.87	4.085		
9,800.00	7,630.00	15,243.00	7,668.35	108.29	138.66	-159.08	1,844.58	4,899.42	564.00	430.06	133.94	4.211		
9,900.00	7,630.00	15,243.00	7,668.35	107.97	138.66	-159.08	1,844.58	4,899.42	658.96	524.77	134.19	4.911		
10,000.00	7,630.00	15,243.00	7,668.35	107.67	138.66	-159.08	1,844.58	4,899.42	755.23	620.91	134.32	5.623		
10,100.00	7,630.00	15,243.00	7,668.35	107.38	138.66	-159.08	1,844.58	4,899.42	852.36	717.96	134.39	6.342		
10,200.00	7,630.00	15,243.00	7,668.35	107.10	138.66	-159.08	1,844.58	4,899.42	950.08	815.64	134.44	7.067		
10,300.00	7,630.00	15,243.00	7,668.35	106.84	138.66	-159.08	1,844.58	4,899.42	1,048.23	913.75	134.48	7.795		
10,400.00	7,630.00	15,243.00	7,668.35	106.59	138.66	-159.08	1,844.58	4,899.42	1,146.70	1,012.19	134.51	8.525		
10,500.00	7,630.00	15,243.00	7,668.35	106.35	138.66	-159.08	1,844.58	4,899.42	1,245.42	1,110.88	134.54	9.257		
10,600.00	7,630.00	15,243.00	7,668.35	106.13	138.66	-159.08	1,844.58	4,899.42	1,344.32	1,209.76	134.56	9.990		
10,700.00	7,630.00	15,243.00	7,668.35	105.92	138.66	-159.08	1,844.58	4,899.42	1,443.38	1,308.79	134.59	10.724		
10,800.00	7,630.00	15,243.00	7,668.35	105.72	138.66	-159.08	1,844.58	4,899.42	1,542.56	1,407.95	134.61	11.460		
10,900.00	7,630.00	15,243.00	7,668.35	105.54	138.66	-159.08	1,844.58	4,899.42	1,641.83	1,507.20	134.63	12.195		
11,000.00	7,630.00	15,243.00	7,668.35	105.37	138.66	-159.08	1,844.58	4,899.42	1,741.19	1,606.54	134.65	12.931		
11,100.00	7,630.00	15,243.00	7,668.35	105.21	138.66	-159.08	1,844.58	4,899.42	1,840.62	1,705.96	134.67	13.668		
11,200.00	7,630.00	15,243.00	7,668.35	105.06	138.66	-159.08	1,844.58	4,899.42	1,940.11	1,805.43	134.69	14.405		
11,300.00	7,630.00	15,243.00	7,668.35	104.93	138.66	-159.08	1,844.58	4,899.42	2,039.65	1,904.95	134.70	15.142		
11,400.00	7,630.00	15,243.00	7,668.35	104.82	138.66	-159.08	1,844.58	4,899.42	2,139.23	2,004.51	134.72	15.879		
11,500.00	7,630.00	15,243.00	7,668.35	104.72	138.66	-159.08	1,844.58	4,899.42	2,238.85	2,104.11	134.74	16.616		
11,600.00	7,630.00	15,243.00	7,668.35	104.63	138.66	-159.08	1,844.58	4,899.42	2,338.50	2,203.75	134.75	17.354		
11,700.00	7,630.00	15,243.00	7,668.35	104.55	138.66	-159.08	1,844.58	4,899.42	2,438.18	2,303.41	134.77	18.092		
11,800.00	7,630.00	15,243.00	7,668.35	104.50	138.66	-159.08	1,844.58	4,899.42	2,537.89	2,403.10	134.78	18.829		
11,900.00	7,630.00	15,243.00	7,668.35	104.45	138.66	-159.08	1,844.58	4,899.42	2,637.61	2,502.82	134.80	19.567		
12,000.00	7,630.00	15,243.00	7,668.35	104.43	138.66	-159.08	1,844.58	4,899.42	2,737.36	2,602.55	134.81	20.305		
12,100.00	7,630.00	15,243.00	7,668.35	104.42	138.66	-159.08	1,844.58	4,899.42	2,837.13	2,702.30	134.82	21.043		
12,200.00	7,630.00	15,243.00	7,668.35	104.42	138.66	-159.08	1,844.58	4,899.42	2,936.91	2,802.07	134.84	21.781		
12,300.00	7,630.00	15,243.00	7,668.35	104.45	138.66	-159.08	1,844.58	4,899.42	3,036.70	2,901.85	134.85	22.519		
12,400.00	7,630.00	15,243.00	7,668.35	104.49	138.66	-159.08	1,844.58	4,899.42	3,136.51	3,001.65	134.86	23.257		
12,500.00	7,630.00	15,243.00	7,668.35	104.55	138.66	-159.08	1,844.58	4,899.42	3,236.33	3,101.46	134.88	23.995		
12,600.00	7,630.00	15,243.00	7,668.35	104.63	138.66	-159.08	1,844.58	4,899.42	3,336.16	3,201.27	134.89	24.733		
12,700.00	7,630.00	15,243.00	7,668.35	104.73	138.66	-159.08	1,844.58	4,899.42	3,436.00	3,301.10	134.90	25.471		
12,800.00	7,630.00	15,243.00	7,668.35	104.85	138.66	-159.08	1,844.58	4,899.42	3,535.85	3,400.94	134.91	26.208		
12,900.00	7,630.00	15,243.00	7,668.35	104.99	138.66	-159.08	1,844.58	4,899.42	3,635.71	3,500.79	134.93	26.946		
13,000.00	7,630.00	15,243.00	7,668.35	105.15	138.66	-159.08	1,844.58	4,899.42	3,735.58	3,600.64	134.94	27.684		
13,100.00	7,630.00	15,243.00	7,668.35	105.34	138.66	-159.08	1,844.58	4,899.42	3,835.45	3,700.50	134.95	28.421		
13,200.00	7,630.00	15,243.00	7,668.35	105.56	138.66	-159.08	1,844.58	4,899.42	3,935.33	3,800.37	134.96	29.159		
13,300.00	7,630.00	15,243.00	7,668.35	105.80	138.66	-159.08	1,844.58	4,899.42	4,035.21	3,900.24	134.97	29.896		
13,400.00	7,630.00	15,243.00	7,668.35	106.06	138.66	-159.08	1,844.58	4,899.42	4,135.10	4,000.12	134.99	30.634		
13,500.00	7,630.00	15,243.00	7,668.35	106.36	138.66	-159.08	1,844.58	4,899.42	4,235.00	4,100.00	135.00	31.371		
13,600.00	7,630.00	15,243.00	7,668.35	106.68	138.66	-159.08	1,844.58	4,899.42	4,334.90	4,199.89	135.01	32.108		
13,700.00	7,630.00	15,243.00	7,668.35	107.03	138.66	-159.08	1,844.58	4,899.42	4,434.81	4,299.79	135.02	32.845		
13,800.00	7,630.00	15,243.00	7,668.35	107.42	138.66	-159.08	1,844.58	4,899.42	4,534.72	4,399.68	135.03	33.582		
13,900.00	7,630.00	15,243.00	7,668.35	107.83	138.66	-159.08	1,844.58	4,899.42	4,634.63	4,499.58	135.05	34.319		
14,000.00	7,630.00	15,243.00	7,668.35	108.28	138.66	-159.08	1,844.58	4,899.42	4,734.55	4,599.49	135.06	35.056		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	15,243.00	7,668.35	108.77	138.66	-159.08	1,844.58	4,899.42	4,834.47	4,699.40	135.07	35.792		
14,200.00	7,630.00	15,243.00	7,668.35	109.29	138.66	-159.08	1,844.58	4,899.42	4,934.39	4,799.31	135.08	36.529		
14,300.00	7,630.00	15,243.00	7,668.35	109.84	138.66	-159.08	1,844.58	4,899.42	5,034.32	4,899.22	135.09	37.265		
14,400.00	7,630.00	15,243.00	7,668.35	110.43	138.66	-159.08	1,844.58	4,899.42	5,134.25	4,999.14	135.11	38.001		
14,500.00	7,630.00	15,243.00	7,668.35	111.06	138.66	-159.08	1,844.58	4,899.42	5,234.18	5,099.06	135.12	38.737		
14,600.00	7,630.00	15,243.00	7,668.35	111.72	138.66	-159.08	1,844.58	4,899.42	5,334.11	5,198.98	135.13	39.473		
14,700.00	7,630.00	15,243.00	7,668.35	112.42	138.66	-159.08	1,844.58	4,899.42	5,434.05	5,298.90	135.14	40.209		
14,800.00	7,630.00	15,243.00	7,668.35	113.16	138.66	-159.08	1,844.58	4,899.42	5,533.99	5,398.83	135.16	40.945		
14,900.00	7,630.00	15,243.00	7,668.35	113.94	138.66	-159.08	1,844.58	4,899.42	5,633.93	5,498.76	135.17	41.680		
15,000.00	7,630.00	15,243.00	7,668.35	114.75	138.66	-159.08	1,844.58	4,899.42	5,733.87	5,598.69	135.18	42.415		
15,100.00	7,630.00	15,243.00	7,668.35	115.60	138.66	-159.08	1,844.58	4,899.42	5,833.82	5,698.62	135.20	43.150		
15,200.00	7,630.00	15,243.00	7,668.35	116.48	138.66	-159.08	1,844.58	4,899.42	5,933.77	5,798.56	135.21	43.885		
15,300.00	7,630.00	15,243.00	7,668.35	117.40	138.66	-159.08	1,844.58	4,899.42	6,033.72	5,898.49	135.22	44.620		
15,400.00	7,630.00	15,243.00	7,668.35	118.35	138.66	-159.08	1,844.58	4,899.42	6,133.67	5,998.43	135.24	45.354		
15,500.00	7,630.00	15,243.00	7,668.35	119.34	138.66	-159.08	1,844.58	4,899.42	6,233.62	6,098.37	135.25	46.089		
15,600.00	7,630.00	15,243.00	7,668.35	120.35	138.66	-159.08	1,844.58	4,899.42	6,333.57	6,198.31	135.27	46.823		
15,700.00	7,630.00	15,243.00	7,668.35	121.40	138.66	-159.08	1,844.58	4,899.42	6,433.53	6,298.25	135.28	47.557		
15,800.00	7,630.00	15,243.00	7,668.35	122.48	138.66	-159.08	1,844.58	4,899.42	6,533.48	6,398.19	135.30	48.290		
15,900.00	7,630.00	15,243.00	7,668.35	123.58	138.66	-159.08	1,844.58	4,899.42	6,633.44	6,498.13	135.31	49.024		
16,000.00	7,630.00	15,243.00	7,668.35	124.71	138.66	-159.08	1,844.58	4,899.42	6,733.40	6,598.08	135.33	49.757		
16,100.00	7,630.00	15,243.00	7,668.35	125.87	138.66	-159.08	1,844.58	4,899.42	6,833.36	6,698.02	135.34	50.490		
16,200.00	7,630.00	15,243.00	7,668.35	127.05	138.66	-159.08	1,844.58	4,899.42	6,933.32	6,797.97	135.36	51.223		
16,300.00	7,630.00	15,243.00	7,668.35	128.26	138.66	-159.08	1,844.58	4,899.42	7,033.29	6,897.92	135.37	51.956		
16,400.00	7,630.00	15,243.00	7,668.35	129.48	138.66	-159.08	1,844.58	4,899.42	7,133.25	6,997.86	135.39	52.688		
16,500.00	7,630.00	15,243.00	7,668.35	130.73	138.66	-159.08	1,844.58	4,899.42	7,233.21	7,097.81	135.40	53.420		
16,600.00	7,630.00	15,243.00	7,668.35	132.00	138.66	-159.08	1,844.58	4,899.42	7,333.18	7,197.76	135.42	54.152		
16,700.00	7,630.00	15,243.00	7,668.35	133.29	138.66	-159.08	1,844.58	4,899.42	7,433.15	7,297.71	135.43	54.884		
16,800.00	7,630.00	15,243.00	7,668.35	134.59	138.66	-159.08	1,844.58	4,899.42	7,533.11	7,397.66	135.45	55.615		
16,900.00	7,630.00	15,243.00	7,668.35	135.91	138.66	-159.08	1,844.58	4,899.42	7,633.08	7,497.62	135.47	56.346		
17,000.00	7,630.00	15,243.00	7,668.35	137.25	138.66	-159.08	1,844.58	4,899.42	7,733.05	7,597.57	135.48	57.077		
17,100.00	7,630.00	15,243.00	7,668.35	138.61	138.66	-159.08	1,844.58	4,899.42	7,833.02	7,697.52	135.50	57.808		
17,200.00	7,630.00	15,243.00	7,668.35	139.97	138.66	-159.08	1,844.58	4,899.42	7,932.99	7,797.47	135.52	58.538		
17,300.00	7,630.00	15,243.00	7,668.35	141.36	138.66	-159.08	1,844.58	4,899.42	8,032.96	7,897.43	135.53	59.269		
17,400.00	7,630.00	15,243.00	7,668.35	142.75	138.66	-159.08	1,844.58	4,899.42	8,132.94	7,997.38	135.55	59.999		
17,500.00	7,630.00	15,243.00	7,668.35	144.16	138.66	-159.08	1,844.58	4,899.42	8,232.91	8,097.34	135.57	60.728		
17,600.00	7,630.00	15,243.00	7,668.35	145.58	138.66	-159.08	1,844.58	4,899.42	8,332.88	8,197.29	135.59	61.457		
17,700.00	7,630.00	15,243.00	7,668.35	147.01	138.66	-159.08	1,844.58	4,899.42	8,432.86	8,297.25	135.61	62.186		
17,800.00	7,630.00	15,243.00	7,668.35	148.45	138.66	-159.08	1,844.58	4,899.42	8,532.83	8,397.21	135.62	62.915		
17,900.00	7,630.00	15,243.00	7,668.35	149.91	138.66	-159.08	1,844.58	4,899.42	8,632.81	8,497.16	135.64	63.644		
18,000.00	7,630.00	15,243.00	7,668.35	151.37	138.66	-159.08	1,844.58	4,899.42	8,732.78	8,597.12	135.66	64.372		
18,100.00	7,630.00	15,243.00	7,668.35	152.84	138.66	-159.08	1,844.58	4,899.42	8,832.76	8,697.08	135.68	65.100		
18,200.00	7,630.00	15,243.00	7,668.35	154.32	138.66	-159.08	1,844.58	4,899.42	8,932.73	8,797.04	135.70	65.827		
18,300.00	7,630.00	15,243.00	7,668.35	155.81	138.66	-159.08	1,844.58	4,899.42	9,032.71	8,896.99	135.72	66.555		
18,400.00	7,630.00	15,243.00	7,668.35	157.31	138.66	-159.08	1,844.58	4,899.42	9,132.69	8,996.95	135.74	67.282		
18,500.00	7,630.00	15,243.00	7,668.35	158.81	138.66	-159.08	1,844.58	4,899.42	9,232.67	9,096.91	135.76	68.008		
18,600.00	7,630.00	15,243.00	7,668.35	160.32	138.66	-159.08	1,844.58	4,899.42	9,332.65	9,196.87	135.78	68.734		
18,700.00	7,630.00	15,243.00	7,668.35	161.84	138.66	-159.08	1,844.58	4,899.42	9,432.63	9,296.83	135.80	69.460		
18,800.00	7,630.00	15,243.00	7,668.35	163.37	138.66	-159.08	1,844.58	4,899.42	9,532.61	9,396.79	135.82	70.186		
18,900.00	7,630.00	15,243.00	7,668.35	164.90	138.66	-159.08	1,844.58	4,899.42	9,632.59	9,496.75	135.84	70.912		
19,000.00	7,630.00	15,243.00	7,668.35	166.43	138.66	-159.08	1,844.58	4,899.42	9,732.57	9,596.71	135.86	71.637		
19,100.00	7,630.00	15,243.00	7,668.35	167.98	138.66	-159.08	1,844.58	4,899.42	9,832.55	9,696.67	135.88	72.361		
19,200.00	7,630.00	15,243.00	7,668.35	169.53	138.66	-159.08	1,844.58	4,899.42	9,932.53	9,796.63	135.90	73.086		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis 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	15,134.00	7,566.57	0.00	139.08	65.44	1,824.04	3,991.15	8,868.35					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.44	1,824.04	3,991.15	8,781.59	8,696.21	85.38	102.854		
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.44	1,824.04	3,991.15	8,695.12	8,609.37	85.75	101.400		
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.44	1,824.04	3,991.15	8,608.93	8,522.78	86.15	99.928		
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.44	1,824.04	3,991.15	8,523.05	8,436.47	86.58	98.440		
500.00	499.98	15,134.00	7,566.57	1.56	139.08	-1.37	1,824.04	3,991.15	8,436.59	8,349.55	87.04	96.924		
600.00	599.84	15,134.00	7,566.57	1.92	139.08	-1.46	1,824.04	3,991.15	8,348.71	8,261.19	87.52	95.391		
700.00	699.45	15,134.00	7,566.57	2.29	139.08	-1.56	1,824.04	3,991.15	8,259.46	8,171.47	87.99	93.870		
800.00	798.70	15,134.00	7,566.57	2.67	139.08	-1.68	1,824.04	3,991.15	8,168.92	8,080.48	88.44	92.362		
900.00	897.47	15,134.00	7,566.57	3.07	139.08	-1.82	1,824.04	3,991.15	8,077.15	7,988.27	88.88	90.872		
1,000.00	995.62	15,134.00	7,566.57	3.50	139.08	-1.99	1,824.04	3,991.15	7,984.23	7,894.92	89.31	89.401		
1,100.00	1,093.06	15,134.00	7,566.57	3.96	139.08	-2.19	1,824.04	3,991.15	7,890.22	7,800.51	89.71	87.952		
1,200.00	1,189.64	15,134.00	7,566.57	4.46	139.08	-2.44	1,824.04	3,991.15	7,795.22	7,705.12	90.09	86.526		
1,300.00	1,285.27	15,134.00	7,566.57	5.00	139.08	-2.74	1,824.04	3,991.15	7,699.28	7,608.84	90.45	85.125		
1,400.00	1,379.82	15,134.00	7,566.57	5.60	139.08	-3.14	1,824.04	3,991.15	7,602.51	7,511.74	90.78	83.750		
1,500.00	1,473.17	15,134.00	7,566.57	6.25	139.08	-3.66	1,824.04	3,991.15	7,504.99	7,413.92	91.08	82.403		
1,600.00	1,565.21	15,134.00	7,566.57	6.95	139.08	-4.39	1,824.04	3,991.15	7,406.81	7,315.47	91.35	81.085		
1,700.00	1,655.84	15,134.00	7,566.57	7.72	139.08	-5.46	1,824.04	3,991.15	7,308.07	7,216.49	91.58	79.796		
1,800.00	1,744.94	15,134.00	7,566.57	8.55	139.08	-7.21	1,824.04	3,991.15	7,208.86	7,117.08	91.79	78.539		
1,900.00	1,832.39	15,134.00	7,566.57	9.45	139.08	-10.53	1,824.04	3,991.15	7,109.30	7,017.34	91.95	77.314		
2,000.00	1,918.11	15,134.00	7,566.57	10.41	139.08	-19.13	1,824.04	3,991.15	7,009.48	6,917.40	92.08	76.123		
2,100.00	2,001.97	15,134.00	7,566.57	11.45	139.08	-67.37	1,824.04	3,991.15	6,909.52	6,817.35	92.17	74.966		
2,200.00	2,083.88	15,134.00	7,566.57	12.56	139.08	-153.59	1,824.04	3,991.15	6,809.54	6,717.33	92.21	73.845		
2,300.00	2,163.74	15,134.00	7,566.57	13.74	139.08	-167.22	1,824.04	3,991.15	6,709.67	6,617.45	92.22	72.759		
2,400.00	2,241.45	15,134.00	7,566.57	14.99	139.08	-171.58	1,824.04	3,991.15	6,610.02	6,517.85	92.18	71.711		
2,421.22	2,257.65	15,134.00	7,566.57	15.26	139.08	-172.15	1,824.04	3,991.15	6,588.92	6,496.76	92.16	71.494		
2,500.00	2,317.63	15,134.00	7,566.57	16.29	139.08	-172.15	1,824.04	3,991.15	6,510.62	6,418.52	92.11	70.687		
2,600.00	2,393.75	15,134.00	7,566.57	17.62	139.08	-172.15	1,824.04	3,991.15	6,411.25	6,319.21	92.04	69.659		
2,700.00	2,469.88	15,134.00	7,566.57	18.95	139.08	-172.15	1,824.04	3,991.15	6,311.89	6,219.92	91.97	68.630		
2,800.00	2,546.01	15,134.00	7,566.57	20.30	139.08	-172.15	1,824.04	3,991.15	6,212.56	6,120.65	91.90	67.599		
2,900.00	2,622.13	15,134.00	7,566.57	21.65	139.08	-172.15	1,824.04	3,991.15	6,113.24	6,021.41	91.84	66.567		
3,000.00	2,698.26	15,134.00	7,566.57	23.01	139.08	-172.15	1,824.04	3,991.15	6,013.95	5,922.18	91.77	65.533		
3,100.00	2,774.38	15,134.00	7,566.57	24.37	139.08	-172.15	1,824.04	3,991.15	5,914.69	5,822.98	91.70	64.498		
3,200.00	2,850.51	15,134.00	7,566.57	25.74	139.08	-172.15	1,824.04	3,991.15	5,815.44	5,723.81	91.64	63.462		
3,300.00	2,926.64	15,134.00	7,566.57	27.11	139.08	-172.15	1,824.04	3,991.15	5,716.23	5,624.66	91.57	62.424		
3,400.00	3,002.76	15,134.00	7,566.57	28.49	139.08	-172.15	1,824.04	3,991.15	5,617.04	5,525.54	91.50	61.386		
3,500.00	3,078.89	15,134.00	7,566.57	29.87	139.08	-172.15	1,824.04	3,991.15	5,517.88	5,426.45	91.44	60.347		
3,600.00	3,155.02	15,134.00	7,566.57	31.25	139.08	-172.15	1,824.04	3,991.15	5,418.76	5,327.39	91.37	59.308		
3,700.00	3,231.14	15,134.00	7,566.57	32.63	139.08	-172.15	1,824.04	3,991.15	5,319.66	5,228.37	91.30	58.268		
3,800.00	3,307.27	15,134.00	7,566.57	34.01	139.08	-172.15	1,824.04	3,991.15	5,220.60	5,129.38	91.23	57.227		
3,900.00	3,383.39	15,134.00	7,566.57	35.40	139.08	-172.15	1,824.04	3,991.15	5,121.58	5,030.43	91.15	56.187		
4,000.00	3,459.52	15,134.00	7,566.57	36.79	139.08	-172.15	1,824.04	3,991.15	5,022.60	4,931.52	91.08	55.146		
4,100.00	3,535.65	15,134.00	7,566.57	38.18	139.08	-172.15	1,824.04	3,991.15	4,923.65	4,832.65	91.00	54.105		
4,200.00	3,611.77	15,134.00	7,566.57	39.57	139.08	-172.15	1,824.04	3,991.15	4,824.75	4,733.83	90.92	53.065		
4,300.00	3,687.90	15,134.00	7,566.57	40.96	139.08	-172.15	1,824.04	3,991.15	4,725.90	4,635.06	90.84	52.025		
4,400.00	3,764.02	15,134.00	7,566.57	42.35	139.08	-172.15	1,824.04	3,991.15	4,627.09	4,536.34	90.75	50.985		
4,500.00	3,840.15	15,134.00	7,566.57	43.74	139.08	-172.15	1,824.04	3,991.15	4,528.34	4,437.68	90.67	49.946		
4,600.00	3,916.28	15,134.00	7,566.57	45.13	139.08	-172.15	1,824.04	3,991.15	4,429.65	4,339.07	90.57	48.907		
4,700.00	3,992.40	15,134.00	7,566.57	46.53	139.08	-172.15	1,824.04	3,991.15	4,331.01	4,240.54	90.48	47.869		
4,800.00	4,068.53	15,134.00	7,566.57	47.92	139.08	-172.15	1,824.04	3,991.15	4,232.44	4,142.06	90.37	46.832		
4,900.00	4,144.66	15,134.00	7,566.57	49.32	139.08	-172.15	1,824.04	3,991.15	4,133.94	4,043.67	90.27	45.796		
5,000.00	4,220.78	15,134.00	7,566.57	50.71	139.08	-172.15	1,824.04	3,991.15	4,035.51	3,945.35	90.16	44.761		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	15,134.00	7,566.57	52.11	139.08	-172.15	1,824.04	3,991.15	3,937.16	3,847.12	90.04	43.727		
5,200.00	4,373.03	15,134.00	7,566.57	53.51	139.08	-172.15	1,824.04	3,991.15	3,838.89	3,748.98	89.92	42.694		
5,300.00	4,449.16	15,134.00	7,566.57	54.90	139.08	-172.15	1,824.04	3,991.15	3,740.72	3,650.93	89.79	41.663		
5,400.00	4,525.29	15,134.00	7,566.57	56.30	139.08	-172.15	1,824.04	3,991.15	3,642.64	3,553.00	89.65	40.633		
5,500.00	4,601.41	15,134.00	7,566.57	57.70	139.08	-172.15	1,824.04	3,991.15	3,544.68	3,455.17	89.50	39.604		
5,600.00	4,677.54	15,134.00	7,566.57	59.10	139.08	-172.15	1,824.04	3,991.15	3,446.83	3,357.48	89.35	38.577		
5,700.00	4,753.66	15,134.00	7,566.57	60.49	139.08	-172.15	1,824.04	3,991.15	3,349.11	3,259.92	89.19	37.552		
5,800.00	4,829.79	15,134.00	7,566.57	61.89	139.08	-172.15	1,824.04	3,991.15	3,251.52	3,162.51	89.01	36.528		
5,900.00	4,905.92	15,134.00	7,566.57	63.29	139.08	-172.15	1,824.04	3,991.15	3,154.09	3,065.26	88.83	35.506		
6,000.00	4,982.04	15,134.00	7,566.57	64.69	139.08	-172.15	1,824.04	3,991.15	3,056.82	2,968.18	88.64	34.485		
6,100.00	5,058.17	15,134.00	7,566.57	66.09	139.08	-172.15	1,824.04	3,991.15	2,959.74	2,871.30	88.44	33.467		
6,200.00	5,134.30	15,134.00	7,566.57	67.49	139.08	-172.15	1,824.04	3,991.15	2,862.85	2,774.63	88.22	32.450		
6,300.00	5,210.42	15,134.00	7,566.57	68.89	139.08	-172.15	1,824.04	3,991.15	2,766.19	2,678.19	88.00	31.435		
6,400.00	5,286.55	15,134.00	7,566.57	70.29	139.08	-172.15	1,824.04	3,991.15	2,669.78	2,582.01	87.76	30.421		
6,500.00	5,362.67	15,134.00	7,566.57	71.69	139.08	-172.15	1,824.04	3,991.15	2,573.63	2,486.12	87.51	29.409		
6,600.00	5,438.80	15,134.00	7,566.57	73.09	139.08	-172.15	1,824.04	3,991.15	2,477.80	2,390.54	87.25	28.398		
6,700.00	5,514.93	15,134.00	7,566.57	74.49	139.08	-172.15	1,824.04	3,991.15	2,382.30	2,295.32	86.98	27.389		
6,800.00	5,591.05	15,134.00	7,566.57	75.89	139.08	-172.15	1,824.04	3,991.15	2,287.19	2,200.49	86.70	26.380		
6,900.00	5,667.18	15,134.00	7,566.57	77.29	139.08	-172.15	1,824.04	3,991.15	2,192.52	2,106.10	86.41	25.372		
7,000.00	5,743.30	15,134.00	7,566.57	78.69	139.08	-172.15	1,824.04	3,991.15	2,098.33	2,012.21	86.12	24.365		
7,100.00	5,819.43	15,134.00	7,566.57	80.09	139.08	-172.15	1,824.04	3,991.15	2,004.72	1,918.88	85.83	23.356		
7,200.00	5,895.56	15,134.00	7,566.57	81.49	139.08	-172.15	1,824.04	3,991.15	1,911.75	1,826.19	85.55	22.346		
7,300.00	5,971.68	15,134.00	7,566.57	82.90	139.08	-172.15	1,824.04	3,991.15	1,819.52	1,734.23	85.30	21.332		
7,400.00	6,047.81	15,134.00	7,566.57	84.30	139.08	-172.15	1,824.04	3,991.15	1,728.16	1,643.09	85.07	20.314		
7,500.00	6,123.94	15,134.00	7,566.57	85.70	139.08	-172.15	1,824.04	3,991.15	1,637.81	1,552.90	84.92	19.288		
7,600.00	6,200.06	15,134.00	7,566.57	87.10	139.08	-172.15	1,824.04	3,991.15	1,548.65	1,463.80	84.85	18.251		
7,700.00	6,276.19	15,134.00	7,566.57	88.50	139.08	-172.15	1,824.04	3,991.15	1,460.89	1,375.95	84.94	17.199		
7,800.00	6,352.31	15,134.00	7,566.57	89.90	139.08	-172.15	1,824.04	3,991.15	1,374.80	1,289.55	85.25	16.126		
7,900.00	6,428.44	15,134.00	7,566.57	91.31	139.08	-172.15	1,824.04	3,991.15	1,290.72	1,204.83	85.89	15.027		
8,000.00	6,504.57	15,134.00	7,566.57	92.71	139.08	-172.15	1,824.04	3,991.15	1,209.07	1,122.06	87.01	13.895		
8,100.00	6,580.69	15,134.00	7,566.57	94.11	139.08	-172.15	1,824.04	3,991.15	1,130.37	1,041.56	88.81	12.727		
8,200.00	6,656.82	15,134.00	7,566.57	95.51	139.08	-172.15	1,824.04	3,991.15	1,055.28	963.72	91.56	11.525		
8,300.00	6,732.95	15,134.00	7,566.57	96.91	139.08	-172.15	1,824.04	3,991.15	984.64	889.08	95.56	10.304		
8,400.00	6,809.07	15,138.96	7,566.68	98.32	139.16	-172.53	1,819.08	3,991.23	919.44	818.37	101.07	9.097		
8,500.00	6,885.20	15,115.95	7,566.17	99.72	138.76	-170.77	1,842.08	3,990.88	860.79	752.08	108.70	7.919		
8,600.00	6,961.32	15,092.94	7,565.66	101.12	138.36	-169.00	1,865.09	3,990.52	809.61	691.17	118.45	6.835		
8,700.00	7,037.45	15,070.33	7,565.17	102.52	137.97	-167.24	1,887.69	3,990.18	767.43	637.41	130.01	5.903		
8,732.15	7,061.92	15,063.17	7,565.02	102.97	137.85	-166.68	1,894.85	3,990.07	756.03	622.01	134.02	5.641		
8,750.00	7,075.57	15,059.43	7,564.94	103.22	137.78	-167.79	1,898.58	3,990.02	750.17	613.88	136.29	5.504		
8,800.00	7,114.27	15,051.69	7,564.79	103.91	137.65	-171.60	1,906.32	3,989.92	735.57	592.70	142.87	5.149		
8,850.00	7,153.47	15,048.09	7,564.72	104.58	137.59	-176.37	1,909.92	3,989.87	723.93	574.36	149.58	4.840		
8,900.00	7,192.85	15,048.74	7,564.73	105.21	137.60	178.04	1,909.27	3,989.88	715.57	559.35	156.22	4.581		
8,950.00	7,232.12	15,053.70	7,564.83	105.80	137.68	171.82	1,904.31	3,989.94	710.63	548.06	162.58	4.371		
8,996.81	7,268.53	15,062.31	7,565.00	106.32	137.83	165.61	1,895.71	3,990.06	709.14	541.05	168.09	4.219 CC		
9,000.00	7,270.99	15,063.03	7,565.01	106.35	137.84	165.18	1,894.98	3,990.07	709.15	540.70	168.45	4.210		
9,050.00	7,309.16	15,076.74	7,565.30	106.85	138.08	158.30	1,881.28	3,990.27	710.99	537.28	173.70	4.093 ES		
9,100.00	7,346.32	15,094.60	7,565.70	107.30	138.39	151.35	1,863.43	3,990.55	715.85	537.61	178.25	4.016		
9,150.00	7,382.22	15,116.49	7,566.19	107.69	138.77	144.45	1,841.54	3,990.88	723.35	541.30	182.06	3.973		
9,200.00	7,416.56	15,134.00	7,566.57	108.02	139.08	138.25	1,824.04	3,991.15	733.05	547.35	185.70	3.948		
9,250.00	7,449.09	15,134.00	7,566.57	108.29	139.08	133.54	1,824.04	3,991.15	745.20	555.20	190.01	3.922		
9,300.00	7,479.56	15,134.00	7,566.57	108.51	139.08	129.04	1,824.04	3,991.15	759.81	565.99	193.82	3.920 SF		
9,350.00	7,507.74	15,134.00	7,566.57	108.68	139.08	124.74	1,824.04	3,991.15	776.63	579.49	197.15	3.939		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	7,533.41	15,134.00	7,566.57	108.79	139.08	120.62	1,824.04	3,991.15	795.40	595.42	199.98	3.977		
9,450.00	7,556.39	15,134.00	7,566.57	108.86	139.08	116.67	1,824.04	3,991.15	815.83	613.51	202.32	4.032		
9,500.00	7,576.48	15,134.00	7,566.57	108.88	139.08	112.87	1,824.04	3,991.15	837.67	633.47	204.20	4.102		
9,550.00	7,593.55	15,134.00	7,566.57	108.86	139.08	109.25	1,824.04	3,991.15	860.64	655.02	205.63	4.185		
9,600.00	7,607.46	15,134.00	7,566.57	108.80	139.08	105.81	1,824.04	3,991.15	884.50	677.87	206.63	4.281		
9,650.00	7,618.11	15,134.00	7,566.57	108.71	139.08	102.58	1,824.04	3,991.15	908.98	701.76	207.22	4.386		
9,700.00	7,625.41	15,134.00	7,566.57	108.59	139.08	99.57	1,824.04	3,991.15	933.88	726.44	207.44	4.502		
9,750.00	7,629.30	15,134.00	7,566.57	108.45	139.08	96.82	1,824.04	3,991.15	958.96	751.67	207.29	4.626		
9,781.81	7,630.00	15,134.00	7,566.57	108.35	139.08	95.21	1,824.04	3,991.15	974.93	767.91	207.02	4.709		
9,800.00	7,630.00	15,134.00	7,566.57	108.29	139.08	95.21	1,824.04	3,991.15	984.18	777.37	206.81	4.759		
9,900.00	7,630.00	15,134.00	7,566.57	107.97	139.08	95.21	1,824.04	3,991.15	1,039.24	834.22	205.02	5.069		
10,000.00	7,630.00	15,134.00	7,566.57	107.67	139.08	95.21	1,824.04	3,991.15	1,100.66	898.20	202.45	5.437		
10,100.00	7,630.00	15,134.00	7,566.57	107.38	139.08	95.21	1,824.04	3,991.15	1,167.42	968.02	199.40	5.855		
10,200.00	7,630.00	15,134.00	7,566.57	107.10	139.08	95.21	1,824.04	3,991.15	1,238.66	1,042.57	196.09	6.317		
10,300.00	7,630.00	15,134.00	7,566.57	106.84	139.08	95.21	1,824.04	3,991.15	1,313.66	1,120.96	192.70	6.817		
10,400.00	7,630.00	15,134.00	7,566.57	106.59	139.08	95.21	1,824.04	3,991.15	1,391.80	1,202.48	189.32	7.351		
10,500.00	7,630.00	15,134.00	7,566.57	106.35	139.08	95.21	1,824.04	3,991.15	1,472.59	1,286.54	186.05	7.915		
10,600.00	7,630.00	15,134.00	7,566.57	106.13	139.08	95.21	1,824.04	3,991.15	1,555.62	1,372.70	182.92	8.505		
10,700.00	7,630.00	15,134.00	7,566.57	105.92	139.08	95.21	1,824.04	3,991.15	1,640.54	1,460.59	179.95	9.117		
10,800.00	7,630.00	15,134.00	7,566.57	105.72	139.08	95.21	1,824.04	3,991.15	1,727.07	1,549.92	177.15	9.749		
10,900.00	7,630.00	15,134.00	7,566.57	105.54	139.08	95.21	1,824.04	3,991.15	1,814.99	1,640.46	174.53	10.399		
11,000.00	7,630.00	15,134.00	7,566.57	105.37	139.08	95.21	1,824.04	3,991.15	1,904.11	1,732.02	172.08	11.065		
11,100.00	7,630.00	15,134.00	7,566.57	105.21	139.08	95.21	1,824.04	3,991.15	1,994.25	1,824.45	169.80	11.745		
11,200.00	7,630.00	15,134.00	7,566.57	105.06	139.08	95.21	1,824.04	3,991.15	2,085.29	1,917.63	167.67	12.437		
11,300.00	7,630.00	15,134.00	7,566.57	104.93	139.08	95.21	1,824.04	3,991.15	2,177.12	2,011.44	165.68	13.140		
11,400.00	7,630.00	15,134.00	7,566.57	104.82	139.08	95.21	1,824.04	3,991.15	2,269.64	2,105.81	163.84	13.853		
11,500.00	7,630.00	15,134.00	7,566.57	104.72	139.08	95.21	1,824.04	3,991.15	2,362.77	2,200.66	162.11	14.575		
11,600.00	7,630.00	15,134.00	7,566.57	104.63	139.08	95.21	1,824.04	3,991.15	2,456.44	2,295.94	160.51	15.304		
11,700.00	7,630.00	15,134.00	7,566.57	104.55	139.08	95.21	1,824.04	3,991.15	2,550.60	2,391.59	159.01	16.041		
11,800.00	7,630.00	15,134.00	7,566.57	104.50	139.08	95.21	1,824.04	3,991.15	2,645.18	2,487.57	157.61	16.784		
11,900.00	7,630.00	15,134.00	7,566.57	104.45	139.08	95.21	1,824.04	3,991.15	2,740.14	2,583.85	156.29	17.532		
12,000.00	7,630.00	15,134.00	7,566.57	104.43	139.08	95.21	1,824.04	3,991.15	2,835.45	2,680.38	155.07	18.285		
12,100.00	7,630.00	15,134.00	7,566.57	104.42	139.08	95.21	1,824.04	3,991.15	2,931.08	2,777.16	153.92	19.043		
12,200.00	7,630.00	15,134.00	7,566.57	104.42	139.08	95.21	1,824.04	3,991.15	3,026.98	2,874.14	152.84	19.805		
12,300.00	7,630.00	15,134.00	7,566.57	104.45	139.08	95.21	1,824.04	3,991.15	3,123.15	2,971.32	151.83	20.571		
12,400.00	7,630.00	15,134.00	7,566.57	104.49	139.08	95.21	1,824.04	3,991.15	3,219.54	3,068.67	150.87	21.339		
12,500.00	7,630.00	15,134.00	7,566.57	104.55	139.08	95.21	1,824.04	3,991.15	3,316.15	3,166.18	149.98	22.111		
12,600.00	7,630.00	15,134.00	7,566.57	104.63	139.08	95.21	1,824.04	3,991.15	3,412.96	3,263.83	149.13	22.886		
12,700.00	7,630.00	15,134.00	7,566.57	104.73	139.08	95.21	1,824.04	3,991.15	3,509.94	3,361.61	148.33	23.662		
12,800.00	7,630.00	15,134.00	7,566.57	104.85	139.08	95.21	1,824.04	3,991.15	3,607.09	3,459.51	147.58	24.441		
12,900.00	7,630.00	15,134.00	7,566.57	104.99	139.08	95.21	1,824.04	3,991.15	3,704.40	3,557.52	146.87	25.222		
13,000.00	7,630.00	15,134.00	7,566.57	105.15	139.08	95.21	1,824.04	3,991.15	3,801.84	3,655.64	146.20	26.005		
13,100.00	7,630.00	15,134.00	7,566.57	105.34	139.08	95.21	1,824.04	3,991.15	3,899.41	3,753.85	145.56	26.789		
13,200.00	7,630.00	15,134.00	7,566.57	105.56	139.08	95.21	1,824.04	3,991.15	3,997.10	3,852.14	144.96	27.574		
13,300.00	7,630.00	15,134.00	7,566.57	105.80	139.08	95.21	1,824.04	3,991.15	4,094.90	3,950.52	144.38	28.361		
13,400.00	7,630.00	15,134.00	7,566.57	106.06	139.08	95.21	1,824.04	3,991.15	4,192.81	4,048.97	143.84	29.149		
13,500.00	7,630.00	15,134.00	7,566.57	106.36	139.08	95.21	1,824.04	3,991.15	4,290.81	4,147.49	143.32	29.938		
13,600.00	7,630.00	15,134.00	7,566.57	106.68	139.08	95.21	1,824.04	3,991.15	4,388.90	4,246.07	142.83	30.727		
13,700.00	7,630.00	15,134.00	7,566.57	107.03	139.08	95.21	1,824.04	3,991.15	4,487.08	4,344.71	142.37	31.518		
13,800.00	7,630.00	15,134.00	7,566.57	107.42	139.08	95.21	1,824.04	3,991.15	4,585.34	4,443.42	141.92	32.309		
13,900.00	7,630.00	15,134.00	7,566.57	107.83	139.08	95.21	1,824.04	3,991.15	4,683.66	4,542.17	141.50	33.101		
14,000.00	7,630.00	15,134.00	7,566.57	108.28	139.08	95.21	1,824.04	3,991.15	4,782.06	4,640.97	141.09	33.894		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	15,134.00	7,566.57	108.77	139.08	95.21	1,824.04	3,991.15	4,880.53	4,739.82	140.70	34.686		
14,200.00	7,630.00	15,134.00	7,566.57	109.29	139.08	95.21	1,824.04	3,991.15	4,979.05	4,838.72	140.34	35.480		
14,300.00	7,630.00	15,134.00	7,566.57	109.84	139.08	95.21	1,824.04	3,991.15	5,077.64	4,937.65	139.98	36.273		
14,400.00	7,630.00	15,134.00	7,566.57	110.43	139.08	95.21	1,824.04	3,991.15	5,176.27	5,036.63	139.65	37.067		
14,500.00	7,630.00	15,134.00	7,566.57	111.06	139.08	95.21	1,824.04	3,991.15	5,274.96	5,135.64	139.32	37.862		
14,600.00	7,630.00	15,134.00	7,566.57	111.72	139.08	95.21	1,824.04	3,991.15	5,373.70	5,234.68	139.01	38.656		
14,700.00	7,630.00	15,134.00	7,566.57	112.42	139.08	95.21	1,824.04	3,991.15	5,472.48	5,333.76	138.72	39.450		
14,800.00	7,630.00	15,134.00	7,566.57	113.16	139.08	95.21	1,824.04	3,991.15	5,571.31	5,432.87	138.43	40.245		
14,900.00	7,630.00	15,134.00	7,566.57	113.94	139.08	95.21	1,824.04	3,991.15	5,670.18	5,532.01	138.16	41.040		
15,000.00	7,630.00	15,134.00	7,566.57	114.75	139.08	95.21	1,824.04	3,991.15	5,769.08	5,631.18	137.90	41.835		
15,100.00	7,630.00	15,134.00	7,566.57	115.60	139.08	95.21	1,824.04	3,991.15	5,868.03	5,730.37	137.65	42.630		
15,200.00	7,630.00	15,134.00	7,566.57	116.48	139.08	95.21	1,824.04	3,991.15	5,967.00	5,829.59	137.41	43.425		
15,300.00	7,630.00	15,134.00	7,566.57	117.40	139.08	95.21	1,824.04	3,991.15	6,066.02	5,928.84	137.18	44.219		
15,400.00	7,630.00	15,134.00	7,566.57	118.35	139.08	95.21	1,824.04	3,991.15	6,165.06	6,028.10	136.96	45.014		
15,500.00	7,630.00	15,134.00	7,566.57	119.34	139.08	95.21	1,824.04	3,991.15	6,264.14	6,127.39	136.75	45.809		
15,600.00	7,630.00	15,134.00	7,566.57	120.35	139.08	95.21	1,824.04	3,991.15	6,363.24	6,226.70	136.54	46.603		
15,700.00	7,630.00	15,134.00	7,566.57	121.40	139.08	95.21	1,824.04	3,991.15	6,462.37	6,326.03	136.34	47.398		
15,800.00	7,630.00	15,134.00	7,566.57	122.48	139.08	95.21	1,824.04	3,991.15	6,561.53	6,425.37	136.15	48.192		
15,900.00	7,630.00	15,134.00	7,566.57	123.58	139.08	95.21	1,824.04	3,991.15	6,660.71	6,524.74	135.97	48.987		
16,000.00	7,630.00	15,134.00	7,566.57	124.71	139.08	95.21	1,824.04	3,991.15	6,759.92	6,624.12	135.79	49.781		
16,100.00	7,630.00	15,134.00	7,566.57	125.87	139.08	95.21	1,824.04	3,991.15	6,859.15	6,723.52	135.62	50.574		
16,200.00	7,630.00	15,134.00	7,566.57	127.05	139.08	95.21	1,824.04	3,991.15	6,958.40	6,822.94	135.46	51.368		
16,300.00	7,630.00	15,134.00	7,566.57	128.26	139.08	95.21	1,824.04	3,991.15	7,057.67	6,922.37	135.30	52.162		
16,400.00	7,630.00	15,134.00	7,566.57	129.48	139.08	95.21	1,824.04	3,991.15	7,156.96	7,021.81	135.15	52.955		
16,500.00	7,630.00	15,134.00	7,566.57	130.73	139.08	95.21	1,824.04	3,991.15	7,256.28	7,121.27	135.01	53.748		
16,600.00	7,630.00	15,134.00	7,566.57	132.00	139.08	95.21	1,824.04	3,991.15	7,355.61	7,220.74	134.87	54.540		
16,700.00	7,630.00	15,134.00	7,566.57	133.29	139.08	95.21	1,824.04	3,991.15	7,454.96	7,320.23	134.73	55.333		
16,800.00	7,630.00	15,134.00	7,566.57	134.59	139.08	95.21	1,824.04	3,991.15	7,554.32	7,419.73	134.60	56.125		
16,900.00	7,630.00	15,134.00	7,566.57	135.91	139.08	95.21	1,824.04	3,991.15	7,653.71	7,519.24	134.47	56.917		
17,000.00	7,630.00	15,134.00	7,566.57	137.25	139.08	95.21	1,824.04	3,991.15	7,753.11	7,618.76	134.35	57.709		
17,100.00	7,630.00	15,134.00	7,566.57	138.61	139.08	95.21	1,824.04	3,991.15	7,852.52	7,718.29	134.23	58.500		
17,200.00	7,630.00	15,134.00	7,566.57	139.97	139.08	95.21	1,824.04	3,991.15	7,951.95	7,817.83	134.12	59.291		
17,300.00	7,630.00	15,134.00	7,566.57	141.36	139.08	95.21	1,824.04	3,991.15	8,051.39	7,917.38	134.01	60.082		
17,400.00	7,630.00	15,134.00	7,566.57	142.75	139.08	95.21	1,824.04	3,991.15	8,150.85	8,016.95	133.90	60.872		
17,500.00	7,630.00	15,134.00	7,566.57	144.16	139.08	95.21	1,824.04	3,991.15	8,250.32	8,116.52	133.80	61.662		
17,600.00	7,630.00	15,134.00	7,566.57	145.58	139.08	95.21	1,824.04	3,991.15	8,349.80	8,216.10	133.70	62.452		
17,700.00	7,630.00	15,134.00	7,566.57	147.01	139.08	95.21	1,824.04	3,991.15	8,449.29	8,315.69	133.60	63.241		
17,800.00	7,630.00	15,134.00	7,566.57	148.45	139.08	95.21	1,824.04	3,991.15	8,548.80	8,415.29	133.51	64.030		
17,900.00	7,630.00	15,134.00	7,566.57	149.91	139.08	95.21	1,824.04	3,991.15	8,648.32	8,514.89	133.42	64.818		
18,000.00	7,630.00	15,134.00	7,566.57	151.37	139.08	95.21	1,824.04	3,991.15	8,747.85	8,614.51	133.34	65.607		
18,100.00	7,630.00	15,134.00	7,566.57	152.84	139.08	95.21	1,824.04	3,991.15	8,847.39	8,714.13	133.25	66.394		
18,200.00	7,630.00	15,134.00	7,566.57	154.32	139.08	95.21	1,824.04	3,991.15	8,946.94	8,813.76	133.17	67.182		
18,300.00	7,630.00	15,134.00	7,566.57	155.81	139.08	95.21	1,824.04	3,991.15	9,046.50	8,913.40	133.10	67.969		
18,400.00	7,630.00	15,134.00	7,566.57	157.31	139.08	95.21	1,824.04	3,991.15	9,146.06	9,013.04	133.02	68.756		
18,500.00	7,630.00	15,134.00	7,566.57	158.81	139.08	95.21	1,824.04	3,991.15	9,245.64	9,112.69	132.95	69.542		
18,600.00	7,630.00	15,134.00	7,566.57	160.32	139.08	95.21	1,824.04	3,991.15	9,345.23	9,212.35	132.88	70.328		
18,700.00	7,630.00	15,134.00	7,566.57	161.84	139.08	95.21	1,824.04	3,991.15	9,444.83	9,312.01	132.81	71.113		
18,800.00	7,630.00	15,134.00	7,566.57	163.37	139.08	95.21	1,824.04	3,991.15	9,544.43	9,411.68	132.75	71.898		
18,900.00	7,630.00	15,134.00	7,566.57	164.90	139.08	95.21	1,824.04	3,991.15	9,644.04	9,511.36	132.69	72.683		
19,000.00	7,630.00	15,134.00	7,566.57	166.43	139.08	95.21	1,824.04	3,991.15	9,743.66	9,611.04	132.63	73.467		
19,100.00	7,630.00	15,134.00	7,566.57	167.98	139.08	95.21	1,824.04	3,991.15	9,843.29	9,710.72	132.57	74.251		
19,200.00	7,630.00	15,134.00	7,566.57	169.53	139.08	95.21	1,824.04	3,991.15	9,942.93	9,810.42	132.51	75.034		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	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	15,352.00	7,829.29	0.00	138.31	71.26		1,855.89	5,469.97	9,828.73				
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.26		1,855.89	5,469.97	9,747.99	9,653.96	94.03	103.667	
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.26		1,855.89	5,469.97	9,667.62	9,573.15	94.47	102.332	
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.26		1,855.89	5,469.97	9,587.62	9,492.67	94.95	100.975	
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.26		1,855.89	5,469.97	9,508.00	9,412.54	95.46	99.600	
500.00	499.98	15,352.00	7,829.29	1.56	138.31	4.75		1,855.89	5,469.97	9,427.71	9,331.70	96.01	98.191	
600.00	599.84	15,352.00	7,829.29	1.92	138.31	5.00		1,855.89	5,469.97	9,345.76	9,249.17	96.59	96.759	
700.00	699.45	15,352.00	7,829.29	2.29	138.31	5.27		1,855.89	5,469.97	9,262.19	9,165.03	97.16	95.332	
800.00	798.70	15,352.00	7,829.29	2.67	138.31	5.57		1,855.89	5,469.97	9,177.06	9,079.34	97.72	93.913	
900.00	897.47	15,352.00	7,829.29	3.07	138.31	5.92		1,855.89	5,469.97	9,090.44	8,992.17	98.27	92.506	
1,000.00	995.62	15,352.00	7,829.29	3.50	138.31	6.32		1,855.89	5,469.97	9,002.39	8,903.59	98.81	91.112	
1,100.00	1,093.06	15,352.00	7,829.29	3.96	138.31	6.77		1,855.89	5,469.97	8,912.98	8,813.66	99.33	89.734	
1,200.00	1,189.64	15,352.00	7,829.29	4.46	138.31	7.30		1,855.89	5,469.97	8,822.28	8,722.45	99.83	88.373	
1,300.00	1,285.27	15,352.00	7,829.29	5.00	138.31	7.92		1,855.89	5,469.97	8,730.35	8,630.04	100.31	87.030	
1,400.00	1,379.82	15,352.00	7,829.29	5.60	138.31	8.65		1,855.89	5,469.97	8,637.28	8,536.50	100.78	85.706	
1,500.00	1,473.17	15,352.00	7,829.29	6.25	138.31	9.54		1,855.89	5,469.97	8,543.13	8,441.91	101.22	84.403	
1,600.00	1,565.21	15,352.00	7,829.29	6.95	138.31	10.62		1,855.89	5,469.97	8,448.00	8,346.36	101.64	83.120	
1,700.00	1,655.84	15,352.00	7,829.29	7.72	138.31	11.97		1,855.89	5,469.97	8,351.96	8,249.94	102.03	81.860	
1,800.00	1,744.94	15,352.00	7,829.29	8.55	138.31	13.69		1,855.89	5,469.97	8,255.11	8,152.72	102.39	80.623	
1,900.00	1,832.39	15,352.00	7,829.29	9.45	138.31	15.98		1,855.89	5,469.97	8,157.53	8,054.80	102.73	79.410	
2,000.00	1,918.11	15,352.00	7,829.29	10.41	138.31	19.13		1,855.89	5,469.97	8,059.32	7,956.29	103.03	78.222	
2,100.00	2,001.97	15,352.00	7,829.29	11.45	138.31	23.70		1,855.89	5,469.97	7,960.57	7,857.27	103.30	77.059	
2,200.00	2,083.88	15,352.00	7,829.29	12.56	138.31	30.78		1,855.89	5,469.97	7,861.40	7,757.86	103.54	75.923	
2,300.00	2,163.74	15,352.00	7,829.29	13.74	138.31	42.68		1,855.89	5,469.97	7,761.90	7,658.15	103.75	74.815	
2,400.00	2,241.45	15,352.00	7,829.29	14.99	138.31	63.60		1,855.89	5,469.97	7,662.19	7,558.28	103.92	73.734	
2,421.22	2,257.65	15,352.00	7,829.29	15.26	138.31	69.56		1,855.89	5,469.97	7,641.02	7,537.07	103.95	73.508	
2,500.00	2,317.63	15,352.00	7,829.29	16.29	138.31	69.56		1,855.89	5,469.97	7,562.40	7,458.34	104.06	72.674	
2,600.00	2,393.75	15,352.00	7,829.29	17.62	138.31	69.56		1,855.89	5,469.97	7,462.61	7,358.40	104.21	71.613	
2,700.00	2,469.88	15,352.00	7,829.29	18.95	138.31	69.56		1,855.89	5,469.97	7,362.83	7,258.47	104.36	70.552	
2,800.00	2,546.01	15,352.00	7,829.29	20.30	138.31	69.56		1,855.89	5,469.97	7,263.05	7,158.53	104.52	69.490	
2,900.00	2,622.13	15,352.00	7,829.29	21.65	138.31	69.56		1,855.89	5,469.97	7,163.28	7,058.59	104.69	68.427	
3,000.00	2,698.26	15,352.00	7,829.29	23.01	138.31	69.56		1,855.89	5,469.97	7,063.51	6,958.65	104.86	67.363	
3,100.00	2,774.38	15,352.00	7,829.29	24.37	138.31	69.56		1,855.89	5,469.97	6,963.75	6,858.72	105.04	66.299	
3,200.00	2,850.51	15,352.00	7,829.29	25.74	138.31	69.56		1,855.89	5,469.97	6,864.00	6,758.78	105.22	65.235	
3,300.00	2,926.64	15,352.00	7,829.29	27.11	138.31	69.56		1,855.89	5,469.97	6,764.26	6,658.85	105.41	64.170	
3,400.00	3,002.76	15,352.00	7,829.29	28.49	138.31	69.56		1,855.89	5,469.97	6,664.52	6,558.91	105.61	63.105	
3,500.00	3,078.89	15,352.00	7,829.29	29.87	138.31	69.56		1,855.89	5,469.97	6,564.79	6,458.98	105.81	62.040	
3,600.00	3,155.02	15,352.00	7,829.29	31.25	138.31	69.56		1,855.89	5,469.97	6,465.07	6,359.05	106.03	60.976	
3,700.00	3,231.14	15,352.00	7,829.29	32.63	138.31	69.56		1,855.89	5,469.97	6,365.36	6,259.12	106.25	59.912	
3,800.00	3,307.27	15,352.00	7,829.29	34.01	138.31	69.56		1,855.89	5,469.97	6,265.66	6,159.19	106.47	58.848	
3,900.00	3,383.39	15,352.00	7,829.29	35.40	138.31	69.56		1,855.89	5,469.97	6,165.97	6,059.26	106.71	57.784	
4,000.00	3,459.52	15,352.00	7,829.29	36.79	138.31	69.56		1,855.89	5,469.97	6,066.29	5,959.34	106.95	56.721	
4,100.00	3,535.65	15,352.00	7,829.29	38.18	138.31	69.56		1,855.89	5,469.97	5,966.62	5,859.42	107.20	55.659	
4,200.00	3,611.77	15,352.00	7,829.29	39.57	138.31	69.56		1,855.89	5,469.97	5,866.95	5,759.50	107.46	54.598	
4,300.00	3,687.90	15,352.00	7,829.29	40.96	138.31	69.56		1,855.89	5,469.97	5,767.31	5,659.58	107.72	53.537	
4,400.00	3,764.02	15,352.00	7,829.29	42.35	138.31	69.56		1,855.89	5,469.97	5,667.67	5,559.67	108.00	52.478	
4,500.00	3,840.15	15,352.00	7,829.29	43.74	138.31	69.56		1,855.89	5,469.97	5,568.05	5,459.76	108.29	51.419	
4,600.00	3,916.28	15,352.00	7,829.29	45.13	138.31	69.56		1,855.89	5,469.97	5,468.44	5,359.86	108.58	50.362	
4,700.00	3,992.40	15,352.00	7,829.29	46.53	138.31	69.56		1,855.89	5,469.97	5,368.84	5,259.96	108.89	49.306	
4,800.00	4,068.53	15,352.00	7,829.29	47.92	138.31	69.56		1,855.89	5,469.97	5,269.26	5,160.06	109.20	48.252	
4,900.00	4,144.66	15,352.00	7,829.29	49.32	138.31	69.56		1,855.89	5,469.97	5,169.70	5,060.17	109.53	47.199	
5,000.00	4,220.78	15,352.00	7,829.29	50.71	138.31	69.56		1,855.89	5,469.97	5,070.15	4,960.29	109.87	46.147	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	15,352.00	7,829.29	52.11	138.31	69.56	1,855.89	5,469.97	4,970.63	4,860.41	110.22	45.097		
5,200.00	4,373.03	15,352.00	7,829.29	53.51	138.31	69.56	1,855.89	5,469.97	4,871.12	4,760.53	110.58	44.049		
5,300.00	4,449.16	15,352.00	7,829.29	54.90	138.31	69.56	1,855.89	5,469.97	4,771.63	4,660.67	110.96	43.003		
5,400.00	4,525.29	15,352.00	7,829.29	56.30	138.31	69.56	1,855.89	5,469.97	4,672.16	4,560.81	111.35	41.958		
5,500.00	4,601.41	15,352.00	7,829.29	57.70	138.31	69.56	1,855.89	5,469.97	4,572.72	4,460.96	111.76	40.916		
5,600.00	4,677.54	15,352.00	7,829.29	59.10	138.31	69.56	1,855.89	5,469.97	4,473.30	4,361.12	112.18	39.876		
5,700.00	4,753.66	15,352.00	7,829.29	60.49	138.31	69.56	1,855.89	5,469.97	4,373.91	4,261.29	112.62	38.837		
5,800.00	4,829.79	15,352.00	7,829.29	61.89	138.31	69.56	1,855.89	5,469.97	4,274.55	4,161.47	113.08	37.801		
5,900.00	4,905.92	15,352.00	7,829.29	63.29	138.31	69.56	1,855.89	5,469.97	4,175.22	4,061.66	113.56	36.768		
6,000.00	4,982.04	15,352.00	7,829.29	64.69	138.31	69.56	1,855.89	5,469.97	4,075.92	3,961.86	114.05	35.737		
6,100.00	5,058.17	15,352.00	7,829.29	66.09	138.31	69.56	1,855.89	5,469.97	3,976.65	3,862.08	114.57	34.708		
6,200.00	5,134.30	15,352.00	7,829.29	67.49	138.31	69.56	1,855.89	5,469.97	3,877.43	3,762.31	115.12	33.682		
6,300.00	5,210.42	15,352.00	7,829.29	68.89	138.31	69.56	1,855.89	5,469.97	3,778.24	3,662.55	115.69	32.659		
6,400.00	5,286.55	15,352.00	7,829.29	70.29	138.31	69.56	1,855.89	5,469.97	3,679.10	3,562.81	116.28	31.639		
6,500.00	5,362.67	15,352.00	7,829.29	71.69	138.31	69.56	1,855.89	5,469.97	3,580.00	3,463.09	116.91	30.622		
6,600.00	5,438.80	15,352.00	7,829.29	73.09	138.31	69.56	1,855.89	5,469.97	3,480.96	3,363.39	117.57	29.608		
6,700.00	5,514.93	15,352.00	7,829.29	74.49	138.31	69.56	1,855.89	5,469.97	3,381.97	3,263.71	118.26	28.598		
6,800.00	5,591.05	15,352.00	7,829.29	75.89	138.31	69.56	1,855.89	5,469.97	3,283.05	3,164.06	118.99	27.591		
6,900.00	5,667.18	15,352.00	7,829.29	77.29	138.31	69.56	1,855.89	5,469.97	3,184.19	3,064.43	119.76	26.588		
7,000.00	5,743.30	15,352.00	7,829.29	78.69	138.31	69.56	1,855.89	5,469.97	3,085.41	2,964.83	120.58	25.588		
7,100.00	5,819.43	15,352.00	7,829.29	80.09	138.31	69.56	1,855.89	5,469.97	2,986.70	2,865.26	121.45	24.593		
7,200.00	5,895.56	15,352.00	7,829.29	81.49	138.31	69.56	1,855.89	5,469.97	2,888.09	2,765.72	122.37	23.602		
7,300.00	5,971.68	15,352.00	7,829.29	82.90	138.31	69.56	1,855.89	5,469.97	2,789.57	2,666.22	123.35	22.615		
7,400.00	6,047.81	15,352.00	7,829.29	84.30	138.31	69.56	1,855.89	5,469.97	2,691.17	2,566.77	124.40	21.634		
7,500.00	6,123.94	15,352.00	7,829.29	85.70	138.31	69.56	1,855.89	5,469.97	2,592.88	2,467.37	125.52	20.657		
7,600.00	6,200.06	15,352.00	7,829.29	87.10	138.31	69.56	1,855.89	5,469.97	2,494.74	2,368.01	126.72	19.687		
7,700.00	6,276.19	15,352.00	7,829.29	88.50	138.31	69.56	1,855.89	5,469.97	2,396.74	2,268.73	128.02	18.722		
7,800.00	6,352.31	15,352.00	7,829.29	89.90	138.31	69.56	1,855.89	5,469.97	2,298.92	2,169.51	129.41	17.764		
7,900.00	6,428.44	15,352.00	7,829.29	91.31	138.31	69.56	1,855.89	5,469.97	2,201.30	2,070.37	130.93	16.813		
8,000.00	6,504.57	15,352.00	7,829.29	92.71	138.31	69.56	1,855.89	5,469.97	2,103.89	1,971.32	132.57	15.870		
8,100.00	6,580.69	15,352.00	7,829.29	94.11	138.31	69.56	1,855.89	5,469.97	2,006.75	1,872.39	134.36	14.936		
8,200.00	6,656.82	15,352.00	7,829.29	95.51	138.31	69.56	1,855.89	5,469.97	1,909.89	1,773.58	136.31	14.011		
8,300.00	6,732.95	15,352.00	7,829.29	96.91	138.31	69.56	1,855.89	5,469.97	1,813.38	1,674.92	138.46	13.097		
8,400.00	6,809.07	15,352.00	7,829.29	98.32	138.31	69.56	1,855.89	5,469.97	1,717.27	1,576.44	140.83	12.194		
8,500.00	6,885.20	15,357.17	7,829.41	99.72	138.40	69.93	1,850.72	5,469.97	1,621.62	1,477.84	143.78	11.279		
8,600.00	6,961.32	15,333.20	7,828.87	101.12	137.98	68.16	1,874.68	5,469.98	1,526.43	1,381.33	145.10	10.520		
8,700.00	7,037.45	15,309.24	7,828.34	102.52	137.57	66.25	1,898.65	5,470.00	1,431.50	1,284.92	146.57	9.766		
8,732.15	7,061.92	15,301.53	7,828.17	102.97	137.43	65.60	1,906.35	5,470.00	1,401.04	1,253.95	147.09	9.525		
8,750.00	7,075.57	15,298.48	7,828.08	103.22	137.38	59.39	1,910.36	5,470.01	1,384.08	1,236.68	147.40	9.390		
8,800.00	7,114.27	15,290.69	7,827.93	103.91	137.24	38.74	1,917.19	5,470.01	1,336.08	1,187.71	148.37	9.005		
8,850.00	7,153.47	15,287.31	7,827.86	104.58	137.19	13.55	1,920.57	5,470.02	1,287.64	1,138.29	149.35	8.622		
8,900.00	7,192.85	15,287.56	7,827.87	105.21	137.19	-12.64	1,920.32	5,470.02	1,239.14	1,088.80	150.34	8.242		
8,950.00	7,232.12	15,291.48	7,827.95	105.80	137.26	-35.37	1,916.39	5,470.01	1,190.96	1,039.62	151.34	7.870		
9,000.00	7,270.99	15,299.32	7,828.12	106.35	137.39	-53.18	1,908.55	5,470.00	1,143.48	991.14	152.35	7.506		
9,050.00	7,309.16	15,312.61	7,828.42	106.85	137.62	-66.74	1,895.27	5,470.00	1,097.08	943.57	153.51	7.147		
9,100.00	7,346.32	15,330.05	7,828.80	107.30	137.93	-77.32	1,877.84	5,469.98	1,052.11	897.38	154.73	6.800		
9,150.00	7,382.22	15,351.50	7,829.28	107.69	138.30	-85.72	1,856.39	5,469.97	1,008.92	852.93	155.99	6.468		
9,200.00	7,416.56	15,352.00	7,829.29	108.02	138.31	-93.49	1,855.89	5,469.97	968.14	813.36	154.78	6.255		
9,250.00	7,449.09	15,352.00	7,829.29	108.29	138.31	-99.73	1,855.89	5,469.97	930.69	777.68	153.01	6.083		
9,300.00	7,479.56	15,352.00	7,829.29	108.51	138.31	-104.74	1,855.89	5,469.97	897.29	746.53	150.76	5.952		
9,350.00	7,507.74	15,352.00	7,829.29	108.68	138.31	-108.77	1,855.89	5,469.97	868.66	720.45	148.21	5.861		
9,400.00	7,533.41	15,352.00	7,829.29	108.79	138.31	-111.97	1,855.89	5,469.97	845.53	699.83	145.70	5.803		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,450.00	7,556.39	15,352.00	7,829.29	108.86	138.31	-114.47	1,855.89	5,469.97	828.53	684.80	143.74	5.764		
9,500.00	7,576.48	15,352.00	7,829.29	108.88	138.31	-116.35	1,855.89	5,469.97	818.19	675.38	142.81	5.729		
9,548.71	7,593.15	15,352.00	7,829.29	108.86	138.31	-117.64	1,855.89	5,469.97	814.82	671.81	143.01	5.698 CC		
9,550.00	7,593.55	15,352.00	7,829.29	108.86	138.31	-117.67	1,855.89	5,469.97	814.82	671.79	143.03	5.697 ES		
9,600.00	7,607.46	15,352.00	7,829.29	108.80	138.31	-118.45	1,855.89	5,469.97	818.55	674.47	144.08	5.681 SF		
9,650.00	7,618.11	15,352.00	7,829.29	108.71	138.31	-118.72	1,855.89	5,469.97	829.25	683.76	145.49	5.700		
9,700.00	7,625.41	15,352.00	7,829.29	108.59	138.31	-118.46	1,855.89	5,469.97	846.58	699.70	146.88	5.764		
9,750.00	7,629.30	15,352.00	7,829.29	108.45	138.31	-117.63	1,855.89	5,469.97	870.01	721.97	148.04	5.877		
9,781.81	7,630.00	15,352.00	7,829.29	108.35	138.31	-116.78	1,855.89	5,469.97	887.80	739.18	148.62	5.974		
9,800.00	7,630.00	15,352.00	7,829.29	108.29	138.31	-116.78	1,855.89	5,469.97	898.70	749.79	148.90	6.035		
9,900.00	7,630.00	15,352.00	7,829.29	107.97	138.31	-116.78	1,855.89	5,469.97	962.52	812.45	150.07	6.414		
10,000.00	7,630.00	15,352.00	7,829.29	107.67	138.31	-116.78	1,855.89	5,469.97	1,032.10	881.45	150.65	6.851		
10,100.00	7,630.00	15,352.00	7,829.29	107.38	138.31	-116.78	1,855.89	5,469.97	1,106.35	955.58	150.77	7.338		
10,200.00	7,630.00	15,352.00	7,829.29	107.10	138.31	-116.78	1,855.89	5,469.97	1,184.40	1,033.84	150.56	7.867		
10,300.00	7,630.00	15,352.00	7,829.29	106.84	138.31	-116.78	1,855.89	5,469.97	1,265.54	1,115.39	150.14	8.429		
10,400.00	7,630.00	15,352.00	7,829.29	106.59	138.31	-116.78	1,855.89	5,469.97	1,349.21	1,199.61	149.60	9.019		
10,500.00	7,630.00	15,352.00	7,829.29	106.35	138.31	-116.78	1,855.89	5,469.97	1,434.98	1,285.99	148.98	9.632		
10,600.00	7,630.00	15,352.00	7,829.29	106.13	138.31	-116.78	1,855.89	5,469.97	1,522.48	1,374.13	148.34	10.263		
10,700.00	7,630.00	15,352.00	7,829.29	105.92	138.31	-116.78	1,855.89	5,469.97	1,611.44	1,463.73	147.70	10.910		
10,800.00	7,630.00	15,352.00	7,829.29	105.72	138.31	-116.78	1,855.89	5,469.97	1,701.62	1,554.54	147.08	11.569		
10,900.00	7,630.00	15,352.00	7,829.29	105.54	138.31	-116.78	1,855.89	5,469.97	1,792.85	1,646.36	146.49	12.239		
11,000.00	7,630.00	15,352.00	7,829.29	105.37	138.31	-116.78	1,855.89	5,469.97	1,884.96	1,739.04	145.93	12.917		
11,100.00	7,630.00	15,352.00	7,829.29	105.21	138.31	-116.78	1,855.89	5,469.97	1,977.84	1,832.44	145.40	13.603		
11,200.00	7,630.00	15,352.00	7,829.29	105.06	138.31	-116.78	1,855.89	5,469.97	2,071.39	1,926.47	144.91	14.294		
11,300.00	7,630.00	15,352.00	7,829.29	104.93	138.31	-116.78	1,855.89	5,469.97	2,165.51	2,021.05	144.46	14.990		
11,400.00	7,630.00	15,352.00	7,829.29	104.82	138.31	-116.78	1,855.89	5,469.97	2,260.14	2,116.09	144.05	15.690		
11,500.00	7,630.00	15,352.00	7,829.29	104.72	138.31	-116.78	1,855.89	5,469.97	2,355.21	2,211.54	143.67	16.394		
11,600.00	7,630.00	15,352.00	7,829.29	104.63	138.31	-116.78	1,855.89	5,469.97	2,450.67	2,307.36	143.32	17.100		
11,700.00	7,630.00	15,352.00	7,829.29	104.55	138.31	-116.78	1,855.89	5,469.97	2,546.48	2,403.49	142.99	17.808		
11,800.00	7,630.00	15,352.00	7,829.29	104.50	138.31	-116.78	1,855.89	5,469.97	2,642.61	2,499.90	142.70	18.518		
11,900.00	7,630.00	15,352.00	7,829.29	104.45	138.31	-116.78	1,855.89	5,469.97	2,739.00	2,596.57	142.43	19.230		
12,000.00	7,630.00	15,352.00	7,829.29	104.43	138.31	-116.78	1,855.89	5,469.97	2,835.65	2,693.46	142.19	19.943		
12,100.00	7,630.00	15,352.00	7,829.29	104.42	138.31	-116.78	1,855.89	5,469.97	2,932.53	2,790.56	141.97	20.656		
12,200.00	7,630.00	15,352.00	7,829.29	104.42	138.31	-116.78	1,855.89	5,469.97	3,029.60	2,887.84	141.76	21.371		
12,300.00	7,630.00	15,352.00	7,829.29	104.45	138.31	-116.78	1,855.89	5,469.97	3,126.87	2,985.29	141.58	22.086		
12,400.00	7,630.00	15,352.00	7,829.29	104.49	138.31	-116.78	1,855.89	5,469.97	3,224.29	3,082.88	141.41	22.801		
12,500.00	7,630.00	15,352.00	7,829.29	104.55	138.31	-116.78	1,855.89	5,469.97	3,321.88	3,180.62	141.26	23.516		
12,600.00	7,630.00	15,352.00	7,829.29	104.63	138.31	-116.78	1,855.89	5,469.97	3,419.60	3,278.48	141.12	24.232		
12,700.00	7,630.00	15,352.00	7,829.29	104.73	138.31	-116.78	1,855.89	5,469.97	3,517.45	3,376.45	140.99	24.948		
12,800.00	7,630.00	15,352.00	7,829.29	104.85	138.31	-116.78	1,855.89	5,469.97	3,615.41	3,474.54	140.88	25.664		
12,900.00	7,630.00	15,352.00	7,829.29	104.99	138.31	-116.78	1,855.89	5,469.97	3,713.49	3,572.72	140.77	26.379		
13,000.00	7,630.00	15,352.00	7,829.29	105.15	138.31	-116.78	1,855.89	5,469.97	3,811.66	3,670.99	140.68	27.095		
13,100.00	7,630.00	15,352.00	7,829.29	105.34	138.31	-116.78	1,855.89	5,469.97	3,909.93	3,769.34	140.59	27.810		
13,200.00	7,630.00	15,352.00	7,829.29	105.56	138.31	-116.78	1,855.89	5,469.97	4,008.29	3,867.77	140.52	28.525		
13,300.00	7,630.00	15,352.00	7,829.29	105.80	138.31	-116.78	1,855.89	5,469.97	4,106.72	3,966.27	140.45	29.240		
13,400.00	7,630.00	15,352.00	7,829.29	106.06	138.31	-116.78	1,855.89	5,469.97	4,205.23	4,064.84	140.39	29.955		
13,500.00	7,630.00	15,352.00	7,829.29	106.36	138.31	-116.78	1,855.89	5,469.97	4,303.80	4,163.47	140.33	30.669		
13,600.00	7,630.00	15,352.00	7,829.29	106.68	138.31	-116.78	1,855.89	5,469.97	4,402.44	4,262.16	140.28	31.383		
13,700.00	7,630.00	15,352.00	7,829.29	107.03	138.31	-116.78	1,855.89	5,469.97	4,501.14	4,360.91	140.24	32.097		
13,800.00	7,630.00	15,352.00	7,829.29	107.42	138.31	-116.78	1,855.89	5,469.97	4,599.90	4,459.70	140.20	32.810		
13,900.00	7,630.00	15,352.00	7,829.29	107.83	138.31	-116.78	1,855.89	5,469.97	4,698.71	4,558.55	140.16	33.524		
14,000.00	7,630.00	15,352.00	7,829.29	108.28	138.31	-116.78	1,855.89	5,469.97	4,797.57	4,657.44	140.13	34.236		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	15,352.00	7,829.29	108.77	138.31	-116.78	1,855.89	5,469.97	4,896.47	4,756.37	140.10	34.949		
14,200.00	7,630.00	15,352.00	7,829.29	109.29	138.31	-116.78	1,855.89	5,469.97	4,995.42	4,855.34	140.08	35.661		
14,300.00	7,630.00	15,352.00	7,829.29	109.84	138.31	-116.78	1,855.89	5,469.97	5,094.41	4,954.35	140.06	36.373		
14,400.00	7,630.00	15,352.00	7,829.29	110.43	138.31	-116.78	1,855.89	5,469.97	5,193.44	5,053.39	140.04	37.084		
14,500.00	7,630.00	15,352.00	7,829.29	111.06	138.31	-116.78	1,855.89	5,469.97	5,292.50	5,152.47	140.03	37.795		
14,600.00	7,630.00	15,352.00	7,829.29	111.72	138.31	-116.78	1,855.89	5,469.97	5,391.60	5,251.58	140.02	38.506		
14,700.00	7,630.00	15,352.00	7,829.29	112.42	138.31	-116.78	1,855.89	5,469.97	5,490.73	5,350.72	140.01	39.216		
14,800.00	7,630.00	15,352.00	7,829.29	113.16	138.31	-116.78	1,855.89	5,469.97	5,589.89	5,449.89	140.01	39.926		
14,900.00	7,630.00	15,352.00	7,829.29	113.94	138.31	-116.78	1,855.89	5,469.97	5,689.09	5,549.08	140.00	40.636		
15,000.00	7,630.00	15,352.00	7,829.29	114.75	138.31	-116.78	1,855.89	5,469.97	5,788.31	5,648.31	140.00	41.345		
15,100.00	7,630.00	15,352.00	7,829.29	115.60	138.31	-116.78	1,855.89	5,469.97	5,887.55	5,747.55	140.00	42.054		
15,200.00	7,630.00	15,352.00	7,829.29	116.48	138.31	-116.78	1,855.89	5,469.97	5,986.82	5,846.82	140.00	42.763		
15,300.00	7,630.00	15,352.00	7,829.29	117.40	138.31	-116.78	1,855.89	5,469.97	6,086.12	5,946.11	140.00	43.471		
15,400.00	7,630.00	15,352.00	7,829.29	118.35	138.31	-116.78	1,855.89	5,469.97	6,185.44	6,045.43	140.01	44.179		
15,500.00	7,630.00	15,352.00	7,829.29	119.34	138.31	-116.78	1,855.89	5,469.97	6,284.78	6,144.76	140.02	44.886		
15,600.00	7,630.00	15,352.00	7,829.29	120.35	138.31	-116.78	1,855.89	5,469.97	6,384.14	6,244.11	140.02	45.593		
15,700.00	7,630.00	15,352.00	7,829.29	121.40	138.31	-116.78	1,855.89	5,469.97	6,483.52	6,343.48	140.03	46.300		
15,800.00	7,630.00	15,352.00	7,829.29	122.48	138.31	-116.78	1,855.89	5,469.97	6,582.92	6,442.87	140.04	47.007		
15,900.00	7,630.00	15,352.00	7,829.29	123.58	138.31	-116.78	1,855.89	5,469.97	6,682.33	6,542.28	140.05	47.713		
16,000.00	7,630.00	15,352.00	7,829.29	124.71	138.31	-116.78	1,855.89	5,469.97	6,781.77	6,641.70	140.06	48.419		
16,100.00	7,630.00	15,352.00	7,829.29	125.87	138.31	-116.78	1,855.89	5,469.97	6,881.22	6,741.14	140.08	49.124		
16,200.00	7,630.00	15,352.00	7,829.29	127.05	138.31	-116.78	1,855.89	5,469.97	6,980.68	6,840.59	140.09	49.829		
16,300.00	7,630.00	15,352.00	7,829.29	128.26	138.31	-116.78	1,855.89	5,469.97	7,080.16	6,940.06	140.11	50.534		
16,400.00	7,630.00	15,352.00	7,829.29	129.48	138.31	-116.78	1,855.89	5,469.97	7,179.66	7,039.54	140.12	51.239		
16,500.00	7,630.00	15,352.00	7,829.29	130.73	138.31	-116.78	1,855.89	5,469.97	7,279.17	7,139.03	140.14	51.943		
16,600.00	7,630.00	15,352.00	7,829.29	132.00	138.31	-116.78	1,855.89	5,469.97	7,378.69	7,238.53	140.16	52.646		
16,700.00	7,630.00	15,352.00	7,829.29	133.29	138.31	-116.78	1,855.89	5,469.97	7,478.22	7,338.05	140.17	53.350		
16,800.00	7,630.00	15,352.00	7,829.29	134.59	138.31	-116.78	1,855.89	5,469.97	7,577.77	7,437.58	140.19	54.053		
16,900.00	7,630.00	15,352.00	7,829.29	135.91	138.31	-116.78	1,855.89	5,469.97	7,677.33	7,537.12	140.21	54.756		
17,000.00	7,630.00	15,352.00	7,829.29	137.25	138.31	-116.78	1,855.89	5,469.97	7,776.90	7,636.67	140.23	55.458		
17,100.00	7,630.00	15,352.00	7,829.29	138.61	138.31	-116.78	1,855.89	5,469.97	7,876.48	7,736.23	140.25	56.160		
17,200.00	7,630.00	15,352.00	7,829.29	139.97	138.31	-116.78	1,855.89	5,469.97	7,976.07	7,835.80	140.27	56.862		
17,300.00	7,630.00	15,352.00	7,829.29	141.36	138.31	-116.78	1,855.89	5,469.97	8,075.68	7,935.38	140.29	57.563		
17,400.00	7,630.00	15,352.00	7,829.29	142.75	138.31	-116.78	1,855.89	5,469.97	8,175.29	8,034.97	140.31	58.264		
17,500.00	7,630.00	15,352.00	7,829.29	144.16	138.31	-116.78	1,855.89	5,469.97	8,274.91	8,134.57	140.34	58.965		
17,600.00	7,630.00	15,352.00	7,829.29	145.58	138.31	-116.78	1,855.89	5,469.97	8,374.54	8,234.18	140.36	59.665		
17,700.00	7,630.00	15,352.00	7,829.29	147.01	138.31	-116.78	1,855.89	5,469.97	8,474.18	8,333.80	140.38	60.365		
17,800.00	7,630.00	15,352.00	7,829.29	148.45	138.31	-116.78	1,855.89	5,469.97	8,573.83	8,433.42	140.40	61.065		
17,900.00	7,630.00	15,352.00	7,829.29	149.91	138.31	-116.78	1,855.89	5,469.97	8,673.48	8,533.05	140.43	61.764		
18,000.00	7,630.00	15,352.00	7,829.29	151.37	138.31	-116.78	1,855.89	5,469.97	8,773.14	8,632.69	140.45	62.463		
18,100.00	7,630.00	15,352.00	7,829.29	152.84	138.31	-116.78	1,855.89	5,469.97	8,872.81	8,732.34	140.48	63.162		
18,200.00	7,630.00	15,352.00	7,829.29	154.32	138.31	-116.78	1,855.89	5,469.97	8,972.49	8,831.99	140.50	63.860		
18,300.00	7,630.00	15,352.00	7,829.29	155.81	138.31	-116.78	1,855.89	5,469.97	9,072.18	8,931.65	140.53	64.558		
18,400.00	7,630.00	15,352.00	7,829.29	157.31	138.31	-116.78	1,855.89	5,469.97	9,171.87	9,031.32	140.55	65.256		
18,500.00	7,630.00	15,352.00	7,829.29	158.81	138.31	-116.78	1,855.89	5,469.97	9,271.57	9,130.99	140.58	65.953		
18,600.00	7,630.00	15,352.00	7,829.29	160.32	138.31	-116.78	1,855.89	5,469.97	9,371.27	9,230.67	140.60	66.650		
18,700.00	7,630.00	15,352.00	7,829.29	161.84	138.31	-116.78	1,855.89	5,469.97	9,470.98	9,330.35	140.63	67.347		
18,800.00	7,630.00	15,352.00	7,829.29	163.37	138.31	-116.78	1,855.89	5,469.97	9,570.70	9,430.04	140.66	68.043		
18,900.00	7,630.00	15,352.00	7,829.29	164.90	138.31	-116.78	1,855.89	5,469.97	9,670.42	9,529.74	140.68	68.739		
19,000.00	7,630.00	15,352.00	7,829.29	166.43	138.31	-116.78	1,855.89	5,469.97	9,770.15	9,629.44	140.71	69.434		
19,100.00	7,630.00	15,352.00	7,829.29	167.98	138.31	-116.78	1,855.89	5,469.97	9,869.89	9,729.15	140.74	70.129		
19,200.00	7,630.00	15,352.00	7,829.29	169.53	138.31	-116.78	1,855.89	5,469.97	9,969.63	9,828.86	140.77	70.824		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	58.21	2,114.20	3,411.26	4,013.47					
100.00	100.00	52.04	52.04	0.13	0.10	58.21	2,114.20	3,411.30	4,013.35	4,013.12	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.21	2,114.22	3,411.85	4,013.98	4,013.13	0.85	4,709.577		
300.00	300.00	204.71	204.70	0.85	0.64	58.22	2,114.53	3,412.81	4,015.21	4,013.71	1.50	2,684.308		
400.00	400.00	307.75	307.73	1.21	1.01	58.22	2,115.36	3,414.08	4,016.69	4,014.46	2.22	1,807.384		
500.00	499.98	444.52	444.49	1.56	1.50	-8.50	2,115.21	3,415.60	4,015.83	4,012.77	3.06	1,311.338		
600.00	599.84	539.43	539.40	1.92	1.84	-8.51	2,114.52	3,416.60	4,011.17	4,007.42	3.75	1,068.257		
700.00	699.45	636.64	636.60	2.29	2.18	-8.54	2,114.41	3,417.44	4,003.22	3,998.76	4.46	897.504		
800.00	798.70	778.33	778.29	2.67	2.67	-8.63	2,115.10	3,417.13	3,991.22	3,985.91	5.31	751.681		
900.00	897.47	909.98	909.93	3.07	3.11	-8.72	2,114.39	3,416.30	3,974.94	3,968.82	6.12	649.357		
1,000.00	995.62	993.00	992.94	3.50	3.39	-8.82	2,113.87	3,415.51	3,954.97	3,948.20	6.77	583.879		
1,100.00	1,093.06	1,084.91	1,084.85	3.96	3.71	-8.95	2,114.04	3,414.63	3,932.04	3,924.58	7.46	526.950		
1,200.00	1,189.64	1,197.86	1,197.79	4.46	4.10	-9.11	2,114.12	3,413.38	3,905.60	3,897.37	8.23	474.636		
1,300.00	1,285.27	1,310.60	1,310.52	5.00	4.49	-9.31	2,113.94	3,411.93	3,875.61	3,866.61	9.00	430.568		
1,400.00	1,379.82	1,408.83	1,408.72	5.60	4.83	-9.53	2,114.04	3,409.46	3,841.47	3,831.74	9.73	394.803		
1,500.00	1,473.17	1,467.00	1,466.89	6.25	5.04	-9.72	2,114.02	3,408.76	3,805.03	3,794.70	10.33	368.351		
1,600.00	1,565.21	1,787.02	1,786.03	6.95	6.17	-9.95	2,093.10	3,407.41	3,762.86	3,751.06	11.80	318.803		
1,700.00	1,655.84	1,884.59	1,882.73	7.72	6.53	-10.08	2,080.11	3,407.43	3,714.76	3,702.22	12.54	296.122		
1,800.00	1,744.94	1,982.65	1,979.53	8.55	6.90	-10.17	2,064.51	3,408.99	3,663.65	3,650.35	13.30	275.501		
1,900.00	1,832.39	2,063.13	2,058.68	9.45	7.21	-10.28	2,050.09	3,410.94	3,609.29	3,595.29	14.01	257.714		
2,000.00	1,918.11	2,125.71	2,120.06	10.41	7.46	-10.42	2,038.12	3,413.28	3,552.46	3,537.80	14.66	242.316		
2,100.00	2,001.97	2,183.35	2,176.55	11.45	7.70	-10.59	2,027.02	3,415.89	3,493.35	3,478.04	15.31	228.187		
2,200.00	2,083.88	2,246.55	2,238.53	12.56	7.96	-10.77	2,015.07	3,419.05	3,431.96	3,415.98	15.98	214.703		
2,300.00	2,163.74	2,336.44	2,326.79	13.74	8.33	-10.94	1,998.59	3,423.45	3,368.12	3,351.37	16.75	201.070		
2,400.00	2,241.45	2,425.66	2,414.38	14.99	8.71	-11.17	1,982.01	3,427.01	3,300.94	3,283.43	17.51	188.480		
2,421.22	2,257.65	2,437.76	2,426.27	15.26	8.76	-11.23	1,979.80	3,427.47	3,286.39	3,268.73	17.66	186.114		
2,500.00	2,317.63	2,494.89	2,482.44	16.29	9.00	-11.17	1,969.62	3,429.68	3,232.27	3,214.05	18.21	177.474		
2,600.00	2,393.75	2,608.11	2,593.52	17.62	9.50	-11.01	1,948.03	3,433.22	3,162.43	3,143.39	19.04	166.100		
2,700.00	2,469.88	2,656.04	2,640.55	18.95	9.71	-10.94	1,938.91	3,434.81	3,092.96	3,073.27	19.69	157.121		
2,800.00	2,546.01	2,705.27	2,688.91	20.30	9.92	-10.87	1,929.89	3,436.69	3,024.04	3,003.69	20.35	148.632		
2,900.00	2,622.13	2,760.00	2,742.75	21.65	10.16	-10.80	1,920.29	3,439.01	2,955.68	2,934.65	21.03	140.541		
3,000.00	2,698.26	2,867.11	2,847.95	23.01	10.64	-10.63	1,900.75	3,443.66	2,887.17	2,865.32	21.85	132.158		
3,100.00	2,774.38	2,928.34	2,908.12	24.37	10.91	-10.53	1,889.61	3,446.05	2,818.36	2,795.80	22.56	124.937		
3,200.00	2,850.51	3,017.89	2,996.08	25.74	11.31	-10.38	1,873.16	3,449.44	2,749.44	2,726.11	23.33	117.836		
3,300.00	2,926.64	3,078.99	3,055.91	27.11	11.59	-10.25	1,861.07	3,452.03	2,680.30	2,656.24	24.05	111.425		
3,400.00	3,002.76	3,132.00	3,107.93	28.49	11.83	-10.14	1,851.15	3,454.40	2,611.67	2,586.90	24.77	105.429		
3,500.00	3,078.89	3,239.37	3,213.33	29.87	12.32	-9.91	1,831.14	3,458.75	2,542.84	2,517.27	25.57	99.456		
3,600.00	3,155.02	3,291.13	3,264.21	31.25	12.56	-9.81	1,821.86	3,460.57	2,473.91	2,447.62	26.29	94.106		
3,700.00	3,231.14	3,365.84	3,337.80	32.63	12.89	-9.68	1,809.22	3,463.03	2,405.27	2,378.23	27.04	88.959		
3,800.00	3,307.27	3,456.51	3,426.97	34.01	13.31	-9.49	1,793.04	3,465.90	2,336.21	2,308.41	27.79	84.055		
3,900.00	3,383.39	3,534.60	3,503.61	35.40	13.66	-9.29	1,778.23	3,468.29	2,266.66	2,238.12	28.54	79.428		
4,000.00	3,459.52	3,595.74	3,563.76	36.79	13.94	-9.15	1,767.41	3,469.86	2,197.31	2,168.02	29.28	75.042		
4,100.00	3,535.65	3,652.31	3,619.53	38.18	14.20	-9.04	1,758.02	3,471.35	2,128.39	2,098.36	30.03	70.871		
4,200.00	3,611.77	3,712.91	3,679.24	39.57	14.47	-8.90	1,747.88	3,473.51	2,060.02	2,029.23	30.79	66.910		
4,300.00	3,687.90	3,788.63	3,753.78	40.96	14.82	-8.70	1,734.95	3,476.49	1,991.77	1,960.24	31.54	63.158		
4,400.00	3,764.02	3,854.52	3,818.58	42.35	15.12	-8.49	1,723.36	3,479.36	1,923.61	1,891.31	32.30	59.556		
4,500.00	3,840.15	3,969.26	3,931.20	43.74	15.66	-8.05	1,701.97	3,484.33	1,855.25	1,822.28	32.97	56.270		
4,600.00	3,916.28	4,028.08	3,988.95	45.13	15.93	-7.83	1,690.98	3,485.96	1,785.77	1,752.03	33.74	52.934		
4,700.00	3,992.40	4,081.82	4,041.99	46.53	16.17	-7.67	1,682.44	3,487.30	1,717.10	1,682.57	34.53	49.728		
4,800.00	4,068.53	4,143.22	4,102.68	47.92	16.44	-7.50	1,673.24	3,489.12	1,649.07	1,613.76	35.31	46.706		
4,900.00	4,144.66	4,253.55	4,211.51	49.32	16.94	-7.10	1,655.47	3,492.58	1,580.91	1,545.01	35.90	44.038		
5,000.00	4,220.78	4,332.43	4,289.08	50.71	17.30	-6.74	1,641.29	3,494.12	1,511.21	1,474.62	36.59	41.299		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,402.72	4,358.14	52.11	17.63	-6.35	1,628.26	3,495.60	1,441.46	1,404.14	37.32	38.619		
5,200.00	4,373.03	4,472.68	4,426.71	53.51	17.96	-5.88	1,614.52	3,497.63	1,371.87	1,333.81	38.06	36.046		
5,300.00	4,449.16	4,546.64	4,499.16	54.90	18.32	-5.32	1,599.80	3,499.80	1,302.27	1,263.50	38.77	33.591		
5,400.00	4,525.29	4,628.28	4,579.12	56.30	18.71	-4.63	1,583.44	3,501.77	1,232.37	1,192.95	39.41	31.269		
5,500.00	4,601.41	4,690.17	4,639.76	57.70	19.01	-4.05	1,571.15	3,503.07	1,162.41	1,122.20	40.21	28.905		
5,600.00	4,677.54	4,751.08	4,699.56	59.10	19.30	-3.46	1,559.75	3,504.70	1,093.26	1,052.22	41.05	26.635		
5,700.00	4,753.66	4,817.13	4,764.56	60.49	19.60	-2.80	1,548.16	3,506.61	1,024.72	982.87	41.85	24.488		
5,800.00	4,829.79	4,886.46	4,832.86	61.89	19.92	-2.04	1,536.46	3,508.76	956.61	913.98	42.63	22.441		
5,900.00	4,905.92	4,958.96	4,904.23	63.29	20.26	-1.09	1,523.93	3,511.30	888.78	845.38	43.39	20.482		
6,000.00	4,982.04	5,032.96	4,977.13	64.69	20.60	0.00	1,511.42	3,513.61	820.94	776.79	44.16	18.591		
6,100.00	5,058.17	5,103.31	5,046.56	66.09	20.91	1.13	1,500.26	3,515.57	753.38	708.36	45.01	16.737		
6,200.00	5,134.30	5,172.09	5,114.51	67.49	21.22	2.40	1,489.83	3,517.60	686.32	640.37	45.95	14.935		
6,300.00	5,210.42	5,241.37	5,182.92	68.89	21.53	3.97	1,479.13	3,520.21	620.01	573.01	47.00	13.192		
6,400.00	5,286.55	5,312.58	5,253.19	70.29	21.85	5.96	1,468.05	3,523.38	554.52	506.34	48.19	11.508		
6,500.00	5,362.67	5,389.54	5,329.09	71.69	22.20	8.69	1,455.83	3,526.75	489.46	439.91	49.54	9.879		
6,600.00	5,438.80	5,464.23	5,402.84	73.09	22.53	12.04	1,444.33	3,529.55	424.86	373.46	51.40	8.266		
6,700.00	5,514.93	5,540.52	5,478.32	74.49	22.87	16.39	1,433.48	3,531.85	361.08	307.12	53.95	6.693		
6,800.00	5,591.05	5,614.23	5,551.20	75.89	23.19	22.25	1,422.63	3,533.59	298.56	240.54	58.02	5.145		
6,900.00	5,667.18	5,685.40	5,621.55	77.29	23.51	30.26	1,412.08	3,535.61	239.68	174.96	64.72	3.704		
7,000.00	5,743.30	5,757.57	5,692.87	78.69	23.83	41.90	1,401.29	3,538.13	187.71	112.16	75.55	2.485		
7,100.00	5,819.43	5,830.88	5,765.25	80.09	24.16	58.43	1,389.99	3,540.87	149.43	58.75	90.68	1.648		
7,190.18	5,888.08	5,897.60	5,831.08	81.36	24.46	76.94	1,379.37	3,543.12	136.49	35.11	101.38	1.346 Level 3, CC		
7,200.00	5,895.56	5,905.05	5,838.44	81.49	24.49	79.07	1,378.24	3,543.37	136.65	34.73	101.92	1.341 Level 3, ES, SF		
7,300.00	5,971.68	5,980.59	5,913.19	82.90	24.82	99.40	1,367.61	3,545.90	154.69	54.93	99.76	1.551		
7,400.00	6,047.81	6,052.62	5,984.45	84.30	25.14	114.75	1,357.41	3,548.34	195.81	104.49	91.32	2.144		
7,500.00	6,123.94	6,125.66	6,056.63	85.70	25.46	125.79	1,346.58	3,550.93	249.18	164.89	84.29	2.956		
7,600.00	6,200.06	6,202.63	6,132.73	87.10	25.80	133.83	1,335.35	3,553.80	308.05	228.23	79.81	3.860		
7,700.00	6,276.19	6,278.58	6,208.00	88.50	26.13	139.60	1,325.58	3,556.38	368.97	292.23	76.74	4.808		
7,800.00	6,352.31	6,350.86	6,279.61	89.90	26.43	143.65	1,316.07	3,558.75	431.95	357.37	74.58	5.792		
7,900.00	6,428.44	6,427.12	6,355.18	91.31	26.76	146.92	1,306.14	3,561.25	495.98	422.61	73.37	6.760		
8,000.00	6,504.57	6,511.70	6,439.16	92.71	27.11	149.81	1,296.41	3,564.03	559.94	487.00	72.94	7.677		
8,100.00	6,580.69	6,587.64	6,514.70	94.11	27.41	152.01	1,289.13	3,566.35	623.55	551.20	72.35	8.618		
8,200.00	6,656.82	6,659.91	6,586.65	95.51	27.69	153.78	1,282.44	3,568.06	687.83	615.95	71.88	9.569		
8,300.00	6,732.95	6,732.72	6,659.15	96.91	27.98	155.34	1,275.88	3,569.16	752.81	681.20	71.61	10.513		
8,400.00	6,809.07	6,813.89	6,740.06	98.32	28.28	156.88	1,269.48	3,570.03	817.79	746.08	71.71	11.404		
8,500.00	6,885.20	6,902.61	6,828.62	99.72	28.60	158.41	1,264.22	3,570.93	882.13	810.07	72.06	12.241		
8,600.00	6,961.32	6,990.12	6,916.06	101.12	28.90	159.80	1,260.83	3,571.97	945.63	873.24	72.38	13.064		
8,700.00	7,037.45	7,074.21	7,000.11	102.52	29.18	161.01	1,258.82	3,573.11	1,008.55	935.90	72.65	13.882		
8,732.15	7,061.92	7,101.43	7,027.33	102.97	29.27	161.38	1,258.37	3,573.49	1,028.71	955.96	72.75	14.140		
8,750.00	7,075.57	7,117.07	7,042.97	103.22	29.32	158.46	1,258.15	3,573.72	1,039.75	966.94	72.81	14.280		
8,800.00	7,114.27	7,161.70	7,087.59	103.91	29.46	150.45	1,257.70	3,574.45	1,069.12	996.22	72.91	14.664		
8,850.00	7,153.47	7,204.80	7,130.68	104.58	29.59	142.64	1,257.51	3,575.23	1,096.13	1,023.28	72.86	15.045		
8,900.00	7,192.85	7,244.42	7,170.30	105.21	29.71	135.08	1,257.55	3,575.83	1,120.87	1,048.23	72.64	15.431		
8,950.00	7,232.12	7,283.65	7,209.52	105.80	29.82	127.95	1,257.82	3,576.26	1,143.33	1,070.99	72.34	15.805		
9,000.00	7,270.99	7,358.26	7,284.08	106.35	30.02	122.50	1,260.40	3,577.04	1,162.94	1,090.32	72.62	16.014		
9,050.00	7,309.16	7,437.70	7,363.10	106.85	30.20	118.15	1,268.14	3,577.87	1,179.08	1,106.29	72.78	16.200		
9,100.00	7,346.32	7,548.05	7,471.11	107.30	30.39	116.06	1,290.40	3,577.64	1,192.21	1,119.17	73.05	16.321		
9,150.00	7,382.22	7,610.87	7,530.90	107.69	30.47	113.24	1,309.62	3,577.55	1,201.71	1,128.92	72.79	16.508		
9,200.00	7,416.56	7,636.02	7,554.37	108.02	30.49	109.64	1,318.63	3,577.17	1,209.83	1,137.47	72.36	16.719		
9,250.00	7,449.09	7,654.38	7,571.33	108.29	30.51	106.39	1,325.64	3,576.66	1,217.04	1,145.04	72.01	16.902		
9,300.00	7,479.56	7,682.05	7,596.56	108.51	30.53	104.13	1,336.96	3,575.67	1,223.46	1,151.49	71.97	17.000		
9,350.00	7,507.74	7,705.13	7,617.24	108.68	30.55	102.19	1,347.17	3,574.83	1,229.10	1,156.96	72.14	17.037		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,400.00	7,533.41	7,755.00	7,660.55	108.79	30.57	101.94	1,371.81	3,573.28	1,234.15	1,160.98	73.17	16.866		
9,450.00	7,556.39	7,733.56	7,642.19	108.86	30.56	98.76	1,360.76	3,573.86	1,238.76	1,165.70	73.06	16.955		
9,500.00	7,576.48	7,711.90	7,623.24	108.88	30.55	95.95	1,350.30	3,574.58	1,242.88	1,169.83	73.05	17.014		
9,550.00	7,593.55	7,701.55	7,614.05	108.86	30.55	94.00	1,345.54	3,574.96	1,246.41	1,172.90	73.51	16.957		
9,600.00	7,607.46	7,689.57	7,603.33	108.80	30.54	92.29	1,340.21	3,575.40	1,249.29	1,175.16	74.13	16.853		
9,650.00	7,618.11	7,675.51	7,590.64	108.71	30.53	90.81	1,334.19	3,575.91	1,251.43	1,176.52	74.91	16.706		
9,700.00	7,625.41	7,661.00	7,577.41	108.59	30.52	89.61	1,328.26	3,576.44	1,252.73	1,176.84	75.89	16.507		
9,750.00	7,629.30	7,650.58	7,567.84	108.45	30.51	88.88	1,324.16	3,576.78	1,253.16	1,175.94	77.22	16.228		
9,781.81	7,630.00	7,643.70	7,561.48	108.35	30.50	88.56	1,321.52	3,576.98	1,252.97	1,174.80	78.17	16.030		
9,798.20	7,630.00	7,640.06	7,558.12	108.30	30.50	88.40	1,320.14	3,577.07	1,252.87	1,174.20	78.67	15.925		
9,800.00	7,630.00	7,639.67	7,557.76	108.29	30.50	88.39	1,320.00	3,577.08	1,252.87	1,174.14	78.73	15.913		
9,900.00	7,630.00	7,614.00	7,533.83	107.97	30.47	87.29	1,310.70	3,577.52	1,256.70	1,174.78	81.92	15.340		
10,000.00	7,630.00	7,598.22	7,518.98	107.67	30.46	86.62	1,305.36	3,577.65	1,267.82	1,182.14	85.67	14.798		
10,100.00	7,630.00	7,579.26	7,501.00	107.38	30.43	85.80	1,299.34	3,577.70	1,286.13	1,196.78	89.36	14.393		
10,200.00	7,630.00	7,561.52	7,484.05	107.10	30.41	85.03	1,294.11	3,577.67	1,311.42	1,218.44	92.98	14.104		
10,300.00	7,630.00	7,543.15	7,466.38	106.84	30.38	84.22	1,289.10	3,577.63	1,343.30	1,246.91	96.39	13.936		
10,400.00	7,630.00	7,527.47	7,451.21	106.59	30.36	83.54	1,285.15	3,577.61	1,381.38	1,281.77	99.60	13.869		
10,500.00	7,630.00	7,513.29	7,437.42	106.35	30.34	82.92	1,281.83	3,577.61	1,425.21	1,322.67	102.54	13.898		
10,600.00	7,630.00	7,500.36	7,424.81	106.13	30.32	82.35	1,279.02	3,577.63	1,474.32	1,369.13	105.19	14.016		
10,700.00	7,630.00	7,489.12	7,413.80	105.92	30.30	81.85	1,276.74	3,577.68	1,528.24	1,420.69	107.56	14.209		
10,800.00	7,630.00	7,473.00	7,397.96	105.72	30.27	81.14	1,273.74	3,577.79	1,586.54	1,477.02	109.52	14.486		
10,900.00	7,630.00	7,473.00	7,397.96	105.54	30.27	81.14	1,273.74	3,577.79	1,648.69	1,537.17	111.51	14.785		
11,000.00	7,630.00	7,473.00	7,397.96	105.37	30.27	81.14	1,273.74	3,577.79	1,714.42	1,601.19	113.23	15.141		
11,100.00	7,630.00	7,458.18	7,383.35	105.21	30.24	80.49	1,271.23	3,577.87	1,783.18	1,668.71	114.47	15.578		
11,200.00	7,630.00	7,452.48	7,377.73	105.06	30.23	80.24	1,270.33	3,577.89	1,854.78	1,739.13	115.65	16.037		
11,300.00	7,630.00	7,447.18	7,372.49	104.93	30.22	80.01	1,269.52	3,577.89	1,928.87	1,812.19	116.67	16.532		
11,400.00	7,630.00	7,442.23	7,367.59	104.82	30.21	79.79	1,268.79	3,577.88	2,005.17	1,887.62	117.55	17.058		
11,500.00	7,630.00	7,426.00	7,351.51	104.72	30.18	79.08	1,266.56	3,577.80	2,083.54	1,965.38	118.15	17.634		
11,600.00	7,630.00	7,426.00	7,351.51	104.63	30.18	79.08	1,266.56	3,577.80	2,163.51	2,044.66	118.85	18.203		
11,700.00	7,630.00	7,426.00	7,351.51	104.55	30.18	79.08	1,266.56	3,577.80	2,245.09	2,125.64	119.45	18.795		
11,800.00	7,630.00	7,426.00	7,351.51	104.50	30.18	79.08	1,266.56	3,577.80	2,328.10	2,208.14	119.96	19.407		
11,900.00	7,630.00	7,426.00	7,351.51	104.45	30.18	79.08	1,266.56	3,577.80	2,412.41	2,292.01	120.39	20.037		
12,000.00	7,630.00	7,426.00	7,351.51	104.43	30.18	79.08	1,266.56	3,577.80	2,497.87	2,377.10	120.77	20.684		
12,100.00	7,630.00	7,426.00	7,351.51	104.42	30.18	79.08	1,266.56	3,577.80	2,584.38	2,463.29	121.08	21.344		
12,200.00	7,630.00	7,426.00	7,351.51	104.42	30.18	79.08	1,266.56	3,577.80	2,671.82	2,550.47	121.35	22.017		
12,300.00	7,630.00	7,409.43	7,335.07	104.45	30.14	78.36	1,264.59	3,577.66	2,759.92	2,638.48	121.45	22.725		
12,400.00	7,630.00	7,406.78	7,332.43	104.49	30.13	78.24	1,264.30	3,577.63	2,848.93	2,727.30	121.63	23.423		
12,500.00	7,630.00	7,404.28	7,329.94	104.55	30.13	78.13	1,264.04	3,577.61	2,938.63	2,816.85	121.78	24.130		
12,600.00	7,630.00	7,401.91	7,327.59	104.63	30.12	78.03	1,263.80	3,577.58	3,028.97	2,907.06	121.91	24.845		
12,700.00	7,630.00	7,399.66	7,325.35	104.73	30.12	77.93	1,263.57	3,577.56	3,119.90	2,997.87	122.02	25.568		
12,800.00	7,630.00	7,397.53	7,323.22	104.85	30.11	77.84	1,263.37	3,577.53	3,211.35	3,089.24	122.12	26.298		
12,900.00	7,630.00	7,379.00	7,304.77	104.99	30.07	77.03	1,261.79	3,577.31	3,303.49	3,181.40	122.09	27.058		
13,000.00	7,630.00	7,379.00	7,304.77	105.15	30.07	77.03	1,261.79	3,577.31	3,395.84	3,273.67	122.17	27.796		
13,100.00	7,630.00	7,379.00	7,304.77	105.34	30.07	77.03	1,261.79	3,577.31	3,488.61	3,366.38	122.23	28.540		
13,200.00	7,630.00	7,379.00	7,304.77	105.56	30.07	77.03	1,261.79	3,577.31	3,581.78	3,459.49	122.29	29.289		
13,300.00	7,630.00	7,379.00	7,304.77	105.80	30.07	77.03	1,261.79	3,577.31	3,675.30	3,552.96	122.33	30.043		
13,400.00	7,630.00	7,379.00	7,304.77	106.06	30.07	77.03	1,261.79	3,577.31	3,769.15	3,646.78	122.37	30.801		
13,500.00	7,630.00	7,379.00	7,304.77	106.36	30.07	77.03	1,261.79	3,577.31	3,863.31	3,740.91	122.40	31.563		
13,600.00	7,630.00	7,379.00	7,304.77	106.68	30.07	77.03	1,261.79	3,577.31	3,957.76	3,835.34	122.42	32.329		
13,700.00	7,630.00	7,379.00	7,304.77	107.03	30.07	77.03	1,261.79	3,577.31	4,052.48	3,930.04	122.44	33.098		
13,800.00	7,630.00	7,379.00	7,304.77	107.42	30.07	77.03	1,261.79	3,577.31	4,147.44	4,024.99	122.45	33.870		
13,900.00	7,630.00	7,379.00	7,304.77	107.83	30.07	77.03	1,261.79	3,577.31	4,242.63	4,120.18	122.46	34.646		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,379.00	7,304.77	108.28	30.07	77.03	1,261.79	3,577.31	4,338.04	4,215.58	122.46	35.423		
14,100.00	7,630.00	7,379.00	7,304.77	108.77	30.07	77.03	1,261.79	3,577.31	4,433.66	4,311.19	122.46	36.204		
14,200.00	7,630.00	7,379.00	7,304.77	109.29	30.07	77.03	1,261.79	3,577.31	4,529.46	4,407.00	122.46	36.987		
14,300.00	7,630.00	7,379.00	7,304.77	109.84	30.07	77.03	1,261.79	3,577.31	4,625.44	4,502.98	122.46	37.772		
14,400.00	7,630.00	7,379.00	7,304.77	110.43	30.07	77.03	1,261.79	3,577.31	4,721.59	4,599.14	122.45	38.559		
14,500.00	7,630.00	7,379.00	7,304.77	111.06	30.07	77.03	1,261.79	3,577.31	4,817.89	4,695.45	122.44	39.348		
14,600.00	7,630.00	7,379.00	7,304.77	111.72	30.07	77.03	1,261.79	3,577.31	4,914.34	4,791.91	122.44	40.138		
14,700.00	7,630.00	7,379.00	7,304.77	112.42	30.07	77.03	1,261.79	3,577.31	5,010.93	4,888.51	122.43	40.931		
14,800.00	7,630.00	7,379.00	7,304.77	113.16	30.07	77.03	1,261.79	3,577.31	5,107.66	4,985.24	122.41	41.724		
14,900.00	7,630.00	7,379.00	7,304.77	113.94	30.07	77.03	1,261.79	3,577.31	5,204.50	5,082.10	122.40	42.520		
15,000.00	7,630.00	7,379.00	7,304.77	114.75	30.07	77.03	1,261.79	3,577.31	5,301.47	5,179.08	122.39	43.316		
15,100.00	7,630.00	7,379.00	7,304.77	115.60	30.07	77.03	1,261.79	3,577.31	5,398.54	5,276.16	122.38	44.114		
15,200.00	7,630.00	7,379.00	7,304.77	116.48	30.07	77.03	1,261.79	3,577.31	5,495.72	5,373.35	122.36	44.913		
15,300.00	7,630.00	7,379.00	7,304.77	117.40	30.07	77.03	1,261.79	3,577.31	5,593.00	5,470.65	122.35	45.713		
15,400.00	7,630.00	7,379.00	7,304.77	118.35	30.07	77.03	1,261.79	3,577.31	5,690.37	5,568.03	122.34	46.514		
15,500.00	7,630.00	7,379.00	7,304.77	119.34	30.07	77.03	1,261.79	3,577.31	5,787.83	5,665.51	122.32	47.316		
15,600.00	7,630.00	7,379.00	7,304.77	120.35	30.07	77.03	1,261.79	3,577.31	5,885.38	5,763.07	122.31	48.119		
15,700.00	7,630.00	7,379.00	7,304.77	121.40	30.07	77.03	1,261.79	3,577.31	5,983.01	5,860.71	122.29	48.923		
15,800.00	7,630.00	7,379.00	7,304.77	122.48	30.07	77.03	1,261.79	3,577.31	6,080.71	5,958.43	122.28	49.727		
15,900.00	7,630.00	7,379.00	7,304.77	123.58	30.07	77.03	1,261.79	3,577.31	6,178.49	6,056.22	122.27	50.533		
16,000.00	7,630.00	7,379.00	7,304.77	124.71	30.07	77.03	1,261.79	3,577.31	6,276.34	6,154.08	122.25	51.338		
16,100.00	7,630.00	7,379.00	7,304.77	125.87	30.07	77.03	1,261.79	3,577.31	6,374.25	6,252.01	122.24	52.145		
16,200.00	7,630.00	7,379.00	7,304.77	127.05	30.07	77.03	1,261.79	3,577.31	6,472.23	6,350.00	122.23	52.952		
16,300.00	7,630.00	7,379.00	7,304.77	128.26	30.07	77.03	1,261.79	3,577.31	6,570.27	6,448.06	122.22	53.759		
16,400.00	7,630.00	7,379.00	7,304.77	129.48	30.07	77.03	1,261.79	3,577.31	6,668.37	6,546.17	122.20	54.567		
16,500.00	7,630.00	7,379.00	7,304.77	130.73	30.07	77.03	1,261.79	3,577.31	6,766.53	6,644.33	122.19	55.376		
16,600.00	7,630.00	7,379.00	7,304.77	132.00	30.07	77.03	1,261.79	3,577.31	6,864.73	6,742.55	122.18	56.184		
16,700.00	7,630.00	7,379.00	7,304.77	133.29	30.07	77.03	1,261.79	3,577.31	6,962.99	6,840.82	122.17	56.993		
16,800.00	7,630.00	7,379.00	7,304.77	134.59	30.07	77.03	1,261.79	3,577.31	7,061.30	6,939.14	122.16	57.803		
16,900.00	7,630.00	7,340.90	7,266.74	135.91	29.97	75.40	1,259.46	3,576.84	7,159.07	7,037.03	122.04	58.661		
17,000.00	7,630.00	7,340.07	7,265.91	137.25	29.97	75.36	1,259.42	3,576.83	7,257.45	7,135.42	122.03	59.473		
17,100.00	7,630.00	7,339.26	7,265.10	138.61	29.97	75.33	1,259.38	3,576.82	7,355.86	7,233.84	122.02	60.284		
17,200.00	7,630.00	7,338.47	7,264.31	139.97	29.96	75.30	1,259.35	3,576.81	7,454.32	7,332.31	122.01	61.096		
17,300.00	7,630.00	7,337.69	7,263.54	141.36	29.96	75.26	1,259.31	3,576.80	7,552.82	7,430.82	122.00	61.907		
17,400.00	7,630.00	7,336.94	7,262.78	142.75	29.96	75.23	1,259.28	3,576.79	7,651.36	7,529.37	121.99	62.719		
17,500.00	7,630.00	7,336.20	7,262.04	144.16	29.96	75.20	1,259.24	3,576.79	7,749.94	7,627.95	121.99	63.531		
17,600.00	7,630.00	7,335.47	7,261.32	145.58	29.96	75.17	1,259.21	3,576.78	7,848.55	7,726.57	121.98	64.344		
17,700.00	7,630.00	7,334.76	7,260.61	147.01	29.95	75.14	1,259.18	3,576.77	7,947.19	7,825.22	121.97	65.156		
17,800.00	7,630.00	7,334.07	7,259.92	148.45	29.95	75.11	1,259.15	3,576.76	8,045.87	7,923.90	121.97	65.968		
17,900.00	7,630.00	7,333.39	7,259.24	149.91	29.95	75.08	1,259.12	3,576.75	8,144.58	8,022.62	121.96	66.780		
18,000.00	7,630.00	7,332.73	7,258.58	151.37	29.95	75.05	1,259.09	3,576.75	8,243.32	8,121.36	121.96	67.593		
18,100.00	7,630.00	7,332.08	7,257.93	152.84	29.95	75.02	1,259.06	3,576.74	8,342.09	8,220.14	121.95	68.405		
18,200.00	7,630.00	7,331.44	7,257.29	154.32	29.95	75.00	1,259.04	3,576.73	8,440.89	8,318.94	121.95	69.217		
18,300.00	7,630.00	7,330.81	7,256.67	155.81	29.94	74.97	1,259.01	3,576.73	8,539.72	8,417.77	121.94	70.029		
18,400.00	7,630.00	7,330.20	7,256.06	157.31	29.94	74.94	1,258.99	3,576.72	8,638.57	8,516.63	121.94	70.841		
18,500.00	7,630.00	7,329.60	7,255.46	158.81	29.94	74.92	1,258.96	3,576.71	8,737.45	8,615.51	121.94	71.653		
18,600.00	7,630.00	7,329.02	7,254.87	160.32	29.94	74.89	1,258.94	3,576.71	8,836.35	8,714.41	121.94	72.465		
18,700.00	7,630.00	7,328.44	7,254.29	161.84	29.94	74.87	1,258.91	3,576.70	8,935.28	8,813.34	121.94	73.277		
18,800.00	7,630.00	7,327.87	7,253.73	163.37	29.94	74.84	1,258.89	3,576.69	9,034.23	8,912.29	121.94	74.089		
18,900.00	7,630.00	7,327.32	7,253.17	164.90	29.93	74.82	1,258.87	3,576.69	9,133.21	9,011.27	121.94	74.900		
19,000.00	7,630.00	7,326.78	7,252.63	166.43	29.93	74.80	1,258.85	3,576.68	9,232.20	9,110.26	121.94	75.712		
19,100.00	7,630.00	7,326.24	7,252.10	167.98	29.93	74.78	1,258.83	3,576.68	9,331.22	9,209.28	121.94	76.523		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	
19,200.00	7,630.00	7,325.72	7,251.57	169.53	29.93	74.75	1,258.81	3,576.67	9,430.26	9,308.31	121.94	77.334	
19,300.00	7,630.00	7,325.20	7,251.06	171.08	29.93	74.73	1,258.79	3,576.67	9,529.31	9,407.37	121.94	78.145	
19,400.00	7,630.00	7,324.70	7,250.56	172.64	29.93	74.71	1,258.77	3,576.66	9,628.39	9,506.44	121.95	78.955	
19,500.00	7,630.00	7,324.20	7,250.06	174.21	29.93	74.69	1,258.75	3,576.65	9,727.49	9,605.54	121.95	79.765	
19,518.56	7,630.00	7,324.11	7,249.97	174.50	29.93	74.68	1,258.75	3,576.65	9,745.88	9,623.93	121.95	79.916	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	57.77	2,113.10	3,351.63	3,962.32					
100.00	100.00	53.21	53.21	0.13	0.10	57.77	2,113.09	3,351.67	3,962.19	3,961.96	0.24	N/A		
200.00	200.00	128.16	128.16	0.49	0.37	57.78	2,113.00	3,352.24	3,962.76	3,961.90	0.86	4,589.061		
300.00	300.00	224.42	224.41	0.85	0.71	57.78	2,113.14	3,353.21	3,963.69	3,962.12	1.57	2,531.543		
400.00	400.00	312.27	312.26	1.21	1.03	57.78	2,113.61	3,354.08	3,964.82	3,962.58	2.24	1,771.659		
500.00	499.98	449.58	449.56	1.56	1.51	-8.95	2,114.22	3,354.87	3,963.79	3,960.71	3.08	1,287.778		
600.00	599.84	535.45	535.43	1.92	1.82	-8.99	2,115.00	3,354.96	3,959.18	3,955.44	3.74	1,059.960		
700.00	699.45	664.25	664.21	2.29	2.26	-9.06	2,116.54	3,354.42	3,950.84	3,946.30	4.54	869.329		
800.00	798.70	775.29	775.25	2.67	2.65	-9.14	2,117.11	3,353.76	3,938.58	3,933.29	5.29	744.264		
900.00	897.47	883.16	883.12	3.07	3.02	-9.24	2,117.33	3,353.05	3,922.69	3,916.66	6.03	650.425		
1,000.00	995.62	979.91	979.86	3.50	3.35	-9.36	2,117.37	3,352.32	3,903.24	3,896.51	6.73	579.657		
1,100.00	1,093.06	1,065.18	1,065.13	3.96	3.65	-9.48	2,116.97	3,352.15	3,880.64	3,873.24	7.40	524.275		
1,200.00	1,189.64	1,977.89	1,968.96	4.46	7.03	-10.05	2,052.67	3,273.96	3,842.32	3,831.50	10.82	355.210		
1,300.00	1,285.27	2,109.00	2,096.80	5.00	7.61	-10.22	2,030.40	3,255.27	3,794.13	3,782.50	11.63	326.262		
1,400.00	1,379.82	2,174.52	2,160.51	5.60	7.90	-10.42	2,018.60	3,245.56	3,741.79	3,729.56	12.24	305.808		
1,500.00	1,473.17	2,229.20	2,213.77	6.25	8.15	-10.65	2,008.94	3,237.78	3,687.16	3,674.35	12.81	287.790		
1,600.00	1,565.21	2,280.05	2,263.39	6.95	8.39	-10.91	2,000.22	3,230.90	3,630.39	3,617.00	13.38	271.302		
1,700.00	1,655.84	2,395.06	2,375.64	7.72	8.92	-11.22	1,980.51	3,215.50	3,571.00	3,556.85	14.15	252.312		
1,800.00	1,744.94	2,569.72	2,545.34	8.55	9.76	-11.62	1,948.85	3,188.93	3,507.12	3,492.02	15.10	232.282		
1,900.00	1,832.39	2,610.60	2,584.97	9.45	9.96	-12.02	1,941.30	3,182.39	3,440.07	3,424.43	15.64	219.885		
2,000.00	1,918.11	2,649.25	2,622.56	10.41	10.15	-12.47	1,934.54	3,176.42	3,371.26	3,355.07	16.19	208.233		
2,100.00	2,001.97	2,687.31	2,659.67	11.45	10.33	-12.96	1,928.25	3,170.72	3,300.71	3,283.97	16.74	197.193		
2,200.00	2,083.88	2,724.76	2,696.26	12.56	10.51	-13.52	1,922.41	3,165.32	3,228.46	3,211.17	17.29	186.715		
2,300.00	2,163.74	2,761.00	2,731.75	13.74	10.69	-14.14	1,917.11	3,160.27	3,154.56	3,136.71	17.85	176.766		
2,400.00	2,241.45	2,812.44	2,782.20	14.99	10.93	-14.88	1,909.71	3,153.43	3,078.89	3,060.44	18.44	166.944		
2,421.22	2,257.65	2,823.00	2,792.56	15.26	10.98	-15.05	1,908.17	3,152.08	3,062.59	3,044.01	18.57	164.897		
2,500.00	2,317.63	2,873.92	2,842.51	16.29	11.22	-15.23	1,900.62	3,145.75	3,002.00	2,982.93	19.06	157.472		
2,600.00	2,393.75	2,973.77	2,940.24	17.62	11.70	-15.57	1,884.71	3,132.92	2,924.42	2,904.66	19.76	147.965		
2,700.00	2,469.88	3,032.97	2,998.09	18.95	11.98	-15.76	1,874.55	3,125.54	2,846.69	2,826.30	20.39	139.623		
2,800.00	2,546.01	3,175.94	3,137.34	20.30	12.70	-16.27	1,848.70	3,106.05	2,767.94	2,746.79	21.15	130.879		
2,900.00	2,622.13	3,251.81	3,210.99	21.65	13.09	-16.59	1,834.64	3,094.45	2,688.28	2,666.49	21.80	123.334		
3,000.00	2,698.26	3,317.69	3,274.89	23.01	13.43	-16.88	1,822.39	3,084.11	2,608.43	2,586.00	22.44	116.258		
3,100.00	2,774.38	3,420.35	3,374.28	24.37	13.97	-17.40	1,803.14	3,067.01	2,528.08	2,504.98	23.10	109.421		
3,200.00	2,850.51	3,454.36	3,407.17	25.74	14.15	-17.59	1,796.81	3,061.15	2,447.49	2,423.76	23.74	103.110		
3,300.00	2,926.64	3,488.85	3,440.62	27.11	14.33	-17.79	1,790.61	3,055.46	2,367.54	2,343.14	24.39	97.061		
3,400.00	3,002.76	3,544.25	3,494.47	28.49	14.62	-18.13	1,780.97	3,046.74	2,288.17	2,263.10	25.07	91.277		
3,500.00	3,078.89	3,625.22	3,572.94	29.87	15.05	-18.63	1,765.74	3,033.83	2,208.20	2,182.46	25.74	85.783		
3,600.00	3,155.02	3,663.73	3,610.28	31.25	15.25	-18.89	1,758.51	3,027.82	2,128.50	2,102.04	26.45	80.463		
3,700.00	3,231.14	3,704.00	3,649.43	32.63	15.46	-19.17	1,751.30	3,021.75	2,049.43	2,022.24	27.19	75.374		
3,800.00	3,307.27	3,777.40	3,720.82	34.01	15.84	-19.73	1,738.17	3,010.86	1,970.53	1,942.62	27.90	70.623		
3,900.00	3,383.39	3,833.32	3,775.15	35.40	16.14	-20.17	1,727.80	3,002.56	1,891.45	1,862.79	28.65	66.009		
4,000.00	3,459.52	3,882.96	3,823.42	36.79	16.40	-20.58	1,718.60	2,995.54	1,812.76	1,783.32	29.44	61.568		
4,100.00	3,535.65	3,932.70	3,871.85	38.18	16.65	-21.03	1,709.53	2,988.77	1,734.51	1,704.25	30.26	57.317		
4,200.00	3,611.77	3,983.03	3,920.95	39.57	16.91	-21.52	1,700.77	2,982.01	1,656.75	1,625.64	31.11	53.248		
4,300.00	3,687.90	4,040.20	3,976.80	40.96	17.19	-22.15	1,691.24	2,974.37	1,579.39	1,547.41	31.98	49.386		
4,400.00	3,764.02	4,098.06	4,033.38	42.35	17.48	-22.86	1,681.94	2,966.58	1,502.30	1,469.42	32.88	45.684		
4,500.00	3,840.15	4,155.90	4,089.98	43.74	17.77	-23.66	1,673.09	2,958.64	1,425.54	1,391.70	33.84	42.126		
4,600.00	3,916.28	4,240.76	4,172.97	45.13	18.20	-25.03	1,660.43	2,946.27	1,348.72	1,314.01	34.70	38.865		
4,700.00	3,992.40	4,312.74	4,243.11	46.53	18.57	-26.39	1,649.20	2,934.63	1,270.97	1,235.29	35.68	35.620		
4,800.00	4,068.53	4,376.38	4,305.08	47.92	18.90	-27.76	1,639.21	2,924.15	1,193.32	1,156.54	36.78	32.441		
4,900.00	4,144.66	4,448.55	4,375.23	49.32	19.28	-29.54	1,627.62	2,911.79	1,115.53	1,077.62	37.91	29.429		
5,000.00	4,220.78	4,532.33	4,456.33	50.71	19.74	-31.97	1,613.15	2,896.57	1,037.15	998.15	39.00	26.593		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,589.52	4,511.47	52.11	20.06	-33.89	1,602.47	2,885.76	958.31	917.82	40.49	23.669		
5,200.00	4,373.03	4,639.14	4,559.41	53.51	20.33	-35.79	1,593.50	2,876.60	880.48	838.20	42.28	20.825		
5,300.00	4,449.16	4,700.99	4,619.21	54.90	20.68	-38.51	1,582.40	2,865.42	803.59	759.42	44.17	18.191		
5,400.00	4,525.29	4,758.68	4,674.92	56.30	20.99	-41.45	1,571.56	2,855.06	727.32	680.88	46.45	15.659		
5,500.00	4,601.41	4,807.24	4,721.94	57.70	21.26	-44.30	1,562.68	2,846.82	652.90	603.58	49.32	13.237		
5,600.00	4,677.54	4,865.89	4,778.91	59.10	21.58	-48.29	1,552.38	2,837.45	580.91	528.30	52.61	11.041		
5,700.00	4,753.66	4,933.84	4,844.73	60.49	21.95	-53.90	1,539.95	2,825.99	510.66	454.16	56.50	9.038		
5,800.00	4,829.79	5,001.87	4,910.27	61.89	22.34	-60.84	1,526.55	2,813.63	442.88	381.46	61.43	7.210		
5,900.00	4,905.92	5,059.01	4,965.08	63.29	22.67	-67.89	1,514.62	2,802.75	379.87	311.85	68.01	5.585		
6,000.00	4,982.04	5,113.18	5,017.16	64.69	22.98	-75.61	1,503.57	2,792.76	326.07	250.03	76.03	4.289		
6,100.00	5,058.17	5,172.45	5,074.29	66.09	23.32	-85.06	1,491.55	2,782.49	286.10	201.94	84.16	3.399		
6,200.00	5,134.30	5,233.33	5,133.05	67.49	23.66	-95.48	1,478.83	2,772.91	265.19	175.45	89.73	2.955		
6,239.22	5,164.15	5,256.73	5,155.61	68.04	23.79	-99.60	1,473.84	2,769.27	263.30	172.77	90.52	2.909	CC, ES, SF	
6,300.00	5,210.42	5,292.65	5,190.22	68.89	24.00	-105.91	1,466.08	2,763.61	267.84	178.00	89.84	2.981		
6,400.00	5,286.55	5,351.35	5,246.80	70.29	24.32	-115.86	1,453.40	2,754.40	293.74	209.05	84.69	3.468		
6,500.00	5,362.67	5,412.32	5,305.80	71.69	24.67	-125.10	1,440.94	2,745.45	337.31	259.66	77.65	4.344		
6,600.00	5,438.80	5,470.03	5,361.63	73.09	24.98	-132.72	1,429.05	2,736.93	392.64	321.54	71.10	5.522		
6,700.00	5,514.93	5,528.22	5,417.82	74.49	25.31	-139.31	1,416.78	2,728.06	455.74	389.93	65.81	6.925		
6,800.00	5,591.05	5,587.90	5,475.52	75.89	25.64	-144.92	1,404.56	2,718.98	523.68	461.79	61.89	8.461		
6,900.00	5,667.18	5,650.23	5,535.87	77.29	25.98	-149.75	1,392.06	2,709.67	594.58	535.47	59.11	10.058		
7,000.00	5,743.30	5,711.81	5,595.54	78.69	26.32	-153.71	1,379.76	2,700.73	667.34	610.20	57.14	11.679		
7,100.00	5,819.43	5,771.85	5,653.79	80.09	26.65	-156.92	1,368.06	2,692.01	741.55	685.79	55.76	13.299		
7,200.00	5,895.56	5,827.03	5,707.34	81.49	26.95	-159.39	1,357.63	2,683.79	816.98	762.25	54.74	14.926		
7,300.00	5,971.68	5,882.37	5,761.05	82.90	27.25	-161.50	1,347.56	2,675.06	893.60	839.53	54.07	16.527		
7,400.00	6,047.81	5,948.79	5,825.61	84.30	27.60	-163.62	1,335.99	2,664.57	970.68	916.77	53.91	18.006		
7,500.00	6,123.94	6,010.55	5,885.71	85.70	27.94	-165.30	1,325.39	2,655.09	1,047.88	994.05	53.83	19.467		
7,600.00	6,200.06	6,074.05	5,947.35	87.10	28.28	-166.89	1,313.47	2,645.59	1,125.47	1,071.59	53.89	20.886		
7,700.00	6,276.19	6,186.14	6,056.79	88.50	28.85	-169.17	1,294.07	2,631.14	1,201.88	1,146.80	55.08	21.822		
7,800.00	6,352.31	6,287.49	6,156.62	89.90	29.32	-170.71	1,279.72	2,621.25	1,275.82	1,219.72	56.11	22.739		
7,900.00	6,428.44	6,362.41	6,230.65	91.31	29.66	-171.65	1,270.18	2,614.70	1,349.10	1,292.44	56.66	23.809		
8,000.00	6,504.57	6,421.92	6,289.49	92.71	29.91	-172.28	1,263.30	2,609.21	1,422.55	1,365.58	56.97	24.968		
8,100.00	6,580.69	6,539.89	6,406.50	94.11	30.41	-173.24	1,252.33	2,598.95	1,495.45	1,437.03	58.41	25.601		
8,200.00	6,656.82	6,642.00	6,508.16	95.51	30.79	-173.87	1,245.32	2,592.51	1,566.11	1,506.58	59.54	26.306		
8,300.00	6,732.95	6,718.28	6,584.20	96.91	31.06	-174.26	1,241.14	2,588.24	1,636.01	1,575.80	60.21	27.171		
8,400.00	6,809.07	6,799.72	6,665.44	98.32	31.35	-174.59	1,237.52	2,583.86	1,705.54	1,644.55	60.99	27.966		
8,500.00	6,885.20	6,900.86	6,766.42	99.72	31.69	-174.94	1,234.19	2,579.12	1,774.37	1,712.30	62.07	28.587		
8,600.00	6,961.32	6,994.09	6,859.57	101.12	31.98	-175.18	1,232.53	2,575.73	1,842.09	1,779.07	63.02	29.232		
8,700.00	7,037.45	7,071.86	6,937.30	102.52	32.22	-175.36	1,231.57	2,573.30	1,909.33	1,845.60	63.73	29.961		
8,732.15	7,061.92	7,096.06	6,961.49	102.97	32.30	-175.41	1,231.28	2,572.56	1,930.93	1,866.99	63.94	30.197		
8,750.00	7,075.57	7,111.55	6,976.96	103.22	32.34	-179.00	1,231.09	2,572.09	1,942.87	1,878.78	64.10	30.312		
8,800.00	7,114.27	7,160.26	7,025.65	103.91	32.49	171.00	1,230.40	2,570.84	1,975.56	1,910.95	64.61	30.577		
8,850.00	7,153.47	7,214.75	7,080.13	104.58	32.66	161.27	1,229.45	2,569.87	2,006.93	1,941.71	65.21	30.774		
8,900.00	7,192.85	7,283.52	7,148.89	105.21	32.86	152.10	1,228.63	2,569.38	2,036.51	1,970.49	66.03	30.844		
8,950.00	7,232.12	7,325.66	7,191.03	105.80	32.97	143.27	1,228.45	2,569.35	2,064.28	1,997.79	66.49	31.048		
9,000.00	7,270.99	7,363.90	7,229.27	106.35	33.08	135.05	1,228.53	2,569.23	2,090.44	2,023.52	66.92	31.238		
9,050.00	7,309.16	7,432.24	7,492.74	106.85	33.54	132.06	1,270.34	2,570.87	2,112.25	2,042.00	70.25	30.068		
9,100.00	7,346.32	7,675.41	7,532.48	107.30	33.56	126.13	1,287.17	2,570.30	2,131.35	2,060.44	70.91	30.058		
9,150.00	7,382.22	8,052.48	7,809.02	107.69	33.21	130.10	1,533.67	2,562.72	2,148.68	2,071.67	77.01	27.900		
9,200.00	7,416.56	8,039.48	7,802.46	108.02	33.23	124.22	1,522.47	2,562.96	2,164.06	2,086.84	77.22	28.025		
9,250.00	7,449.09	8,021.30	7,792.88	108.29	33.27	118.82	1,507.01	2,563.27	2,178.90	2,101.57	77.34	28.174		
9,300.00	7,479.56	8,000.26	7,781.24	108.51	33.31	113.93	1,489.49	2,563.59	2,193.04	2,115.62	77.42	28.325		
9,350.00	7,507.74	7,974.82	7,766.42	108.68	33.35	109.49	1,468.82	2,563.93	2,206.30	2,128.85	77.45	28.487		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,949.20	7,750.69	108.79	33.40	105.58	1,448.60	2,564.25	2,218.51	2,141.01	77.50	28.625		
9,450.00	7,556.39	7,926.69	7,736.10	108.86	33.43	102.24	1,431.46	2,564.45	2,229.55	2,151.89	77.67	28.707		
9,500.00	7,576.48	7,763.38	7,609.81	108.88	33.57	95.84	1,328.92	2,567.60	2,238.96	2,163.87	75.08	29.820		
9,550.00	7,593.55	7,753.78	7,601.61	108.86	33.57	93.79	1,323.93	2,567.96	2,246.50	2,170.93	75.57	29.728		
9,600.00	7,607.46	7,742.02	7,591.49	108.80	33.57	92.08	1,317.96	2,568.38	2,252.52	2,176.43	76.09	29.605		
9,650.00	7,618.11	7,728.53	7,579.77	108.71	33.57	90.71	1,311.30	2,568.84	2,256.92	2,180.27	76.65	29.446		
9,700.00	7,625.41	7,717.00	7,569.66	108.59	33.57	89.77	1,305.77	2,569.22	2,259.64	2,182.32	77.32	29.223		
9,750.00	7,629.30	7,701.60	7,556.02	108.45	33.57	89.09	1,298.63	2,569.67	2,260.64	2,182.64	78.00	28.984		
9,781.81	7,630.00	7,693.01	7,548.35	108.35	33.56	88.87	1,294.78	2,569.90	2,260.36	2,181.87	78.49	28.799		
9,800.00	7,630.00	7,688.08	7,543.92	108.29	33.56	88.76	1,292.60	2,570.02	2,260.06	2,181.28	78.78	28.688		
9,832.84	7,630.00	7,679.51	7,536.19	108.19	33.56	88.56	1,288.91	2,570.21	2,259.85	2,180.52	79.33	28.487		
9,900.00	7,630.00	7,670.00	7,527.57	107.97	33.56	88.34	1,284.91	2,570.40	2,260.76	2,180.13	80.63	28.037		
10,000.00	7,630.00	7,643.97	7,503.65	107.67	33.55	87.73	1,274.64	2,570.77	2,265.46	2,183.04	82.41	27.489		
10,100.00	7,630.00	7,622.00	7,483.15	107.38	33.53	87.22	1,266.76	2,570.91	2,274.27	2,189.92	84.35	26.963		
10,200.00	7,630.00	7,610.23	7,472.04	107.10	33.52	86.93	1,262.87	2,570.94	2,287.14	2,200.63	86.51	26.439		
10,300.00	7,630.00	7,595.38	7,457.91	106.84	33.51	86.58	1,258.29	2,570.94	2,304.08	2,215.46	88.61	26.001		
10,400.00	7,630.00	7,575.00	7,438.33	106.59	33.49	86.08	1,252.66	2,570.90	2,325.05	2,234.44	90.61	25.660		
10,500.00	7,630.00	7,575.00	7,438.33	106.35	33.49	86.08	1,252.66	2,570.90	2,349.90	2,256.99	92.91	25.293		
10,600.00	7,630.00	7,575.00	7,438.33	106.13	33.49	86.08	1,252.66	2,570.90	2,378.70	2,283.58	95.12	25.006		
10,700.00	7,630.00	7,555.08	7,419.01	105.92	33.46	85.59	1,247.82	2,570.77	2,411.06	2,314.12	96.94	24.871		
10,800.00	7,630.00	7,547.83	7,411.93	105.72	33.45	85.42	1,246.22	2,570.70	2,447.09	2,348.23	98.87	24.751		
10,900.00	7,630.00	7,528.00	7,392.51	105.54	33.43	84.93	1,242.24	2,570.43	2,486.68	2,386.16	100.52	24.738		
11,000.00	7,630.00	7,528.00	7,392.51	105.37	33.43	84.93	1,242.24	2,570.43	2,529.37	2,427.03	102.33	24.717		
11,100.00	7,630.00	7,528.00	7,392.51	105.21	33.43	84.93	1,242.24	2,570.43	2,575.23	2,471.20	104.03	24.754		
11,200.00	7,630.00	7,528.00	7,392.51	105.06	33.43	84.93	1,242.24	2,570.43	2,624.10	2,518.49	105.61	24.847		
11,300.00	7,630.00	7,528.00	7,392.51	104.93	33.43	84.93	1,242.24	2,570.43	2,675.82	2,568.75	107.07	24.991		
11,400.00	7,630.00	7,511.82	7,376.59	104.82	33.40	84.53	1,239.41	2,570.16	2,730.08	2,621.83	108.24	25.222		
11,500.00	7,630.00	7,506.54	7,371.37	104.72	33.39	84.40	1,238.55	2,570.07	2,786.89	2,677.45	109.44	25.466		
11,600.00	7,630.00	7,501.64	7,366.54	104.63	33.38	84.28	1,237.79	2,569.98	2,846.06	2,735.52	110.54	25.747		
11,700.00	7,630.00	7,497.09	7,362.04	104.55	33.37	84.16	1,237.10	2,569.90	2,907.44	2,795.89	111.55	26.064		
11,800.00	7,630.00	7,481.00	7,346.11	104.50	33.35	83.76	1,234.87	2,569.59	2,970.97	2,858.60	112.37	26.439		
11,900.00	7,630.00	7,481.00	7,346.11	104.45	33.35	83.76	1,234.87	2,569.59	3,036.33	2,923.07	113.26	26.809		
12,000.00	7,630.00	7,481.00	7,346.11	104.43	33.35	83.76	1,234.87	2,569.59	3,103.54	2,989.47	114.06	27.209		
12,100.00	7,630.00	7,481.00	7,346.11	104.42	33.35	83.76	1,234.87	2,569.59	3,172.47	3,057.67	114.80	27.635		
12,200.00	7,630.00	7,481.00	7,346.11	104.42	33.35	83.76	1,234.87	2,569.59	3,243.02	3,127.56	115.46	28.087		
12,300.00	7,630.00	7,481.00	7,346.11	104.45	33.35	83.76	1,234.87	2,569.59	3,315.09	3,199.02	116.07	28.561		
12,400.00	7,630.00	7,481.00	7,346.11	104.49	33.35	83.76	1,234.87	2,569.59	3,388.57	3,271.96	116.62	29.057		
12,500.00	7,630.00	7,481.00	7,346.11	104.55	33.35	83.76	1,234.87	2,569.59	3,463.39	3,346.28	117.11	29.573		
12,600.00	7,630.00	7,481.00	7,346.11	104.63	33.35	83.76	1,234.87	2,569.59	3,539.45	3,421.89	117.56	30.107		
12,700.00	7,630.00	7,463.42	7,328.65	104.73	33.31	83.33	1,232.83	2,569.31	3,616.49	3,498.64	117.85	30.686		
12,800.00	7,630.00	7,461.05	7,326.29	104.85	33.31	83.27	1,232.59	2,569.28	3,694.75	3,576.54	118.21	31.256		
12,900.00	7,630.00	7,458.82	7,324.07	104.99	33.30	83.21	1,232.37	2,569.25	3,774.04	3,655.50	118.53	31.840		
13,000.00	7,630.00	7,456.73	7,321.99	105.15	33.30	83.16	1,232.17	2,569.23	3,854.28	3,735.46	118.82	32.438		
13,100.00	7,630.00	7,454.77	7,320.04	105.34	33.30	83.11	1,231.98	2,569.20	3,935.42	3,816.34	119.08	33.048		
13,200.00	7,630.00	7,452.91	7,318.19	105.56	33.29	83.07	1,231.81	2,569.19	4,017.40	3,898.09	119.32	33.670		
13,300.00	7,630.00	7,433.00	7,298.33	105.80	33.25	82.57	1,230.32	2,569.06	4,100.39	3,980.96	119.44	34.331		
13,400.00	7,630.00	7,433.00	7,298.33	106.06	33.25	82.57	1,230.32	2,569.06	4,183.89	4,064.25	119.64	34.972		
13,500.00	7,630.00	7,433.00	7,298.33	106.36	33.25	82.57	1,230.32	2,569.06	4,268.10	4,148.28	119.82	35.622		
13,600.00	7,630.00	7,433.00	7,298.33	106.68	33.25	82.57	1,230.32	2,569.06	4,352.97	4,232.99	119.98	36.282		
13,700.00	7,630.00	7,433.00	7,298.33	107.03	33.25	82.57	1,230.32	2,569.06	4,438.48	4,318.36	120.12	36.950		
13,800.00	7,630.00	7,433.00	7,298.33	107.42	33.25	82.57	1,230.32	2,569.06	4,524.58	4,404.33	120.25	37.627		
13,900.00	7,630.00	7,433.00	7,298.33	107.83	33.25	82.57	1,230.32	2,569.06	4,611.24	4,490.87	120.36	38.311		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,433.00	7,298.33	108.28	33.25	82.57	1,230.32	2,569.06	4,698.43	4,577.96	120.47	39.002		
14,100.00	7,630.00	7,433.00	7,298.33	108.77	33.25	82.57	1,230.32	2,569.06	4,786.12	4,665.56	120.56	39.701		
14,200.00	7,630.00	7,433.00	7,298.33	109.29	33.25	82.57	1,230.32	2,569.06	4,874.29	4,753.65	120.63	40.405		
14,300.00	7,630.00	7,433.00	7,298.33	109.84	33.25	82.57	1,230.32	2,569.06	4,962.90	4,842.19	120.70	41.116		
14,400.00	7,630.00	7,433.00	7,298.33	110.43	33.25	82.57	1,230.32	2,569.06	5,051.94	4,931.17	120.77	41.833		
14,500.00	7,630.00	7,433.00	7,298.33	111.06	33.25	82.57	1,230.32	2,569.06	5,141.38	5,020.56	120.82	42.554		
14,600.00	7,630.00	7,433.00	7,298.33	111.72	33.25	82.57	1,230.32	2,569.06	5,231.21	5,110.34	120.87	43.281		
14,700.00	7,630.00	7,433.00	7,298.33	112.42	33.25	82.57	1,230.32	2,569.06	5,321.39	5,200.49	120.90	44.013		
14,800.00	7,630.00	7,433.00	7,298.33	113.16	33.25	82.57	1,230.32	2,569.06	5,411.93	5,290.99	120.94	44.749		
14,900.00	7,630.00	7,433.00	7,298.33	113.94	33.25	82.57	1,230.32	2,569.06	5,502.79	5,381.82	120.97	45.490		
15,000.00	7,630.00	7,433.00	7,298.33	114.75	33.25	82.57	1,230.32	2,569.06	5,593.96	5,472.97	120.99	46.235		
15,100.00	7,630.00	7,433.00	7,298.33	115.60	33.25	82.57	1,230.32	2,569.06	5,685.43	5,564.42	121.01	46.983		
15,200.00	7,630.00	7,433.00	7,298.33	116.48	33.25	82.57	1,230.32	2,569.06	5,777.18	5,656.15	121.03	47.735		
15,300.00	7,630.00	7,433.00	7,298.33	117.40	33.25	82.57	1,230.32	2,569.06	5,869.20	5,748.16	121.04	48.491		
15,400.00	7,630.00	7,433.00	7,298.33	118.35	33.25	82.57	1,230.32	2,569.06	5,961.48	5,840.43	121.05	49.250		
15,500.00	7,630.00	7,433.00	7,298.33	119.34	33.25	82.57	1,230.32	2,569.06	6,054.00	5,932.95	121.05	50.012		
15,600.00	7,630.00	7,433.00	7,298.33	120.35	33.25	82.57	1,230.32	2,569.06	6,146.76	6,025.71	121.06	50.776		
15,700.00	7,630.00	7,433.00	7,298.33	121.40	33.25	82.57	1,230.32	2,569.06	6,239.74	6,118.69	121.06	51.544		
15,800.00	7,630.00	7,433.00	7,298.33	122.48	33.25	82.57	1,230.32	2,569.06	6,332.94	6,211.88	121.06	52.315		
15,900.00	7,630.00	7,433.00	7,298.33	123.58	33.25	82.57	1,230.32	2,569.06	6,426.34	6,305.29	121.05	53.087		
16,000.00	7,630.00	7,433.00	7,298.33	124.71	33.25	82.57	1,230.32	2,569.06	6,519.93	6,398.89	121.05	53.863		
16,100.00	7,630.00	7,433.00	7,298.33	125.87	33.25	82.57	1,230.32	2,569.06	6,613.72	6,492.68	121.04	54.640		
16,200.00	7,630.00	7,433.00	7,298.33	127.05	33.25	82.57	1,230.32	2,569.06	6,707.68	6,586.65	121.03	55.420		
16,300.00	7,630.00	7,433.00	7,298.33	128.26	33.25	82.57	1,230.32	2,569.06	6,801.81	6,680.79	121.03	56.201		
16,400.00	7,630.00	7,433.00	7,298.33	129.48	33.25	82.57	1,230.32	2,569.06	6,896.11	6,775.10	121.02	56.985		
16,500.00	7,630.00	7,433.00	7,298.33	130.73	33.25	82.57	1,230.32	2,569.06	6,990.57	6,869.57	121.01	57.771		
16,600.00	7,630.00	7,433.00	7,298.33	132.00	33.25	82.57	1,230.32	2,569.06	7,085.18	6,964.19	120.99	58.558		
16,700.00	7,630.00	7,433.00	7,298.33	133.29	33.25	82.57	1,230.32	2,569.06	7,179.94	7,058.96	120.98	59.347		
16,800.00	7,630.00	7,433.00	7,298.33	134.59	33.25	82.57	1,230.32	2,569.06	7,274.84	7,153.87	120.97	60.137		
16,900.00	7,630.00	7,433.00	7,298.33	135.91	33.25	82.57	1,230.32	2,569.06	7,369.87	7,248.91	120.96	60.929		
17,000.00	7,630.00	7,433.00	7,298.33	137.25	33.25	82.57	1,230.32	2,569.06	7,465.03	7,344.09	120.95	61.722		
17,100.00	7,630.00	7,433.00	7,298.33	138.61	33.25	82.57	1,230.32	2,569.06	7,560.32	7,439.39	120.93	62.517		
17,200.00	7,630.00	7,433.00	7,298.33	139.97	33.25	82.57	1,230.32	2,569.06	7,655.72	7,534.81	120.92	63.313		
17,300.00	7,630.00	7,433.00	7,298.33	141.36	33.25	82.57	1,230.32	2,569.06	7,751.25	7,630.34	120.91	64.110		
17,400.00	7,630.00	7,433.00	7,298.33	142.75	33.25	82.57	1,230.32	2,569.06	7,846.88	7,725.99	120.89	64.908		
17,500.00	7,630.00	7,433.00	7,298.33	144.16	33.25	82.57	1,230.32	2,569.06	7,942.62	7,821.75	120.88	65.708		
17,600.00	7,630.00	7,433.00	7,298.33	145.58	33.25	82.57	1,230.32	2,569.06	8,038.47	7,917.60	120.86	66.508		
17,700.00	7,630.00	7,433.00	7,298.33	147.01	33.25	82.57	1,230.32	2,569.06	8,134.41	8,013.56	120.85	67.309		
17,800.00	7,630.00	7,433.00	7,298.33	148.45	33.25	82.57	1,230.32	2,569.06	8,230.46	8,109.62	120.84	68.112		
17,900.00	7,630.00	7,433.00	7,298.33	149.91	33.25	82.57	1,230.32	2,569.06	8,326.59	8,205.77	120.82	68.915		
18,000.00	7,630.00	7,433.00	7,298.33	151.37	33.25	82.57	1,230.32	2,569.06	8,422.82	8,302.01	120.81	69.719		
18,100.00	7,630.00	7,433.00	7,298.33	152.84	33.25	82.57	1,230.32	2,569.06	8,519.13	8,398.33	120.80	70.523		
18,200.00	7,630.00	7,412.11	7,277.47	154.32	33.20	82.05	1,229.29	2,569.04	8,615.28	8,494.54	120.74	71.356		
18,300.00	7,630.00	7,411.73	7,277.09	155.81	33.20	82.04	1,229.28	2,569.05	8,711.74	8,591.02	120.72	72.163		
18,400.00	7,630.00	7,411.36	7,276.72	157.31	33.20	82.03	1,229.27	2,569.05	8,808.29	8,687.58	120.71	72.970		
18,500.00	7,630.00	7,411.00	7,276.36	158.81	33.20	82.02	1,229.25	2,569.05	8,904.91	8,784.21	120.70	73.778		
18,600.00	7,630.00	7,410.64	7,276.00	160.32	33.20	82.02	1,229.24	2,569.05	9,001.61	8,880.92	120.69	74.586		
18,700.00	7,630.00	7,410.29	7,275.66	161.84	33.20	82.01	1,229.23	2,569.05	9,098.38	8,977.70	120.68	75.395		
18,800.00	7,630.00	7,409.96	7,275.32	163.37	33.20	82.00	1,229.22	2,569.05	9,195.22	9,074.55	120.67	76.204		
18,900.00	7,630.00	7,409.62	7,274.99	164.90	33.19	81.99	1,229.20	2,569.05	9,292.12	9,171.46	120.66	77.013		
19,000.00	7,630.00	7,409.30	7,274.66	166.43	33.19	81.98	1,229.19	2,569.05	9,389.09	9,268.44	120.65	77.823		
19,100.00	7,630.00	7,408.98	7,274.34	167.98	33.19	81.97	1,229.18	2,569.05	9,486.12	9,365.48	120.64	78.634		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 25-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
19,200.00	7,630.00	7,408.67	7,274.03	169.53	33.19	81.97	1,229.17	2,569.05	9,583.21	9,462.58	120.63	79.444	
19,300.00	7,630.00	7,408.36	7,273.72	171.08	33.19	81.96	1,229.16	2,569.05	9,680.36	9,559.74	120.62	80.255	
19,400.00	7,630.00	7,408.06	7,273.42	172.64	33.19	81.95	1,229.15	2,569.05	9,777.57	9,656.96	120.61	81.067	
19,500.00	7,630.00	7,407.77	7,273.13	174.21	33.19	81.94	1,229.14	2,569.05	9,874.84	9,754.23	120.60	81.878	
19,518.56	7,630.00	7,407.71	7,273.08	174.50	33.19	81.94	1,229.14	2,569.05	9,892.90	9,772.29	120.60	82.029	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	58.00	2,113.10	3,382.14	3,988.17					
100.00	100.00	52.10	52.10	0.13	0.10	58.00	2,113.11	3,382.18	3,988.05	3,987.82	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.01	2,113.17	3,382.70	3,988.68	3,987.83	0.85	4,680.006		
300.00	300.00	196.04	196.03	0.85	0.61	58.01	2,113.46	3,383.64	3,990.02	3,988.55	1.47	2,722.187		
400.00	400.00	291.56	291.53	1.21	0.96	58.01	2,114.31	3,385.20	3,991.87	3,989.70	2.17	1,843.072		
500.00	499.98	446.08	446.04	1.56	1.51	-8.72	2,114.98	3,386.95	3,991.38	3,988.31	3.07	1,300.110		
600.00	599.84	569.44	569.40	1.92	1.93	-8.74	2,114.79	3,387.08	3,986.19	3,982.34	3.85	1,035.640		
700.00	699.45	680.58	680.54	2.29	2.30	-8.80	2,115.03	3,386.64	3,977.36	3,972.78	4.59	867.385		
800.00	798.70	803.46	803.42	2.67	2.72	-8.88	2,115.04	3,385.52	3,964.54	3,959.18	5.37	738.461		
900.00	897.47	882.22	882.17	3.07	3.00	-8.96	2,114.89	3,384.76	3,948.20	3,942.20	6.01	657.321		
1,000.00	995.62	974.21	974.15	3.50	3.32	-9.07	2,115.20	3,384.26	3,929.06	3,922.36	6.70	586.718		
1,100.00	1,093.06	1,104.74	1,104.68	3.96	3.77	-9.24	2,115.69	3,382.70	3,906.06	3,898.53	7.53	518.969		
1,200.00	1,189.64	1,177.42	1,177.35	4.46	4.03	-9.37	2,115.48	3,381.89	3,879.47	3,871.31	8.16	475.455		
1,300.00	1,285.27	1,944.55	1,938.46	5.00	6.85	-9.86	2,061.00	3,324.92	3,835.87	3,824.77	11.11	345.374		
1,400.00	1,379.82	2,006.10	1,998.71	5.60	7.11	-10.00	2,049.82	3,319.17	3,787.52	3,775.81	11.70	323.636		
1,500.00	1,473.17	2,136.16	2,125.60	6.25	7.66	-10.07	2,023.49	3,308.19	3,735.77	3,723.24	12.53	298.150		
1,600.00	1,565.21	2,201.00	2,188.81	6.95	7.94	-10.22	2,010.08	3,302.85	3,681.11	3,667.96	13.15	279.922		
1,700.00	1,655.84	2,287.29	2,272.96	7.72	8.32	-10.38	1,992.28	3,295.90	3,623.80	3,609.96	13.85	261.701		
1,800.00	1,744.94	2,351.00	2,335.08	8.55	8.61	-10.59	1,979.11	3,290.80	3,563.72	3,549.24	14.48	246.187		
1,900.00	1,832.39	2,407.53	2,390.32	9.45	8.86	-10.85	1,967.96	3,286.27	3,501.34	3,486.26	15.09	232.103		
2,000.00	1,918.11	2,457.71	2,439.44	10.41	9.09	-11.14	1,958.45	3,282.42	3,436.87	3,421.19	15.68	219.192		
2,100.00	2,001.97	2,507.06	2,487.83	11.45	9.31	-11.48	1,949.46	3,278.83	3,370.38	3,354.10	16.28	207.082		
2,200.00	2,083.88	2,573.00	2,552.61	12.56	9.60	-11.88	1,937.99	3,274.37	3,301.98	3,285.05	16.92	195.127		
2,300.00	2,163.74	2,602.02	2,581.16	13.74	9.73	-12.31	1,933.16	3,272.52	3,231.51	3,214.04	17.47	185.005		
2,400.00	2,241.45	2,646.94	2,625.43	14.99	9.92	-12.80	1,925.99	3,269.79	3,159.25	3,141.19	18.06	174.922		
2,421.22	2,257.65	2,656.35	2,634.71	15.26	9.96	-12.92	1,924.53	3,269.23	3,143.68	3,125.49	18.19	172.814		
2,500.00	2,317.63	2,691.43	2,669.33	16.29	10.11	-12.96	1,919.26	3,267.23	3,085.90	3,067.24	18.66	165.397		
2,600.00	2,393.75	2,736.59	2,713.96	17.62	10.31	-13.03	1,912.80	3,264.80	3,013.01	2,993.75	19.26	156.418		
2,700.00	2,469.88	2,813.74	2,790.30	18.95	10.64	-13.17	1,902.49	3,260.62	2,940.48	2,920.53	19.95	147.392		
2,800.00	2,546.01	2,933.72	2,908.96	20.30	11.15	-13.45	1,886.94	3,252.03	2,867.10	2,846.38	20.72	138.361		
2,900.00	2,622.13	3,010.12	2,984.38	21.65	11.49	-13.63	1,876.37	3,245.95	2,792.92	2,771.52	21.41	130.465		
3,000.00	2,698.26	3,069.91	3,043.33	23.01	11.75	-13.76	1,867.40	3,241.59	2,718.72	2,696.65	22.07	123.177		
3,100.00	2,774.38	3,122.91	3,095.61	24.37	11.99	-13.87	1,859.50	3,238.00	2,644.85	2,622.11	22.74	116.323		
3,200.00	2,850.51	3,167.68	3,139.83	25.74	12.18	-13.98	1,853.07	3,235.16	2,571.44	2,548.03	23.40	109.870		
3,300.00	2,926.64	3,211.92	3,183.60	27.11	12.37	-14.09	1,847.22	3,232.52	2,498.68	2,474.60	24.09	103.735		
3,400.00	3,002.76	3,379.18	3,348.87	28.49	13.10	-14.63	1,824.99	3,219.77	2,425.07	2,400.21	24.85	97.569		
3,500.00	3,078.89	3,453.02	3,421.61	29.87	13.43	-14.93	1,814.88	3,212.04	2,349.61	2,324.06	25.55	91.948		
3,600.00	3,155.02	3,505.77	3,473.61	31.25	13.67	-15.16	1,807.84	3,206.65	2,274.46	2,248.20	26.26	86.612		
3,700.00	3,231.14	3,604.73	3,571.08	32.63	14.11	-15.62	1,794.38	3,196.18	2,199.06	2,172.10	26.96	81.575		
3,800.00	3,307.27	3,668.62	3,633.93	34.01	14.41	-15.94	1,785.40	3,189.04	2,123.18	2,095.50	27.67	76.719		
3,900.00	3,383.39	3,754.46	3,718.31	35.40	14.80	-16.40	1,772.92	3,179.37	2,047.15	2,018.77	28.37	72.153		
4,000.00	3,459.52	3,830.91	3,793.22	36.79	15.17	-16.80	1,760.42	3,170.64	1,970.33	1,941.25	29.08	67.762		
4,100.00	3,535.65	3,893.69	3,854.68	38.18	15.47	-17.13	1,749.56	3,163.80	1,893.48	1,863.67	29.81	63.513		
4,200.00	3,611.77	3,936.12	3,896.25	39.57	15.67	-17.35	1,742.28	3,159.49	1,817.09	1,786.47	30.62	59.344		
4,300.00	3,687.90	3,983.03	3,942.31	40.96	15.89	-17.62	1,734.50	3,155.11	1,741.41	1,709.97	31.44	55.381		
4,400.00	3,764.02	4,054.42	4,012.38	42.35	16.23	-18.04	1,722.39	3,148.91	1,665.96	1,633.75	32.20	51.730		
4,500.00	3,840.15	4,106.21	4,063.18	43.74	16.47	-18.34	1,713.19	3,144.71	1,590.58	1,557.52	33.06	48.117		
4,600.00	3,916.28	4,151.30	4,107.49	45.13	16.68	-18.61	1,705.42	3,141.61	1,516.07	1,482.09	33.97	44.625		
4,700.00	3,992.40	4,217.81	4,172.95	46.53	16.99	-19.06	1,694.47	3,137.45	1,442.23	1,407.42	34.81	41.427		
4,800.00	4,068.53	4,316.90	4,270.46	47.92	17.45	-19.91	1,678.79	3,129.38	1,367.79	1,332.31	35.48	38.554		
4,900.00	4,144.66	4,408.64	4,360.33	49.32	17.89	-20.88	1,663.24	3,119.54	1,291.44	1,255.28	36.16	35.711		
5,000.00	4,220.78	4,475.14	4,425.31	50.71	18.21	-21.66	1,651.18	3,112.08	1,214.53	1,177.49	37.05	32.781		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,296.91	4,529.99	4,478.95	52.11	18.48	-22.39	1,641.46	3,106.05	1,138.00	1,099.90	38.10	29.870		
5,200.00	4,373.03	4,603.92	4,551.25	53.51	18.85	-23.51	1,628.31	3,098.05	1,061.67	1,022.67	39.00	27.221		
5,300.00	4,449.16	4,668.06	4,613.79	54.90	19.17	-24.57	1,615.92	3,091.02	984.77	944.71	40.06	24.584		
5,400.00	4,525.29	4,720.29	4,664.83	56.30	19.43	-25.58	1,606.24	3,085.54	908.58	867.19	41.39	21.954		
5,500.00	4,601.41	4,780.91	4,724.20	57.70	19.72	-26.98	1,595.70	3,079.28	833.18	790.43	42.74	19.493		
5,600.00	4,677.54	4,846.91	4,788.88	59.10	20.05	-28.86	1,584.83	3,071.96	758.13	713.93	44.20	17.151		
5,700.00	4,753.66	4,920.62	4,860.94	60.49	20.41	-31.34	1,571.61	3,063.83	682.87	637.20	45.68	14.950		
5,800.00	4,829.79	4,983.61	4,922.37	61.89	20.73	-33.87	1,559.40	3,057.10	607.66	560.04	47.62	12.760		
5,900.00	4,905.92	5,045.31	4,982.53	63.29	21.04	-36.93	1,547.33	3,050.70	533.22	483.20	50.02	10.661		
6,000.00	4,982.04	5,106.44	5,042.18	64.69	21.35	-40.73	1,535.40	3,044.72	460.08	407.03	53.05	8.672		
6,100.00	5,058.17	5,167.48	5,101.81	66.09	21.65	-45.60	1,523.64	3,039.07	388.89	331.84	57.04	6.817		
6,200.00	5,134.30	5,229.52	5,162.52	67.49	21.96	-52.12	1,512.03	3,033.60	320.80	258.31	62.49	5.134		
6,300.00	5,210.42	5,293.00	5,224.69	68.89	22.27	-61.01	1,500.31	3,028.49	257.80	187.74	70.06	3.680		
6,400.00	5,286.55	5,358.34	5,288.74	70.29	22.58	-73.17	1,488.27	3,023.81	203.95	123.71	80.24	2.542		
6,500.00	5,362.67	5,424.60	5,353.72	71.69	22.90	-88.82	1,475.95	3,019.60	167.44	76.61	90.83	1.843		
6,569.69	5,415.72	5,470.23	5,398.43	72.67	23.12	-101.02	1,467.41	3,016.50	158.94	65.15	93.80	1.695 CC, ES, SF		
6,600.00	5,438.80	5,489.91	5,417.70	73.09	23.22	-106.37	1,463.71	3,015.07	160.60	67.66	92.94	1.728		
6,700.00	5,514.93	5,556.66	5,483.14	74.49	23.54	-123.30	1,451.32	3,010.54	186.86	103.62	83.24	2.245		
6,800.00	5,591.05	5,623.39	5,548.65	75.89	23.86	-136.88	1,439.30	3,006.59	234.83	162.76	72.07	3.259		
6,900.00	5,667.18	5,689.39	5,613.52	77.29	24.17	-146.85	1,427.77	3,002.59	294.20	229.97	64.23	4.580		
7,000.00	5,743.30	5,755.54	5,678.58	78.69	24.48	-154.11	1,416.59	2,998.44	359.36	299.92	59.44	6.045		
7,100.00	5,819.43	5,815.89	5,737.95	80.09	24.76	-159.05	1,406.54	2,994.26	427.98	371.51	56.47	7.579		
7,200.00	5,895.56	5,872.44	5,793.43	81.49	25.03	-162.68	1,396.83	2,989.28	499.62	445.06	54.56	9.157		
7,300.00	5,971.68	5,932.38	5,852.12	82.90	25.33	-165.74	1,386.27	2,983.30	573.18	519.66	53.52	10.710		
7,400.00	6,047.81	5,999.55	5,917.86	84.30	25.66	-168.46	1,374.35	2,976.32	647.78	594.56	53.22	12.173		
7,500.00	6,123.94	6,076.95	5,993.84	85.70	26.03	-170.87	1,361.45	2,969.21	721.92	668.36	53.57	13.477		
7,600.00	6,200.06	6,157.98	6,073.67	87.10	26.41	-172.80	1,349.01	2,962.98	795.19	740.97	54.22	14.666		
7,700.00	6,276.19	6,214.23	6,129.13	88.50	26.67	-173.88	1,340.69	2,958.62	868.59	814.33	54.26	16.008		
7,800.00	6,352.31	6,276.90	6,190.87	89.90	26.96	-174.91	1,331.38	2,953.27	942.69	888.10	54.59	17.269		
7,900.00	6,428.44	6,346.84	6,259.72	91.31	27.29	-175.95	1,320.49	2,947.53	1,016.90	961.72	55.18	18.430		
8,000.00	6,504.57	6,440.25	6,351.87	92.71	27.71	-177.09	1,306.68	2,941.10	1,090.22	1,033.81	56.41	19.328		
8,100.00	6,580.69	6,532.48	6,443.18	94.11	28.11	-177.97	1,294.52	2,936.38	1,162.08	1,104.50	57.58	20.183		
8,200.00	6,656.82	6,628.66	6,538.66	95.51	28.51	-178.70	1,283.50	2,932.98	1,232.53	1,173.72	58.81	20.957		
8,300.00	6,732.95	6,729.12	6,638.62	96.91	28.89	-179.30	1,273.61	2,931.13	1,301.46	1,241.37	60.09	21.657		
8,400.00	6,809.07	6,815.94	6,725.13	98.32	29.21	-179.70	1,266.36	2,930.45	1,369.29	1,308.23	61.06	22.425		
8,500.00	6,885.20	6,885.32	6,794.37	99.72	29.46	-179.91	1,261.99	2,929.58	1,436.86	1,375.18	61.68	23.296		
8,600.00	6,961.32	6,983.82	6,892.78	101.12	29.79	179.95	1,258.40	2,927.77	1,504.11	1,441.27	62.83	23.938		
8,700.00	7,037.45	7,066.93	6,975.87	102.52	30.05	179.91	1,256.97	2,926.84	1,570.23	1,506.55	63.68	24.657		
8,732.15	7,061.92	7,092.12	7,001.06	102.97	30.13	179.90	1,256.65	2,926.56	1,591.45	1,527.52	63.93	24.895		
8,750.00	7,075.57	7,107.54	7,016.47	103.22	30.18	176.43	1,256.48	2,926.39	1,603.15	1,539.07	64.08	25.016		
8,800.00	7,114.27	7,152.45	7,061.38	103.91	30.31	166.82	1,256.25	2,925.92	1,635.03	1,570.48	64.55	25.330		
8,850.00	7,153.47	8,214.89	7,773.52	104.58	30.51	-175.59	1,897.17	2,935.59	1,659.18	1,576.36	82.81	20.035		
8,900.00	7,192.85	8,219.89	7,773.87	105.21	30.51	176.81	1,902.15	2,935.72	1,672.54	1,588.99	83.54	20.020		
8,950.00	7,232.12	8,219.40	7,773.84	105.80	30.51	168.95	1,901.66	2,935.71	1,687.20	1,603.09	84.11	20.060		
9,000.00	7,270.99	8,214.08	7,773.46	106.35	30.51	161.04	1,896.36	2,935.57	1,703.02	1,618.50	84.53	20.148		
9,050.00	7,309.16	8,204.50	7,772.73	106.85	30.51	153.30	1,886.81	2,935.32	1,719.82	1,635.01	84.81	20.277		
9,100.00	7,346.32	8,191.24	7,771.61	107.30	30.50	145.87	1,873.61	2,934.94	1,737.37	1,652.37	85.00	20.439		
9,150.00	7,382.22	8,174.84	7,770.04	107.69	30.50	138.86	1,857.29	2,934.42	1,755.43	1,670.33	85.10	20.627		
9,200.00	7,416.56	8,157.83	7,768.08	108.02	30.51	132.39	1,840.40	2,933.80	1,773.78	1,688.56	85.22	20.814		
9,250.00	7,449.09	9,250.00	7,762.71	108.29	30.75	125.98	1,807.01	2,932.23	1,792.17	1,706.82	85.35	20.997		
9,300.00	7,479.56	8,033.28	7,741.68	108.51	30.57	118.53	1,718.96	2,928.59	1,810.17	1,727.67	82.50	21.941		
9,350.00	7,507.74	7,983.58	7,724.17	108.68	30.61	112.91	1,672.49	2,927.18	1,826.54	1,744.85	81.69	22.360		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,533.41	7,961.94	7,715.19	108.79	30.62	108.66	1,652.81	2,926.49	1,842.10	1,760.26	81.83	22.510		
9,450.00	7,556.39	7,893.44	7,682.27	108.86	30.68	103.62	1,592.82	2,924.30	1,856.68	1,776.10	80.57	23.044		
9,500.00	7,576.48	7,844.87	7,655.68	108.88	30.73	99.68	1,552.18	2,923.49	1,869.43	1,789.42	80.01	23.366		
9,550.00	7,593.55	7,820.17	7,641.28	108.86	30.75	96.86	1,532.12	2,923.13	1,880.75	1,800.51	80.24	23.440		
9,600.00	7,607.46	7,791.40	7,623.76	108.80	30.78	94.37	1,509.31	2,922.64	1,890.61	1,810.20	80.41	23.512		
9,650.00	7,618.11	7,692.44	7,556.59	108.71	30.86	90.57	1,436.80	2,922.51	1,898.49	1,819.92	78.57	24.164		
9,700.00	7,625.41	7,668.29	7,538.36	108.59	30.87	89.07	1,420.97	2,922.95	1,903.91	1,824.87	79.04	24.087		
9,750.00	7,629.30	7,642.50	7,518.19	108.45	30.88	87.90	1,404.91	2,923.40	1,907.54	1,827.98	79.56	23.976		
9,781.81	7,630.00	7,625.57	7,504.64	108.35	30.88	87.35	1,394.75	2,923.71	1,908.87	1,828.95	79.92	23.886		
9,800.00	7,630.00	7,616.07	7,496.94	108.29	30.89	87.11	1,389.19	2,923.88	1,909.46	1,829.32	80.14	23.828		
9,900.00	7,630.00	7,578.67	7,465.93	107.97	30.89	86.18	1,368.31	2,924.47	1,915.09	1,833.26	81.84	23.402		
10,000.00	7,630.00	7,553.23	7,444.21	107.67	30.89	85.53	1,355.06	2,924.71	1,925.00	1,841.05	83.95	22.931		
10,100.00	7,630.00	7,533.76	7,427.27	107.38	30.89	85.03	1,345.48	2,924.67	1,939.47	1,853.21	86.26	22.484		
10,200.00	7,630.00	7,513.83	7,409.64	107.10	30.88	84.50	1,336.18	2,924.43	1,958.49	1,869.94	88.55	22.116		
10,300.00	7,630.00	7,485.57	7,384.25	106.84	30.87	83.75	1,323.79	2,924.03	1,981.80	1,891.20	90.59	21.876		
10,400.00	7,630.00	7,457.21	7,358.35	106.59	30.86	82.98	1,312.25	2,923.68	2,009.25	1,916.66	92.59	21.702		
10,500.00	7,630.00	7,428.92	7,332.14	106.35	30.84	82.21	1,301.59	2,923.50	2,040.66	1,946.15	94.51	21.592		
10,600.00	7,630.00	7,408.98	7,313.46	106.13	30.82	81.66	1,294.63	2,923.48	2,076.00	1,979.46	96.53	21.506		
10,700.00	7,630.00	7,392.51	7,297.87	105.92	30.80	81.20	1,289.30	2,923.52	2,115.19	2,016.67	98.51	21.471		
10,800.00	7,630.00	7,378.00	7,284.04	105.72	30.79	80.79	1,284.92	2,923.59	2,158.08	2,057.68	100.41	21.493		
10,900.00	7,630.00	7,378.00	7,284.04	105.54	30.79	80.79	1,284.92	2,923.59	2,204.59	2,102.16	102.43	21.524		
11,000.00	7,630.00	7,355.67	7,262.58	105.37	30.76	80.16	1,278.73	2,923.74	2,254.28	2,150.39	103.89	21.698		
11,100.00	7,630.00	7,346.02	7,253.26	105.21	30.75	79.89	1,276.26	2,923.81	2,307.20	2,201.75	105.45	21.880		
11,200.00	7,630.00	7,331.00	7,238.68	105.06	30.73	79.47	1,272.65	2,923.92	2,363.09	2,256.30	106.79	22.129		
11,300.00	7,630.00	7,331.00	7,238.68	104.93	30.73	79.47	1,272.65	2,923.92	2,421.70	2,313.48	108.22	22.377		
11,400.00	7,630.00	7,331.00	7,238.68	104.82	30.73	79.47	1,272.65	2,923.92	2,482.95	2,373.43	109.52	22.672		
11,500.00	7,630.00	7,331.00	7,238.68	104.72	30.73	79.47	1,272.65	2,923.92	2,546.66	2,435.97	110.69	23.008		
11,600.00	7,630.00	7,311.77	7,219.89	104.63	30.70	78.92	1,268.54	2,924.08	2,612.37	2,500.86	111.50	23.429		
11,700.00	7,630.00	7,306.88	7,215.10	104.55	30.69	78.78	1,267.60	2,924.14	2,680.29	2,567.89	112.40	23.845		
11,800.00	7,630.00	7,302.40	7,210.69	104.50	30.68	78.65	1,266.76	2,924.19	2,750.14	2,636.92	113.22	24.291		
11,900.00	7,630.00	7,284.00	7,192.55	104.45	30.65	78.13	1,263.72	2,924.43	2,821.94	2,708.14	113.80	24.797		
12,000.00	7,630.00	7,284.00	7,192.55	104.43	30.65	78.13	1,263.72	2,924.43	2,895.16	2,780.66	114.51	25.284		
12,100.00	7,630.00	7,284.00	7,192.55	104.42	30.65	78.13	1,263.72	2,924.43	2,969.95	2,854.81	115.14	25.795		
12,200.00	7,630.00	7,284.00	7,192.55	104.42	30.65	78.13	1,263.72	2,924.43	3,046.19	2,930.49	115.70	26.328		
12,300.00	7,630.00	7,284.00	7,192.55	104.45	30.65	78.13	1,263.72	2,924.43	3,123.76	3,007.56	116.20	26.882		
12,400.00	7,630.00	7,284.00	7,192.55	104.49	30.65	78.13	1,263.72	2,924.43	3,202.58	3,085.93	116.65	27.454		
12,500.00	7,630.00	7,284.00	7,192.55	104.55	30.65	78.13	1,263.72	2,924.43	3,282.55	3,165.50	117.05	28.043		
12,600.00	7,630.00	7,284.00	7,192.55	104.63	30.65	78.13	1,263.72	2,924.43	3,363.60	3,246.19	117.41	28.648		
12,700.00	7,630.00	7,284.00	7,192.55	104.73	30.65	78.13	1,263.72	2,924.43	3,445.64	3,327.91	117.73	29.268		
12,800.00	7,630.00	7,284.00	7,192.55	104.85	30.65	78.13	1,263.72	2,924.43	3,528.61	3,410.60	118.01	29.901		
12,900.00	7,630.00	7,284.00	7,192.55	104.99	30.65	78.13	1,263.72	2,924.43	3,612.44	3,494.17	118.26	30.546		
13,000.00	7,630.00	7,284.00	7,192.55	105.15	30.65	78.13	1,263.72	2,924.43	3,697.07	3,578.58	118.49	31.203		
13,100.00	7,630.00	7,284.00	7,192.55	105.34	30.65	78.13	1,263.72	2,924.43	3,782.45	3,663.77	118.68	31.870		
13,200.00	7,630.00	7,284.00	7,192.55	105.56	30.65	78.13	1,263.72	2,924.43	3,868.54	3,749.68	118.86	32.547		
13,300.00	7,630.00	7,284.00	7,192.55	105.80	30.65	78.13	1,263.72	2,924.43	3,955.28	3,836.27	119.01	33.234		
13,400.00	7,630.00	7,284.00	7,192.55	106.06	30.65	78.13	1,263.72	2,924.43	4,042.63	3,923.48	119.15	33.929		
13,500.00	7,630.00	7,284.00	7,192.55	106.36	30.65	78.13	1,263.72	2,924.43	4,130.56	4,011.29	119.27	34.631		
13,600.00	7,630.00	7,284.00	7,192.55	106.68	30.65	78.13	1,263.72	2,924.43	4,219.02	4,099.64	119.38	35.342		
13,700.00	7,630.00	7,284.00	7,192.55	107.03	30.65	78.13	1,263.72	2,924.43	4,307.99	4,188.52	119.47	36.059		
13,800.00	7,630.00	7,284.00	7,192.55	107.42	30.65	78.13	1,263.72	2,924.43	4,397.43	4,277.88	119.55	36.783		
13,900.00	7,630.00	7,284.00	7,192.55	107.83	30.65	78.13	1,263.72	2,924.43	4,487.32	4,367.70	119.62	37.513		
14,000.00	7,630.00	7,284.00	7,192.55	108.28	30.65	78.13	1,263.72	2,924.43	4,577.63	4,457.95	119.68	38.248		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,630.00	7,284.00	7,192.55	108.77	30.65	78.13	1,263.72	2,924.43	4,668.33	4,548.60	119.73	38.989		
14,200.00	7,630.00	7,284.00	7,192.55	109.29	30.65	78.13	1,263.72	2,924.43	4,759.41	4,639.63	119.78	39.735		
14,300.00	7,630.00	7,284.00	7,192.55	109.84	30.65	78.13	1,263.72	2,924.43	4,850.83	4,731.02	119.82	40.485		
14,400.00	7,630.00	7,284.00	7,192.55	110.43	30.65	78.13	1,263.72	2,924.43	4,942.59	4,822.74	119.85	41.240		
14,500.00	7,630.00	7,284.00	7,192.55	111.06	30.65	78.13	1,263.72	2,924.43	5,034.67	4,914.79	119.87	41.999		
14,600.00	7,630.00	7,243.05	7,151.90	111.72	30.55	76.96	1,258.87	2,924.97	5,125.67	5,005.95	119.72	42.813		
14,700.00	7,630.00	7,242.01	7,150.87	112.42	30.55	76.93	1,258.78	2,924.98	5,218.26	5,098.52	119.74	43.580		
14,800.00	7,630.00	7,241.01	7,149.87	113.16	30.55	76.90	1,258.69	2,925.00	5,311.10	5,191.35	119.75	44.351		
14,900.00	7,630.00	7,240.05	7,148.91	113.94	30.54	76.87	1,258.61	2,925.01	5,404.21	5,284.45	119.76	45.125		
15,000.00	7,630.00	7,239.12	7,147.98	114.75	30.54	76.85	1,258.53	2,925.02	5,497.55	5,377.78	119.77	45.902		
15,100.00	7,630.00	7,238.22	7,147.09	115.60	30.54	76.82	1,258.46	2,925.03	5,591.12	5,471.35	119.77	46.682		
15,200.00	7,630.00	7,237.35	7,146.22	116.48	30.54	76.80	1,258.39	2,925.04	5,684.91	5,565.14	119.77	47.465		
15,300.00	7,630.00	7,236.50	7,145.38	117.40	30.54	76.77	1,258.33	2,925.05	5,778.91	5,659.14	119.77	48.250		
15,400.00	7,630.00	7,235.69	7,144.56	118.35	30.53	76.75	1,258.26	2,925.06	5,873.10	5,753.34	119.77	49.038		
15,500.00	7,630.00	7,234.90	7,143.77	119.34	30.53	76.73	1,258.20	2,925.07	5,967.48	5,847.72	119.76	49.828		
15,600.00	7,630.00	7,234.13	7,143.01	120.35	30.53	76.70	1,258.15	2,925.08	6,062.05	5,942.29	119.76	50.620		
15,700.00	7,630.00	7,233.39	7,142.27	121.40	30.53	76.68	1,258.09	2,925.09	6,156.78	6,037.03	119.75	51.414		
15,800.00	7,630.00	7,232.67	7,141.55	122.48	30.53	76.66	1,258.04	2,925.10	6,251.67	6,131.93	119.74	52.210		
15,900.00	7,630.00	7,231.97	7,140.85	123.58	30.53	76.64	1,257.99	2,925.10	6,346.72	6,226.99	119.73	53.008		
16,000.00	7,630.00	7,231.29	7,140.18	124.71	30.52	76.62	1,257.94	2,925.11	6,441.93	6,322.20	119.72	53.808		
16,100.00	7,630.00	7,189.00	7,097.93	125.87	30.42	75.42	1,256.34	2,925.56	6,538.67	6,419.09	119.58	54.680		
16,200.00	7,630.00	7,189.00	7,097.93	127.05	30.42	75.42	1,256.34	2,925.56	6,634.11	6,514.53	119.57	55.482		
16,300.00	7,630.00	7,189.00	7,097.93	128.26	30.42	75.42	1,256.34	2,925.56	6,729.68	6,610.11	119.56	56.285		
16,400.00	7,630.00	7,189.00	7,097.93	129.48	30.42	75.42	1,256.34	2,925.56	6,825.37	6,705.82	119.56	57.090		
16,500.00	7,630.00	7,189.00	7,097.93	130.73	30.42	75.42	1,256.34	2,925.56	6,921.19	6,801.64	119.55	57.895		
16,600.00	7,630.00	7,189.00	7,097.93	132.00	30.42	75.42	1,256.34	2,925.56	7,017.12	6,897.59	119.54	58.703		
16,700.00	7,630.00	7,189.00	7,097.93	133.29	30.42	75.42	1,256.34	2,925.56	7,113.17	6,993.64	119.53	59.511		
16,800.00	7,630.00	7,189.00	7,097.93	134.59	30.42	75.42	1,256.34	2,925.56	7,209.32	7,089.81	119.52	60.321		
16,900.00	7,630.00	7,189.00	7,097.93	135.91	30.42	75.42	1,256.34	2,925.56	7,305.58	7,186.07	119.51	61.131		
17,000.00	7,630.00	7,189.00	7,097.93	137.25	30.42	75.42	1,256.34	2,925.56	7,401.94	7,282.44	119.50	61.943		
17,100.00	7,630.00	7,189.00	7,097.93	138.61	30.42	75.42	1,256.34	2,925.56	7,498.39	7,378.90	119.49	62.755		
17,200.00	7,630.00	7,189.00	7,097.93	139.97	30.42	75.42	1,256.34	2,925.56	7,594.93	7,475.45	119.48	63.569		
17,300.00	7,630.00	7,189.00	7,097.93	141.36	30.42	75.42	1,256.34	2,925.56	7,691.56	7,572.10	119.47	64.383		
17,400.00	7,630.00	7,189.00	7,097.93	142.75	30.42	75.42	1,256.34	2,925.56	7,788.28	7,668.82	119.46	65.198		
17,500.00	7,630.00	7,189.00	7,097.93	144.16	30.42	75.42	1,256.34	2,925.56	7,885.08	7,765.63	119.45	66.014		
17,600.00	7,630.00	7,189.00	7,097.93	145.58	30.42	75.42	1,256.34	2,925.56	7,981.95	7,862.52	119.44	66.831		
17,700.00	7,630.00	7,189.00	7,097.93	147.01	30.42	75.42	1,256.34	2,925.56	8,078.91	7,959.48	119.43	67.648		
17,800.00	7,630.00	7,189.00	7,097.93	148.45	30.42	75.42	1,256.34	2,925.56	8,175.94	8,056.52	119.42	68.466		
17,900.00	7,630.00	7,189.00	7,097.93	149.91	30.42	75.42	1,256.34	2,925.56	8,273.03	8,153.63	119.41	69.284		
18,000.00	7,630.00	7,189.00	7,097.93	151.37	30.42	75.42	1,256.34	2,925.56	8,370.20	8,250.80	119.40	70.103		
18,100.00	7,630.00	7,189.00	7,097.93	152.84	30.42	75.42	1,256.34	2,925.56	8,467.43	8,348.04	119.39	70.922		
18,200.00	7,630.00	7,189.00	7,097.93	154.32	30.42	75.42	1,256.34	2,925.56	8,564.73	8,445.34	119.38	71.742		
18,300.00	7,630.00	7,189.00	7,097.93	155.81	30.42	75.42	1,256.34	2,925.56	8,662.08	8,542.71	119.38	72.562		
18,400.00	7,630.00	7,189.00	7,097.93	157.31	30.42	75.42	1,256.34	2,925.56	8,759.50	8,640.13	119.37	73.382		
18,500.00	7,630.00	7,189.00	7,097.93	158.81	30.42	75.42	1,256.34	2,925.56	8,856.98	8,737.62	119.36	74.203		
18,600.00	7,630.00	7,189.00	7,097.93	160.32	30.42	75.42	1,256.34	2,925.56	8,954.51	8,835.15	119.35	75.024		
18,700.00	7,630.00	7,189.00	7,097.93	161.84	30.42	75.42	1,256.34	2,925.56	9,052.09	8,932.74	119.35	75.846		
18,800.00	7,630.00	7,189.00	7,097.93	163.37	30.42	75.42	1,256.34	2,925.56	9,149.73	9,030.38	119.34	76.668		
18,900.00	7,630.00	7,189.00	7,097.93	164.90	30.42	75.42	1,256.34	2,925.56	9,247.41	9,128.08	119.34	77.489		
19,000.00	7,630.00	7,189.00	7,097.93	166.43	30.42	75.42	1,256.34	2,925.56	9,345.15	9,225.82	119.33	78.311		
19,100.00	7,630.00	7,189.00	7,097.93	167.98	30.42	75.42	1,256.34	2,925.56	9,442.93	9,323.60	119.33	79.134		
19,200.00	7,630.00	7,189.00	7,097.93	169.53	30.42	75.42	1,256.34	2,925.56	9,540.76	9,421.44	119.33	79.956		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
19,300.00	7,630.00	7,189.00	7,097.93	171.08	30.42	75.42	1,256.34	2,925.56	9,638.64	9,519.31	119.32	80.778	
19,400.00	7,630.00	7,189.00	7,097.93	172.64	30.42	75.42	1,256.34	2,925.56	9,736.55	9,617.23	119.32	81.601	
19,500.00	7,630.00	7,189.00	7,097.93	174.21	30.42	75.42	1,256.34	2,925.56	9,834.51	9,715.19	119.32	82.424	
19,518.56	7,630.00	7,189.00	7,097.93	174.50	30.42	75.42	1,256.34	2,925.56	9,852.70	9,733.38	119.32	82.576	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	175.78	-4,018.10	296.29	4,029.03					
100.00	100.00	54.10	54.10	0.13	0.09	175.78	-4,018.30	296.54	4,029.35	4,029.13	0.22	N/A		
200.00	200.00	120.00	119.99	0.49	0.20	175.77	-4,019.06	297.53	4,030.60	4,029.92	0.69	5,867.000		
300.00	300.00	298.16	298.11	0.85	0.83	175.73	-4,020.41	300.43	4,031.63	4,029.95	1.68	2,397.493		
400.00	400.00	411.80	411.75	1.21	1.23	175.71	-4,019.73	301.42	4,031.10	4,028.65	2.44	1,650.964		
451.00	451.00	460.40	460.34	1.39	1.41	108.98	-4,019.37	302.22	4,030.93	4,028.14	2.80	1,441.957		
500.00	499.98	515.92	515.84	1.56	1.61	108.98	-4,018.91	303.81	4,031.06	4,027.89	3.17	1,272.215		
600.00	599.84	810.27	808.54	1.92	2.72	108.82	-4,007.91	330.90	4,029.93	4,025.30	4.63	870.159		
700.00	699.45	1,000.23	995.36	2.29	3.52	108.66	-3,992.75	361.70	4,025.95	4,020.16	5.79	695.336		
800.00	798.70	1,091.45	1,084.51	2.67	3.94	108.62	-3,984.24	379.03	4,022.05	4,015.48	6.58	611.515		
900.00	897.47	1,174.29	1,165.39	3.07	4.33	108.60	-3,976.93	395.36	4,019.81	4,012.45	7.36	546.141		
1,000.00	995.62	1,311.87	1,300.08	3.50	4.97	108.61	-3,964.20	420.33	4,018.04	4,009.62	8.42	477.381		
1,070.43	1,064.33	1,361.60	1,348.81	3.82	5.21	108.63	-3,959.63	429.16	4,017.57	4,008.60	8.97	447.990		
1,100.00	1,093.06	1,392.42	1,378.99	3.96	5.35	108.65	-3,956.88	434.76	4,017.62	4,008.38	9.25	434.481		
1,200.00	1,189.64	1,535.87	1,519.04	4.46	6.06	108.74	-3,943.17	462.60	4,018.00	4,007.58	10.42	385.533		
1,300.00	1,285.27	1,660.07	1,639.80	5.00	6.69	108.84	-3,929.99	488.46	4,018.52	4,006.95	11.57	347.380		
1,400.00	1,379.82	1,771.85	1,748.46	5.60	7.27	108.97	-3,917.60	511.59	4,019.72	4,007.02	12.70	316.460		
1,500.00	1,473.17	1,858.80	1,833.22	6.25	7.71	109.10	-3,908.08	528.48	4,022.13	4,008.38	13.76	292.398		
1,600.00	1,565.21	1,937.19	1,909.63	6.95	8.11	109.21	-3,899.82	543.87	4,026.17	4,011.35	14.82	271.686		
1,700.00	1,655.84	2,036.81	2,006.76	7.72	8.61	109.40	-3,889.54	563.48	4,031.66	4,015.62	16.04	251.340		
1,800.00	1,744.94	2,142.02	2,109.15	8.55	9.16	109.62	-3,878.50	585.03	4,038.31	4,020.95	17.35	232.701		
1,900.00	1,832.39	2,243.66	2,207.75	9.45	9.70	109.83	-3,867.61	607.14	4,046.11	4,027.39	18.72	216.137		
2,000.00	1,918.11	2,357.33	2,318.02	10.41	10.31	110.11	-3,855.22	631.79	4,055.08	4,034.87	20.21	200.690		
2,100.00	2,001.97	2,471.67	2,428.98	11.45	10.92	110.44	-3,842.02	656.01	4,064.81	4,043.06	21.75	186.918		
2,200.00	2,083.88	2,548.12	2,503.18	12.56	11.33	110.60	-3,833.16	672.15	4,076.01	4,052.85	23.16	176.019		
2,300.00	2,163.74	2,716.33	2,666.14	13.74	12.25	111.25	-3,813.20	708.73	4,088.73	4,063.64	25.09	162.986		
2,400.00	2,241.45	2,787.00	2,734.74	14.99	12.63	111.41	-3,803.98	723.00	4,101.73	4,075.16	26.57	154.382		
2,421.22	2,257.65	2,787.00	2,734.74	15.26	12.63	111.35	-3,803.98	723.00	4,104.82	4,078.00	26.82	153.071		
2,500.00	2,317.63	2,833.89	2,780.29	16.29	12.87	111.64	-3,798.21	732.50	4,116.74	4,088.77	27.97	147.180		
2,600.00	2,393.75	2,881.00	2,826.09	17.62	13.12	111.92	-3,793.06	742.27	4,133.30	4,103.93	29.38	140.704		
2,700.00	2,469.88	3,001.63	2,943.22	18.95	13.77	112.63	-3,779.90	767.88	4,150.39	4,119.23	31.16	133.207		
2,800.00	2,546.01	3,070.00	3,009.49	20.30	14.15	113.03	-3,772.18	782.84	4,167.55	4,134.87	32.68	127.543		
2,900.00	2,622.13	3,126.92	3,064.66	21.65	14.46	113.36	-3,766.13	795.50	4,185.71	4,151.58	34.13	122.633		
3,000.00	2,698.26	3,271.07	3,204.29	23.01	15.25	114.16	-3,751.50	828.18	4,204.86	4,168.81	36.05	116.651		
3,100.00	2,774.38	3,354.20	3,284.71	24.37	15.71	114.62	-3,742.20	847.06	4,223.16	4,185.53	37.63	112.217		
3,200.00	2,850.51	3,439.83	3,367.60	25.74	16.19	115.10	-3,732.71	866.29	4,241.96	4,202.74	39.22	108.149		
3,300.00	2,926.64	3,546.76	3,471.15	27.11	16.78	115.69	-3,720.71	890.13	4,261.01	4,220.10	40.91	104.149		
3,400.00	3,002.76	3,611.39	3,533.79	28.49	17.13	116.05	-3,713.50	904.31	4,280.51	4,238.14	42.37	101.030		
3,500.00	3,078.89	3,686.29	3,606.47	29.87	17.54	116.46	-3,705.49	920.54	4,300.81	4,256.95	43.86	98.048		
3,600.00	3,155.02	3,758.59	3,676.69	31.25	17.93	116.86	-3,697.92	936.04	4,321.72	4,276.39	45.33	95.334		
3,700.00	3,231.14	3,827.00	3,743.25	32.63	18.29	117.24	-3,691.15	950.31	4,343.53	4,296.77	46.76	92.881		
3,800.00	3,307.27	3,879.36	3,794.31	34.01	18.56	117.53	-3,686.26	960.80	4,366.28	4,318.19	48.09	90.794		
3,900.00	3,383.39	3,938.91	3,852.55	35.40	18.86	117.87	-3,680.95	972.05	4,389.98	4,340.55	49.43	88.810		
4,000.00	3,459.52	3,995.70	3,908.26	36.79	19.14	118.21	-3,676.16	981.96	4,414.66	4,363.93	50.73	87.022		
4,100.00	3,535.65	4,042.90	3,954.69	38.18	19.36	118.49	-3,672.43	989.56	4,440.42	4,388.46	51.96	85.462		
4,200.00	3,611.77	4,084.52	3,995.74	39.57	19.55	118.74	-3,669.49	995.80	4,467.43	4,414.30	53.13	84.079		
4,300.00	3,687.90	4,127.60	4,038.31	40.96	19.73	119.00	-3,666.79	1,001.80	4,495.72	4,441.43	54.29	82.808		
4,400.00	3,764.02	4,173.57	4,083.85	42.35	19.92	119.29	-3,664.20	1,007.52	4,525.20	4,469.76	55.43	81.633		
4,500.00	3,840.15	4,226.51	4,136.41	43.74	20.13	119.63	-3,661.50	1,013.20	4,555.81	4,499.24	56.58	80.521		
4,600.00	3,916.28	4,296.09	4,205.64	45.13	20.39	120.09	-3,657.94	1,019.24	4,587.25	4,529.49	57.76	79.414		
4,700.00	3,992.40	4,338.60	4,247.99	46.53	20.54	120.38	-3,655.84	1,022.17	4,619.64	4,560.84	58.80	78.563		
4,800.00	4,068.53	4,394.00	4,303.26	47.92	20.73	120.76	-3,653.53	1,025.26	4,653.29	4,593.42	59.87	77.725		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 120-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,144.66	4,394.00	4,303.26	49.32	20.73	120.76	-3,653.53	1,025.26	4,688.19	4,627.50	60.69	77.251		
5,000.00	4,220.78	4,445.33	4,354.52	50.71	20.89	121.11	-3,651.97	1,027.42	4,724.23	4,662.55	61.69	76.585		
5,100.00	4,296.91	4,488.00	4,397.16	52.11	21.02	121.41	-3,651.22	1,028.72	4,761.74	4,699.11	62.63	76.030		
5,200.00	4,373.03	4,526.57	4,435.73	53.51	21.13	121.67	-3,650.79	1,029.64	4,800.36	4,736.83	63.53	75.559		
5,300.00	4,449.16	4,592.01	4,501.15	54.90	21.32	122.13	-3,650.15	1,030.88	4,839.80	4,775.27	64.53	75.005		
5,400.00	4,525.29	4,682.49	4,591.61	56.30	21.58	122.75	-3,649.22	1,032.56	4,879.72	4,814.11	65.61	74.373		
5,500.00	4,601.41	4,757.74	4,666.84	57.70	21.80	123.26	-3,648.41	1,034.13	4,920.05	4,853.42	66.63	73.845		
5,600.00	4,677.54	4,839.90	4,748.97	59.10	22.05	123.81	-3,647.58	1,036.05	4,960.83	4,893.17	67.66	73.317		
5,700.00	4,753.66	4,927.89	4,836.93	60.49	22.31	124.38	-3,646.63	1,038.34	5,001.96	4,933.24	68.72	72.790		
5,800.00	4,829.79	5,007.09	4,916.09	61.89	22.55	124.90	-3,645.65	1,040.44	5,043.41	4,973.68	69.72	72.333		
5,900.00	4,905.92	5,085.05	4,994.02	63.29	22.79	125.39	-3,644.70	1,042.41	5,085.33	5,014.61	70.71	71.914		
6,000.00	4,982.04	5,167.84	5,076.78	64.69	23.04	125.92	-3,643.51	1,044.25	5,127.59	5,055.88	71.71	71.504		
6,100.00	5,058.17	5,240.62	5,149.54	66.09	23.26	126.38	-3,642.32	1,045.39	5,170.30	5,097.65	72.65	71.171		
6,200.00	5,134.30	5,302.38	5,211.28	67.49	23.44	126.77	-3,641.29	1,045.98	5,213.57	5,140.05	73.51	70.919		
6,300.00	5,210.42	5,358.84	5,267.74	68.89	23.60	127.13	-3,640.43	1,046.26	5,257.51	5,183.16	74.34	70.718		
6,400.00	5,286.55	5,408.74	5,317.63	70.29	23.74	127.45	-3,639.83	1,046.24	5,302.22	5,227.09	75.13	70.576		
6,500.00	5,362.67	5,461.20	5,370.10	71.69	23.88	127.78	-3,639.38	1,045.96	5,347.70	5,271.80	75.90	70.453		
6,600.00	5,438.80	5,516.08	5,424.97	73.09	24.03	128.12	-3,639.10	1,045.56	5,393.90	5,317.22	76.68	70.346		
6,700.00	5,514.93	5,590.97	5,499.86	74.49	24.23	128.58	-3,638.87	1,044.95	5,440.66	5,363.14	77.52	70.182		
6,800.00	5,591.05	5,665.47	5,574.36	75.89	24.42	129.04	-3,638.61	1,044.32	5,487.77	5,409.42	78.36	70.035		
6,900.00	5,667.18	5,739.89	5,648.77	77.29	24.62	129.49	-3,638.32	1,043.50	5,535.31	5,456.12	79.18	69.905		
7,000.00	5,743.30	5,822.66	5,731.53	78.69	24.84	129.98	-3,637.88	1,042.48	5,583.15	5,503.11	80.04	69.758		
7,100.00	5,819.43	5,885.51	5,794.38	80.09	25.01	130.35	-3,637.56	1,041.61	5,631.40	5,550.61	80.79	69.702		
7,200.00	5,895.56	5,965.64	5,874.50	81.49	25.23	130.82	-3,637.17	1,040.42	5,680.06	5,598.44	81.62	69.593		
7,300.00	5,971.68	6,078.57	5,987.42	82.90	25.54	131.47	-3,636.32	1,038.99	5,728.83	5,646.24	82.59	69.365		
7,400.00	6,047.81	6,167.35	6,076.19	84.30	25.80	131.97	-3,635.37	1,038.39	5,777.49	5,694.03	83.46	69.227		
7,500.00	6,123.94	6,265.18	6,174.01	85.70	26.08	132.51	-3,634.26	1,038.13	5,826.30	5,741.93	84.37	69.057		
7,600.00	6,200.06	6,356.81	6,265.63	87.10	26.35	133.01	-3,632.87	1,037.89	5,875.14	5,789.89	85.25	68.919		
7,700.00	6,276.19	6,429.00	6,337.80	88.50	26.57	133.40	-3,631.53	1,037.43	5,924.19	5,838.17	86.02	68.870		
7,800.00	6,352.31	6,497.54	6,406.33	89.90	26.77	133.77	-3,630.22	1,036.68	5,973.65	5,886.89	86.76	68.849		
7,900.00	6,428.44	6,570.60	6,479.37	91.31	26.98	134.16	-3,628.82	1,035.79	6,023.48	5,935.95	87.52	68.822		
8,000.00	6,504.57	6,660.82	6,569.56	92.71	27.25	134.63	-3,627.10	1,034.86	6,073.51	5,985.16	88.36	68.738		
8,100.00	6,580.69	6,699.47	6,608.22	94.11	27.36	134.83	-3,626.48	1,034.53	6,123.97	6,035.02	88.94	68.853		
8,200.00	6,656.82	6,756.00	6,664.74	95.51	27.53	135.12	-3,626.04	1,033.99	6,175.22	6,085.61	89.61	68.916		
8,300.00	6,732.95	6,800.81	6,709.54	96.91	27.66	135.34	-3,625.88	1,033.53	6,227.01	6,136.80	90.20	69.033		
8,400.00	6,809.07	6,887.44	6,796.17	98.32	27.91	135.78	-3,625.43	1,032.65	6,279.02	6,188.02	91.00	68.999		
8,500.00	6,885.20	6,979.99	6,888.72	99.72	28.18	136.23	-3,624.98	1,032.08	6,331.17	6,239.34	91.83	68.941		
8,600.00	6,961.32	7,067.70	6,976.42	101.12	28.45	136.64	-3,624.44	1,031.96	6,383.26	6,290.61	92.65	68.897		
8,700.00	7,037.45	7,127.18	7,035.91	102.52	28.63	136.92	-3,624.22	1,031.97	6,435.70	6,342.38	93.32	68.966		
8,732.15	7,061.92	7,157.17	7,065.90	102.97	28.72	137.06	-3,624.15	1,031.98	6,452.63	6,359.04	93.59	68.947		
8,750.00	7,075.57	7,177.27	7,086.00	103.22	28.79	134.62	-3,624.08	1,031.99	6,461.82	6,368.06	93.76	68.920		
8,800.00	7,114.27	7,234.36	7,143.08	103.91	28.96	127.71	-3,623.76	1,032.02	6,485.24	6,390.99	94.25	68.809		
8,850.00	7,153.47	7,268.02	7,176.74	104.58	29.07	120.63	-3,623.52	1,032.03	6,505.22	6,410.59	94.63	68.742		
8,900.00	7,192.85	7,304.16	7,212.89	105.21	29.18	113.65	-3,623.28	1,032.00	6,521.69	6,426.65	95.04	68.622		
8,950.00	7,232.12	7,347.78	7,256.50	105.80	29.31	106.99	-3,622.97	1,031.95	6,534.53	6,439.04	95.49	68.431		
9,000.00	7,270.99	7,399.32	7,308.04	106.35	29.47	100.83	-3,622.58	1,032.00	6,543.60	6,447.61	95.99	68.170		
9,050.00	7,309.16	7,437.89	7,346.61	106.85	29.60	95.18	-3,622.27	1,032.09	6,548.87	6,452.45	96.42	67.923		
9,100.00	7,346.32	7,469.07	7,377.79	107.30	29.69	90.18	-3,622.03	1,032.14	6,550.41	6,453.61	96.80	67.672		
9,150.00	7,382.22	7,499.11	7,407.83	107.69	29.79	85.90	-3,621.81	1,032.16	6,548.22	6,451.06	97.16	67.397		
9,200.00	7,416.56	7,536.21	7,444.92	108.02	29.90	82.39	-3,621.54	1,032.17	6,542.34	6,444.79	97.55	67.070		
9,250.00	7,449.09	7,577.00	7,485.71	108.29	30.03	79.62	-3,621.24	1,032.24	6,532.76	6,434.82	97.93	66.705		
9,300.00	7,479.56	7,615.62	7,524.33	108.51	30.16	77.54	-3,620.95	1,032.38	6,519.57	6,421.28	98.29	66.327		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,350.00	7,507.74	7,652.34	7,561.06	108.68	30.27	76.12	-3,620.63	1,032.54	6,502.89	6,404.27	98.62	65.936		
9,400.00	7,533.41	7,685.64	7,594.35	108.79	30.38	75.32	-3,620.29	1,032.70	6,482.86	6,383.94	98.91	65.540		
9,450.00	7,556.39	7,715.26	7,623.96	108.86	30.47	75.15	-3,619.97	1,032.86	6,459.63	6,360.47	99.16	65.141		
9,500.00	7,576.48	7,724.94	7,633.65	108.88	30.50	75.44	-3,619.88	1,032.91	6,433.44	6,334.16	99.28	64.799		
9,550.00	7,593.55	7,738.46	7,647.16	108.86	30.55	76.42	-3,619.76	1,032.99	6,404.45	6,305.05	99.40	64.428		
9,600.00	7,607.46	7,749.45	7,658.16	108.80	30.58	78.08	-3,619.66	1,033.05	6,372.88	6,273.38	99.50	64.052		
9,650.00	7,618.11	7,757.82	7,666.53	108.71	30.61	80.48	-3,619.60	1,033.10	6,338.94	6,239.38	99.56	63.672		
9,700.00	7,625.41	7,763.49	7,672.19	108.59	30.63	83.68	-3,619.55	1,033.14	6,302.87	6,203.28	99.59	63.288		
9,750.00	7,629.30	7,766.38	7,675.08	108.45	30.64	87.78	-3,619.53	1,033.15	6,264.92	6,165.32	99.60	62.900		
9,781.81	7,630.00	7,766.76	7,675.47	108.35	30.64	90.90	-3,619.53	1,033.16	6,239.92	6,140.32	99.60	62.652		
9,800.00	7,630.00	7,766.65	7,675.36	108.29	30.64	90.90	-3,619.53	1,033.16	6,225.45	6,125.86	99.59	62.509		
9,900.00	7,630.00	7,766.05	7,674.76	107.97	30.64	90.89	-3,619.53	1,033.15	6,146.30	6,046.73	99.57	61.730		
10,000.00	7,630.00	7,765.45	7,674.15	107.67	30.63	90.88	-3,619.54	1,033.15	6,067.76	5,968.21	99.55	60.954		
10,100.00	7,630.00	7,764.84	7,673.54	107.38	30.63	90.87	-3,619.54	1,033.15	5,989.86	5,890.33	99.53	60.180		
10,200.00	7,630.00	7,764.22	7,672.93	107.10	30.63	90.86	-3,619.55	1,033.14	5,912.62	5,813.10	99.52	59.410		
10,300.00	7,630.00	7,763.60	7,672.31	106.84	30.63	90.85	-3,619.55	1,033.14	5,836.08	5,736.56	99.52	58.642		
10,400.00	7,630.00	7,762.97	7,671.68	106.59	30.63	90.84	-3,619.56	1,033.13	5,760.25	5,660.73	99.52	57.878		
10,500.00	7,630.00	7,762.34	7,671.05	106.35	30.62	90.83	-3,619.56	1,033.13	5,685.18	5,585.64	99.54	57.117		
10,600.00	7,630.00	7,761.70	7,670.41	106.13	30.62	90.82	-3,619.57	1,033.13	5,610.88	5,511.32	99.55	56.360		
10,700.00	7,630.00	7,761.06	7,669.76	105.92	30.62	90.81	-3,619.57	1,033.12	5,537.39	5,437.81	99.58	55.607		
10,800.00	7,630.00	7,760.40	7,669.11	105.72	30.62	90.81	-3,619.58	1,033.12	5,464.74	5,365.12	99.62	54.858		
10,900.00	7,630.00	7,759.75	7,668.45	105.54	30.62	90.80	-3,619.58	1,033.11	5,392.96	5,293.30	99.66	54.112		
11,000.00	7,630.00	7,759.08	7,667.79	105.37	30.61	90.78	-3,619.59	1,033.11	5,322.10	5,222.38	99.72	53.372		
11,100.00	7,630.00	7,758.41	7,667.12	105.21	30.61	90.77	-3,619.59	1,033.11	5,252.19	5,152.40	99.78	52.636		
11,200.00	7,630.00	7,757.74	7,666.44	105.06	30.61	90.76	-3,619.60	1,033.10	5,183.26	5,083.40	99.86	51.905		
11,300.00	7,630.00	7,757.05	7,665.76	104.93	30.61	90.75	-3,619.60	1,033.10	5,115.36	5,015.41	99.95	51.179		
11,400.00	7,630.00	7,756.36	7,665.07	104.82	30.61	90.74	-3,619.61	1,033.09	5,048.52	4,948.47	100.05	50.458		
11,500.00	7,630.00	7,755.66	7,664.37	104.72	30.60	90.73	-3,619.61	1,033.09	4,982.80	4,882.63	100.17	49.744		
11,600.00	7,630.00	7,754.96	7,663.67	104.63	30.60	90.72	-3,619.62	1,033.09	4,918.23	4,817.93	100.30	49.035		
11,700.00	7,630.00	7,754.25	7,662.95	104.55	30.60	90.71	-3,619.62	1,033.08	4,854.86	4,754.41	100.44	48.334		
11,800.00	7,630.00	7,753.53	7,662.24	104.50	30.60	90.70	-3,619.63	1,033.08	4,792.74	4,692.13	100.61	47.639		
11,900.00	7,630.00	7,752.81	7,661.51	104.45	30.59	90.69	-3,619.64	1,033.07	4,731.92	4,631.13	100.78	46.951		
12,000.00	7,630.00	7,752.07	7,660.78	104.43	30.59	90.68	-3,619.64	1,033.07	4,672.44	4,571.47	100.98	46.272		
12,100.00	7,630.00	7,751.33	7,660.04	104.42	30.59	90.67	-3,619.65	1,033.06	4,614.37	4,513.18	101.19	45.601		
12,200.00	7,630.00	7,750.59	7,659.29	104.42	30.59	90.66	-3,619.65	1,033.06	4,557.75	4,456.33	101.42	44.939		
12,300.00	7,630.00	7,749.83	7,658.54	104.45	30.58	90.64	-3,619.66	1,033.05	4,502.64	4,400.97	101.67	44.286		
12,400.00	7,630.00	7,749.07	7,657.77	104.49	30.58	90.63	-3,619.67	1,033.05	4,449.10	4,347.16	101.94	43.643		
12,500.00	7,630.00	7,748.30	7,657.00	104.55	30.58	90.62	-3,619.67	1,033.05	4,397.18	4,294.95	102.23	43.012		
12,600.00	7,630.00	7,747.52	7,656.22	104.63	30.58	90.61	-3,619.68	1,033.04	4,346.94	4,244.39	102.54	42.391		
12,700.00	7,630.00	7,746.73	7,655.44	104.73	30.57	90.60	-3,619.69	1,033.04	4,298.44	4,195.56	102.87	41.783		
12,800.00	7,630.00	7,745.94	7,654.64	104.85	30.57	90.59	-3,619.69	1,033.03	4,251.73	4,148.51	103.23	41.188		
12,900.00	7,630.00	7,745.13	7,653.84	104.99	30.57	90.57	-3,619.70	1,033.03	4,206.89	4,103.29	103.60	40.607		
13,000.00	7,630.00	7,744.32	7,653.02	105.15	30.57	90.56	-3,619.71	1,033.02	4,163.96	4,059.97	104.00	40.040		
13,100.00	7,630.00	7,743.50	7,652.20	105.34	30.56	90.55	-3,619.71	1,033.02	4,123.02	4,018.61	104.41	39.488		
13,200.00	7,630.00	7,742.67	7,651.37	105.56	30.56	90.54	-3,619.72	1,033.01	4,084.11	3,979.26	104.85	38.953		
13,300.00	7,630.00	7,741.83	7,650.54	105.80	30.56	90.52	-3,619.73	1,033.01	4,047.30	3,941.99	105.30	38.434		
13,400.00	7,630.00	7,740.98	7,649.69	106.06	30.56	90.51	-3,619.74	1,033.00	4,012.64	3,906.86	105.78	37.934		
13,500.00	7,630.00	7,740.12	7,648.83	106.36	30.55	90.50	-3,619.74	1,033.00	3,980.20	3,873.92	106.27	37.453		
13,600.00	7,630.00	7,739.26	7,647.96	106.68	30.55	90.48	-3,619.75	1,032.99	3,950.02	3,843.23	106.78	36.991		
13,700.00	7,630.00	7,738.38	7,647.09	107.03	30.55	90.47	-3,619.76	1,032.99	3,922.16	3,814.85	107.31	36.550		
13,800.00	7,630.00	7,737.50	7,646.20	107.42	30.54	90.46	-3,619.77	1,032.98	3,896.66	3,788.81	107.85	36.130		
13,900.00	7,630.00	7,736.60	7,645.31	107.83	30.54	90.44	-3,619.77	1,032.98	3,873.58	3,765.18	108.41	35.732		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,735.69	7,644.40	108.28	30.54	90.43	-3,619.78	1,032.97	3,852.96	3,743.99	108.97	35.358		
14,100.00	7,630.00	7,734.78	7,643.48	108.77	30.54	90.42	-3,619.79	1,032.97	3,834.84	3,725.29	109.54	35.007		
14,200.00	7,630.00	7,733.85	7,642.56	109.29	30.53	90.40	-3,619.80	1,032.96	3,819.25	3,709.12	110.12	34.681		
14,300.00	7,630.00	7,732.91	7,641.62	109.84	30.53	90.39	-3,619.81	1,032.96	3,806.22	3,695.51	110.71	34.380		
14,400.00	7,630.00	7,731.97	7,640.67	110.43	30.53	90.37	-3,619.82	1,032.95	3,795.78	3,684.48	111.30	34.104		
14,500.00	7,630.00	7,731.01	7,639.71	111.06	30.52	90.36	-3,619.82	1,032.94	3,787.96	3,676.07	111.89	33.855		
14,600.00	7,630.00	7,730.04	7,638.74	111.72	30.52	90.34	-3,619.83	1,032.94	3,782.76	3,670.29	112.47	33.633		
14,700.00	7,630.00	7,729.06	7,637.76	112.42	30.52	90.33	-3,619.84	1,032.93	3,780.20	3,667.15	113.06	33.437		
14,746.75	7,630.00	7,728.59	7,637.30	112.76	30.52	90.32	-3,619.85	1,032.93	3,779.91	3,666.59	113.33	33.354 CC, ES		
14,800.00	7,630.00	7,728.06	7,636.77	113.16	30.51	90.31	-3,619.85	1,032.93	3,780.29	3,666.66	113.63	33.268		
14,900.00	7,630.00	7,727.06	7,635.77	113.94	30.51	90.30	-3,619.86	1,032.92	3,783.02	3,668.82	114.20	33.127		
15,000.00	7,630.00	7,726.04	7,634.75	114.75	30.51	90.28	-3,619.87	1,032.92	3,788.39	3,673.63	114.75	33.014		
15,100.00	7,630.00	7,725.01	7,633.72	115.60	30.50	90.27	-3,619.88	1,032.91	3,796.38	3,681.09	115.29	32.928		
15,200.00	7,630.00	7,723.97	7,632.68	116.48	30.50	90.25	-3,619.89	1,032.91	3,806.99	3,691.17	115.82	32.870		
15,300.00	7,630.00	7,722.92	7,631.63	117.40	30.50	90.24	-3,619.90	1,032.90	3,820.18	3,703.85	116.33	32.839		
15,400.00	7,630.00	7,721.85	7,630.56	118.35	30.49	90.22	-3,619.91	1,032.89	3,835.94	3,719.11	116.82	32.835 SF		
15,500.00	7,630.00	7,720.77	7,629.48	119.34	30.49	90.20	-3,619.92	1,032.89	3,854.23	3,736.93	117.30	32.858		
15,600.00	7,630.00	7,719.68	7,628.39	120.35	30.49	90.19	-3,619.93	1,032.88	3,875.01	3,757.26	117.75	32.908		
15,700.00	7,630.00	7,718.57	7,627.28	121.40	30.48	90.17	-3,619.94	1,032.87	3,898.25	3,780.06	118.18	32.985		
15,800.00	7,630.00	7,717.45	7,626.16	122.48	30.48	90.15	-3,619.96	1,032.87	3,923.90	3,805.30	118.59	33.087		
15,900.00	7,630.00	7,716.32	7,625.03	123.58	30.48	90.14	-3,619.97	1,032.86	3,951.91	3,832.93	118.98	33.215		
16,000.00	7,630.00	7,715.17	7,623.88	124.71	30.47	90.12	-3,619.98	1,032.86	3,982.24	3,862.89	119.35	33.367		
16,100.00	7,630.00	7,714.01	7,622.71	125.87	30.47	90.10	-3,619.99	1,032.85	4,014.83	3,895.14	119.69	33.544		
16,200.00	7,630.00	7,712.83	7,621.54	127.05	30.47	90.08	-3,620.00	1,032.84	4,049.63	3,929.62	120.01	33.745		
16,300.00	7,630.00	7,711.63	7,620.34	128.26	30.46	90.07	-3,620.01	1,032.84	4,086.57	3,966.27	120.30	33.969		
16,400.00	7,630.00	7,710.43	7,619.13	129.48	30.46	90.05	-3,620.03	1,032.83	4,125.62	4,005.04	120.58	34.215		
16,500.00	7,630.00	7,709.20	7,617.91	130.73	30.45	90.03	-3,620.04	1,032.82	4,166.69	4,045.86	120.83	34.484		
16,600.00	7,630.00	7,707.96	7,616.67	132.00	30.45	90.01	-3,620.05	1,032.82	4,209.74	4,088.68	121.06	34.774		
16,700.00	7,630.00	7,706.70	7,615.41	133.29	30.45	89.99	-3,620.07	1,032.81	4,254.71	4,133.44	121.27	35.084		
16,800.00	7,630.00	7,705.43	7,614.14	134.59	30.44	89.97	-3,620.08	1,032.80	4,301.53	4,180.07	121.46	35.415		
16,900.00	7,630.00	7,704.14	7,612.85	135.91	30.44	89.95	-3,620.09	1,032.80	4,350.14	4,228.51	121.63	35.764		
17,000.00	7,630.00	7,702.83	7,611.54	137.25	30.43	89.93	-3,620.11	1,032.79	4,400.49	4,278.71	121.79	36.133		
17,100.00	7,630.00	7,701.50	7,610.21	138.61	30.43	89.91	-3,620.12	1,032.78	4,452.52	4,330.60	121.92	36.520		
17,200.00	7,630.00	7,700.16	7,608.87	139.97	30.43	89.89	-3,620.14	1,032.78	4,506.17	4,384.13	122.04	36.923		
17,300.00	7,630.00	7,698.84	7,607.55	141.36	30.42	89.87	-3,620.15	1,032.77	4,561.37	4,439.23	122.14	37.344		
17,400.00	7,630.00	7,697.78	7,606.49	142.75	30.42	89.86	-3,620.16	1,032.76	4,618.09	4,495.85	122.24	37.780		
17,500.00	7,630.00	7,696.73	7,605.44	144.16	30.41	89.84	-3,620.17	1,032.76	4,676.25	4,553.94	122.31	38.232		
17,600.00	7,630.00	7,695.69	7,604.40	145.58	30.41	89.82	-3,620.19	1,032.75	4,735.81	4,613.43	122.38	38.699		
17,700.00	7,630.00	7,694.65	7,603.36	147.01	30.41	89.81	-3,620.20	1,032.75	4,796.71	4,674.29	122.43	39.180		
17,800.00	7,630.00	7,693.62	7,602.33	148.45	30.40	89.79	-3,620.21	1,032.74	4,858.91	4,736.44	122.47	39.675		
17,900.00	7,630.00	7,692.60	7,601.31	149.91	30.40	89.78	-3,620.22	1,032.74	4,922.36	4,799.86	122.50	40.183		
18,000.00	7,630.00	7,691.58	7,600.29	151.37	30.40	89.76	-3,620.23	1,032.73	4,987.00	4,864.48	122.52	40.703		
18,100.00	7,630.00	7,690.57	7,599.28	152.84	30.39	89.75	-3,620.24	1,032.73	5,052.80	4,930.27	122.53	41.236		
18,200.00	7,630.00	7,689.57	7,598.28	154.32	30.39	89.73	-3,620.25	1,032.72	5,119.70	4,997.17	122.54	41.781		
18,300.00	7,630.00	7,688.58	7,597.28	155.81	30.39	89.72	-3,620.26	1,032.72	5,187.67	5,065.14	122.53	42.337		
18,400.00	7,630.00	7,687.59	7,596.30	157.31	30.39	89.70	-3,620.27	1,032.71	5,256.66	5,134.14	122.52	42.904		
18,500.00	7,630.00	7,686.60	7,595.31	158.81	30.38	89.69	-3,620.28	1,032.71	5,326.64	5,204.13	122.50	43.481		
18,600.00	7,630.00	7,685.63	7,594.34	160.32	30.38	89.67	-3,620.29	1,032.70	5,397.56	5,275.07	122.48	44.068		
18,700.00	7,630.00	7,684.66	7,593.37	161.84	30.38	89.66	-3,620.30	1,032.70	5,469.38	5,346.93	122.45	44.665		
18,800.00	7,630.00	7,683.69	7,592.40	163.37	30.37	89.64	-3,620.31	1,032.69	5,542.09	5,419.67	122.42	45.271		
18,900.00	7,630.00	7,682.73	7,591.44	164.90	30.37	89.63	-3,620.32	1,032.69	5,615.63	5,493.24	122.38	45.885		
19,000.00	7,630.00	7,681.78	7,590.49	166.43	30.37	89.61	-3,620.33	1,032.68	5,689.98	5,567.63	122.34	46.508		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
19,100.00	7,630.00	7,680.84	7,589.55	167.98	30.36	89.60	-3,620.34	1,032.68	5,765.10	5,642.80	122.30	47.139	
19,200.00	7,630.00	7,679.90	7,588.61	169.53	30.36	89.58	-3,620.35	1,032.67	5,840.97	5,718.72	122.25	47.778	
19,300.00	7,630.00	7,678.96	7,587.67	171.08	30.36	89.57	-3,620.36	1,032.67	5,917.56	5,795.36	122.20	48.424	
19,400.00	7,630.00	7,678.03	7,586.74	172.64	30.35	89.56	-3,620.37	1,032.66	5,994.83	5,872.68	122.15	49.077	
19,500.00	7,630.00	7,677.11	7,585.82	174.21	30.35	89.54	-3,620.38	1,032.66	6,072.77	5,950.68	122.10	49.737	
19,518.56	7,630.00	7,676.94	7,585.65	174.50	30.35	89.54	-3,620.38	1,032.66	6,087.31	5,965.23	122.09	49.861	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	175.79	-4,029.02	296.29	4,039.93				
100.00	100.00	99.97	99.97	0.13	0.17	175.79	-4,028.85	296.52	4,039.77	4,039.47	0.30	N/A	
200.00	200.00	251.15	251.12	0.49	0.71	175.76	-4,027.21	298.61	4,038.79	4,037.59	1.21	3,342.148	
300.00	300.00	305.00	304.94	0.85	0.91	175.74	-4,026.12	299.99	4,037.33	4,035.57	1.76	2,294.976	
318.94	318.94	305.00	304.94	0.92	0.91	175.74	-4,026.12	299.99	4,037.28	4,035.45	1.83	2,209.454	
400.00	400.00	305.00	304.94	1.21	0.91	175.74	-4,026.12	299.99	4,038.09	4,035.97	2.12	1,904.120	
423.44	423.44	385.83	385.71	1.29	1.20	108.97	-4,025.30	302.96	4,036.79	4,034.29	2.50	1,617.496	
500.00	499.98	418.78	418.62	1.56	1.32	108.93	-4,025.55	304.54	4,038.18	4,035.30	2.89	1,398.411	
600.00	599.84	461.77	461.54	1.92	1.48	108.85	-4,026.39	306.94	4,042.26	4,038.85	3.40	1,188.341	
700.00	699.45	504.68	504.33	2.29	1.64	108.74	-4,027.81	309.69	4,048.86	4,044.93	3.92	1,031.714	
800.00	798.70	547.42	546.91	2.67	1.80	108.59	-4,029.80	312.80	4,057.98	4,053.52	4.46	910.017	
900.00	897.47	639.00	637.94	3.07	2.13	108.47	-4,035.97	320.67	4,070.29	4,065.10	5.19	784.716	
1,000.00	995.62	639.00	637.94	3.50	2.13	108.21	-4,035.97	320.67	4,083.72	4,078.11	5.61	728.395	
1,100.00	1,093.06	677.49	676.10	3.96	2.29	107.96	-4,039.32	324.39	4,100.23	4,094.03	6.20	661.453	
1,200.00	1,189.64	731.00	729.08	4.46	2.50	107.72	-4,044.63	329.76	4,119.10	4,112.23	6.88	598.862	
1,300.00	1,285.27	759.33	757.07	5.00	2.61	107.38	-4,047.81	332.76	4,140.34	4,132.84	7.50	552.092	
1,400.00	1,379.82	793.37	790.62	5.60	2.76	107.01	-4,052.08	336.64	4,164.11	4,155.92	8.18	508.968	
1,500.00	1,473.17	825.00	821.70	6.25	2.89	106.60	-4,056.47	340.51	4,190.35	4,181.45	8.89	471.117	
1,600.00	1,565.21	862.85	858.78	6.95	3.06	106.16	-4,062.23	345.45	4,218.98	4,209.29	9.68	435.657	
1,700.00	1,655.84	920.00	914.53	7.72	3.32	105.77	-4,071.90	353.47	4,250.07	4,239.47	10.61	400.734	
1,800.00	1,744.94	920.00	914.53	8.55	3.32	105.10	-4,071.90	353.47	4,283.18	4,271.86	11.32	378.455	
1,900.00	1,832.39	964.91	958.13	9.45	3.54	104.58	-4,080.35	360.12	4,318.57	4,306.28	12.29	351.459	
2,000.00	1,918.11	1,014.00	1,005.60	10.41	3.78	104.06	-4,090.47	367.53	4,356.27	4,342.94	13.33	326.858	
2,100.00	2,001.97	1,033.05	1,023.96	11.45	3.88	103.33	-4,094.61	370.44	4,395.88	4,381.61	14.27	308.005	
2,200.00	2,083.88	1,074.55	1,063.89	12.56	4.10	102.70	-4,103.90	376.88	4,437.46	4,422.08	15.38	288.536	
2,300.00	2,163.74	1,121.99	1,109.42	13.74	4.36	102.08	-4,114.95	384.36	4,480.82	4,464.25	16.57	270.446	
2,400.00	2,241.45	2,400.00	1,225.78	14.99	11.47	101.97	-4,142.83	402.24	4,525.10	4,501.27	23.83	189.907	
2,421.22	2,257.65	2,421.22	1,241.40	15.26	11.59	101.88	-4,146.50	404.61	4,534.56	4,510.39	24.17	187.607	
2,500.00	2,317.63	1,323.72	1,303.56	16.29	5.47	102.35	-4,160.84	414.28	4,569.69	4,550.01	19.69	232.136	
2,600.00	2,393.75	1,369.00	1,347.05	17.62	5.72	102.68	-4,171.21	421.47	4,615.22	4,594.26	20.97	220.128	
2,700.00	2,469.88	1,490.26	1,463.35	18.95	6.43	103.51	-4,198.71	441.99	4,660.96	4,638.24	22.71	205.208	
2,800.00	2,546.01	1,563.15	1,533.25	20.30	6.86	104.00	-4,215.01	454.68	4,706.87	4,682.69	24.18	194.677	
2,900.00	2,622.13	1,624.26	1,591.78	21.65	7.22	104.40	-4,228.83	465.50	4,753.36	4,727.78	25.57	185.883	
3,000.00	2,698.26	1,691.11	1,655.73	23.01	7.62	104.83	-4,244.16	477.55	4,800.45	4,773.45	27.00	177.790	
3,100.00	2,774.38	1,802.08	1,761.91	24.37	8.30	105.53	-4,269.56	497.42	4,847.96	4,819.24	28.72	168.787	
3,200.00	2,850.51	1,887.25	1,843.46	25.74	8.81	106.06	-4,288.35	513.22	4,895.03	4,864.76	30.28	161.684	
3,300.00	2,926.64	1,945.21	1,899.04	27.11	9.16	106.42	-4,301.32	523.31	4,942.79	4,911.15	31.64	156.228	
3,400.00	3,002.76	2,047.55	1,997.34	28.49	9.77	107.05	-4,324.06	540.45	4,990.80	4,957.51	33.29	149.917	
3,500.00	3,078.89	2,136.86	2,083.17	29.87	10.30	107.59	-4,343.60	555.57	5,038.88	5,004.03	34.85	144.575	
3,600.00	3,155.02	2,168.49	2,113.48	31.25	10.50	107.78	-4,350.71	561.10	5,087.61	5,051.59	36.02	141.254	
3,700.00	3,231.14	2,219.00	2,161.76	32.63	10.81	108.07	-4,362.47	570.20	5,137.26	5,099.96	37.30	137.716	
3,800.00	3,307.27	2,283.19	2,223.04	34.01	11.20	108.44	-4,377.66	581.75	5,187.55	5,148.86	38.68	134.106	
3,900.00	3,383.39	2,380.50	2,316.13	35.40	11.81	108.99	-4,400.35	598.79	5,237.92	5,197.62	40.30	129.975	
4,000.00	3,459.52	2,516.79	2,446.70	36.79	12.64	109.75	-4,431.01	622.93	5,287.86	5,245.65	42.20	125.294	
4,100.00	3,535.65	2,560.32	2,488.41	38.18	12.91	109.98	-4,440.77	630.75	5,338.02	5,294.60	43.42	122.951	
4,200.00	3,611.77	2,629.86	2,554.82	39.57	13.34	110.35	-4,456.83	643.63	5,388.90	5,344.08	44.82	120.237	
4,300.00	3,687.90	2,770.52	2,689.54	40.96	14.21	111.09	-4,488.16	669.23	5,439.42	5,392.65	46.77	116.314	
4,400.00	3,764.02	2,851.78	2,767.53	42.35	14.70	111.51	-4,505.75	683.77	5,489.75	5,441.51	48.25	113.788	
4,500.00	3,840.15	2,911.06	2,824.47	43.74	15.06	111.81	-4,518.60	694.13	5,540.44	5,490.89	49.55	111.817	
4,600.00	3,916.28	2,971.00	2,881.96	45.13	15.43	112.12	-4,531.92	704.64	5,591.74	5,540.89	50.85	109.966	
4,700.00	3,992.40	3,044.30	2,952.23	46.53	15.87	112.48	-4,548.35	717.47	5,643.44	5,591.19	52.25	108.010	
4,800.00	4,068.53	3,113.35	3,018.44	47.92	16.30	112.82	-4,563.77	729.53	5,695.34	5,641.73	53.61	106.237	

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,144.66	3,178.59	3,080.92	49.32	16.70	113.14	-4,578.55	741.11	5,747.65	5,692.71	54.94	104.626		
5,000.00	4,220.78	3,252.70	3,151.87	50.71	17.16	113.49	-4,595.44	754.29	5,800.26	5,743.93	56.33	102.972		
5,100.00	4,296.91	3,387.08	3,280.67	52.11	17.98	114.12	-4,625.31	778.31	5,852.57	5,794.36	58.21	100.535		
5,200.00	4,373.03	3,461.74	3,352.18	53.51	18.45	114.46	-4,641.73	792.11	5,904.87	5,845.26	59.61	99.060		
5,300.00	4,449.16	3,526.77	3,414.43	54.90	18.85	114.75	-4,656.15	804.17	5,957.48	5,896.56	60.92	97.791		
5,400.00	4,525.29	3,578.75	3,464.19	56.30	19.17	114.98	-4,667.80	813.69	6,010.51	5,948.40	62.11	96.768		
5,500.00	4,601.41	3,636.00	3,518.96	57.70	19.53	115.23	-4,680.91	824.00	6,064.13	6,000.78	63.34	95.738		
5,600.00	4,677.54	3,790.86	3,667.38	59.10	20.48	115.90	-4,715.56	851.36	6,117.72	6,052.33	65.39	93.557		
5,700.00	4,753.66	3,861.89	3,735.69	60.49	20.91	116.21	-4,730.71	863.62	6,170.66	6,103.94	66.72	92.488		
5,800.00	4,829.79	3,919.00	3,790.53	61.89	21.25	116.45	-4,743.25	873.47	6,224.21	6,156.29	67.92	91.637		
5,900.00	4,905.92	3,919.00	3,790.53	63.29	21.25	116.45	-4,743.25	873.47	6,278.44	6,209.81	68.62	91.490		
6,000.00	4,982.04	3,974.26	3,843.52	64.69	21.59	116.69	-4,755.87	882.77	6,333.21	6,263.42	69.79	90.745		
6,100.00	5,058.17	4,014.00	3,881.60	66.09	21.84	116.86	-4,765.27	889.17	6,388.79	6,317.98	70.81	90.222		
6,200.00	5,134.30	5,213.02	5,055.74	67.49	27.45	122.25	-4,931.03	1,021.67	6,443.43	6,364.00	79.43	81.121		
6,300.00	5,210.42	5,324.22	5,166.93	68.89	27.73	122.83	-4,932.32	1,022.81	6,485.97	6,405.32	80.65	80.424		
6,400.00	5,286.55	5,462.47	5,305.17	70.29	28.08	123.55	-4,932.66	1,024.41	6,528.09	6,446.15	81.94	79.671		
6,500.00	5,362.67	5,542.62	5,385.32	71.69	28.27	123.96	-4,932.43	1,025.10	6,570.29	6,487.27	83.02	79.139		
6,600.00	5,438.80	5,616.18	5,458.87	73.09	28.45	124.34	-4,932.18	1,025.61	6,612.86	6,528.78	84.07	78.658		
6,700.00	5,514.93	5,704.30	5,547.00	74.49	28.66	124.78	-4,931.82	1,026.18	6,655.72	6,570.57	85.16	78.160		
6,800.00	5,591.05	5,781.82	5,624.52	75.89	28.85	125.17	-4,931.43	1,026.73	6,698.85	6,612.66	86.20	77.716		
6,900.00	5,667.18	5,863.53	5,706.21	77.29	29.05	125.58	-4,930.99	1,027.28	6,742.30	6,655.06	87.24	77.285		
7,000.00	5,743.30	5,950.84	5,793.53	78.69	29.26	126.01	-4,930.35	1,027.73	6,785.99	6,697.70	88.29	76.864		
7,100.00	5,819.43	6,039.64	5,882.32	80.09	29.47	126.44	-4,929.51	1,028.11	6,829.86	6,740.54	89.32	76.461		
7,200.00	5,895.56	6,127.33	5,970.00	81.49	29.67	126.87	-4,928.51	1,028.47	6,873.93	6,783.58	90.35	76.083		
7,300.00	5,971.68	6,211.20	6,053.87	82.90	29.87	127.27	-4,927.42	1,028.79	6,918.19	6,826.84	91.35	75.732		
7,400.00	6,047.81	6,292.45	6,135.10	84.30	30.06	127.66	-4,926.33	1,029.11	6,962.74	6,870.41	92.34	75.407		
7,500.00	6,123.94	6,409.66	6,252.30	85.70	30.34	128.21	-4,924.33	1,029.72	7,007.29	6,913.87	93.43	75.004		
7,600.00	6,200.06	6,491.38	6,334.00	87.10	30.53	128.59	-4,922.62	1,030.15	7,051.86	6,957.47	94.40	74.706		
7,700.00	6,276.19	6,544.44	6,387.05	88.50	30.66	128.83	-4,921.70	1,030.60	7,096.90	7,001.63	95.27	74.493		
7,800.00	6,352.31	6,603.97	6,446.57	89.90	30.82	129.10	-4,920.95	1,031.30	7,142.45	7,046.29	96.16	74.276		
7,900.00	6,428.44	6,668.32	6,510.91	91.31	30.98	129.39	-4,920.30	1,032.11	7,188.43	7,091.37	97.06	74.060		
8,000.00	6,504.57	6,739.50	6,582.08	92.71	31.17	129.70	-4,919.70	1,033.05	7,234.78	7,136.80	97.98	73.837		
8,100.00	6,580.69	6,837.11	6,679.68	94.11	31.43	130.13	-4,918.87	1,034.49	7,281.34	7,182.34	99.00	73.553		
8,200.00	6,656.82	6,957.39	6,799.94	95.51	31.75	130.65	-4,917.35	1,036.50	7,327.79	7,227.71	100.08	73.218		
8,300.00	6,732.95	6,995.71	6,838.25	96.91	31.85	130.81	-4,916.79	1,036.90	7,374.53	7,273.68	100.85	73.121		
8,400.00	6,809.07	7,053.55	6,896.08	98.32	32.00	131.06	-4,915.97	1,037.05	7,421.81	7,320.13	101.68	72.992		
8,500.00	6,885.20	7,169.01	7,011.52	99.72	32.28	131.56	-4,913.87	1,037.05	7,469.18	7,366.49	102.69	72.736		
8,600.00	6,961.32	7,275.48	7,117.96	101.12	32.54	132.02	-4,911.29	1,036.75	7,516.47	7,412.82	103.65	72.517		
8,700.00	7,037.45	7,354.89	7,197.33	102.52	32.73	132.36	-4,908.95	1,036.23	7,563.79	7,459.28	104.51	72.373		
8,732.15	7,061.92	7,374.14	7,216.58	102.97	32.78	132.44	-4,908.39	1,036.09	7,579.08	7,474.31	104.77	72.343		
8,750.00	7,075.57	7,384.86	7,227.29	103.22	32.80	130.09	-4,908.09	1,036.01	7,587.36	7,482.45	104.91	72.324		
8,800.00	7,114.27	7,414.00	7,256.42	103.91	32.87	123.35	-4,907.29	1,035.79	7,608.20	7,502.88	105.32	72.239		
8,850.00	7,153.47	7,434.78	7,277.19	104.58	32.92	116.47	-4,906.77	1,035.65	7,625.48	7,519.75	105.73	72.123		
8,900.00	7,192.85	7,454.86	7,297.27	105.21	32.97	109.64	-4,906.34	1,035.54	7,639.12	7,532.97	106.15	71.965		
8,950.00	7,232.12	7,474.90	7,317.30	105.80	33.02	103.04	-4,905.98	1,035.46	7,649.04	7,542.46	106.58	71.767		
9,000.00	7,270.99	7,508.00	7,350.40	106.35	33.11	96.92	-4,905.54	1,035.39	7,655.20	7,548.14	107.06	71.501		
9,050.00	7,309.16	7,528.48	7,370.88	106.85	33.16	91.31	-4,905.32	1,035.38	7,657.49	7,549.98	107.50	71.230		
9,100.00	7,346.32	7,590.43	7,432.82	107.30	33.32	86.56	-4,904.57	1,035.50	7,655.81	7,547.72	108.09	70.827		
9,150.00	7,382.22	7,640.69	7,483.07	107.69	33.46	82.48	-4,903.91	1,035.77	7,650.15	7,541.52	108.63	70.425		
9,200.00	7,416.56	7,686.75	7,529.14	108.02	33.58	79.10	-4,903.31	1,036.20	7,640.61	7,531.48	109.14	70.009		
9,250.00	7,449.09	7,779.58	7,621.94	108.29	33.84	76.71	-4,901.88	1,037.51	7,627.20	7,517.39	109.81	69.457		
9,300.00	7,479.56	7,826.59	7,668.93	108.51	33.97	74.78	-4,900.96	1,038.35	7,609.98	7,499.69	110.29	69.000		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,507.74	7,864.25	7,706.58	108.68	34.07	73.48	-4,900.18	1,039.08	7,589.24	7,478.53	110.71	68.552		
9,400.00	7,533.41	7,898.36	7,740.68	108.79	34.17	72.83	-4,899.45	1,039.77	7,565.15	7,454.06	111.09	68.101		
9,450.00	7,556.39	7,885.00	7,727.32	108.86	34.13	72.49	-4,899.74	1,039.49	7,537.99	7,426.73	111.26	67.753		
9,500.00	7,576.48	7,910.16	7,752.47	108.88	34.20	73.14	-4,899.22	1,039.96	7,507.85	7,396.30	111.55	67.304		
9,550.00	7,593.55	7,918.13	7,760.43	108.86	34.22	74.37	-4,899.07	1,040.09	7,475.03	7,363.28	111.75	66.889		
9,600.00	7,607.46	7,924.53	7,766.84	108.80	34.24	76.40	-4,898.95	1,040.18	7,439.74	7,327.81	111.92	66.471		
9,650.00	7,618.11	7,929.34	7,771.64	108.71	34.25	79.33	-4,898.86	1,040.25	7,402.21	7,290.14	112.07	66.050		
9,700.00	7,625.41	7,932.50	7,774.80	108.59	34.26	83.29	-4,898.80	1,040.29	7,362.70	7,250.51	112.19	65.628		
9,750.00	7,629.30	7,933.98	7,776.29	108.45	34.26	88.45	-4,898.77	1,040.31	7,321.50	7,209.21	112.28	65.205		
9,781.81	7,630.00	7,934.05	7,776.35	108.35	34.26	92.44	-4,898.77	1,040.31	7,294.53	7,182.20	112.34	64.935		
9,800.00	7,630.00	7,933.89	7,776.19	108.29	34.26	92.43	-4,898.78	1,040.31	7,278.96	7,166.60	112.36	64.781		
9,900.00	7,630.00	7,933.01	7,775.31	107.97	34.26	92.42	-4,898.79	1,040.30	7,193.62	7,081.11	112.51	63.937		
10,000.00	7,630.00	7,932.12	7,774.43	107.67	34.26	92.41	-4,898.81	1,040.29	7,108.66	6,995.99	112.67	63.094		
10,100.00	7,630.00	7,931.23	7,773.54	107.38	34.26	92.39	-4,898.82	1,040.27	7,024.10	6,911.26	112.83	62.253		
10,200.00	7,630.00	7,930.33	7,772.64	107.10	34.25	92.38	-4,898.84	1,040.26	6,939.94	6,826.94	113.00	61.415		
10,300.00	7,630.00	7,929.42	7,771.73	106.84	34.25	92.37	-4,898.86	1,040.25	6,856.21	6,743.03	113.18	60.579		
10,400.00	7,630.00	7,928.51	7,770.82	106.59	34.25	92.35	-4,898.87	1,040.24	6,772.92	6,659.56	113.36	59.745		
10,500.00	7,630.00	7,927.59	7,769.90	106.35	34.25	92.34	-4,898.89	1,040.22	6,690.09	6,576.54	113.56	58.914		
10,600.00	7,630.00	7,926.66	7,768.97	106.13	34.24	92.32	-4,898.91	1,040.21	6,607.74	6,493.98	113.76	58.086		
10,700.00	7,630.00	7,925.73	7,768.04	105.92	34.24	92.31	-4,898.92	1,040.20	6,525.87	6,411.91	113.97	57.260		
10,800.00	7,630.00	7,924.79	7,767.09	105.72	34.24	92.30	-4,898.94	1,040.19	6,444.52	6,330.33	114.19	56.438		
10,900.00	7,630.00	7,923.84	7,766.15	105.54	34.24	92.28	-4,898.96	1,040.17	6,363.70	6,249.29	114.42	55.619		
11,000.00	7,630.00	7,922.88	7,765.19	105.37	34.23	92.27	-4,898.98	1,040.16	6,283.43	6,168.78	114.65	54.803		
11,100.00	7,630.00	7,921.92	7,764.23	105.21	34.23	92.25	-4,899.00	1,040.14	6,203.74	6,088.84	114.90	53.991		
11,200.00	7,630.00	7,920.95	7,763.26	105.06	34.23	92.24	-4,899.01	1,040.13	6,124.64	6,009.48	115.16	53.184		
11,300.00	7,630.00	7,919.97	7,762.28	104.93	34.23	92.22	-4,899.03	1,040.11	6,046.16	5,930.73	115.43	52.380		
11,400.00	7,630.00	7,918.98	7,761.29	104.82	34.22	92.21	-4,899.05	1,040.10	5,968.32	5,852.61	115.71	51.581		
11,500.00	7,630.00	7,917.99	7,760.30	104.72	34.22	92.19	-4,899.07	1,040.08	5,891.15	5,775.15	116.00	50.786		
11,600.00	7,630.00	7,916.99	7,759.29	104.63	34.22	92.18	-4,899.09	1,040.07	5,814.68	5,698.37	116.30	49.997		
11,700.00	7,630.00	7,915.97	7,758.28	104.55	34.21	92.16	-4,899.11	1,040.05	5,738.93	5,622.31	116.62	49.212		
11,800.00	7,630.00	7,914.96	7,757.27	104.50	34.21	92.15	-4,899.13	1,040.04	5,663.93	5,546.99	116.94	48.434		
11,900.00	7,630.00	7,913.93	7,756.24	104.45	34.21	92.13	-4,899.15	1,040.02	5,589.71	5,472.43	117.28	47.661		
12,000.00	7,630.00	7,912.89	7,755.20	104.43	34.21	92.12	-4,899.17	1,040.00	5,516.31	5,398.68	117.63	46.895		
12,100.00	7,630.00	7,911.85	7,754.16	104.42	34.20	92.10	-4,899.19	1,039.99	5,443.75	5,325.76	118.00	46.135		
12,200.00	7,630.00	7,910.80	7,753.11	104.42	34.20	92.08	-4,899.21	1,039.97	5,372.08	5,253.71	118.37	45.383		
12,300.00	7,630.00	7,909.74	7,752.05	104.45	34.20	92.07	-4,899.23	1,039.95	5,301.32	5,182.56	118.76	44.638		
12,400.00	7,630.00	7,908.67	7,750.98	104.49	34.19	92.05	-4,899.25	1,039.93	5,231.52	5,112.35	119.17	43.900		
12,500.00	7,630.00	7,907.59	7,749.90	104.55	34.19	92.03	-4,899.27	1,039.92	5,162.71	5,043.12	119.59	43.172		
12,600.00	7,630.00	7,906.50	7,748.82	104.63	34.19	92.02	-4,899.29	1,039.90	5,094.93	4,974.92	120.02	42.452		
12,700.00	7,630.00	7,905.41	7,747.72	104.73	34.19	92.00	-4,899.32	1,039.88	5,028.23	4,907.77	120.46	41.741		
12,800.00	7,630.00	7,904.30	7,746.61	104.85	34.18	91.98	-4,899.34	1,039.86	4,962.65	4,841.73	120.92	41.040		
12,900.00	7,630.00	7,903.19	7,745.50	104.99	34.18	91.97	-4,899.36	1,039.84	4,898.23	4,776.83	121.39	40.350		
13,000.00	7,630.00	7,902.06	7,744.38	105.15	34.18	91.95	-4,899.38	1,039.82	4,835.02	4,713.14	121.88	39.670		
13,100.00	7,630.00	7,900.93	7,743.24	105.34	34.17	91.93	-4,899.41	1,039.80	4,773.06	4,650.68	122.38	39.002		
13,200.00	7,630.00	7,885.00	7,727.32	105.56	34.13	91.69	-4,899.74	1,039.49	4,712.46	4,589.67	122.79	38.378		
13,300.00	7,630.00	7,885.00	7,727.32	105.80	34.13	91.69	-4,899.74	1,039.49	4,653.16	4,529.84	123.32	37.732		
13,400.00	7,630.00	7,885.00	7,727.32	106.06	34.13	91.69	-4,899.74	1,039.49	4,595.28	4,471.42	123.86	37.100		
13,500.00	7,630.00	7,885.00	7,727.32	106.36	34.13	91.69	-4,899.74	1,039.49	4,538.87	4,414.45	124.42	36.481		
13,600.00	7,630.00	7,885.00	7,727.32	106.68	34.13	91.69	-4,899.74	1,039.49	4,483.97	4,358.99	124.98	35.877		
13,700.00	7,630.00	7,903.65	7,745.96	107.03	34.18	91.98	-4,899.33	1,039.88	4,430.62	4,304.92	125.69	35.249		
13,800.00	7,630.00	7,901.02	7,743.33	107.42	34.17	91.94	-4,899.39	1,039.82	4,378.94	4,252.68	126.26	34.682		
13,900.00	7,630.00	7,898.40	7,740.71	107.83	34.17	91.90	-4,899.45	1,039.77	4,328.96	4,202.12	126.83	34.132		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,630.00	7,895.80	7,738.11	108.28	34.16	91.86	-4,899.51	1,039.72	4,280.72	4,153.31	127.41	33.598		
14,100.00	7,630.00	7,893.21	7,735.53	108.77	34.15	91.82	-4,899.56	1,039.66	4,234.30	4,106.31	127.99	33.083		
14,200.00	7,630.00	7,890.64	7,732.95	109.29	34.15	91.78	-4,899.62	1,039.61	4,189.75	4,061.18	128.58	32.586		
14,300.00	7,630.00	7,888.07	7,730.39	109.84	34.14	91.74	-4,899.67	1,039.56	4,147.13	4,017.97	129.16	32.109		
14,400.00	7,630.00	7,885.53	7,727.85	110.43	34.13	91.70	-4,899.73	1,039.50	4,106.51	3,976.76	129.74	31.651		
14,500.00	7,630.00	7,883.00	7,725.32	111.06	34.12	91.66	-4,899.78	1,039.45	4,067.93	3,937.61	130.32	31.214		
14,600.00	7,630.00	7,880.48	7,722.80	111.72	34.12	91.62	-4,899.84	1,039.40	4,031.47	3,900.57	130.90	30.799		
14,700.00	7,630.00	7,877.97	7,720.29	112.42	34.11	91.59	-4,899.89	1,039.35	3,997.17	3,865.71	131.47	30.405		
14,800.00	7,630.00	7,875.48	7,717.80	113.16	34.10	91.55	-4,899.94	1,039.30	3,965.10	3,833.08	132.02	30.034		
14,900.00	7,630.00	7,873.00	7,715.32	113.94	34.10	91.51	-4,900.00	1,039.25	3,935.31	3,802.74	132.57	29.685		
15,000.00	7,630.00	7,870.53	7,712.86	114.75	34.09	91.47	-4,900.05	1,039.20	3,907.85	3,774.75	133.10	29.361		
15,100.00	7,630.00	7,868.08	7,710.41	115.60	34.08	91.43	-4,900.10	1,039.15	3,882.77	3,749.16	133.61	29.061		
15,200.00	7,630.00	7,865.64	7,707.97	116.48	34.08	91.40	-4,900.15	1,039.10	3,860.12	3,726.01	134.10	28.785		
15,300.00	7,630.00	7,863.21	7,705.54	117.40	34.07	91.36	-4,900.20	1,039.06	3,839.93	3,705.36	134.57	28.534		
15,400.00	7,630.00	7,860.80	7,703.13	118.35	34.06	91.32	-4,900.25	1,039.01	3,822.26	3,687.24	135.02	28.309		
15,500.00	7,630.00	7,858.39	7,700.73	119.34	34.06	91.29	-4,900.31	1,038.96	3,807.13	3,671.69	135.44	28.109		
15,600.00	7,630.00	7,856.00	7,698.34	120.35	34.05	91.25	-4,900.36	1,038.92	3,794.58	3,658.74	135.83	27.936		
15,700.00	7,630.00	7,853.63	7,695.96	121.40	34.04	91.22	-4,900.40	1,038.87	3,784.62	3,648.43	136.19	27.789		
15,800.00	7,630.00	7,851.26	7,693.60	122.48	34.04	91.18	-4,900.45	1,038.82	3,777.29	3,640.76	136.52	27.668		
15,900.00	7,630.00	7,848.91	7,691.24	123.58	34.03	91.14	-4,900.50	1,038.78	3,772.59	3,635.77	136.82	27.573		
16,000.00	7,630.00	7,846.57	7,688.90	124.71	34.02	91.11	-4,900.55	1,038.73	3,770.54	3,633.45	137.08	27.506		
16,027.44	7,630.00	7,845.93	7,688.26	125.03	34.02	91.10	-4,900.56	1,038.72	3,770.44	3,633.29	137.15	27.491 CC, ES		
16,100.00	7,630.00	7,844.24	7,686.58	125.87	34.02	91.07	-4,900.60	1,038.69	3,771.13	3,633.82	137.31	27.464		
16,200.00	7,630.00	7,841.92	7,684.26	127.05	34.01	91.04	-4,900.65	1,038.64	3,774.38	3,636.88	137.50	27.450 SF		
16,300.00	7,630.00	7,839.62	7,681.96	128.26	34.00	91.00	-4,900.69	1,038.60	3,780.27	3,642.61	137.66	27.461		
16,400.00	7,630.00	7,837.32	7,679.66	129.48	34.00	90.97	-4,900.74	1,038.56	3,788.79	3,651.01	137.78	27.499		
16,500.00	7,630.00	7,835.04	7,677.38	130.73	33.99	90.93	-4,900.79	1,038.51	3,799.92	3,662.06	137.86	27.563		
16,600.00	7,630.00	7,832.77	7,675.11	132.00	33.98	90.90	-4,900.83	1,038.47	3,813.64	3,675.73	137.91	27.653		
16,700.00	7,630.00	7,830.51	7,672.86	133.29	33.98	90.86	-4,900.88	1,038.43	3,829.92	3,692.00	137.93	27.768		
16,800.00	7,630.00	7,828.26	7,670.61	134.59	33.97	90.83	-4,900.93	1,038.38	3,848.74	3,710.83	137.91	27.908		
16,900.00	7,630.00	7,826.03	7,668.37	135.91	33.97	90.80	-4,900.97	1,038.34	3,870.04	3,732.18	137.86	28.073		
17,000.00	7,630.00	7,823.80	7,666.15	137.25	33.96	90.76	-4,901.02	1,038.30	3,893.79	3,756.02	137.77	28.262		
17,100.00	7,630.00	7,821.59	7,663.94	138.61	33.95	90.73	-4,901.06	1,038.26	3,919.95	3,782.29	137.66	28.475		
17,200.00	7,630.00	7,819.39	7,661.74	139.97	33.95	90.70	-4,901.10	1,038.22	3,948.47	3,810.95	137.53	28.711		
17,300.00	7,630.00	7,817.20	7,659.54	141.36	33.94	90.66	-4,901.15	1,038.18	3,979.30	3,841.94	137.36	28.970		
17,400.00	7,630.00	7,815.02	7,657.36	142.75	33.94	90.63	-4,901.19	1,038.14	4,012.39	3,875.21	137.17	29.250		
17,500.00	7,630.00	7,812.85	7,655.20	144.16	33.93	90.60	-4,901.24	1,038.10	4,047.67	3,910.70	136.96	29.553		
17,600.00	7,630.00	7,810.69	7,653.04	145.58	33.92	90.56	-4,901.28	1,038.06	4,085.09	3,948.36	136.73	29.876		
17,700.00	7,630.00	7,808.54	7,650.89	147.01	33.92	90.53	-4,901.32	1,038.02	4,124.60	3,988.12	136.49	30.220		
17,800.00	7,630.00	7,806.40	7,648.75	148.45	33.91	90.50	-4,901.36	1,037.98	4,166.14	4,029.92	136.22	30.583		
17,900.00	7,630.00	7,804.27	7,646.62	149.91	33.91	90.47	-4,901.39	1,037.96	4,209.64	4,073.69	135.95	30.965		
18,000.00	7,630.00	7,802.14	7,644.48	151.37	33.90	90.44	-4,901.44	1,037.91	4,255.04	4,119.39	135.66	31.367		
18,100.00	7,630.00	7,800.02	7,642.37	152.84	33.89	90.40	-4,901.48	1,037.87	4,302.29	4,166.94	135.35	31.786		
18,200.00	7,630.00	7,798.05	7,640.40	154.32	33.89	90.37	-4,901.53	1,037.83	4,351.33	4,216.29	135.04	32.222		
18,300.00	7,630.00	7,796.08	7,638.26	155.81	33.88	90.34	-4,901.57	1,037.80	4,402.09	4,267.37	134.72	32.676		
18,400.00	7,630.00	7,794.11	7,636.15	157.31	33.88	90.31	-4,901.61	1,037.76	4,454.51	4,320.12	134.40	33.145		
18,500.00	7,630.00	7,792.14	7,634.08	158.81	33.87	90.27	-4,901.65	1,037.72	4,508.55	4,374.48	134.07	33.629		
18,600.00	7,630.00	7,790.17	7,632.03	160.32	33.87	90.24	-4,901.69	1,037.68	4,564.13	4,430.40	133.73	34.129		
18,700.00	7,630.00	7,788.20	7,630.01	161.84	33.86	90.21	-4,901.73	1,037.65	4,621.21	4,487.81	133.40	34.643		
18,800.00	7,630.00	7,786.23	7,628.03	163.37	33.85	90.18	-4,901.77	1,037.61	4,679.73	4,546.67	133.06	35.170		
18,900.00	7,630.00	7,784.26	7,626.07	164.90	33.85	90.15	-4,901.81	1,037.58	4,739.63	4,606.91	132.72	35.711		
19,000.00	7,630.00	7,782.29	7,624.14	166.43	33.84	90.12	-4,901.84	1,037.55	4,800.87	4,668.49	132.38	36.265		

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

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY												Offset Well Error:	0.00 usft
Survey Program: 92-MWD OWSG													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.00	7,630.00	7,779.88	7,622.24	167.98	33.84	90.09	-4,901.88	1,037.52	4,863.40	4,731.35	132.05	36.830	
19,200.00	7,630.00	7,778.00	7,620.36	169.53	33.83	90.07	-4,901.91	1,037.48	4,927.16	4,795.44	131.72	37.408	
19,300.00	7,630.00	7,776.15	7,618.51	171.08	33.83	90.04	-4,901.95	1,037.45	4,992.10	4,860.72	131.39	37.996	
19,400.00	7,630.00	7,774.33	7,616.69	172.64	33.82	90.01	-4,901.98	1,037.42	5,058.19	4,927.14	131.06	38.595	
19,500.00	7,630.00	7,772.53	7,614.89	174.21	33.82	89.98	-4,902.01	1,037.39	5,125.38	4,994.65	130.74	39.204	
19,518.56	7,630.00	7,772.20	7,614.56	174.50	33.82	89.98	-4,902.02	1,037.39	5,137.97	5,007.30	130.68	39.319	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	135.51	-2,139.01	2,101.04	2,998.68							
100.00	100.00	53.27	53.27	0.13	0.09	135.51	-2,138.95	2,101.09	2,998.28	2,998.06	0.22	N/A				
200.00	200.00	159.54	159.53	0.49	0.37	135.50	-2,138.54	2,101.32	2,998.16	2,997.30	0.86	3,467.537				
300.00	300.00	258.89	258.88	0.85	0.72	135.50	-2,138.22	2,101.22	2,997.86	2,996.29	1.57	1,907.741				
400.00	400.00	354.36	354.36	1.21	1.05	135.51	-2,138.32	2,100.93	2,997.72	2,995.46	2.26	1,326.326				
500.00	499.98	454.86	454.85	1.56	1.40	68.83	-2,138.53	2,100.63	2,997.03	2,994.06	2.96	1,011.055				
600.00	599.84	556.36	556.35	1.92	1.76	68.98	-2,138.92	2,100.03	2,995.01	2,991.33	3.68	814.582				
700.00	699.45	657.89	657.88	2.29	2.12	69.21	-2,139.35	2,099.34	2,991.71	2,987.31	4.40	679.825				
800.00	798.70	766.83	766.82	2.67	2.51	69.56	-2,139.84	2,098.31	2,987.06	2,981.89	5.17	578.195				
900.00	897.47	868.28	868.26	3.07	2.87	69.99	-2,140.29	2,096.90	2,980.95	2,975.02	5.92	503.151				
1,000.00	995.62	955.35	955.31	3.50	3.18	70.44	-2,140.82	2,095.71	2,973.88	2,967.22	6.66	446.800				
1,100.00	1,093.06	1,043.14	1,043.09	3.96	3.50	70.97	-2,141.71	2,094.71	2,966.23	2,958.81	7.42	399.746				
1,200.00	1,189.64	1,144.15	1,144.09	4.46	3.86	71.65	-2,142.88	2,093.53	2,957.74	2,949.47	8.27	357.700				
1,300.00	1,285.27	1,246.95	1,246.87	5.00	4.23	72.42	-2,143.86	2,092.03	2,948.07	2,938.90	9.17	321.603				
1,400.00	1,379.82	1,340.25	1,340.16	5.60	4.56	73.23	-2,144.84	2,090.48	2,937.63	2,927.56	10.08	291.451				
1,500.00	1,473.17	1,433.43	1,433.32	6.25	4.90	74.10	-2,145.89	2,088.89	2,926.62	2,915.57	11.04	264.974				
1,600.00	1,565.21	1,526.17	1,526.03	6.95	5.23	75.05	-2,146.91	2,087.22	2,915.07	2,903.00	12.07	241.569				
1,700.00	1,655.84	1,613.92	1,613.77	7.72	5.55	76.03	-2,147.95	2,085.61	2,903.23	2,890.10	13.13	221.036				
1,800.00	1,744.94	1,700.74	1,700.57	8.55	5.86	77.06	-2,148.98	2,084.07	2,891.28	2,877.01	14.27	202.675				
1,900.00	1,832.39	1,789.73	1,789.54	9.45	6.18	78.17	-2,149.99	2,082.54	2,879.30	2,863.83	15.47	186.068				
2,000.00	1,918.11	1,883.40	1,883.19	10.41	6.52	79.39	-2,150.87	2,080.86	2,867.34	2,850.57	16.77	170.949				
2,100.00	2,001.97	1,973.06	1,972.83	11.45	6.84	80.62	-2,151.44	2,079.18	2,855.48	2,837.35	18.13	157.477				
2,200.00	2,083.88	2,057.34	2,057.09	12.56	7.14	81.84	-2,151.79	2,077.59	2,844.01	2,824.46	19.55	145.474				
2,300.00	2,163.74	2,139.66	2,139.40	13.74	7.44	83.08	-2,152.01	2,076.07	2,833.21	2,812.17	21.04	134.671				
2,400.00	2,241.45	2,222.21	2,221.94	14.99	7.73	84.35	-2,152.00	2,074.66	2,823.22	2,800.61	22.60	124.900				
2,421.22	2,257.65	2,239.92	2,239.65	15.26	7.79	84.62	-2,151.96	2,074.37	2,821.21	2,798.27	22.95	122.952				
2,500.00	2,317.63	2,305.58	2,305.29	16.29	8.03	85.50	-2,151.70	2,073.30	2,814.25	2,790.03	24.23	116.153				
2,600.00	2,393.75	2,372.77	2,372.48	17.62	8.27	86.40	-2,151.44	2,072.27	2,806.82	2,781.00	25.82	108.719				
2,700.00	2,469.88	2,443.26	2,442.96	18.95	8.52	87.35	-2,151.29	2,071.29	2,801.07	2,773.64	27.43	102.124				
2,800.00	2,546.01	2,522.33	2,522.02	20.30	8.80	88.41	-2,151.24	2,070.14	2,796.95	2,767.87	29.08	96.194				
2,900.00	2,622.13	2,620.79	2,620.46	21.65	9.15	89.75	-2,150.65	2,068.29	2,793.85	2,763.06	30.79	90.731				
3,000.00	2,698.26	2,698.80	2,698.45	23.01	9.43	90.80	-2,149.95	2,066.61	2,792.04	2,759.60	32.44	86.077				
3,100.00	2,774.38	2,816.27	2,815.88	24.37	9.85	92.39	-2,147.93	2,063.93	2,791.18	2,756.98	34.21	81.600				
3,131.16	2,798.10	2,833.40	2,833.00	24.80	9.91	92.63	-2,147.57	2,063.50	2,791.12	2,756.43	34.69	80.455				
3,200.00	2,850.51	2,884.42	2,883.98	25.74	10.09	93.32	-2,146.48	2,062.15	2,791.49	2,755.69	35.80	77.966				
3,300.00	2,926.64	2,949.97	2,949.50	27.11	10.32	94.21	-2,145.19	2,060.37	2,793.48	2,756.09	37.38	74.725				
3,400.00	3,002.76	3,015.88	3,015.39	28.49	10.55	95.10	-2,144.08	2,058.87	2,797.32	2,758.37	38.95	71.816				
3,500.00	3,078.89	3,090.79	3,090.27	29.87	10.81	96.10	-2,142.81	2,057.53	2,802.81	2,762.27	40.53	69.148				
3,600.00	3,155.02	3,157.41	3,156.87	31.25	11.05	96.99	-2,141.72	2,056.56	2,809.92	2,767.85	42.07	66.791				
3,700.00	3,231.14	3,222.68	3,222.13	32.63	11.28	97.86	-2,140.88	2,055.68	2,818.81	2,775.23	43.58	64.677				
3,800.00	3,307.27	3,287.96	3,287.40	34.01	11.51	98.72	-2,140.26	2,054.96	2,829.47	2,784.39	45.07	62.773				
3,900.00	3,383.39	3,355.03	3,354.47	35.40	11.75	99.60	-2,139.80	2,054.42	2,841.84	2,795.29	46.55	61.049				
4,000.00	3,459.52	3,424.89	3,424.33	36.79	11.99	100.52	-2,139.49	2,054.07	2,855.86	2,807.85	48.01	59.482				
4,100.00	3,535.65	3,499.16	3,498.60	38.18	12.26	101.48	-2,139.23	2,053.73	2,871.37	2,821.90	49.47	58.046				
4,200.00	3,611.77	3,574.63	3,574.07	39.57	12.52	102.45	-2,139.00	2,053.39	2,888.28	2,837.38	50.90	56.742				
4,300.00	3,687.90	3,650.75	3,650.18	40.96	12.79	103.42	-2,138.77	2,053.05	2,906.57	2,854.25	52.31	55.560				
4,400.00	3,764.02	3,727.03	3,726.46	42.35	13.06	104.39	-2,138.52	2,052.75	2,926.17	2,872.47	53.70	54.492				
4,500.00	3,840.15	3,802.96	3,802.40	43.74	13.33	105.34	-2,138.27	2,052.48	2,947.08	2,892.02	55.06	53.529				
4,600.00	3,916.28	3,875.91	3,875.34	45.13	13.59	106.25	-2,138.07	2,052.26	2,969.30	2,912.93	56.37	52.673				
4,700.00	3,992.40	3,950.61	3,950.04	46.53	13.86	107.17	-2,137.93	2,052.01	2,992.83	2,935.16	57.67	51.895				
4,800.00	4,068.53	4,027.42	4,026.85	47.92	14.13	108.11	-2,137.79	2,051.51	3,017.59	2,958.64	58.95	51.190				
4,900.00	4,144.66	4,107.19	4,106.62	49.32	14.42	109.08	-2,137.57	2,050.80	3,043.48	2,983.26	60.21	50.546				

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	4,186.98	4,186.39	50.71	14.70	110.05	-2,137.24	2,049.80	3,070.44	3,008.99	61.45	49.970		
5,100.00	4,296.91	4,270.82	4,270.22	52.11	15.00	111.05	-2,136.71	2,048.49	3,098.41	3,035.74	62.67	49.443		
5,200.00	4,373.03	4,349.91	4,349.30	53.51	15.29	111.99	-2,136.02	2,047.23	3,127.33	3,063.49	63.84	48.986		
5,300.00	4,449.16	4,423.65	4,423.03	54.90	15.55	112.85	-2,135.35	2,045.99	3,157.34	3,092.37	64.97	48.600		
5,400.00	4,525.29	4,492.71	4,492.08	56.30	15.80	113.66	-2,134.82	2,044.68	3,188.53	3,122.49	66.04	48.280		
5,500.00	4,601.41	4,582.19	4,581.53	57.70	16.12	114.69	-2,133.99	2,042.66	3,220.71	3,153.53	67.18	47.943		
5,600.00	4,677.54	4,659.75	4,659.05	59.10	16.40	115.57	-2,132.98	2,040.65	3,253.65	3,185.42	68.24	47.683		
5,700.00	4,753.66	4,733.08	4,732.36	60.49	16.66	116.40	-2,132.03	2,038.73	3,287.62	3,218.37	69.25	47.475		
5,800.00	4,829.79	4,805.95	4,805.20	61.89	16.92	117.21	-2,131.15	2,036.85	3,322.62	3,252.38	70.24	47.306		
5,900.00	4,905.92	4,884.40	4,883.62	63.29	17.20	118.07	-2,130.18	2,034.91	3,358.53	3,287.31	71.23	47.153		
6,000.00	4,982.04	4,957.31	4,956.50	64.69	17.47	118.86	-2,129.27	2,033.16	3,395.33	3,323.16	72.17	47.047		
6,100.00	5,058.17	5,030.97	5,030.13	66.09	17.73	119.64	-2,128.42	2,031.42	3,433.07	3,359.98	73.09	46.969		
6,200.00	5,134.30	5,107.92	5,107.06	67.49	18.01	120.45	-2,127.52	2,029.66	3,471.64	3,397.63	74.01	46.907		
6,300.00	5,210.42	5,182.61	5,181.72	68.89	18.28	121.21	-2,126.65	2,027.98	3,511.02	3,436.12	74.90	46.877		
6,400.00	5,286.55	5,288.87	5,287.95	70.29	18.65	122.29	-2,125.08	2,025.88	3,550.94	3,475.03	75.91	46.778		
6,500.00	5,362.67	5,374.49	5,373.55	71.69	18.96	123.13	-2,123.34	2,024.67	3,591.07	3,514.26	76.81	46.751		
6,600.00	5,438.80	5,456.95	5,455.99	73.09	19.25	123.92	-2,121.59	2,023.79	3,631.79	3,554.10	77.68	46.751		
6,700.00	5,514.93	5,536.48	5,535.50	74.49	19.53	124.67	-2,119.86	2,023.25	3,673.08	3,594.55	78.53	46.775		
6,800.00	5,591.05	5,612.30	5,611.30	75.89	19.79	125.37	-2,118.29	2,023.00	3,715.02	3,635.68	79.34	46.825		
6,900.00	5,667.18	5,685.75	5,684.73	77.29	20.05	126.04	-2,116.85	2,022.86	3,757.64	3,677.51	80.13	46.897		
7,000.00	5,743.30	5,758.09	5,757.06	78.69	20.30	126.68	-2,115.51	2,022.75	3,800.94	3,720.05	80.89	46.987		
7,100.00	5,819.43	5,831.96	5,830.91	80.09	20.55	127.33	-2,114.22	2,022.63	3,844.91	3,763.26	81.65	47.088		
7,200.00	5,895.56	5,908.37	5,907.31	81.49	20.82	127.98	-2,112.91	2,022.53	3,889.48	3,807.06	82.42	47.193		
7,300.00	5,971.68	5,982.86	5,981.79	82.90	21.08	128.61	-2,111.66	2,022.43	3,934.61	3,851.45	83.16	47.316		
7,400.00	6,047.81	6,054.64	6,053.57	84.30	21.33	129.21	-2,110.51	2,022.33	3,980.33	3,896.46	83.87	47.458		
7,500.00	6,123.94	6,129.83	6,128.75	85.70	21.59	129.83	-2,109.40	2,022.23	4,026.65	3,942.06	84.59	47.601		
7,600.00	6,200.06	6,212.97	6,211.88	87.10	21.88	130.49	-2,108.08	2,022.09	4,073.39	3,988.05	85.34	47.729		
7,700.00	6,276.19	6,297.88	6,296.77	88.50	22.18	131.17	-2,106.52	2,021.90	4,120.47	4,034.38	86.09	47.861		
7,800.00	6,352.31	6,359.98	6,358.86	89.90	22.40	131.65	-2,105.44	2,021.78	4,168.06	4,081.34	86.72	48.064		
7,900.00	6,428.44	6,425.76	6,424.63	91.31	22.63	132.15	-2,104.57	2,021.71	4,216.36	4,129.01	87.35	48.267		
8,000.00	6,504.57	6,499.56	6,498.43	92.71	22.89	132.70	-2,103.68	2,021.62	4,265.18	4,177.16	88.02	48.455		
8,100.00	6,580.69	6,574.29	6,573.15	94.11	23.15	133.26	-2,102.82	2,021.49	4,314.45	4,225.76	88.69	48.645		
8,200.00	6,656.82	6,646.50	6,645.36	95.51	23.40	133.78	-2,102.02	2,021.37	4,364.17	4,274.83	89.34	48.850		
8,300.00	6,732.95	6,719.43	6,718.28	96.91	23.66	134.30	-2,101.31	2,021.26	4,414.36	4,324.37	89.98	49.058		
8,400.00	6,809.07	6,799.04	6,797.90	98.32	23.93	134.85	-2,100.70	2,021.45	4,464.90	4,374.24	90.66	49.249		
8,500.00	6,885.20	6,904.89	6,903.74	99.72	24.29	135.56	-2,099.72	2,022.17	4,515.53	4,424.05	91.47	49.365		
8,600.00	6,961.32	6,983.01	6,981.85	101.12	24.56	136.08	-2,098.77	2,022.83	4,566.24	4,474.11	92.13	49.563		
8,700.00	7,037.45	7,065.70	7,064.53	102.52	24.84	136.61	-2,097.71	2,023.58	4,617.22	4,524.41	92.81	49.749		
8,732.15	7,061.92	7,092.60	7,091.43	102.97	24.94	136.79	-2,097.35	2,023.84	4,633.65	4,540.62	93.03	49.809		
8,750.00	7,075.57	7,107.60	7,106.43	103.22	24.99	134.37	-2,097.15	2,023.99	4,642.57	4,549.42	93.15	49.839		
8,800.00	7,114.27	7,147.73	7,146.55	103.91	25.13	127.50	-2,096.59	2,024.39	4,665.31	4,571.82	93.49	49.903		
8,850.00	7,153.47	7,188.68	7,187.49	104.58	25.27	120.58	-2,096.01	2,024.80	4,684.63	4,590.80	93.84	49.924		
8,900.00	7,192.85	7,234.03	7,232.84	105.21	25.42	113.77	-2,095.34	2,025.27	4,700.40	4,606.19	94.21	49.892		
8,950.00	7,232.12	7,280.86	7,279.66	105.80	25.58	107.25	-2,094.59	2,025.80	4,712.51	4,617.92	94.59	49.818		
9,000.00	7,270.99	7,334.21	7,332.99	106.35	25.76	101.23	-2,093.65	2,026.47	4,720.88	4,625.88	95.01	49.689		
9,050.00	7,309.16	7,391.41	7,390.17	106.85	25.96	95.84	-2,092.47	2,027.30	4,725.42	4,629.99	95.43	49.516		
9,100.00	7,346.32	7,424.43	7,423.18	107.30	26.07	90.96	-2,091.73	2,027.81	4,726.20	4,630.49	95.71	49.380		
9,150.00	7,382.22	7,452.25	7,451.00	107.69	26.17	86.76	-2,091.14	2,028.22	4,723.38	4,627.44	95.94	49.231		
9,200.00	7,416.56	7,478.81	7,477.55	108.02	26.26	83.28	-2,090.62	2,028.59	4,717.00	4,620.86	96.15	49.060		
9,250.00	7,449.09	7,504.51	7,503.24	108.29	26.35	80.51	-2,090.15	2,028.91	4,707.14	4,610.81	96.32	48.868		
9,300.00	7,479.56	7,531.52	7,530.24	108.51	26.44	78.44	-2,089.67	2,029.23	4,693.85	4,597.36	96.48	48.648		
9,350.00	7,507.74	7,556.35	7,555.06	108.68	26.53	77.02	-2,089.22	2,029.49	4,677.24	4,580.63	96.61	48.414		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,578.82	7,577.54	108.79	26.61	76.22	-2,088.82	2,029.70	4,657.45	4,560.75	96.70	48.165		
9,450.00	7,556.39	7,598.80	7,597.50	108.86	26.68	76.04	-2,088.45	2,029.86	4,634.62	4,537.88	96.75	47.904		
9,500.00	7,576.48	7,616.92	7,615.62	108.88	26.74	76.47	-2,088.13	2,030.00	4,608.92	4,512.16	96.77	47.630		
9,550.00	7,593.55	7,632.24	7,630.94	108.86	26.79	77.52	-2,087.86	2,030.12	4,580.54	4,483.79	96.75	47.344		
9,600.00	7,607.46	7,644.58	7,643.28	108.80	26.84	79.22	-2,087.64	2,030.22	4,549.66	4,452.96	96.70	47.048		
9,650.00	7,618.11	7,653.84	7,652.54	108.71	26.87	81.61	-2,087.48	2,030.29	4,516.51	4,419.88	96.62	46.743		
9,700.00	7,625.41	7,659.95	7,658.65	108.59	26.89	84.74	-2,087.38	2,030.34	4,481.30	4,384.78	96.52	46.430		
9,750.00	7,629.30	7,662.84	7,661.54	108.45	26.90	88.68	-2,087.33	2,030.36	4,444.28	4,347.89	96.39	46.107		
9,781.81	7,630.00	7,662.99	7,661.69	108.35	26.90	91.64	-2,087.33	2,030.36	4,419.90	4,323.60	96.30	45.897		
9,800.00	7,630.00	7,662.70	7,661.40	108.29	26.90	91.63	-2,087.33	2,030.36	4,405.80	4,309.56	96.25	45.776		
9,900.00	7,630.00	7,661.11	7,659.81	107.97	26.89	91.60	-2,087.36	2,030.34	4,328.85	4,232.91	95.94	45.119		
10,000.00	7,630.00	7,659.51	7,658.21	107.67	26.89	91.57	-2,087.39	2,030.33	4,252.85	4,157.22	95.63	44.472		
10,100.00	7,630.00	7,657.90	7,656.60	107.38	26.88	91.53	-2,087.41	2,030.32	4,177.86	4,082.55	95.31	43.834		
10,200.00	7,630.00	7,656.29	7,654.99	107.10	26.88	91.50	-2,087.44	2,030.31	4,103.94	4,008.96	94.99	43.206		
10,300.00	7,630.00	7,654.67	7,653.37	106.84	26.87	91.47	-2,087.47	2,030.29	4,031.15	3,936.50	94.65	42.589		
10,400.00	7,630.00	7,653.05	7,651.75	106.59	26.86	91.43	-2,087.50	2,030.28	3,959.54	3,865.23	94.31	41.983		
10,500.00	7,630.00	7,651.42	7,650.12	106.35	26.86	91.40	-2,087.53	2,030.27	3,889.18	3,795.21	93.97	41.388		
10,600.00	7,630.00	7,649.78	7,648.48	106.13	26.85	91.37	-2,087.55	2,030.26	3,820.15	3,726.53	93.62	40.805		
10,700.00	7,630.00	7,648.14	7,646.84	105.92	26.85	91.33	-2,087.58	2,030.24	3,752.51	3,659.24	93.27	40.234		
10,800.00	7,630.00	7,646.49	7,645.19	105.72	26.84	91.30	-2,087.61	2,030.23	3,686.34	3,593.42	92.91	39.676		
10,900.00	7,630.00	7,644.83	7,643.53	105.54	26.84	91.26	-2,087.64	2,030.22	3,621.72	3,529.16	92.56	39.130		
11,000.00	7,630.00	7,643.17	7,641.87	105.37	26.83	91.23	-2,087.67	2,030.20	3,558.74	3,466.53	92.20	38.598		
11,100.00	7,630.00	7,641.50	7,640.20	105.21	26.82	91.20	-2,087.70	2,030.19	3,497.48	3,405.63	91.85	38.079		
11,200.00	7,630.00	7,639.82	7,638.52	105.06	26.82	91.16	-2,087.73	2,030.18	3,438.04	3,346.54	91.50	37.573		
11,300.00	7,630.00	7,638.14	7,636.84	104.93	26.81	91.13	-2,087.75	2,030.17	3,380.51	3,289.35	91.16	37.082		
11,400.00	7,630.00	7,636.45	7,635.15	104.82	26.81	91.09	-2,087.78	2,030.15	3,324.99	3,234.16	90.83	36.605		
11,500.00	7,630.00	7,634.76	7,633.46	104.72	26.80	91.06	-2,087.81	2,030.14	3,271.59	3,181.07	90.52	36.142		
11,600.00	7,630.00	7,633.06	7,631.76	104.63	26.80	91.02	-2,087.84	2,030.13	3,220.41	3,130.19	90.22	35.694		
11,700.00	7,630.00	7,631.35	7,630.05	104.55	26.79	90.99	-2,087.87	2,030.11	3,171.55	3,081.61	89.95	35.260		
11,800.00	7,630.00	7,629.63	7,628.34	104.50	26.78	90.95	-2,087.90	2,030.10	3,125.14	3,035.44	89.70	34.841		
11,900.00	7,630.00	7,627.91	7,626.62	104.45	26.78	90.92	-2,087.93	2,030.09	3,081.26	2,991.78	89.48	34.436		
12,000.00	7,630.00	7,626.18	7,624.89	104.43	26.77	90.88	-2,087.96	2,030.07	3,040.05	2,950.75	89.29	34.046		
12,100.00	7,630.00	7,624.45	7,623.15	104.42	26.77	90.85	-2,087.99	2,030.06	3,001.60	2,912.45	89.15	33.671		
12,200.00	7,630.00	7,622.71	7,621.41	104.42	26.76	90.81	-2,088.03	2,030.05	2,966.02	2,876.98	89.04	33.310		
12,300.00	7,630.00	7,620.96	7,619.66	104.45	26.75	90.77	-2,088.06	2,030.03	2,933.42	2,844.43	88.99	32.965		
12,400.00	7,630.00	7,619.20	7,617.91	104.49	26.75	90.74	-2,088.09	2,030.02	2,903.90	2,814.92	88.98	32.635		
12,500.00	7,630.00	7,617.44	7,616.15	104.55	26.74	90.70	-2,088.12	2,030.00	2,877.55	2,788.52	89.03	32.321		
12,600.00	7,630.00	7,615.67	7,614.38	104.63	26.73	90.67	-2,088.15	2,029.99	2,854.46	2,765.33	89.14	32.024		
12,700.00	7,630.00	7,613.90	7,612.60	104.73	26.73	90.63	-2,088.18	2,029.98	2,834.72	2,745.42	89.30	31.744		
12,800.00	7,630.00	7,612.11	7,610.82	104.85	26.72	90.59	-2,088.21	2,029.96	2,818.38	2,728.86	89.52	31.482		
12,900.00	7,630.00	7,610.32	7,609.03	104.99	26.72	90.56	-2,088.25	2,029.95	2,805.51	2,715.71	89.81	31.239		
13,000.00	7,630.00	7,608.52	7,607.23	105.15	26.71	90.52	-2,088.28	2,029.94	2,796.17	2,706.02	90.15	31.018		
13,100.00	7,630.00	7,606.72	7,605.43	105.34	26.70	90.48	-2,088.31	2,029.92	2,790.37	2,699.83	90.54	30.818		
13,200.00	7,630.00	7,604.91	7,603.61	105.56	26.70	90.44	-2,088.34	2,029.91	2,788.16	2,697.16	90.99	30.642		
13,211.89	7,630.00	7,604.69	7,603.40	105.58	26.70	90.44	-2,088.35	2,029.91	2,788.13	2,697.08	91.05	30.622 CC, ES		
13,300.00	7,630.00	7,603.09	7,601.79	105.80	26.69	90.41	-2,088.38	2,029.89	2,789.52	2,698.03	91.49	30.491		
13,400.00	7,630.00	7,601.26	7,599.97	106.06	26.68	90.37	-2,088.41	2,029.88	2,794.47	2,702.44	92.03	30.366		
13,500.00	7,630.00	7,599.50	7,598.21	106.36	26.68	90.33	-2,088.44	2,029.87	2,802.97	2,710.37	92.60	30.268		
13,600.00	7,630.00	7,597.90	7,596.61	106.68	26.67	90.30	-2,088.47	2,029.85	2,815.00	2,721.79	93.21	30.199		
13,700.00	7,630.00	7,596.30	7,595.01	107.03	26.67	90.27	-2,088.50	2,029.84	2,830.52	2,736.67	93.85	30.160		
13,800.00	7,630.00	7,594.70	7,593.40	107.42	26.66	90.23	-2,088.53	2,029.83	2,849.46	2,754.96	94.50	30.151 SF		
13,900.00	7,630.00	7,593.10	7,591.81	107.83	26.66	90.20	-2,088.56	2,029.82	2,871.76	2,776.59	95.17	30.174		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		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)						
14,000.00	7,630.00	7,591.50	7,590.21	108.28	26.65	90.17	-2,088.59	2,029.80	2,897.34	2,801.50	95.85	30.229		
14,100.00	7,630.00	7,589.90	7,588.61	108.77	26.65	90.14	-2,088.62	2,029.79	2,926.12	2,829.59	96.52	30.315		
14,200.00	7,630.00	7,588.30	7,587.01	109.29	26.64	90.10	-2,088.64	2,029.78	2,957.99	2,860.80	97.19	30.434		
14,300.00	7,630.00	7,586.70	7,585.41	109.84	26.63	90.07	-2,088.67	2,029.76	2,992.87	2,895.01	97.86	30.583		
14,400.00	7,630.00	7,585.11	7,583.82	110.43	26.63	90.04	-2,088.70	2,029.75	3,030.65	2,932.14	98.51	30.764		
14,500.00	7,630.00	7,583.51	7,582.22	111.06	26.62	90.00	-2,088.73	2,029.74	3,071.22	2,972.07	99.15	30.976		
14,600.00	7,630.00	7,581.92	7,580.63	111.72	26.62	89.97	-2,088.76	2,029.72	3,114.47	3,014.70	99.77	31.217		
14,700.00	7,630.00	7,580.32	7,579.03	112.42	26.61	89.94	-2,088.79	2,029.71	3,160.29	3,059.93	100.37	31.487		
14,800.00	7,630.00	7,578.73	7,577.44	113.16	26.61	89.91	-2,088.82	2,029.69	3,208.58	3,107.64	100.95	31.785		
14,900.00	7,630.00	7,577.14	7,575.85	113.94	26.60	89.87	-2,088.85	2,029.68	3,259.22	3,157.72	101.50	32.110		
15,000.00	7,630.00	7,575.54	7,574.26	114.75	26.60	89.84	-2,088.88	2,029.67	3,312.10	3,210.07	102.03	32.461		
15,100.00	7,630.00	7,573.95	7,572.67	115.60	26.59	89.81	-2,088.90	2,029.65	3,367.13	3,264.59	102.54	32.837		
15,200.00	7,630.00	7,572.36	7,571.08	116.48	26.58	89.78	-2,088.93	2,029.64	3,424.19	3,321.16	103.02	33.237		
15,300.00	7,630.00	7,570.77	7,569.49	117.40	26.58	89.74	-2,088.96	2,029.62	3,483.18	3,379.70	103.48	33.660		
15,400.00	7,630.00	7,569.18	7,567.90	118.35	26.57	89.71	-2,088.99	2,029.61	3,544.02	3,440.10	103.92	34.104		
15,500.00	7,630.00	7,567.59	7,566.31	119.34	26.57	89.68	-2,089.02	2,029.59	3,606.60	3,502.27	104.33	34.569		
15,600.00	7,630.00	7,566.01	7,564.72	120.35	26.56	89.64	-2,089.05	2,029.58	3,670.83	3,566.12	104.72	35.054		
15,700.00	7,630.00	7,564.42	7,563.13	121.40	26.56	89.61	-2,089.08	2,029.56	3,736.64	3,631.56	105.09	35.558		
15,800.00	7,630.00	7,562.83	7,561.55	122.48	26.55	89.58	-2,089.10	2,029.55	3,803.94	3,698.51	105.43	36.079		
15,900.00	7,630.00	7,561.25	7,559.96	123.58	26.55	89.55	-2,089.13	2,029.53	3,872.65	3,766.89	105.76	36.617		
16,000.00	7,630.00	7,559.66	7,558.38	124.71	26.54	89.51	-2,089.16	2,029.52	3,942.70	3,836.63	106.07	37.170		
16,100.00	7,630.00	7,558.08	7,556.79	125.87	26.54	89.48	-2,089.19	2,029.50	4,014.02	3,907.66	106.36	37.739		
16,200.00	7,630.00	7,556.49	7,555.21	127.05	26.53	89.45	-2,089.22	2,029.49	4,086.54	3,979.91	106.64	38.323		
16,300.00	7,630.00	7,554.91	7,553.63	128.26	26.52	89.42	-2,089.25	2,029.47	4,160.20	4,053.31	106.89	38.919		
16,400.00	7,630.00	7,553.33	7,552.04	129.48	26.52	89.38	-2,089.28	2,029.46	4,234.94	4,127.80	107.13	39.529		
16,500.00	7,630.00	7,551.75	7,550.46	130.73	26.51	89.35	-2,089.30	2,029.44	4,310.70	4,203.34	107.36	40.151		
16,600.00	7,630.00	7,550.16	7,548.88	132.00	26.51	89.32	-2,089.33	2,029.43	4,387.43	4,279.85	107.58	40.784		
16,700.00	7,630.00	7,548.58	7,547.30	133.29	26.50	89.29	-2,089.36	2,029.41	4,465.08	4,357.31	107.78	41.428		
16,800.00	7,630.00	7,547.00	7,545.72	134.59	26.50	89.25	-2,089.39	2,029.39	4,543.61	4,435.64	107.97	42.083		
16,900.00	7,630.00	7,545.43	7,544.15	135.91	26.49	89.22	-2,089.42	2,029.38	4,622.96	4,514.82	108.15	42.747		
17,000.00	7,630.00	7,543.85	7,542.57	137.25	26.49	89.19	-2,089.45	2,029.36	4,703.11	4,594.79	108.32	43.420		
17,100.00	7,630.00	7,542.27	7,540.99	138.61	26.48	89.16	-2,089.48	2,029.34	4,783.99	4,675.52	108.47	44.103		
17,200.00	7,630.00	7,540.69	7,539.41	139.97	26.48	89.13	-2,089.50	2,029.33	4,865.59	4,756.97	108.62	44.793		
17,300.00	7,630.00	7,539.12	7,537.84	141.36	26.47	89.09	-2,089.53	2,029.31	4,947.87	4,839.10	108.76	45.491		
17,400.00	7,630.00	7,537.54	7,536.26	142.75	26.46	89.06	-2,089.56	2,029.29	5,030.78	4,921.88	108.90	46.197		
17,500.00	7,630.00	7,535.97	7,534.69	144.16	26.46	89.03	-2,089.59	2,029.28	5,114.31	5,005.28	109.02	46.910		
17,600.00	7,630.00	7,534.39	7,533.12	145.58	26.45	89.00	-2,089.62	2,029.26	5,198.41	5,089.27	109.14	47.630		
17,700.00	7,630.00	7,532.82	7,531.54	147.01	26.45	88.96	-2,089.65	2,029.24	5,283.07	5,173.82	109.26	48.355		
17,800.00	7,630.00	7,531.25	7,529.97	148.45	26.44	88.93	-2,089.67	2,029.23	5,368.26	5,258.90	109.36	49.087		
17,900.00	7,630.00	7,529.68	7,528.40	149.91	26.44	88.90	-2,089.70	2,029.21	5,453.95	5,344.49	109.46	49.825		
18,000.00	7,630.00	7,528.10	7,526.83	151.37	26.43	88.87	-2,089.73	2,029.19	5,540.12	5,430.56	109.56	50.568		
18,100.00	7,630.00	7,526.53	7,525.26	152.84	26.43	88.83	-2,089.76	2,029.17	5,626.75	5,517.10	109.65	51.316		
18,200.00	7,630.00	7,524.96	7,523.69	154.32	26.42	88.80	-2,089.79	2,029.16	5,713.81	5,604.07	109.74	52.069		
18,300.00	7,630.00	7,523.39	7,522.12	155.81	26.42	88.77	-2,089.81	2,029.14	5,801.29	5,691.47	109.82	52.827		
18,400.00	7,630.00	7,521.83	7,520.55	157.31	26.41	88.74	-2,089.84	2,029.12	5,889.17	5,779.27	109.90	53.589		
18,500.00	7,630.00	7,520.26	7,518.98	158.81	26.40	88.71	-2,089.87	2,029.10	5,977.42	5,867.45	109.97	54.355		
18,600.00	7,630.00	7,518.69	7,517.42	160.32	26.40	88.67	-2,089.90	2,029.08	6,066.05	5,956.00	110.04	55.125		
18,700.00	7,630.00	7,517.12	7,515.85	161.84	26.39	88.64	-2,089.93	2,029.07	6,155.02	6,044.91	110.11	55.899		
18,800.00	7,630.00	7,515.56	7,514.28	163.37	26.39	88.61	-2,089.95	2,029.05	6,244.32	6,134.14	110.17	56.677		
18,900.00	7,630.00	7,513.99	7,512.72	164.90	26.38	88.58	-2,089.98	2,029.04	6,333.93	6,223.68	110.23	57.447		
19,000.00	7,630.00	7,512.42	7,511.15	166.43	26.37	88.55	-2,089.99	2,029.03	6,423.86	6,313.55	110.29	58.222		
19,100.00	7,630.00	7,510.85	7,509.58	167.98	26.36	88.52	-2,089.99	2,029.02	6,514.09	6,403.72	110.34	59.001		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	7,513.46	7,512.19	169.53	26.38	88.57	-2,090.00	2,029.02	6,604.59	6,494.17	110.42	59.812	
19,300.00	7,630.00	7,511.28	7,510.00	171.08	26.37	88.52	-2,090.03	2,029.00	6,695.36	6,584.89	110.47	60.606	
19,400.00	7,630.00	7,509.06	7,507.79	172.64	26.37	88.48	-2,090.07	2,028.97	6,786.40	6,675.88	110.52	61.403	
19,500.00	7,630.00	7,506.82	7,505.55	174.21	26.36	88.43	-2,090.11	2,028.94	6,877.68	6,767.11	110.57	62.202	
19,518.56	7,630.00	7,506.40	7,505.13	174.50	26.36	88.42	-2,090.12	2,028.94	6,894.65	6,784.07	110.58	62.351	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	69.70	765.09	2,068.60	2,205.91					
100.00	100.00	82.51	82.50	0.13	0.13	69.70	765.06	2,068.16	2,205.24	2,204.98	0.27	8,299.868		
200.00	200.00	231.73	231.69	0.49	0.64	69.65	765.71	2,064.85	2,203.42	2,202.29	1.14	1,935.616		
300.00	300.00	476.68	475.75	0.85	1.57	69.36	770.46	2,045.58	2,196.48	2,194.07	2.41	910.627		
400.00	400.00	624.72	622.16	1.21	2.19	68.98	778.02	2,025.16	2,185.25	2,181.91	3.34	655.153		
500.00	499.98	730.04	725.65	1.56	2.66	1.88	787.27	2,007.96	2,171.35	2,167.23	4.12	527.320		
600.00	599.84	814.29	808.07	1.92	3.05	1.50	797.00	1,993.49	2,154.28	2,149.45	4.84	445.145		
700.00	699.45	892.97	884.73	2.29	3.43	1.09	808.19	1,979.77	2,134.61	2,129.06	5.56	384.182		
800.00	798.70	968.06	957.62	2.67	3.81	0.65	820.67	1,966.69	2,112.56	2,106.28	6.28	336.623		
900.00	897.47	1,065.75	1,052.01	3.07	4.32	-0.01	839.13	1,949.61	2,088.08	2,080.95	7.13	292.837		
1,000.00	995.62	1,164.39	1,147.21	3.50	4.85	-0.71	857.56	1,931.52	2,059.67	2,051.66	8.01	257.294		
1,100.00	1,093.06	1,255.09	1,235.03	3.96	5.33	-1.36	873.60	1,915.54	2,028.44	2,019.60	8.85	229.315		
1,200.00	1,189.64	1,350.72	1,327.16	4.46	5.86	-2.14	892.15	1,897.81	1,994.05	1,984.32	9.74	204.817		
1,300.00	1,285.27	1,440.20	1,412.87	5.00	6.38	-2.98	911.00	1,880.38	1,956.57	1,945.95	10.62	184.225		
1,400.00	1,379.82	1,525.26	1,494.14	5.60	6.89	-3.87	929.64	1,863.54	1,916.31	1,904.81	11.50	166.625		
1,500.00	1,473.17	1,605.83	1,571.09	6.25	7.37	-4.78	947.46	1,847.67	1,873.44	1,861.07	12.37	151.476		
1,600.00	1,565.21	1,686.10	1,647.93	6.95	7.84	-5.76	964.89	1,832.33	1,828.17	1,814.93	13.24	138.068		
1,700.00	1,655.84	1,772.67	1,730.91	7.72	8.36	-6.89	983.32	1,815.92	1,780.21	1,766.06	14.16	125.757		
1,800.00	1,744.94	1,854.29	1,809.20	8.55	8.84	-8.07	1,000.49	1,800.47	1,729.63	1,714.57	15.05	114.890		
1,900.00	1,832.39	1,937.25	1,888.75	9.45	9.33	-9.40	1,017.89	1,784.69	1,676.49	1,660.51	15.98	104.942		
2,000.00	1,918.11	2,010.02	1,958.68	10.41	9.75	-10.72	1,032.77	1,771.11	1,621.00	1,604.15	16.85	96.198		
2,100.00	2,001.97	2,093.82	2,039.48	11.45	10.24	-12.36	1,049.08	1,756.01	1,563.29	1,545.49	17.80	87.843		
2,200.00	2,083.88	2,176.72	2,119.23	12.56	10.72	-14.23	1,065.32	1,740.27	1,502.83	1,484.07	18.77	80.077		
2,300.00	2,163.74	2,250.59	2,190.10	13.74	11.16	-16.23	1,080.15	1,725.63	1,440.12	1,420.38	19.74	72.969		
2,400.00	2,241.45	2,318.31	2,255.01	14.99	11.57	-18.38	1,093.89	1,712.07	1,375.58	1,354.86	20.72	66.378		
2,421.22	2,257.65	2,332.45	2,268.57	15.26	11.65	-18.87	1,096.76	1,709.24	1,361.68	1,340.74	20.94	65.021		
2,500.00	2,317.63	2,385.00	2,318.99	16.29	11.97	-20.31	1,107.30	1,698.80	1,310.23	1,288.47	21.76	60.214		
2,600.00	2,393.75	2,450.03	2,381.46	17.62	12.35	-22.19	1,120.11	1,686.07	1,245.88	1,223.03	22.85	54.519		
2,700.00	2,469.88	2,513.85	2,442.81	18.95	12.73	-24.17	1,132.64	1,673.80	1,182.89	1,158.86	24.02	49.238		
2,800.00	2,546.01	2,573.49	2,500.14	20.30	13.08	-26.16	1,144.61	1,662.46	1,121.60	1,096.32	25.28	44.373		
2,900.00	2,622.13	2,635.13	2,559.31	21.65	13.45	-28.38	1,157.38	1,650.85	1,062.37	1,035.71	26.66	39.852		
3,000.00	2,698.26	2,698.64	2,620.28	23.01	13.83	-30.83	1,170.69	1,639.11	1,005.39	977.20	28.18	35.675		
3,100.00	2,774.38	2,761.33	2,680.56	24.37	14.19	-33.40	1,183.84	1,627.96	951.02	921.19	29.83	31.878		
3,200.00	2,850.51	2,829.64	2,746.36	25.74	14.59	-36.36	1,198.06	1,616.40	899.60	867.93	31.67	28.403		
3,300.00	2,926.64	2,902.11	2,816.18	27.11	15.01	-39.75	1,212.99	1,603.92	851.07	817.36	33.71	25.245		
3,400.00	3,002.76	2,975.20	2,886.64	28.49	15.43	-43.40	1,227.65	1,591.25	805.87	769.94	35.93	22.431		
3,500.00	3,078.89	3,043.82	2,952.94	29.87	15.81	-47.03	1,241.04	1,579.60	764.74	726.50	38.24	19.999		
3,600.00	3,155.02	3,112.66	3,019.53	31.25	16.20	-50.86	1,254.30	1,568.28	728.57	687.90	40.66	17.917		
3,700.00	3,231.14	3,179.40	3,083.90	32.63	16.58	-54.80	1,267.43	1,556.53	698.19	655.06	43.13	16.187		
3,800.00	3,307.27	3,242.86	3,144.92	34.01	16.96	-58.74	1,280.31	1,544.77	674.81	629.26	45.54	14.817		
3,900.00	3,383.39	3,313.16	3,212.41	35.40	17.38	-63.23	1,294.77	1,531.47	659.13	611.22	47.91	13.757		
4,000.00	3,459.52	3,384.70	3,281.28	36.79	17.80	-67.87	1,308.87	1,518.18	650.94	600.87	50.07	13.001		
4,049.61	3,497.29	3,418.04	3,313.40	37.48	17.99	-70.03	1,315.39	1,512.07	649.90	598.91	50.99	12.746 CC, ES		
4,100.00	3,535.65	3,451.98	3,346.10	38.18	18.19	-72.24	1,322.04	1,505.88	650.97	599.12	51.84	12.556		
4,200.00	3,611.77	3,511.69	3,403.53	39.57	18.54	-76.11	1,334.02	1,494.79	659.70	606.56	53.15	12.413 SF		
4,300.00	3,687.90	3,575.42	3,464.63	40.96	18.92	-80.19	1,347.33	1,482.45	677.20	623.02	54.18	12.499		
4,400.00	3,764.02	3,647.13	3,533.44	42.35	19.36	-84.64	1,362.11	1,468.70	701.97	646.88	55.09	12.742		
4,500.00	3,840.15	3,721.94	3,605.41	43.74	19.79	-89.07	1,377.14	1,454.92	732.87	677.01	55.85	13.121		
4,600.00	3,916.28	3,787.28	3,668.37	45.13	20.18	-92.75	1,390.15	1,443.23	769.29	713.00	56.29	13.667		
4,700.00	3,992.40	3,851.21	3,729.87	46.53	20.55	-96.16	1,403.12	1,431.56	811.13	754.53	56.60	14.332		
4,800.00	4,068.53	3,916.72	3,792.84	47.92	20.94	-99.45	1,416.58	1,419.49	857.48	800.59	56.89	15.073		
4,900.00	4,144.66	3,984.94	3,858.39	49.32	21.34	-102.66	1,430.65	1,406.90	907.53	850.31	57.22	15.861		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	4,058.72	3,929.35	50.71	21.78	-105.89	1,445.69	1,393.39	960.48	902.83	57.65	16.660		
5,100.00	4,296.91	4,131.47	3,999.49	52.11	22.20	-108.84	1,460.00	1,380.47	1,015.42	957.35	58.07	17.487		
5,200.00	4,373.03	4,192.57	4,058.38	53.51	22.55	-111.15	1,471.99	1,369.42	1,072.76	1,014.48	58.28	18.407		
5,300.00	4,449.16	4,255.55	4,119.00	54.90	22.92	-113.38	1,484.42	1,357.70	1,132.36	1,073.81	58.55	19.341		
5,400.00	4,525.29	4,322.09	4,183.02	56.30	23.32	-115.58	1,497.48	1,345.08	1,193.77	1,134.86	58.91	20.265		
5,500.00	4,601.41	4,396.17	4,254.39	57.70	23.75	-117.86	1,511.52	1,331.09	1,256.33	1,196.90	59.43	21.141		
5,600.00	4,677.54	4,465.64	4,321.35	59.10	24.15	-119.81	1,524.91	1,318.31	1,319.86	1,259.97	59.89	22.037		
5,700.00	4,753.66	4,526.20	4,379.64	60.49	24.51	-121.37	1,537.17	1,307.40	1,384.44	1,324.20	60.24	22.982		
5,800.00	4,829.79	4,582.00	4,433.29	61.89	24.84	-122.73	1,548.27	1,296.79	1,450.42	1,389.90	60.52	23.965		
5,900.00	4,905.92	4,658.53	4,516.63	63.29	25.34	-124.72	1,564.69	1,280.30	1,517.03	1,455.67	61.36	24.724		
6,000.00	4,982.04	4,832.78	4,676.68	64.69	26.20	-128.19	1,590.63	1,254.30	1,581.27	1,517.95	63.32	24.972		
6,100.00	5,058.17	4,943.40	4,785.57	66.09	26.70	-130.37	1,604.10	1,240.21	1,643.68	1,579.37	64.31	25.559		
6,200.00	5,134.30	5,040.38	4,881.36	67.49	27.12	-132.13	1,614.86	1,229.58	1,705.34	1,640.25	65.09	26.200		
6,300.00	5,210.42	5,221.36	5,061.07	68.89	27.79	-135.19	1,630.35	1,215.48	1,765.14	1,698.49	66.65	26.483		
6,400.00	5,286.55	5,357.00	5,196.50	70.29	28.21	-137.38	1,636.12	1,210.65	1,821.60	1,754.07	67.53	26.973		
6,500.00	5,362.67	5,473.15	5,312.62	71.69	28.49	-139.20	1,637.60	1,209.14	1,876.65	1,808.50	68.14	27.540		
6,600.00	5,438.80	5,566.24	5,405.72	73.09	28.70	-140.60	1,637.50	1,209.12	1,931.25	1,862.67	68.58	28.161		
6,700.00	5,514.93	5,646.55	5,486.02	74.49	28.88	-141.74	1,637.51	1,209.56	1,986.06	1,917.11	68.95	28.805		
6,800.00	5,591.05	5,717.51	5,556.98	75.89	29.04	-142.71	1,637.44	1,209.85	2,041.52	1,972.25	69.27	29.471		
6,900.00	5,667.18	5,791.34	5,630.81	77.29	29.20	-143.67	1,637.31	1,210.01	2,097.66	2,028.05	69.61	30.133		
7,000.00	5,743.30	5,863.20	5,702.67	78.69	29.37	-144.57	1,637.24	1,210.06	2,154.39	2,084.44	69.95	30.797		
7,100.00	5,819.43	5,933.90	5,773.38	80.09	29.53	-145.41	1,637.22	1,209.95	2,211.74	2,141.44	70.30	31.462		
7,200.00	5,895.56	6,005.45	5,844.92	81.49	29.71	-146.22	1,637.46	1,209.68	2,269.69	2,199.03	70.66	32.119		
7,300.00	5,971.68	6,094.72	5,934.19	82.90	29.93	-147.19	1,637.83	1,209.54	2,327.85	2,256.69	71.16	32.715		
7,400.00	6,047.81	6,163.22	6,002.69	84.30	30.11	-147.89	1,638.18	1,209.51	2,386.26	2,314.74	71.52	33.365		
7,500.00	6,123.94	6,251.76	6,091.23	85.70	30.33	-148.75	1,638.95	1,209.47	2,445.03	2,372.99	72.03	33.942		
7,600.00	6,200.06	6,335.49	6,174.95	87.10	30.54	-149.52	1,639.86	1,209.93	2,503.60	2,431.07	72.53	34.519		
7,700.00	6,276.19	6,412.86	6,252.31	88.50	30.74	-150.20	1,640.78	1,210.42	2,562.39	2,489.40	72.98	35.109		
7,800.00	6,352.31	6,507.74	6,347.19	89.90	30.98	-151.00	1,641.78	1,211.16	2,621.34	2,547.77	73.57	35.632		
7,900.00	6,428.44	6,597.71	6,437.11	91.31	31.21	-151.70	1,643.71	1,212.87	2,679.57	2,605.43	74.14	36.141		
8,000.00	6,504.57	6,658.00	6,497.40	92.71	31.36	-152.16	1,644.42	1,213.69	2,738.46	2,663.95	74.50	36.757		
8,100.00	6,580.69	6,728.55	6,567.94	94.11	31.55	-152.69	1,645.23	1,214.35	2,797.90	2,722.96	74.94	37.336		
8,200.00	6,656.82	6,821.91	6,661.28	95.51	31.79	-153.35	1,646.70	1,215.42	2,857.36	2,781.81	75.55	37.822		
8,300.00	6,732.95	6,920.38	6,759.73	96.91	32.03	-154.04	1,646.75	1,217.32	2,916.43	2,840.27	76.16	38.293		
8,400.00	6,809.07	6,965.01	6,804.35	98.32	32.14	-154.35	1,646.73	1,218.24	2,975.70	2,899.28	76.42	38.940		
8,500.00	6,885.20	6,995.61	6,834.95	99.72	32.22	-154.55	1,646.81	1,218.36	3,036.29	2,959.72	76.57	39.655		
8,600.00	6,961.32	7,035.00	6,874.34	101.12	32.33	-154.81	1,647.01	1,217.83	3,098.21	3,021.43	76.78	40.352		
8,700.00	7,037.45	7,134.12	6,973.44	102.52	32.60	-155.42	1,647.89	1,216.25	3,160.67	3,083.19	77.48	40.796		
8,732.15	7,061.92	7,160.06	6,999.37	102.97	32.68	-155.57	1,648.13	1,216.04	3,180.57	3,102.91	77.65	40.959		
8,750.00	7,075.57	7,175.70	7,015.01	103.22	32.72	-159.08	1,648.26	1,215.92	3,191.63	3,113.87	77.76	41.043		
8,800.00	7,114.27	7,220.09	7,059.40	103.91	32.84	-169.16	1,648.54	1,215.65	3,222.73	3,144.65	78.08	41.275		
8,850.00	7,153.47	7,263.77	7,103.08	104.58	32.96	-179.44	1,648.77	1,215.46	3,253.81	3,175.41	78.40	41.504		
8,900.00	7,192.85	7,307.66	7,146.98	105.21	33.08	-170.33	1,649.04	1,215.33	3,284.63	3,205.90	78.73	41.723		
8,950.00	7,232.12	7,357.41	7,196.72	105.80	33.22	-160.43	1,649.32	1,215.29	3,314.93	3,235.82	79.10	41.907		
9,000.00	7,270.99	7,408.54	7,247.85	106.35	33.36	-151.10	1,649.45	1,215.45	3,344.44	3,264.95	79.49	42.073		
9,050.00	7,309.16	7,445.29	7,284.59	106.85	33.45	-142.37	1,649.48	1,215.63	3,373.07	3,293.30	79.78	42.282		
9,100.00	7,346.32	7,480.36	7,319.67	107.30	33.55	-134.43	1,649.51	1,215.77	3,400.74	3,320.68	80.06	42.479		
9,150.00	7,382.22	7,514.74	7,354.05	107.69	33.63	-127.30	1,649.54	1,215.90	3,427.29	3,346.94	80.35	42.657		
9,200.00	7,416.56	7,549.35	7,388.66	108.02	33.72	-121.02	1,649.50	1,216.02	3,452.58	3,371.93	80.65	42.811		
9,250.00	7,449.09	7,582.27	7,421.58	108.29	33.81	-115.51	1,649.39	1,216.14	3,476.49	3,395.53	80.95	42.946		
9,300.00	7,479.56	7,613.35	7,452.66	108.51	33.89	-110.71	1,649.22	1,216.26	3,498.91	3,417.65	81.26	43.058		
9,350.00	7,507.74	7,642.23	7,481.53	108.68	33.96	-106.58	1,649.08	1,216.38	3,519.77	3,438.19	81.58	43.147		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,533.41	7,668.52	7,507.82	108.79	34.03	103.03	1,648.96	1,216.48	3,538.98	3,457.08	81.90	43.210		
9,450.00	7,556.39	7,692.02	7,531.32	108.86	34.09	100.00	1,648.88	1,216.58	3,556.50	3,474.26	82.24	43.247		
9,500.00	7,576.48	7,714.20	7,553.50	108.88	34.15	97.48	1,648.80	1,216.68	3,572.26	3,489.66	82.60	43.250		
9,550.00	7,593.55	7,733.65	7,572.96	108.86	34.20	95.40	1,648.70	1,216.78	3,586.21	3,503.25	82.97	43.224		
9,600.00	7,607.46	7,749.71	7,589.01	108.80	34.24	93.70	1,648.60	1,216.86	3,598.33	3,514.97	83.35	43.169		
9,650.00	7,618.11	7,762.19	7,601.50	108.71	34.27	92.36	1,648.51	1,216.94	3,608.56	3,524.81	83.75	43.085		
9,700.00	7,625.41	7,770.97	7,610.27	108.59	34.29	91.37	1,648.44	1,216.99	3,616.90	3,532.73	84.17	42.973		
9,750.00	7,629.30	7,775.92	7,615.22	108.45	34.30	90.69	1,648.39	1,217.02	3,623.31	3,538.72	84.59	42.832		
9,781.81	7,630.00	7,777.04	7,616.34	108.35	34.31	90.42	1,648.38	1,217.03	3,626.37	3,541.50	84.87	42.728		
9,800.00	7,630.00	7,777.22	7,616.53	108.29	34.31	90.42	1,648.38	1,217.03	3,627.94	3,542.91	85.03	42.666		
9,900.00	7,630.00	7,778.25	7,617.55	107.97	34.31	90.44	1,648.37	1,217.04	3,638.18	3,552.26	85.92	42.342		
10,000.00	7,630.00	7,779.29	7,618.60	107.67	34.31	90.45	1,648.36	1,217.05	3,651.13	3,564.31	86.83	42.049		
10,100.00	7,630.00	7,780.35	7,619.66	107.38	34.32	90.47	1,648.35	1,217.05	3,666.77	3,579.03	87.74	41.790		
10,200.00	7,630.00	7,781.43	7,620.74	107.10	34.32	90.49	1,648.34	1,217.06	3,685.05	3,596.39	88.66	41.563		
10,300.00	7,630.00	7,782.53	7,621.83	106.84	34.32	90.50	1,648.33	1,217.07	3,705.94	3,616.37	89.58	41.372		
10,400.00	7,630.00	7,783.65	7,622.95	106.59	34.32	90.52	1,648.32	1,217.07	3,729.40	3,638.91	90.49	41.214		
10,500.00	7,630.00	7,784.78	7,624.08	106.35	34.33	90.54	1,648.31	1,217.08	3,755.37	3,663.98	91.39	41.092		
10,600.00	7,630.00	7,785.94	7,625.24	106.13	34.33	90.56	1,648.30	1,217.09	3,783.81	3,691.53	92.28	41.004		
10,700.00	7,630.00	7,787.11	7,626.42	105.92	34.33	90.58	1,648.29	1,217.10	3,814.66	3,721.50	93.15	40.950		
10,800.00	7,630.00	7,788.31	7,627.62	105.72	34.34	90.60	1,648.28	1,217.11	3,847.86	3,753.85	94.01	40.930		
10,900.00	7,630.00	7,789.53	7,628.83	105.54	34.34	90.62	1,648.27	1,217.11	3,883.35	3,788.50	94.85	40.942		
11,000.00	7,630.00	7,790.77	7,630.08	105.37	34.34	90.64	1,648.26	1,217.12	3,921.07	3,825.40	95.67	40.987		
11,100.00	7,630.00	7,792.04	7,631.34	105.21	34.35	90.66	1,648.24	1,217.13	3,960.96	3,864.50	96.46	41.063		
11,200.00	7,630.00	7,793.33	7,632.63	105.06	34.35	90.68	1,648.23	1,217.14	4,002.95	3,905.71	97.23	41.170		
11,300.00	7,630.00	7,794.64	7,633.94	104.93	34.35	90.70	1,648.22	1,217.15	4,046.97	3,948.99	97.98	41.306		
11,400.00	7,630.00	7,795.98	7,635.28	104.82	34.36	90.72	1,648.20	1,217.16	4,092.96	3,994.26	98.70	41.470		
11,500.00	7,630.00	7,797.34	7,636.64	104.72	34.36	90.74	1,648.19	1,217.17	4,140.86	4,041.47	99.39	41.661		
11,600.00	7,630.00	7,798.73	7,638.03	104.63	34.36	90.76	1,648.17	1,217.18	4,190.59	4,090.53	100.06	41.879		
11,700.00	7,630.00	7,800.15	7,639.45	104.55	34.37	90.78	1,648.16	1,217.19	4,242.11	4,141.40	100.71	42.123		
11,800.00	7,630.00	7,801.60	7,640.90	104.50	34.37	90.81	1,648.14	1,217.20	4,295.33	4,194.00	101.33	42.390		
11,900.00	7,630.00	7,803.07	7,642.37	104.45	34.37	90.83	1,648.13	1,217.21	4,350.19	4,248.27	101.92	42.681		
12,000.00	7,630.00	7,804.57	7,643.88	104.43	34.38	90.85	1,648.11	1,217.22	4,406.65	4,304.16	102.49	42.994		
12,100.00	7,630.00	7,806.11	7,645.41	104.42	34.38	90.88	1,648.10	1,217.23	4,464.63	4,361.59	103.04	43.329		
12,200.00	7,630.00	7,807.68	7,646.98	104.42	34.39	90.90	1,648.08	1,217.24	4,524.08	4,420.51	103.56	43.684		
12,300.00	7,630.00	7,809.27	7,648.58	104.45	34.39	90.93	1,648.06	1,217.26	4,584.93	4,480.87	104.06	44.059		
12,400.00	7,630.00	7,810.91	7,650.21	104.49	34.39	90.95	1,648.04	1,217.27	4,647.15	4,542.60	104.54	44.452		
12,500.00	7,630.00	7,812.57	7,651.87	104.55	34.40	90.98	1,648.02	1,217.28	4,710.66	4,605.66	105.00	44.863		
12,600.00	7,630.00	7,804.74	7,644.04	104.63	34.38	90.86	1,648.12	1,217.22	4,775.44	4,670.04	105.40	45.309		
12,700.00	7,630.00	7,805.54	7,644.84	104.73	34.38	90.87	1,648.11	1,217.22	4,841.40	4,735.59	105.81	45.755		
12,800.00	7,630.00	7,806.34	7,645.64	104.85	34.38	90.88	1,648.10	1,217.23	4,908.51	4,802.31	106.21	46.217		
12,900.00	7,630.00	7,807.14	7,646.44	104.99	34.38	90.89	1,648.09	1,217.23	4,976.73	4,870.15	106.58	46.693		
13,000.00	7,630.00	7,807.94	7,647.24	105.15	34.39	90.91	1,648.09	1,217.24	5,046.01	4,939.07	106.94	47.185		
13,100.00	7,630.00	7,808.73	7,648.04	105.34	34.39	90.92	1,648.08	1,217.24	5,116.31	5,009.02	107.28	47.689		
13,200.00	7,630.00	7,809.53	7,648.83	105.56	34.39	90.93	1,648.07	1,217.25	5,187.58	5,079.96	107.61	48.207		
13,300.00	7,630.00	7,810.32	7,649.62	105.80	34.39	90.95	1,648.06	1,217.25	5,259.78	5,151.86	107.92	48.737		
13,400.00	7,630.00	7,811.11	7,650.41	106.06	34.39	90.96	1,648.05	1,217.26	5,332.88	5,224.67	108.22	49.279		
13,500.00	7,630.00	7,811.89	7,651.19	106.36	34.40	90.97	1,648.05	1,217.26	5,406.85	5,298.35	108.50	49.833		
13,600.00	7,630.00	7,812.68	7,651.98	106.68	34.40	90.98	1,648.04	1,217.27	5,481.64	5,372.87	108.77	50.397		
13,700.00	7,630.00	7,813.46	7,652.76	107.03	34.40	91.00	1,648.03	1,217.27	5,557.22	5,448.19	109.03	50.972		
13,800.00	7,630.00	7,814.24	7,653.54	107.42	34.40	91.01	1,648.02	1,217.28	5,633.56	5,524.29	109.27	51.556		
13,900.00	7,630.00	7,815.01	7,654.31	107.83	34.40	91.02	1,648.02	1,217.28	5,710.64	5,601.13	109.50	52.150		
14,000.00	7,630.00	7,815.79	7,655.09	108.28	34.41	91.03	1,648.01	1,217.29	5,788.41	5,678.69	109.73	52.754		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,100.00	7,630.00	7,816.56	7,655.86	108.77	34.41	91.04	1,648.00	1,217.29	5,866.86	5,756.92	109.94	53.365		
14,200.00	7,630.00	7,817.33	7,656.63	109.29	34.41	91.06	1,647.99	1,217.30	5,945.96	5,835.82	110.14	53.986		
14,300.00	7,630.00	7,818.10	7,657.40	109.84	34.41	91.07	1,647.99	1,217.30	6,025.67	5,915.34	110.33	54.614		
14,400.00	7,630.00	7,818.86	7,658.16	110.43	34.41	91.08	1,647.98	1,217.30	6,105.99	5,995.47	110.52	55.250		
14,500.00	7,630.00	7,819.63	7,658.93	111.06	34.42	91.09	1,647.97	1,217.31	6,186.87	6,076.18	110.69	55.893		
14,600.00	7,630.00	7,820.39	7,659.69	111.72	34.42	91.10	1,647.97	1,217.31	6,268.31	6,157.45	110.86	56.543		
14,700.00	7,630.00	7,821.15	7,660.45	112.42	34.42	91.12	1,647.96	1,217.32	6,350.28	6,239.26	111.02	57.200		
14,800.00	7,630.00	7,821.90	7,661.20	113.16	34.42	91.13	1,647.95	1,217.32	6,432.76	6,321.59	111.17	57.863		
14,900.00	7,630.00	7,822.66	7,661.96	113.94	34.42	91.14	1,647.94	1,217.33	6,515.73	6,404.41	111.32	58.532		
15,000.00	7,630.00	7,823.41	7,662.71	114.75	34.43	91.15	1,647.94	1,217.33	6,599.17	6,487.71	111.46	59.207		
15,100.00	7,630.00	7,824.16	7,663.46	115.60	34.43	91.16	1,647.93	1,217.33	6,683.07	6,571.47	111.59	59.888		
15,200.00	7,630.00	7,824.91	7,664.21	116.48	34.43	91.18	1,647.92	1,217.34	6,767.40	6,655.68	111.72	60.575		
15,300.00	7,630.00	7,825.65	7,664.95	117.40	34.43	91.19	1,647.92	1,217.34	6,852.15	6,740.31	111.84	61.266		
15,400.00	7,630.00	7,826.40	7,665.70	118.35	34.43	91.20	1,647.91	1,217.35	6,937.31	6,825.35	111.96	61.962		
15,500.00	7,630.00	7,827.14	7,666.44	119.34	34.43	91.21	1,647.90	1,217.35	7,022.87	6,910.79	112.07	62.664		
15,600.00	7,630.00	7,827.88	7,667.18	120.35	34.44	91.22	1,647.89	1,217.35	7,108.80	6,996.62	112.18	63.369		
15,700.00	7,630.00	7,828.62	7,667.92	121.40	34.44	91.24	1,647.89	1,217.36	7,195.09	7,082.80	112.28	64.080		
15,800.00	7,630.00	7,829.35	7,668.65	122.48	34.44	91.25	1,647.88	1,217.36	7,281.73	7,169.35	112.38	64.794		
15,900.00	7,630.00	7,830.08	7,669.38	123.58	34.44	91.26	1,647.87	1,217.37	7,368.71	7,256.23	112.48	65.512		
16,000.00	7,630.00	7,830.82	7,670.12	124.71	34.44	91.27	1,647.87	1,217.37	7,456.02	7,343.45	112.57	66.235		
16,100.00	7,630.00	7,831.54	7,670.84	125.87	34.45	91.28	1,647.86	1,217.37	7,543.64	7,430.98	112.66	66.961		
16,200.00	7,630.00	7,832.27	7,671.57	127.05	34.45	91.29	1,647.85	1,217.38	7,631.57	7,518.83	112.74	67.690		
16,300.00	7,630.00	7,833.00	7,672.30	128.26	34.45	91.30	1,647.85	1,217.38	7,719.79	7,606.97	112.82	68.423		
16,400.00	7,630.00	7,833.72	7,673.02	129.48	34.45	91.32	1,647.84	1,217.39	7,808.30	7,695.39	112.90	69.159		
16,500.00	7,630.00	7,834.44	7,673.74	130.73	34.45	91.33	1,647.83	1,217.39	7,897.07	7,784.10	112.98	69.899		
16,600.00	7,630.00	7,835.16	7,674.46	132.00	34.46	91.34	1,647.83	1,217.39	7,986.12	7,873.07	113.05	70.641		
16,700.00	7,630.00	7,835.88	7,675.18	133.29	34.46	91.35	1,647.82	1,217.40	8,075.42	7,962.30	113.12	71.386		
16,800.00	7,630.00	7,836.59	7,675.89	134.59	34.46	91.36	1,647.81	1,217.40	8,164.97	8,051.78	113.19	72.135		
16,900.00	7,630.00	7,837.30	7,676.60	135.91	34.46	91.37	1,647.81	1,217.40	8,254.76	8,141.50	113.26	72.885		
17,000.00	7,630.00	7,838.01	7,677.31	137.25	34.46	91.38	1,647.80	1,217.41	8,344.78	8,231.46	113.32	73.639		
17,100.00	7,630.00	7,838.72	7,678.02	138.61	34.46	91.40	1,647.79	1,217.41	8,435.02	8,321.64	113.38	74.394		
17,200.00	7,630.00	7,839.43	7,678.73	139.97	34.47	91.41	1,647.79	1,217.41	8,525.48	8,412.04	113.44	75.153		
17,300.00	7,630.00	7,840.14	7,679.43	141.36	34.47	91.42	1,647.78	1,217.42	8,616.16	8,502.66	113.50	75.913		
17,400.00	7,630.00	7,840.84	7,680.14	142.75	34.47	91.43	1,647.77	1,217.42	8,707.04	8,593.48	113.56	76.676		
17,500.00	7,630.00	7,841.54	7,680.84	144.16	34.47	91.44	1,647.77	1,217.43	8,798.11	8,684.50	113.61	77.440		
17,600.00	7,630.00	7,842.24	7,681.54	145.58	34.47	91.45	1,647.76	1,217.43	8,889.38	8,775.71	113.66	78.207		
17,700.00	7,630.00	7,842.94	7,682.23	147.01	34.48	91.46	1,647.76	1,217.43	8,980.83	8,867.12	113.72	78.976		
17,800.00	7,630.00	7,843.63	7,682.93	148.45	34.48	91.47	1,647.75	1,217.44	9,072.47	8,958.70	113.77	79.746		
17,900.00	7,630.00	7,844.32	7,683.62	149.91	34.48	91.48	1,647.74	1,217.44	9,164.27	9,050.46	113.82	80.518		
18,000.00	7,630.00	7,845.02	7,684.31	151.37	34.48	91.50	1,647.74	1,217.44	9,256.25	9,142.39	113.86	81.292		
18,100.00	7,630.00	7,845.71	7,685.00	152.84	34.48	91.51	1,647.73	1,217.44	9,348.40	9,234.48	113.91	82.068		
18,200.00	7,630.00	7,846.39	7,685.69	154.32	34.48	91.52	1,647.72	1,217.45	9,440.70	9,326.74	113.96	82.845		
18,300.00	7,630.00	7,847.08	7,686.38	155.81	34.49	91.53	1,647.72	1,217.45	9,533.16	9,419.15	114.00	83.623		
18,400.00	7,630.00	7,847.76	7,687.06	157.31	34.49	91.54	1,647.71	1,217.45	9,625.76	9,511.72	114.05	84.403		
18,500.00	7,630.00	7,848.44	7,687.74	158.81	34.49	91.55	1,647.71	1,217.46	9,718.52	9,604.43	114.09	85.184		
18,600.00	7,630.00	7,849.12	7,688.42	160.32	34.49	91.56	1,647.70	1,217.46	9,811.42	9,697.29	114.13	85.967		
18,700.00	7,630.00	7,849.80	7,689.10	161.84	34.49	91.57	1,647.69	1,217.46	9,904.45	9,790.28	114.17	86.750		
18,800.00	7,630.00	7,850.48	7,689.78	163.37	34.49	91.58	1,647.69	1,217.47	9,997.62	9,883.41	114.21	87.535		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.44	-2,061.78	2,102.43	2,944.96					
100.00	100.00	75.52	75.52	0.13	0.12	134.44	-2,061.69	2,102.25	2,944.53	2,944.27	0.26	N/A		
200.00	200.00	196.65	196.64	0.49	0.47	134.44	-2,060.86	2,101.52	2,943.61	2,942.65	0.96	3,064.501		
300.00	300.00	872.43	865.02	0.85	3.21	133.38	-1,974.57	2,089.43	2,937.80	2,933.82	3.98	737.829		
400.00	400.00	1,203.68	1,180.05	1.21	5.10	132.14	-1,874.34	2,071.65	2,911.59	2,905.73	5.86	497.125		
500.00	499.98	1,358.07	1,323.83	1.56	6.12	65.31	-1,818.94	2,062.18	2,881.54	2,874.57	6.96	413.754		
600.00	599.84	1,503.63	1,458.40	1.92	7.12	65.35	-1,764.25	2,052.88	2,849.17	2,841.10	8.06	353.279		
700.00	699.45	1,624.51	1,569.13	2.29	8.00	65.59	-1,716.53	2,044.36	2,813.53	2,804.46	9.07	310.253		
800.00	798.70	1,718.92	1,655.33	2.67	8.69	66.01	-1,678.53	2,038.00	2,776.37	2,766.42	9.95	278.956		
900.00	897.47	1,806.17	1,735.00	3.07	9.34	66.55	-1,643.51	2,031.75	2,737.73	2,726.91	10.82	253.114		
1,000.00	995.62	1,873.00	1,796.24	3.50	9.83	67.21	-1,617.15	2,027.28	2,698.60	2,687.01	11.59	232.829		
1,100.00	1,093.06	1,978.21	1,892.75	3.96	10.61	67.92	-1,575.83	2,020.33	2,658.46	2,645.87	12.59	211.122		
1,200.00	1,189.64	2,038.87	1,948.58	4.46	11.05	68.77	-1,552.49	2,016.14	2,617.39	2,604.01	13.38	195.582		
1,300.00	1,285.27	2,133.12	2,035.68	5.00	11.73	69.73	-1,517.13	2,009.43	2,575.73	2,561.36	14.37	179.234		
1,400.00	1,379.82	2,247.94	2,141.41	5.60	12.57	70.87	-1,473.12	2,001.05	2,532.33	2,516.83	15.50	163.427		
1,500.00	1,473.17	2,356.87	2,241.30	6.25	13.38	72.14	-1,430.49	1,992.65	2,487.10	2,470.48	16.63	149.576		
1,600.00	1,565.21	2,426.94	2,305.64	6.95	13.90	73.43	-1,403.30	1,987.07	2,441.02	2,423.41	17.61	138.587		
1,700.00	1,655.84	2,492.06	2,365.65	7.72	14.38	74.78	-1,378.54	1,981.94	2,394.76	2,376.14	18.62	128.613		
1,800.00	1,744.94	2,589.05	2,455.28	8.55	15.09	76.46	-1,342.24	1,974.59	2,348.46	2,328.65	19.81	118.530		
1,900.00	1,832.39	2,678.22	2,536.88	9.45	15.75	78.17	-1,306.77	1,968.74	2,300.71	2,279.68	21.04	109.374		
2,000.00	1,918.11	2,755.96	2,608.11	10.41	16.33	79.92	-1,276.00	1,963.97	2,253.01	2,230.74	22.26	101.192		
2,100.00	2,001.97	2,851.80	2,696.16	11.45	17.05	82.02	-1,238.80	1,956.99	2,204.98	2,181.37	23.60	93.426		
2,200.00	2,083.88	2,957.25	2,793.04	12.56	17.84	84.47	-1,198.29	1,947.39	2,156.25	2,131.25	25.00	86.248		
2,300.00	2,163.74	3,050.22	2,877.85	13.74	18.55	86.90	-1,161.07	1,939.22	2,107.06	2,080.65	26.41	79.771		
2,400.00	2,241.45	3,154.01	2,972.11	14.99	19.36	89.65	-1,118.60	1,930.12	2,058.05	2,030.15	27.90	73.760		
2,421.22	2,257.65	3,181.77	2,997.18	15.26	19.58	90.36	-1,106.98	1,927.53	2,047.56	2,019.33	28.23	72.525		
2,500.00	2,317.63	3,230.08	3,040.78	16.29	19.96	91.19	-1,086.67	1,922.94	2,008.91	1,979.55	29.36	68.415		
2,600.00	2,393.75	3,287.00	3,092.40	17.62	20.41	92.20	-1,063.25	1,917.73	1,961.51	1,930.69	30.82	63.649		
2,700.00	2,469.88	3,349.26	3,149.02	18.95	20.90	93.33	-1,037.93	1,912.36	1,915.86	1,883.56	32.30	59.313		
2,800.00	2,546.01	3,412.84	3,206.89	20.30	21.39	94.51	-1,012.10	1,907.27	1,871.80	1,837.99	33.80	55.371		
2,900.00	2,622.13	3,473.34	3,262.12	21.65	21.85	95.66	-987.80	1,902.79	1,829.62	1,794.31	35.32	51.798		
3,000.00	2,698.26	3,548.17	3,330.59	23.01	22.42	97.13	-958.15	1,897.13	1,789.22	1,752.38	36.85	48.556		
3,100.00	2,774.38	3,663.25	3,435.48	24.37	23.31	99.48	-911.73	1,887.96	1,749.77	1,711.42	38.34	45.634		
3,200.00	2,850.51	3,723.54	3,490.10	25.74	23.78	100.73	-886.58	1,883.55	1,711.12	1,671.24	39.88	42.907		
3,300.00	2,926.64	3,785.37	3,546.35	27.11	24.26	102.04	-861.26	1,879.26	1,674.85	1,633.43	41.42	40.437		
3,400.00	3,002.76	3,850.00	3,605.36	28.49	24.76	103.46	-835.32	1,874.60	1,640.92	1,597.97	42.95	38.205		
3,500.00	3,078.89	3,910.53	3,660.85	29.87	25.21	104.82	-811.56	1,870.09	1,609.57	1,565.08	44.49	36.182		
3,600.00	3,155.02	3,981.92	3,726.53	31.25	25.75	106.47	-784.11	1,864.82	1,580.94	1,534.95	45.99	34.376		
3,700.00	3,231.14	4,067.14	3,804.72	32.63	26.39	108.46	-750.67	1,859.23	1,554.15	1,506.70	47.44	32.758		
3,800.00	3,307.27	4,141.99	3,873.34	34.01	26.95	110.24	-721.20	1,854.32	1,529.54	1,480.63	48.91	31.271		
3,900.00	3,383.39	4,218.39	3,943.41	35.40	27.53	112.11	-691.21	1,848.94	1,507.35	1,457.00	50.36	29.934		
4,000.00	3,459.52	4,277.41	3,997.64	36.79	27.97	113.57	-668.31	1,844.63	1,488.05	1,436.20	51.85	28.699		
4,100.00	3,535.65	4,336.04	4,051.82	38.18	28.40	115.05	-646.28	1,840.53	1,472.40	1,419.08	53.33	27.612		
4,200.00	3,611.77	4,412.27	4,122.39	39.57	28.95	116.98	-617.93	1,835.43	1,459.87	1,405.17	54.71	26.685		
4,300.00	3,687.90	4,487.10	4,191.67	40.96	29.49	118.89	-590.13	1,830.30	1,450.17	1,394.10	56.07	25.866		
4,400.00	3,764.02	4,565.55	4,264.30	42.35	30.06	120.93	-561.02	1,824.46	1,443.36	1,385.98	57.38	25.156		
4,500.00	3,840.15	4,648.30	4,340.79	43.74	30.66	123.07	-530.02	1,818.58	1,439.20	1,380.57	58.63	24.547		
4,600.00	3,916.28	4,729.48	4,415.68	45.13	31.26	125.19	-499.22	1,812.78	1,437.61	1,377.76	59.85	24.020		
4,606.89	3,921.52	4,734.73	4,420.52	45.23	31.30	125.32	-497.22	1,812.43	1,437.61	1,377.67	59.93	23.986 CC, ES		
4,700.00	3,992.40	4,806.45	4,486.71	46.53	31.83	127.17	-469.95	1,808.02	1,438.86	1,377.81	61.05	23.569		
4,800.00	4,068.53	4,858.62	4,535.02	47.92	32.20	128.51	-450.56	1,804.74	1,443.67	1,381.37	62.31	23.170		
4,900.00	4,144.66	4,909.42	4,582.30	49.32	32.56	129.82	-432.33	1,801.14	1,452.55	1,389.06	63.49	22.877		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	4,955.10	4,625.14	50.71	32.86	130.99	-416.80	1,797.83	1,465.76	1,401.15	64.61	22.687		
5,100.00	4,296.91	5,004.96	4,672.24	52.11	33.19	132.24	-400.86	1,794.27	1,483.23	1,417.61	65.62	22.603 SF		
5,200.00	4,373.03	5,064.83	4,729.12	53.51	33.57	133.71	-382.59	1,790.36	1,504.31	1,437.78	66.53	22.610		
5,300.00	4,449.16	5,122.02	4,783.73	54.90	33.91	135.07	-365.93	1,787.04	1,528.69	1,461.32	67.37	22.690		
5,400.00	4,525.29	5,175.00	4,834.57	56.30	34.23	136.30	-351.29	1,784.19	1,556.34	1,488.20	68.14	22.840		
5,500.00	4,601.41	5,237.13	4,894.45	57.70	34.57	137.70	-335.04	1,781.09	1,587.01	1,518.17	68.84	23.055		
5,600.00	4,677.54	5,293.92	4,949.43	59.10	34.88	138.93	-321.03	1,778.51	1,620.50	1,551.03	69.47	23.327		
5,700.00	4,753.66	5,348.56	5,002.60	60.49	35.15	140.06	-308.63	1,776.51	1,656.77	1,586.73	70.04	23.654		
5,800.00	4,829.79	5,400.33	5,053.24	61.89	35.40	141.08	-297.95	1,775.05	1,695.70	1,625.15	70.55	24.035		
5,900.00	4,905.92	5,459.00	5,110.91	63.29	35.66	142.18	-287.26	1,773.81	1,737.25	1,666.21	71.04	24.454		
6,000.00	4,982.04	5,499.03	5,150.41	64.69	35.82	142.89	-280.83	1,773.12	1,781.22	1,709.82	71.40	24.946		
6,100.00	5,058.17	5,553.00	5,203.84	66.09	36.03	143.80	-273.29	1,772.23	1,827.63	1,755.84	71.80	25.456		
6,200.00	5,134.30	5,602.57	5,253.05	67.49	36.20	144.60	-267.27	1,771.48	1,876.06	1,803.94	72.13	26.011		
6,300.00	5,210.42	5,659.16	5,309.30	68.89	36.39	145.47	-261.17	1,770.73	1,926.16	1,853.69	72.48	26.577		
6,400.00	5,286.55	5,711.61	5,361.51	70.29	36.55	146.24	-256.29	1,770.02	1,977.93	1,905.15	72.78	27.177		
6,500.00	5,362.67	5,760.73	5,410.48	71.69	36.69	146.93	-252.46	1,769.28	2,031.34	1,958.30	73.04	27.811		
6,600.00	5,438.80	5,805.44	5,455.11	73.09	36.81	147.52	-249.87	1,768.61	2,086.48	2,013.23	73.25	28.483		
6,700.00	5,514.93	5,854.19	5,503.81	74.49	36.93	148.13	-248.04	1,767.91	2,143.26	2,069.78	73.49	29.166		
6,800.00	5,591.05	5,912.51	5,562.11	75.89	37.06	148.82	-246.52	1,767.01	2,201.22	2,127.43	73.78	29.833		
6,900.00	5,667.18	5,977.79	5,627.38	77.29	37.20	149.55	-245.48	1,766.04	2,260.08	2,185.95	74.14	30.484		
7,000.00	5,743.30	6,048.68	5,698.26	78.69	37.34	150.29	-245.00	1,765.39	2,319.53	2,244.98	74.55	31.115		
7,100.00	5,819.43	6,124.82	5,774.40	80.09	37.49	151.05	-244.57	1,764.68	2,379.34	2,304.35	75.00	31.725		
7,200.00	5,895.56	6,215.29	5,864.85	81.49	37.67	151.91	-243.77	1,763.97	2,439.19	2,363.62	75.58	32.274		
7,300.00	5,971.68	6,299.12	5,948.68	82.90	37.84	152.67	-242.70	1,763.52	2,498.96	2,422.85	76.11	32.835		
7,400.00	6,047.81	6,374.60	6,024.15	84.30	38.00	153.32	-241.65	1,763.20	2,558.85	2,482.28	76.57	33.418		
7,500.00	6,123.94	6,456.24	6,105.78	85.70	38.18	154.00	-240.61	1,762.98	2,618.96	2,541.87	77.09	33.972		
7,600.00	6,200.06	6,532.35	6,181.88	87.10	38.34	154.60	-239.47	1,762.86	2,679.09	2,601.52	77.57	34.538		
7,700.00	6,276.19	6,599.89	6,249.42	88.50	38.49	155.12	-238.55	1,762.58	2,739.64	2,661.66	77.98	35.134		
7,800.00	6,352.31	6,682.49	6,332.01	89.90	38.67	155.72	-237.60	1,762.36	2,800.39	2,721.87	78.52	35.665		
7,900.00	6,428.44	6,759.95	6,409.47	91.31	38.84	156.26	-236.74	1,762.34	2,861.20	2,782.18	79.02	36.207		
8,000.00	6,504.57	6,837.17	6,486.68	92.71	39.01	156.77	-235.80	1,762.28	2,922.16	2,842.63	79.53	36.744		
8,100.00	6,580.69	6,913.95	6,563.46	94.11	39.18	157.27	-234.86	1,762.23	2,983.24	2,903.21	80.03	37.274		
8,200.00	6,656.82	6,989.54	6,639.04	95.51	39.35	157.74	-233.95	1,762.20	3,044.47	2,963.94	80.53	37.803		
8,300.00	6,732.95	7,063.29	6,712.79	96.91	39.51	158.17	-233.31	1,762.32	3,105.89	3,024.86	81.03	38.332		
8,400.00	6,809.07	7,164.42	6,813.91	98.32	39.73	158.73	-232.44	1,762.93	3,167.16	3,085.41	81.75	38.742		
8,500.00	6,885.20	7,250.93	6,900.41	99.72	39.92	159.19	-231.61	1,763.98	3,228.14	3,145.78	82.36	39.197		
8,600.00	6,961.32	7,353.71	7,003.17	101.12	40.15	159.69	-230.74	1,766.06	3,288.79	3,205.69	83.10	39.575		
8,700.00	7,037.45	7,435.40	7,084.83	102.52	40.32	160.06	-230.17	1,768.26	3,349.21	3,265.53	83.68	40.025		
8,732.15	7,061.92	7,457.25	7,106.67	102.97	40.37	160.16	-230.05	1,768.89	3,368.63	3,284.81	83.83	40.185		
8,750.00	7,075.57	7,468.53	7,117.94	103.22	40.39	157.15	-230.00	1,769.21	3,379.30	3,295.40	83.90	40.276		
8,800.00	7,114.27	7,500.45	7,149.85	103.91	40.46	148.75	-229.92	1,770.10	3,407.72	3,323.61	84.11	40.515		
8,850.00	7,153.47	7,532.70	7,182.08	104.58	40.53	140.45	-229.91	1,770.96	3,433.86	3,349.55	84.31	40.727		
8,900.00	7,192.85	7,565.27	7,214.65	105.21	40.60	132.39	-229.99	1,771.81	3,457.56	3,373.06	84.51	40.914		
8,950.00	7,232.12	7,597.79	7,247.15	105.80	40.66	124.73	-230.16	1,772.63	3,478.69	3,394.00	84.69	41.074		
9,000.00	7,270.99	7,631.00	7,280.35	106.35	40.73	117.64	-230.42	1,773.45	3,497.15	3,412.28	84.87	41.205		
9,050.00	7,309.16	7,658.02	7,307.36	106.85	40.78	111.17	-230.72	1,774.10	3,512.86	3,427.88	84.98	41.338		
9,100.00	7,346.32	7,685.29	7,334.63	107.30	40.84	105.45	-231.14	1,774.73	3,525.80	3,440.72	85.08	41.443		
9,150.00	7,382.22	7,711.75	7,361.07	107.69	40.89	100.50	-231.64	1,775.32	3,535.91	3,450.77	85.15	41.528		
9,200.00	7,416.56	7,745.01	7,394.31	108.02	40.95	96.40	-232.40	1,776.05	3,543.16	3,457.90	85.26	41.558		
9,250.00	7,449.09	7,784.81	7,434.09	108.29	41.03	93.12	-233.34	1,777.00	3,547.43	3,462.01	85.41	41.533		
9,300.00	7,479.56	7,822.41	7,471.67	108.51	41.10	90.51	-234.24	1,777.99	3,548.73	3,463.20	85.53	41.490		
9,350.00	7,507.74	7,838.24	7,487.49	108.68	41.13	88.27	-234.65	1,778.40	3,547.22	3,461.78	85.44	41.515		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,853.90	7,503.14	108.79	41.16	86.61	-235.09	1,778.76	3,543.01	3,457.67	85.34	41.516		
9,450.00	7,556.39	7,868.06	7,517.29	108.86	41.19	85.48	-235.51	1,779.05	3,536.15	3,450.93	85.22	41.497		
9,500.00	7,576.48	7,880.61	7,529.83	108.88	41.21	84.84	-235.90	1,779.28	3,526.72	3,441.65	85.07	41.457		
9,550.00	7,593.55	7,891.48	7,540.69	108.86	41.23	84.67	-236.26	1,779.46	3,514.79	3,429.89	84.90	41.397		
9,600.00	7,607.46	7,914.00	7,563.20	108.80	41.27	85.17	-237.05	1,779.78	3,500.51	3,415.66	84.86	41.251		
9,650.00	7,618.11	7,914.00	7,563.20	108.71	41.27	85.76	-237.05	1,779.78	3,483.86	3,399.26	84.61	41.177		
9,700.00	7,625.41	7,914.00	7,563.20	108.59	41.27	86.80	-237.05	1,779.78	3,465.06	3,380.69	84.37	41.070		
9,750.00	7,629.30	7,914.00	7,563.20	108.45	41.27	88.30	-237.05	1,779.78	3,444.21	3,360.05	84.16	40.927		
9,781.81	7,630.00	7,914.00	7,563.20	108.35	41.27	89.50	-237.05	1,779.78	3,429.94	3,345.90	84.03	40.816		
9,800.00	7,630.00	7,914.00	7,563.20	108.29	41.27	89.50	-237.05	1,779.78	3,421.60	3,337.63	83.97	40.749		
9,900.00	7,630.00	7,914.00	7,563.20	107.97	41.27	89.50	-237.05	1,779.78	3,377.13	3,293.50	83.64	40.378		
10,000.00	7,630.00	7,914.00	7,563.20	107.67	41.27	89.50	-237.05	1,779.78	3,335.08	3,251.71	83.37	40.005		
10,100.00	7,630.00	7,914.00	7,563.20	107.38	41.27	89.50	-237.05	1,779.78	3,295.52	3,212.36	83.16	39.628		
10,200.00	7,630.00	7,927.27	7,576.45	107.10	41.30	89.75	-237.54	1,779.92	3,258.51	3,175.33	83.18	39.172		
10,300.00	7,630.00	7,929.60	7,578.79	106.84	41.30	89.79	-237.62	1,779.94	3,224.20	3,141.03	83.17	38.767		
10,400.00	7,630.00	7,931.96	7,581.14	106.59	41.31	89.83	-237.71	1,779.96	3,192.66	3,109.41	83.25	38.352		
10,500.00	7,630.00	7,934.33	7,583.51	106.35	41.31	89.88	-237.80	1,779.98	3,163.96	3,080.54	83.42	37.928		
10,600.00	7,630.00	7,936.73	7,585.91	106.13	41.31	89.92	-237.89	1,780.00	3,138.18	3,054.49	83.69	37.496		
10,700.00	7,630.00	7,939.15	7,588.33	105.92	41.32	89.97	-237.99	1,780.02	3,115.40	3,031.33	84.07	37.058		
10,800.00	7,630.00	7,941.60	7,590.77	105.72	41.32	90.01	-238.08	1,780.04	3,095.68	3,011.14	84.54	36.616		
10,900.00	7,630.00	7,944.06	7,593.24	105.54	41.33	90.06	-238.17	1,780.06	3,079.08	2,993.96	85.12	36.174		
11,000.00	7,630.00	7,946.55	7,595.73	105.37	41.33	90.11	-238.27	1,780.07	3,065.65	2,979.87	85.78	35.737		
11,100.00	7,630.00	7,949.07	7,598.24	105.21	41.34	90.16	-238.37	1,780.09	3,055.43	2,968.90	86.54	35.308		
11,200.00	7,630.00	7,951.61	7,600.78	105.06	41.34	90.20	-238.47	1,780.10	3,048.46	2,961.09	87.37	34.893		
11,300.00	7,630.00	7,954.17	7,603.34	104.93	41.35	90.25	-238.57	1,780.12	3,044.75	2,956.49	88.26	34.496		
11,363.03	7,630.00	7,955.80	7,604.96	104.86	41.35	90.28	-238.63	1,780.13	3,044.10	2,955.24	88.87	34.255		
11,400.00	7,630.00	7,956.76	7,605.92	104.82	41.35	90.30	-238.67	1,780.13	3,044.33	2,955.11	89.22	34.123		
11,500.00	7,630.00	7,959.37	7,608.53	104.72	41.36	90.35	-238.77	1,780.14	3,047.18	2,956.96	90.22	33.776		
11,600.00	7,630.00	7,962.01	7,611.17	104.63	41.36	90.40	-238.88	1,780.15	3,053.30	2,962.05	91.25	33.461		
11,700.00	7,630.00	7,964.67	7,613.83	104.55	41.37	90.45	-238.99	1,780.16	3,062.68	2,970.37	92.31	33.179		
11,800.00	7,630.00	7,967.36	7,616.52	104.50	41.37	90.50	-239.09	1,780.17	3,075.27	2,981.89	93.38	32.934		
11,900.00	7,630.00	7,970.08	7,619.23	104.45	41.38	90.55	-239.20	1,780.18	3,091.05	2,996.60	94.45	32.727		
12,000.00	7,630.00	7,972.82	7,621.98	104.43	41.38	90.60	-239.32	1,780.18	3,109.96	3,014.44	95.52	32.559		
12,100.00	7,630.00	7,975.60	7,624.75	104.42	41.39	90.65	-239.43	1,780.19	3,131.95	3,035.38	96.57	32.432		
12,200.00	7,630.00	7,978.39	7,627.54	104.42	41.39	90.71	-239.54	1,780.19	3,156.95	3,059.35	97.60	32.345		
12,300.00	7,630.00	7,981.22	7,630.37	104.45	41.40	90.76	-239.66	1,780.19	3,184.89	3,086.28	98.61	32.299		
12,400.00	7,630.00	7,984.08	7,633.22	104.49	41.40	90.81	-239.78	1,780.19	3,215.70	3,116.11	99.58	32.292		
12,500.00	7,630.00	7,986.96	7,636.10	104.55	41.41	90.87	-239.90	1,780.19	3,249.28	3,148.76	100.52	32.325		
12,600.00	7,630.00	7,989.88	7,639.02	104.63	41.41	90.92	-240.02	1,780.19	3,285.57	3,184.15	101.42	32.395		
12,700.00	7,630.00	7,992.82	7,641.96	104.73	41.42	90.98	-240.15	1,780.18	3,324.47	3,222.19	102.28	32.503		
12,800.00	7,630.00	7,995.80	7,644.93	104.85	41.42	91.03	-240.27	1,780.18	3,365.88	3,262.78	103.10	32.647		
12,900.00	7,630.00	7,998.81	7,647.94	104.99	41.43	91.09	-240.40	1,780.17	3,409.72	3,305.85	103.88	32.825		
13,000.00	7,630.00	8,001.84	7,650.97	105.15	41.43	91.15	-240.53	1,780.16	3,455.90	3,351.29	104.61	33.036		
13,100.00	7,630.00	8,009.00	7,658.12	105.34	41.45	91.28	-240.84	1,780.14	3,504.32	3,399.00	105.33	33.271		
13,200.00	7,630.00	8,009.00	7,658.12	105.56	41.45	91.28	-240.84	1,780.14	3,554.89	3,448.93	105.96	33.549		
13,300.00	7,630.00	8,009.00	7,658.12	105.80	41.45	91.28	-240.84	1,780.14	3,607.52	3,500.96	106.56	33.856		
13,400.00	7,630.00	8,009.00	7,658.12	106.06	41.45	91.28	-240.84	1,780.14	3,662.12	3,555.01	107.11	34.189		
13,500.00	7,630.00	8,017.12	7,666.24	106.36	41.46	91.43	-241.20	1,780.09	3,718.60	3,610.93	107.67	34.536		
13,600.00	7,630.00	8,020.25	7,669.36	106.68	41.47	91.49	-241.33	1,780.07	3,776.88	3,668.71	108.17	34.915		
13,700.00	7,630.00	8,023.43	7,672.53	107.03	41.47	91.55	-241.48	1,780.05	3,836.89	3,728.25	108.64	35.318		
13,800.00	7,630.00	8,026.67	7,675.77	107.42	41.48	91.61	-241.62	1,780.02	3,898.53	3,789.45	109.07	35.743		
13,900.00	7,630.00	8,029.96	7,679.06	107.83	41.48	91.68	-241.78	1,779.99	3,961.73	3,852.25	109.48	36.188		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	8,033.32	7,682.42	108.28	41.49	91.74	-241.93	1,779.96	4,026.42	3,916.57	109.85	36.654		
14,100.00	7,630.00	8,333.38	7,981.30	108.77	41.95	97.33	-266.09	1,782.81	4,091.95	3,980.86	111.09	36.834		
14,200.00	7,630.00	8,336.37	7,984.28	109.29	41.96	97.39	-266.37	1,782.95	4,158.84	4,047.45	111.39	37.337		
14,300.00	7,630.00	8,339.26	7,987.15	109.84	41.96	97.44	-266.63	1,783.07	4,227.03	4,115.37	111.66	37.857		
14,400.00	7,630.00	8,342.05	7,989.93	110.43	41.97	97.49	-266.88	1,783.19	4,296.45	4,184.54	111.91	38.392		
14,500.00	7,630.00	8,344.74	7,992.61	111.06	41.97	97.54	-267.11	1,783.31	4,367.06	4,254.92	112.14	38.941		
14,600.00	7,630.00	8,347.35	7,995.20	111.72	41.97	97.59	-267.34	1,783.42	4,438.80	4,326.44	112.36	39.505		
14,700.00	7,630.00	8,349.87	7,997.71	112.42	41.98	97.64	-267.55	1,783.53	4,511.60	4,399.04	112.56	40.081		
14,800.00	7,630.00	8,352.31	8,000.14	113.16	41.98	97.68	-267.75	1,783.63	4,585.43	4,472.68	112.75	40.671		
14,900.00	7,630.00	8,354.67	8,002.49	113.94	41.99	97.73	-267.94	1,783.73	4,660.23	4,547.31	112.92	41.271		
15,000.00	7,630.00	8,386.00	8,033.72	114.75	42.03	98.31	-270.22	1,784.94	4,736.26	4,623.13	113.14	41.862		
15,100.00	7,630.00	8,386.00	8,033.72	115.60	42.03	98.31	-270.22	1,784.94	4,812.83	4,699.55	113.28	42.486		
15,200.00	7,630.00	8,386.00	8,033.72	116.48	42.03	98.31	-270.22	1,784.94	4,890.23	4,776.82	113.41	43.120		
15,300.00	7,630.00	8,386.00	8,033.72	117.40	42.03	98.31	-270.22	1,784.94	4,968.45	4,854.91	113.53	43.763		
15,400.00	7,630.00	8,386.00	8,033.72	118.35	42.03	98.31	-270.22	1,784.94	5,047.43	4,933.79	113.64	44.415		
15,500.00	7,630.00	8,386.00	8,033.72	119.34	42.03	98.31	-270.22	1,784.94	5,127.14	5,013.40	113.75	45.076		
15,600.00	7,630.00	8,386.00	8,033.72	120.35	42.03	98.31	-270.22	1,784.94	5,207.56	5,093.72	113.84	45.744		
15,700.00	7,630.00	8,386.00	8,033.72	121.40	42.03	98.31	-270.22	1,784.94	5,288.65	5,174.72	113.93	46.420		
15,800.00	7,630.00	8,386.00	8,033.72	122.48	42.03	98.31	-270.22	1,784.94	5,370.37	5,256.36	114.01	47.104		
15,900.00	7,630.00	8,386.00	8,033.72	123.58	42.03	98.31	-270.22	1,784.94	5,452.70	5,338.61	114.09	47.794		
16,000.00	7,630.00	8,386.00	8,033.72	124.71	42.03	98.31	-270.22	1,784.94	5,535.61	5,421.45	114.16	48.491		
16,100.00	7,630.00	8,386.00	8,033.72	125.87	42.03	98.31	-270.22	1,784.94	5,619.08	5,504.86	114.22	49.194		
16,200.00	7,630.00	8,386.00	8,033.72	127.05	42.03	98.31	-270.22	1,784.94	5,703.08	5,588.80	114.28	49.902		
16,300.00	7,630.00	8,386.00	8,033.72	128.26	42.03	98.31	-270.22	1,784.94	5,787.59	5,673.25	114.34	50.617		
16,400.00	7,630.00	8,386.00	8,033.72	129.48	42.03	98.31	-270.22	1,784.94	5,872.59	5,758.20	114.39	51.337		
16,500.00	7,630.00	8,386.00	8,033.72	130.73	42.03	98.31	-270.22	1,784.94	5,958.05	5,843.61	114.44	52.061		
16,600.00	7,630.00	8,386.00	8,033.72	132.00	42.03	98.31	-270.22	1,784.94	6,043.96	5,929.47	114.49	52.791		
16,700.00	7,630.00	8,386.00	8,033.72	133.29	42.03	98.31	-270.22	1,784.94	6,130.30	6,015.77	114.53	53.525		
16,800.00	7,630.00	8,386.00	8,033.72	134.59	42.03	98.31	-270.22	1,784.94	6,217.05	6,102.47	114.57	54.264		
16,900.00	7,630.00	8,386.00	8,033.72	135.91	42.03	98.31	-270.22	1,784.94	6,304.18	6,189.58	114.61	55.006		
17,000.00	7,630.00	8,386.00	8,033.72	137.25	42.03	98.31	-270.22	1,784.94	6,391.70	6,277.06	114.64	55.753		
17,100.00	7,630.00	8,386.00	8,033.72	138.61	42.03	98.31	-270.22	1,784.94	6,479.58	6,364.90	114.68	56.503		
17,200.00	7,630.00	8,386.00	8,033.72	139.97	42.03	98.31	-270.22	1,784.94	6,567.80	6,453.09	114.71	57.257		
17,300.00	7,630.00	8,386.00	8,033.72	141.36	42.03	98.31	-270.22	1,784.94	6,656.35	6,541.62	114.74	58.014		
17,400.00	7,630.00	8,386.00	8,033.72	142.75	42.03	98.31	-270.22	1,784.94	6,745.23	6,630.47	114.76	58.775		
17,500.00	7,630.00	8,386.00	8,033.72	144.16	42.03	98.31	-270.22	1,784.94	6,834.41	6,719.62	114.79	59.538		
17,600.00	7,630.00	8,411.63	8,059.28	145.58	42.08	98.78	-271.78	1,785.84	6,923.78	6,808.91	114.87	60.277		
17,700.00	7,630.00	8,414.00	8,061.64	147.01	42.08	98.82	-271.92	1,785.93	7,013.52	6,898.62	114.89	61.043		
17,800.00	7,630.00	8,416.33	8,063.97	148.45	42.09	98.87	-272.06	1,786.01	7,103.53	6,988.61	114.92	61.812		
17,900.00	7,630.00	8,418.62	8,066.26	149.91	42.09	98.91	-272.19	1,786.09	7,193.81	7,078.86	114.95	62.584		
18,000.00	7,630.00	8,420.88	8,068.51	151.37	42.09	98.95	-272.32	1,786.16	7,284.34	7,169.36	114.97	63.358		
18,100.00	7,630.00	8,423.09	8,070.72	152.84	42.10	98.99	-272.44	1,786.24	7,375.11	7,260.11	115.00	64.134		
18,200.00	7,630.00	8,425.28	8,072.90	154.32	42.10	99.03	-272.56	1,786.31	7,466.11	7,351.09	115.02	64.912		
18,300.00	7,630.00	8,427.42	8,075.04	155.81	42.11	99.07	-272.68	1,786.39	7,557.34	7,442.30	115.04	65.693		
18,400.00	7,630.00	8,429.54	8,077.15	157.31	42.11	99.11	-272.80	1,786.46	7,648.79	7,533.73	115.06	66.475		
18,500.00	7,630.00	8,431.62	8,079.22	158.81	42.11	99.15	-272.91	1,786.53	7,740.45	7,625.36	115.08	67.259		
18,600.00	7,630.00	8,433.67	8,081.27	160.32	42.12	99.19	-273.02	1,786.60	7,832.31	7,717.21	115.10	68.045		
18,700.00	7,630.00	8,435.68	8,083.28	161.84	42.12	99.22	-273.13	1,786.66	7,924.37	7,809.24	115.13	68.833		
18,800.00	7,630.00	8,437.67	8,085.26	163.37	42.12	99.26	-273.24	1,786.73	8,016.61	7,901.47	115.15	69.622		
18,900.00	7,630.00	8,439.62	8,087.21	164.90	42.13	99.30	-273.34	1,786.80	8,109.04	7,993.88	115.16	70.412		
19,000.00	7,630.00	8,441.55	8,089.13	166.43	42.13	99.33	-273.44	1,786.86	8,201.65	8,086.46	115.18	71.205		
19,100.00	7,630.00	8,443.44	8,091.03	167.98	42.13	99.37	-273.54	1,786.92	8,294.42	8,179.22	115.20	71.998		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	8,445.31	8,092.89	169.53	42.14	99.40	-273.64	1,786.99	8,387.36	8,272.14	115.22	72.793	
19,300.00	7,630.00	8,447.15	8,094.73	171.08	42.14	99.44	-273.73	1,787.05	8,480.46	8,365.22	115.24	73.589	
19,400.00	7,630.00	8,448.96	8,096.54	172.64	42.14	99.47	-273.82	1,787.11	8,573.71	8,458.45	115.26	74.386	
19,500.00	7,630.00	8,450.75	8,098.32	174.21	42.15	99.50	-273.91	1,787.16	8,667.12	8,551.84	115.28	75.184	
19,518.56	7,630.00	8,451.08	8,098.65	174.50	42.15	99.51	-273.93	1,787.17	8,684.47	8,569.19	115.28	75.332	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	69.50	772.38	2,065.80	2,205.81							
100.00	100.00	63.94	63.94	0.13	0.10	69.51	772.15	2,065.84	2,205.42	2,205.19	0.24	9,295.686				
200.00	200.00	168.55	168.54	0.49	0.36	69.54	770.98	2,066.00	2,205.18	2,204.33	0.86	2,576.833				
300.00	300.00	271.97	271.96	0.85	0.73	69.55	770.22	2,065.81	2,204.76	2,203.17	1.58	1,391.605				
400.00	400.00	361.84	361.83	1.21	1.05	69.56	769.66	2,065.66	2,204.39	2,202.13	2.26	974.187				
500.00	499.98	453.53	453.52	1.56	1.38	2.86	769.13	2,066.09	2,202.88	2,199.94	2.94	749.029				
600.00	599.84	542.09	542.07	1.92	1.69	2.88	768.90	2,066.66	2,198.17	2,194.57	3.61	609.457				
700.00	699.45	635.03	635.01	2.29	2.02	2.92	768.64	2,067.86	2,190.57	2,186.28	4.29	510.353				
800.00	798.70	731.45	731.42	2.67	2.35	2.96	768.43	2,069.17	2,179.59	2,174.59	4.99	436.486				
900.00	897.47	833.25	833.21	3.07	2.71	3.01	768.60	2,070.51	2,165.25	2,159.53	5.72	378.718				
1,000.00	995.62	945.42	945.37	3.50	3.10	3.06	768.99	2,071.42	2,147.06	2,140.59	6.48	331.559				
1,100.00	1,093.06	1,046.92	1,046.86	3.96	3.45	3.08	770.23	2,071.41	2,125.00	2,117.81	7.19	295.505				
1,200.00	1,189.64	1,130.14	1,130.08	4.46	3.73	3.11	771.41	2,071.56	2,099.79	2,091.94	7.85	267.455				
1,300.00	1,285.27	1,220.00	1,219.92	5.00	4.04	3.16	772.66	2,071.85	2,071.37	2,062.83	8.54	242.537				
1,400.00	1,379.82	1,288.99	1,288.90	5.60	4.29	3.19	774.13	2,072.42	2,040.40	2,031.23	9.17	222.623				
1,500.00	1,473.17	1,347.83	1,347.67	6.25	4.49	3.21	776.57	2,073.67	2,007.83	1,998.07	9.76	205.675				
1,600.00	1,565.21	1,409.00	1,408.69	6.95	4.71	3.21	780.25	2,075.71	1,973.65	1,963.27	10.37	190.242				
1,700.00	1,655.84	1,468.16	1,467.62	7.72	4.92	3.19	784.72	2,078.42	1,937.79	1,926.80	10.99	176.353				
1,800.00	1,744.94	1,527.61	1,526.74	8.55	5.13	3.17	789.92	2,081.88	1,900.22	1,888.61	11.61	163.663				
1,900.00	1,832.39	1,584.28	1,582.98	9.45	5.34	3.14	795.55	2,086.05	1,861.13	1,848.90	12.23	152.162				
2,000.00	1,918.11	1,644.81	1,642.90	10.41	5.57	3.10	802.16	2,091.43	1,820.50	1,807.63	12.87	141.405				
2,100.00	2,001.97	1,707.19	1,704.53	11.45	5.80	3.06	809.29	2,097.92	1,778.17	1,764.64	13.53	131.399				
2,200.00	2,083.88	1,771.67	1,768.07	12.56	6.05	3.00	817.35	2,105.37	1,734.04	1,719.83	14.21	122.053				
2,300.00	2,163.74	1,830.93	1,826.30	13.74	6.29	2.94	825.38	2,112.94	1,688.18	1,673.31	14.87	113.512				
2,400.00	2,241.45	1,890.28	1,884.42	14.99	6.53	2.89	833.75	2,121.54	1,640.85	1,625.30	15.55	105.553				
2,421.22	2,257.65	1,905.09	1,898.90	15.26	6.59	2.87	835.88	2,123.81	1,630.58	1,614.88	15.70	103.853				
2,500.00	2,317.63	1,960.31	1,952.81	16.29	6.83	2.76	843.96	2,132.54	1,592.59	1,576.33	16.26	97.921				
2,600.00	2,393.75	2,017.93	2,008.96	17.62	7.08	2.66	852.39	2,142.42	1,545.54	1,528.59	16.94	91.216				
2,700.00	2,469.88	2,074.28	2,063.64	18.95	7.32	2.59	860.11	2,153.60	1,500.41	1,482.78	17.63	85.112				
2,800.00	2,546.01	2,146.29	2,133.30	20.30	7.65	2.57	869.14	2,169.46	1,456.77	1,438.39	18.38	79.263				
2,900.00	2,622.13	2,225.11	2,209.37	21.65	8.02	2.61	877.72	2,188.20	1,414.09	1,394.93	19.16	73.801				
3,000.00	2,698.26	2,300.32	2,281.82	23.01	8.38	2.74	884.51	2,207.23	1,372.15	1,352.21	19.94	68.818				
3,100.00	2,774.38	2,373.06	2,351.60	24.37	8.74	2.87	891.25	2,226.62	1,331.47	1,310.76	20.72	64.269				
3,200.00	2,850.51	2,449.00	2,424.19	25.74	9.13	3.04	898.17	2,247.81	1,291.91	1,270.39	21.52	60.044				
3,300.00	2,926.64	2,510.63	2,482.77	27.11	9.46	3.19	904.17	2,266.02	1,254.04	1,231.76	22.27	56.303				
3,400.00	3,002.76	2,587.45	2,555.21	28.49	9.90	3.35	912.69	2,290.12	1,218.25	1,195.16	23.09	52.754				
3,500.00	3,078.89	2,688.52	2,650.47	29.87	10.48	3.61	923.25	2,322.18	1,182.66	1,158.65	24.01	49.248				
3,600.00	3,155.02	2,789.47	2,745.95	31.25	11.07	3.88	933.79	2,353.23	1,146.18	1,121.24	24.94	45.959				
3,700.00	3,231.14	2,882.15	2,833.67	32.63	11.62	4.08	944.33	2,381.21	1,109.50	1,083.66	25.84	42.939				
3,800.00	3,307.27	2,974.30	2,920.86	34.01	12.18	4.29	954.98	2,409.08	1,072.94	1,046.19	26.74	40.118				
3,900.00	3,383.39	3,061.36	3,003.18	35.40	12.71	4.51	964.96	2,435.58	1,036.56	1,008.91	27.64	37.499				
4,000.00	3,459.52	3,149.70	3,086.46	36.79	13.26	4.73	975.59	2,463.06	1,000.96	972.41	28.55	35.058				
4,100.00	3,535.65	3,248.83	3,179.98	38.18	13.89	4.98	987.58	2,493.69	965.24	935.74	29.50	32.723				
4,200.00	3,611.77	3,349.56	3,275.27	39.57	14.52	5.33	998.53	2,524.45	928.80	898.35	30.45	30.499				
4,300.00	3,687.90	3,441.56	3,362.46	40.96	15.10	5.68	1,008.48	2,552.07	891.90	860.50	31.40	28.406				
4,400.00	3,764.02	3,531.05	3,447.11	42.35	15.67	5.99	1,018.94	2,579.16	855.51	823.17	32.35	26.449				
4,500.00	3,840.15	3,630.03	3,540.75	43.74	16.30	6.35	1,030.69	2,609.00	819.10	785.79	33.31	24.587				
4,600.00	3,916.28	3,726.46	3,632.29	45.13	16.91	6.74	1,041.75	2,637.21	781.76	747.47	34.29	22.799				
4,700.00	3,992.40	3,819.32	3,720.43	46.53	17.50	7.21	1,051.87	2,664.64	744.55	709.27	35.28	21.104				
4,800.00	4,068.53	3,913.10	3,809.51	47.92	18.09	7.67	1,062.65	2,691.91	707.12	670.84	36.28	19.490				
4,900.00	4,144.66	4,002.18	3,894.10	49.32	18.66	8.23	1,072.22	2,718.13	669.88	632.56	37.32	17.949				
5,000.00	4,220.78	4,094.57	3,981.64	50.71	19.25	8.83	1,082.72	2,745.76	633.30	594.92	38.38	16.500				

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	4,194.64	4,076.65	52.11	19.89	9.41	1,095.29	2,774.54	596.01	556.58	39.43	15.116		
5,200.00	4,373.03	4,288.48	4,166.04	53.51	20.48	10.07	1,106.54	2,800.77	557.87	517.34	40.53	13.765		
5,300.00	4,449.16	4,378.42	4,251.68	54.90	21.05	10.97	1,115.95	2,826.58	520.16	478.42	41.74	12.463		
5,400.00	4,525.29	4,472.14	4,340.85	56.30	21.64	11.99	1,126.33	2,853.48	482.72	439.73	42.99	11.228		
5,500.00	4,601.41	4,563.19	4,427.60	57.70	22.22	13.09	1,136.66	2,879.16	445.00	400.65	44.35	10.034		
5,600.00	4,677.54	4,653.76	4,513.45	59.10	22.80	14.13	1,148.75	2,905.32	408.46	362.71	45.75	8.928		
5,700.00	4,753.66	4,752.95	4,607.88	60.49	23.43	15.60	1,161.21	2,933.05	371.05	323.80	47.26	7.852		
5,800.00	4,829.79	4,848.15	4,699.00	61.89	24.01	17.63	1,171.55	2,958.58	332.57	283.44	49.13	6.769		
5,900.00	4,905.92	4,943.25	4,790.34	63.29	24.58	20.59	1,179.91	2,983.66	293.92	242.32	51.60	5.697		
6,000.00	4,982.04	5,038.70	4,882.59	64.69	25.12	24.63	1,187.67	3,006.95	254.19	199.33	54.87	4.633		
6,100.00	5,058.17	5,133.06	4,974.09	66.09	25.64	30.09	1,195.47	3,028.65	214.55	155.17	59.38	3.613		
6,200.00	5,134.30	5,227.86	5,066.76	67.49	26.11	38.62	1,202.02	3,047.43	174.51	108.16	66.35	2.630		
6,300.00	5,210.42	5,317.38	5,154.96	68.89	26.52	51.95	1,206.51	3,062.05	137.09	59.34	77.75	1.763		
6,400.00	5,286.55	5,404.21	5,240.78	70.29	26.89	71.82	1,210.30	3,074.67	110.40	18.08	92.31	1.196	Level 2	
6,470.11	5,339.92	5,464.21	5,300.32	71.27	27.13	89.49	1,212.73	3,081.70	103.71	5.33	98.39	1.054	Level 2, CC, ES, SF	
6,500.00	5,362.67	5,488.74	5,324.71	71.69	27.22	97.10	1,213.64	3,084.11	105.08	6.92	98.16	1.070	Level 2	
6,600.00	5,438.80	5,568.16	5,403.84	73.09	27.50	119.51	1,215.70	3,090.55	128.23	40.72	87.51	1.465	Level 3	
6,700.00	5,514.93	5,644.41	5,479.99	74.49	27.73	135.10	1,216.67	3,094.44	171.24	96.32	74.92	2.286		
6,800.00	5,591.05	5,719.77	5,555.32	75.89	27.94	145.42	1,217.14	3,096.26	224.42	157.76	66.66	3.367		
6,900.00	5,667.18	5,795.53	5,631.08	77.29	28.14	152.41	1,217.63	3,096.99	282.44	220.55	61.88	4.564		
7,000.00	5,743.30	5,872.55	5,708.09	78.69	28.34	157.31	1,218.28	3,097.48	342.68	283.43	59.25	5.784		
7,100.00	5,819.43	5,950.70	5,786.23	80.09	28.54	160.83	1,218.93	3,098.22	403.93	346.05	57.88	6.979		
7,200.00	5,895.56	6,028.92	5,864.44	81.49	28.76	163.45	1,219.74	3,099.14	465.67	408.47	57.20	8.141		
7,300.00	5,971.68	6,104.66	5,940.18	82.90	28.96	165.44	1,220.67	3,099.95	527.87	471.04	56.83	9.288		
7,400.00	6,047.81	6,180.05	6,015.56	84.30	29.17	167.02	1,221.54	3,100.52	590.62	533.89	56.73	10.411		
7,500.00	6,123.94	6,255.08	6,090.58	85.70	29.37	168.31	1,222.38	3,100.88	653.80	596.99	56.80	11.510		
7,600.00	6,200.06	6,329.43	6,164.93	87.10	29.56	169.38	1,223.07	3,101.07	717.38	660.38	57.00	12.586		
7,700.00	6,276.19	6,403.20	6,238.70	88.50	29.76	170.24	1,223.39	3,101.19	781.34	724.06	57.29	13.639		
7,800.00	6,352.31	6,481.86	6,317.36	89.90	29.97	171.00	1,223.53	3,101.37	845.46	787.65	57.81	14.624		
7,900.00	6,428.44	6,563.21	6,398.70	91.31	30.19	171.69	1,223.94	3,101.82	909.32	850.86	58.46	15.555		
8,000.00	6,504.57	6,639.96	6,475.45	92.71	30.40	172.22	1,224.17	3,102.72	972.89	913.88	59.01	16.487		
8,100.00	6,580.69	6,712.79	6,548.27	94.11	30.60	172.68	1,224.38	3,103.21	1,036.84	977.36	59.48	17.431		
8,200.00	6,656.82	6,795.79	6,631.28	95.51	30.83	173.15	1,224.89	3,103.81	1,100.68	1,040.44	60.24	18.271		
8,300.00	6,732.95	6,874.97	6,710.45	96.91	31.05	173.57	1,225.80	3,104.49	1,164.26	1,103.36	60.91	19.116		
8,400.00	6,809.07	6,947.98	6,783.45	98.32	31.26	173.93	1,226.84	3,105.01	1,227.89	1,166.46	61.43	19.988		
8,500.00	6,885.20	7,018.19	6,853.65	99.72	31.46	174.24	1,227.64	3,105.27	1,291.88	1,229.97	61.91	20.868		
8,600.00	6,961.32	7,089.34	6,924.79	101.12	31.65	174.53	1,228.29	3,105.17	1,356.31	1,293.89	62.42	21.728		
8,700.00	7,037.45	7,170.70	7,006.15	102.52	31.87	174.86	1,229.40	3,104.93	1,420.72	1,357.55	63.17	22.489		
8,732.15	7,061.92	7,194.58	7,030.03	102.97	31.94	174.95	1,229.80	3,104.86	1,441.39	1,378.03	63.36	22.747		
8,750.00	7,075.57	7,208.05	7,043.50	103.22	31.98	171.64	1,230.02	3,104.82	1,452.79	1,389.32	63.47	22.888		
8,800.00	7,114.27	7,246.20	7,081.64	103.91	32.08	162.45	1,230.63	3,104.70	1,483.75	1,420.00	63.75	23.274		
8,850.00	7,153.47	7,285.74	7,121.17	104.58	32.19	153.48	1,231.23	3,104.58	1,513.14	1,449.12	64.02	23.635		
8,900.00	7,192.85	7,326.09	7,161.52	105.21	32.30	144.87	1,231.79	3,104.52	1,540.78	1,476.50	64.28	23.970		
8,950.00	7,232.12	7,366.09	7,201.51	105.80	32.42	136.74	1,232.29	3,104.51	1,566.56	1,502.04	64.52	24.282		
9,000.00	7,270.99	7,405.08	7,240.50	106.35	32.53	129.24	1,232.72	3,104.54	1,590.40	1,525.67	64.73	24.570		
9,050.00	7,309.16	7,443.41	7,278.83	106.85	32.63	122.46	1,233.08	3,104.61	1,612.27	1,547.33	64.94	24.826		
9,100.00	7,346.32	7,477.95	7,313.37	107.30	32.73	116.41	1,233.32	3,104.68	1,632.17	1,567.07	65.10	25.071		
9,150.00	7,382.22	7,511.02	7,346.45	107.69	32.82	111.13	1,233.41	3,104.74	1,650.13	1,584.86	65.27	25.281		
9,200.00	7,416.56	7,542.82	7,378.24	108.02	32.91	106.60	1,233.37	3,104.80	1,666.16	1,600.69	65.48	25.447		
9,250.00	7,449.09	7,573.26	7,408.68	108.29	32.99	102.78	1,233.26	3,104.83	1,680.30	1,614.57	65.72	25.566		
9,300.00	7,479.56	7,601.82	7,437.24	108.51	33.06	99.60	1,233.12	3,104.84	1,692.57	1,626.54	66.03	25.634		
9,350.00	7,507.74	7,628.29	7,463.71	108.68	33.13	96.98	1,232.96	3,104.82	1,703.03	1,636.63	66.40	25.648		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,533.41	7,653.90	7,489.32	108.79	33.20	94.89	1,232.78	3,104.79	1,711.75	1,644.87	66.88	25.594		
9,450.00	7,556.39	7,677.67	7,513.09	108.86	33.26	93.26	1,232.60	3,104.77	1,718.76	1,651.29	67.47	25.476		
9,500.00	7,576.48	7,698.61	7,534.03	108.88	33.32	92.00	1,232.41	3,104.76	1,724.15	1,656.00	68.15	25.300		
9,550.00	7,593.55	7,716.55	7,551.97	108.86	33.36	91.07	1,232.24	3,104.76	1,728.00	1,659.06	68.93	25.067		
9,600.00	7,607.46	7,731.33	7,566.75	108.80	33.40	90.43	1,232.09	3,104.77	1,730.38	1,660.55	69.83	24.781		
9,650.00	7,618.11	7,744.05	7,579.47	108.71	33.44	90.07	1,231.96	3,104.79	1,731.35	1,660.50	70.85	24.436		
9,700.00	7,625.41	7,753.02	7,588.44	108.59	33.46	89.94	1,231.87	3,104.80	1,730.98	1,659.00	71.98	24.049		
9,750.00	7,629.30	7,758.09	7,593.50	108.45	33.47	89.99	1,231.82	3,104.82	1,729.32	1,656.13	73.19	23.627		
9,781.81	7,630.00	7,759.26	7,594.67	108.35	33.48	90.12	1,231.80	3,104.82	1,727.62	1,653.61	74.01	23.343		
9,800.00	7,630.00	7,759.47	7,594.89	108.29	33.48	90.13	1,231.80	3,104.82	1,726.59	1,652.10	74.49	23.178		
9,888.15	7,630.00	7,760.50	7,595.91	108.01	33.48	90.16	1,231.79	3,104.82	1,724.34	1,647.36	76.98	22.399		
9,900.00	7,630.00	7,760.64	7,596.05	107.97	33.48	90.17	1,231.79	3,104.82	1,724.38	1,647.05	77.33	22.299		
10,000.00	7,630.00	7,761.80	7,597.22	107.67	33.48	90.21	1,231.78	3,104.83	1,727.96	1,647.56	80.41	21.490		
10,100.00	7,630.00	7,762.96	7,598.38	107.38	33.49	90.25	1,231.77	3,104.83	1,737.30	1,653.67	83.63	20.773		
10,200.00	7,630.00	7,764.12	7,599.54	107.10	33.49	90.28	1,231.75	3,104.83	1,752.31	1,665.40	86.91	20.161		
10,300.00	7,630.00	7,765.28	7,600.69	106.84	33.49	90.32	1,231.74	3,104.84	1,772.84	1,682.66	90.18	19.659		
10,400.00	7,630.00	7,766.43	7,601.85	106.59	33.50	90.36	1,231.73	3,104.84	1,798.70	1,705.33	93.37	19.265		
10,500.00	7,630.00	7,767.58	7,603.00	106.35	33.50	90.40	1,231.72	3,104.85	1,829.66	1,733.24	96.43	18.975		
10,600.00	7,630.00	7,768.73	7,604.15	106.13	33.50	90.44	1,231.71	3,104.85	1,865.48	1,766.16	99.32	18.782		
10,700.00	7,630.00	7,769.88	7,605.29	105.92	33.50	90.47	1,231.70	3,104.85	1,905.88	1,803.84	102.04	18.678		
10,800.00	7,630.00	7,771.02	7,606.44	105.72	33.51	90.51	1,231.68	3,104.86	1,950.57	1,846.02	104.55	18.657		
10,900.00	7,630.00	7,772.16	7,607.58	105.54	33.51	90.55	1,231.67	3,104.86	1,999.27	1,892.41	106.86	18.709		
11,000.00	7,630.00	7,773.30	7,608.72	105.37	33.51	90.59	1,231.66	3,104.87	2,051.69	1,942.72	108.97	18.829		
11,100.00	7,630.00	7,774.44	7,609.85	105.21	33.52	90.63	1,231.65	3,104.87	2,107.55	1,996.67	110.88	19.008		
11,200.00	7,630.00	7,775.57	7,610.99	105.06	33.52	90.66	1,231.64	3,104.87	2,166.59	2,053.99	112.60	19.241		
11,300.00	7,630.00	7,776.71	7,612.12	104.93	33.52	90.70	1,231.63	3,104.88	2,228.55	2,114.40	114.15	19.522		
11,400.00	7,630.00	7,777.84	7,613.25	104.82	33.53	90.74	1,231.62	3,104.88	2,293.20	2,177.66	115.54	19.847		
11,500.00	7,630.00	7,778.96	7,614.38	104.72	33.53	90.78	1,231.60	3,104.89	2,360.32	2,243.53	116.79	20.211		
11,600.00	7,630.00	7,780.09	7,615.50	104.63	33.53	90.81	1,231.59	3,104.89	2,429.70	2,311.81	117.89	20.609		
11,700.00	7,630.00	7,781.21	7,616.62	104.55	33.54	90.85	1,231.58	3,104.90	2,501.16	2,382.28	118.88	21.039		
11,800.00	7,630.00	7,782.33	7,617.74	104.50	33.54	90.89	1,231.57	3,104.90	2,574.51	2,454.76	119.76	21.498		
11,900.00	7,630.00	7,783.45	7,618.86	104.45	33.54	90.93	1,231.56	3,104.91	2,649.61	2,529.08	120.53	21.982		
12,000.00	7,630.00	7,784.56	7,619.98	104.43	33.54	90.96	1,231.55	3,104.91	2,726.31	2,605.08	121.22	22.490		
12,100.00	7,630.00	7,785.67	7,621.09	104.42	33.55	91.00	1,231.54	3,104.92	2,804.47	2,682.64	121.83	23.019		
12,200.00	7,630.00	7,786.78	7,622.20	104.42	33.55	91.04	1,231.53	3,104.92	2,883.99	2,761.61	122.37	23.567		
12,300.00	7,630.00	7,787.89	7,623.31	104.45	33.55	91.07	1,231.52	3,104.93	2,964.74	2,841.89	122.85	24.132		
12,400.00	7,630.00	7,789.00	7,624.41	104.49	33.56	91.11	1,231.50	3,104.93	3,046.64	2,923.37	123.28	24.714		
12,500.00	7,630.00	7,790.10	7,625.51	104.55	33.56	91.15	1,231.49	3,104.94	3,129.59	3,005.94	123.65	25.310		
12,600.00	7,630.00	7,791.20	7,626.62	104.63	33.56	91.18	1,231.48	3,104.94	3,213.51	3,089.53	123.98	25.920		
12,700.00	7,630.00	7,792.30	7,627.71	104.73	33.57	91.22	1,231.47	3,104.95	3,298.33	3,174.06	124.27	26.541		
12,800.00	7,630.00	7,793.40	7,628.81	104.85	33.57	91.26	1,231.46	3,104.96	3,383.97	3,259.44	124.53	27.175		
12,900.00	7,630.00	7,794.49	7,629.90	104.99	33.57	91.29	1,231.45	3,104.96	3,470.38	3,345.63	124.75	27.818		
13,000.00	7,630.00	7,795.58	7,631.00	105.15	33.57	91.33	1,231.44	3,104.97	3,557.51	3,432.56	124.95	28.471		
13,100.00	7,630.00	7,796.67	7,632.08	105.34	33.58	91.37	1,231.43	3,104.97	3,645.29	3,520.17	125.13	29.133		
13,200.00	7,630.00	7,797.76	7,633.17	105.56	33.58	91.40	1,231.42	3,104.98	3,733.69	3,608.42	125.28	29.803		
13,300.00	7,630.00	7,798.84	7,634.26	105.80	33.58	91.44	1,231.41	3,104.99	3,822.66	3,697.25	125.41	30.481		
13,400.00	7,630.00	7,799.93	7,635.34	106.06	33.59	91.47	1,231.40	3,104.99	3,912.17	3,786.64	125.53	31.166		
13,500.00	7,630.00	7,801.01	7,636.42	106.36	33.59	91.51	1,231.39	3,105.00	4,002.17	3,876.54	125.63	31.857		
13,600.00	7,630.00	7,802.08	7,637.50	106.68	33.59	91.54	1,231.38	3,105.00	4,092.63	3,966.92	125.72	32.555		
13,700.00	7,630.00	7,803.16	7,638.57	107.03	33.59	91.58	1,231.36	3,105.01	4,183.53	4,057.74	125.79	33.258		
13,800.00	7,630.00	7,804.23	7,639.65	107.42	33.60	91.62	1,231.35	3,105.02	4,274.83	4,148.98	125.86	33.966		
13,900.00	7,630.00	7,805.30	7,640.72	107.83	33.60	91.65	1,231.34	3,105.02	4,366.52	4,240.61	125.91	34.680		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,806.37	7,641.79	108.28	33.60	91.69	1,231.33	3,105.03	4,458.56	4,332.60	125.96	35.398		
14,100.00	7,630.00	7,807.44	7,642.85	108.77	33.61	91.72	1,231.32	3,105.04	4,550.94	4,424.94	126.00	36.120		
14,200.00	7,630.00	7,808.50	7,643.92	109.29	33.61	91.76	1,231.31	3,105.04	4,643.63	4,517.60	126.03	36.846		
14,300.00	7,630.00	7,809.57	7,644.98	109.84	33.61	91.79	1,231.30	3,105.05	4,736.62	4,610.57	126.05	37.576		
14,400.00	7,630.00	7,810.63	7,646.04	110.43	33.61	91.83	1,231.29	3,105.06	4,829.89	4,703.82	126.08	38.310		
14,500.00	7,630.00	7,811.69	7,647.10	111.06	33.62	91.86	1,231.28	3,105.06	4,923.43	4,797.34	126.09	39.046		
14,600.00	7,630.00	7,812.74	7,648.15	111.72	33.62	91.90	1,231.27	3,105.07	5,017.21	4,891.11	126.10	39.786		
14,700.00	7,630.00	7,813.79	7,649.21	112.42	33.62	91.93	1,231.26	3,105.08	5,111.23	4,985.12	126.11	40.529		
14,800.00	7,630.00	7,814.85	7,650.26	113.16	33.63	91.97	1,231.25	3,105.09	5,205.47	5,079.35	126.12	41.275		
14,900.00	7,630.00	7,815.90	7,651.31	113.94	33.63	92.00	1,231.24	3,105.09	5,299.92	5,173.80	126.12	42.023		
15,000.00	7,630.00	7,816.94	7,652.35	114.75	33.63	92.04	1,231.23	3,105.10	5,394.58	5,268.46	126.12	42.774		
15,100.00	7,630.00	7,817.99	7,653.40	115.60	33.63	92.07	1,231.22	3,105.11	5,489.42	5,363.30	126.12	43.527		
15,200.00	7,630.00	7,819.03	7,654.44	116.48	33.64	92.11	1,231.21	3,105.11	5,584.44	5,458.33	126.11	44.282		
15,300.00	7,630.00	7,820.07	7,655.48	117.40	33.64	92.14	1,231.20	3,105.12	5,679.63	5,553.53	126.10	45.039		
15,400.00	7,630.00	7,821.11	7,656.52	118.35	33.64	92.18	1,231.19	3,105.13	5,774.99	5,648.89	126.10	45.798		
15,500.00	7,630.00	7,822.15	7,657.56	119.34	33.65	92.21	1,231.18	3,105.14	5,870.50	5,744.41	126.09	46.559		
15,600.00	7,630.00	7,823.18	7,658.59	120.35	33.65	92.25	1,231.17	3,105.14	5,966.15	5,840.07	126.08	47.321		
15,700.00	7,630.00	7,824.21	7,659.62	121.40	33.65	92.28	1,231.16	3,105.15	6,061.95	5,935.88	126.07	48.085		
15,800.00	7,630.00	7,825.24	7,660.65	122.48	33.65	92.31	1,231.15	3,105.16	6,157.88	6,031.82	126.05	48.851		
15,900.00	7,630.00	7,826.27	7,661.68	123.58	33.66	92.35	1,231.14	3,105.17	6,253.93	6,127.89	126.04	49.618		
16,000.00	7,630.00	7,827.30	7,662.71	124.71	33.66	92.38	1,231.13	3,105.18	6,350.11	6,224.08	126.03	50.386		
16,100.00	7,630.00	7,828.32	7,663.73	125.87	33.66	92.42	1,231.12	3,105.18	6,446.41	6,320.39	126.02	51.156		
16,200.00	7,630.00	7,829.34	7,664.75	127.05	33.66	92.45	1,231.11	3,105.19	6,542.81	6,416.81	126.00	51.926		
16,300.00	7,630.00	7,830.36	7,665.77	128.26	33.67	92.48	1,231.10	3,105.20	6,639.33	6,513.34	125.99	52.698		
16,400.00	7,630.00	7,831.38	7,666.79	129.48	33.67	92.52	1,231.09	3,105.21	6,735.94	6,609.97	125.97	53.471		
16,500.00	7,630.00	7,832.39	7,667.80	130.73	33.67	92.55	1,231.08	3,105.22	6,832.65	6,706.69	125.96	54.245		
16,600.00	7,630.00	7,833.41	7,668.82	132.00	33.68	92.58	1,231.07	3,105.22	6,929.45	6,803.51	125.95	55.019		
16,700.00	7,630.00	7,834.42	7,669.83	133.29	33.68	92.62	1,231.06	3,105.23	7,026.35	6,900.42	125.93	55.795		
16,800.00	7,630.00	7,835.43	7,670.84	134.59	33.68	92.65	1,231.05	3,105.24	7,123.33	6,997.41	125.92	56.571		
16,900.00	7,630.00	7,836.43	7,671.84	135.91	33.68	92.68	1,231.04	3,105.25	7,220.39	7,094.48	125.90	57.349		
17,000.00	7,630.00	7,837.44	7,672.85	137.25	33.69	92.72	1,231.03	3,105.26	7,317.53	7,191.64	125.89	58.126		
17,100.00	7,630.00	7,825.00	7,660.41	138.61	33.65	92.31	1,231.15	3,105.16	7,414.76	7,288.91	125.85	58.917		
17,200.00	7,630.00	7,825.00	7,660.41	139.97	33.65	92.31	1,231.15	3,105.16	7,512.05	7,386.21	125.84	59.697		
17,300.00	7,630.00	7,825.00	7,660.41	141.36	33.65	92.31	1,231.15	3,105.16	7,609.41	7,483.59	125.82	60.477		
17,400.00	7,630.00	7,825.00	7,660.41	142.75	33.65	92.31	1,231.15	3,105.16	7,706.84	7,581.03	125.81	61.259		
17,500.00	7,630.00	7,825.00	7,660.41	144.16	33.65	92.31	1,231.15	3,105.16	7,804.33	7,678.54	125.79	62.040		
17,600.00	7,630.00	7,825.00	7,660.41	145.58	33.65	92.31	1,231.15	3,105.16	7,901.89	7,776.11	125.78	62.822		
17,700.00	7,630.00	7,825.00	7,660.41	147.01	33.65	92.31	1,231.15	3,105.16	7,999.50	7,873.74	125.77	63.605		
17,800.00	7,630.00	7,825.00	7,660.41	148.45	33.65	92.31	1,231.15	3,105.16	8,097.18	7,971.42	125.76	64.388		
17,900.00	7,630.00	7,825.00	7,660.41	149.91	33.65	92.31	1,231.15	3,105.16	8,194.91	8,069.17	125.74	65.171		
18,000.00	7,630.00	7,825.00	7,660.41	151.37	33.65	92.31	1,231.15	3,105.16	8,292.70	8,166.96	125.73	65.955		
18,100.00	7,630.00	7,825.00	7,660.41	152.84	33.65	92.31	1,231.15	3,105.16	8,390.53	8,264.81	125.72	66.739		
18,200.00	7,630.00	7,825.00	7,660.41	154.32	33.65	92.31	1,231.15	3,105.16	8,488.42	8,362.71	125.71	67.523		
18,300.00	7,630.00	7,825.00	7,660.41	155.81	33.65	92.31	1,231.15	3,105.16	8,586.36	8,460.66	125.70	68.308		
18,400.00	7,630.00	7,825.00	7,660.41	157.31	33.65	92.31	1,231.15	3,105.16	8,684.34	8,558.65	125.69	69.092		
18,500.00	7,630.00	7,825.00	7,660.41	158.81	33.65	92.31	1,231.15	3,105.16	8,782.37	8,656.69	125.68	69.877		
18,600.00	7,630.00	7,825.00	7,660.41	160.32	33.65	92.31	1,231.15	3,105.16	8,880.44	8,754.77	125.67	70.662		
18,700.00	7,630.00	7,825.00	7,660.41	161.84	33.65	92.31	1,231.15	3,105.16	8,978.56	8,852.89	125.67	71.447		
18,800.00	7,630.00	7,825.00	7,660.41	163.37	33.65	92.31	1,231.15	3,105.16	9,076.71	8,951.06	125.66	72.233		
18,900.00	7,630.00	7,825.00	7,660.41	164.90	33.65	92.31	1,231.15	3,105.16	9,174.91	9,049.26	125.65	73.018		
19,000.00	7,630.00	7,825.00	7,660.41	166.43	33.65	92.31	1,231.15	3,105.16	9,273.15	9,147.50	125.65	73.804		
19,100.00	7,630.00	7,825.00	7,660.41	167.98	33.65	92.31	1,231.15	3,105.16	9,371.42	9,245.78	125.64	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,825.00	7,660.41	169.53	33.65	92.31	1,231.15	3,105.16	9,469.73	9,344.09	125.64	75.375	
19,300.00	7,630.00	7,825.00	7,660.41	171.08	33.65	92.31	1,231.15	3,105.16	9,568.07	9,442.44	125.63	76.160	
19,400.00	7,630.00	7,825.00	7,660.41	172.64	33.65	92.31	1,231.15	3,105.16	9,666.45	9,540.82	125.63	76.945	
19,500.00	7,630.00	7,843.19	7,678.60	174.21	33.70	92.91	1,231.00	3,105.30	9,764.83	9,639.17	125.66	77.709	
19,518.56	7,630.00	7,843.26	7,678.67	174.50	33.70	92.91	1,230.99	3,105.30	9,783.10	9,657.44	125.66	77.855	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	69.97	754.16	2,068.60	2,202.15							
100.00	100.00	81.33	81.33	0.13	0.13	69.97	753.83	2,068.30	2,201.49	2,201.23	0.26	8,371.540				
200.00	200.00	167.78	167.77	0.49	0.41	69.98	753.41	2,067.76	2,200.75	2,199.85	0.91	2,428.570				
300.00	300.00	276.66	276.65	0.85	0.80	69.97	753.72	2,067.13	2,200.31	2,198.66	1.65	1,333.078				
400.00	400.00	383.04	383.03	1.21	1.18	69.96	753.63	2,066.21	2,199.48	2,197.09	2.39	921.074				
500.00	499.98	539.28	539.19	1.56	1.74	3.32	749.69	2,064.17	2,195.78	2,192.48	3.30	665.694				
600.00	599.84	662.64	662.22	1.92	2.19	3.53	741.24	2,061.44	2,186.09	2,181.99	4.10	532.901				
700.00	699.45	742.23	741.37	2.29	2.48	3.76	732.99	2,060.83	2,173.19	2,168.44	4.75	457.156				
800.00	798.70	820.67	819.15	2.67	2.79	4.06	722.80	2,061.71	2,157.77	2,152.36	5.41	398.655				
900.00	897.47	876.61	874.42	3.07	3.01	4.34	714.42	2,063.53	2,140.36	2,134.37	6.00	356.934				
1,000.00	995.62	920.00	917.20	3.50	3.18	4.58	707.58	2,065.90	2,121.64	2,115.11	6.53	324.761				
1,100.00	1,093.06	990.59	986.54	3.96	3.48	5.01	695.59	2,071.40	2,101.33	2,094.13	7.20	291.842				
1,200.00	1,189.64	1,043.42	1,038.19	4.46	3.70	5.39	685.92	2,076.85	2,079.64	2,071.84	7.80	266.694				
1,300.00	1,285.27	1,109.00	1,102.01	5.00	3.99	5.90	673.54	2,085.49	2,057.00	2,048.52	8.47	242.753				
1,400.00	1,379.82	1,149.06	1,140.86	5.60	4.18	6.26	665.92	2,091.62	2,032.96	2,023.92	9.04	224.899				
1,500.00	1,473.17	1,215.02	1,204.75	6.25	4.48	6.83	653.68	2,102.52	2,007.49	1,997.75	9.74	206.109				
1,600.00	1,565.21	1,287.26	1,274.80	6.95	4.83	7.47	641.19	2,115.00	1,980.03	1,969.54	10.48	188.874				
1,700.00	1,655.84	1,351.31	1,336.80	7.72	5.14	8.08	630.34	2,126.83	1,950.72	1,939.52	11.20	174.197				
1,800.00	1,744.94	1,420.03	1,403.05	8.55	5.49	8.79	618.32	2,140.55	1,919.70	1,907.75	11.95	160.593				
1,900.00	1,832.39	1,499.57	1,479.36	9.45	5.91	9.68	603.51	2,157.42	1,886.70	1,873.91	12.79	147.483				
2,000.00	1,918.11	1,591.52	1,567.45	10.41	6.41	10.81	585.78	2,176.96	1,850.87	1,837.14	13.72	134.863				
2,100.00	2,001.97	1,675.98	1,648.34	11.45	6.89	11.94	569.56	2,195.00	1,812.48	1,797.85	14.64	123.845				
2,200.00	2,083.88	1,766.60	1,735.23	12.56	7.40	13.25	552.29	2,214.09	1,771.28	1,755.68	15.60	113.533				
2,300.00	2,163.74	1,836.35	1,802.09	13.74	7.81	14.41	539.17	2,229.02	1,727.91	1,711.44	16.48	104.870				
2,400.00	2,241.45	1,943.00	1,904.42	14.99	8.42	16.21	519.34	2,251.61	1,682.03	1,664.45	17.58	95.653				
2,421.22	2,257.65	1,957.37	1,918.22	15.26	8.50	16.50	516.67	2,254.55	1,671.87	1,654.09	17.78	94.022				
2,500.00	2,317.63	2,014.54	1,973.14	16.29	8.83	17.39	506.06	2,266.38	1,634.34	1,615.80	18.53	88.190				
2,600.00	2,393.75	2,083.61	2,039.40	17.62	9.24	18.52	493.18	2,281.04	1,587.81	1,568.31	19.50	81.423				
2,700.00	2,469.88	2,164.91	2,117.22	18.95	9.72	19.92	477.80	2,298.84	1,542.67	1,522.08	20.59	74.934				
2,800.00	2,546.01	2,261.20	2,209.32	20.30	10.31	21.71	458.33	2,319.08	1,497.68	1,475.86	21.82	68.629				
2,900.00	2,622.13	2,340.23	2,284.96	21.65	10.78	23.26	442.19	2,335.32	1,453.41	1,430.40	23.01	63.151				
3,000.00	2,698.26	2,408.47	2,350.32	23.01	11.20	24.64	428.85	2,349.75	1,410.77	1,386.58	24.19	58.315				
3,100.00	2,774.38	2,494.23	2,432.45	24.37	11.72	26.43	412.42	2,368.11	1,369.58	1,344.04	25.54	53.625				
3,200.00	2,850.51	2,574.44	2,509.23	25.74	12.21	28.22	396.52	2,385.06	1,329.55	1,302.62	26.93	49.367				
3,300.00	2,926.64	2,654.58	2,585.82	27.11	12.70	30.11	380.13	2,402.00	1,291.10	1,262.69	28.41	45.451				
3,400.00	3,002.76	2,735.23	2,663.02	28.49	13.19	32.07	364.22	2,419.09	1,254.27	1,224.31	29.96	41.867				
3,500.00	3,078.89	2,816.32	2,740.71	29.87	13.69	34.10	348.71	2,436.37	1,219.22	1,187.63	31.59	38.594				
3,600.00	3,155.02	2,902.60	2,823.39	31.25	14.21	36.36	332.12	2,454.58	1,185.93	1,152.57	33.35	35.556				
3,700.00	3,231.14	2,996.16	2,913.26	32.63	14.78	38.95	313.96	2,473.21	1,153.77	1,118.49	35.28	32.704				
3,800.00	3,307.27	3,062.88	2,977.35	34.01	15.18	40.85	301.29	2,486.76	1,124.13	1,087.07	37.06	30.334				
3,900.00	3,383.39	3,141.29	3,052.55	35.40	15.65	43.14	286.45	2,503.34	1,097.53	1,058.51	39.02	28.127				
4,000.00	3,459.52	3,225.89	3,133.63	36.79	16.17	45.72	269.95	2,520.92	1,073.47	1,032.34	41.13	26.097				
4,100.00	3,535.65	3,309.86	3,214.29	38.18	16.68	48.34	254.30	2,538.27	1,051.80	1,008.48	43.31	24.284				
4,200.00	3,611.77	3,389.95	3,291.23	39.57	17.16	50.90	239.41	2,554.76	1,032.99	987.47	45.52	22.694				
4,300.00	3,687.90	3,467.45	3,365.66	40.96	17.63	53.43	224.96	2,570.83	1,017.40	969.64	47.75	21.306				
4,400.00	3,764.02	3,539.85	3,435.04	42.35	18.07	55.86	210.74	2,585.84	1,005.55	955.58	49.97	20.123				
4,500.00	3,840.15	3,620.30	3,512.04	43.74	18.57	58.60	194.59	2,602.68	997.48	945.16	52.32	19.065				
4,600.00	3,916.28	3,712.15	3,600.09	45.13	19.13	61.72	177.07	2,622.10	992.51	937.68	54.83	18.101				
4,693.34	3,987.34	3,781.31	3,666.49	46.44	19.56	64.07	164.36	2,636.62	990.59	933.65	56.94	17.398 CC				
4,700.00	3,992.40	3,785.82	3,670.82	46.53	19.59	64.23	163.50	2,637.58	990.60	933.52	57.08	17.354 ES				
4,800.00	4,068.53	3,862.43	3,744.14	47.92	20.06	66.85	148.54	2,653.96	993.04	933.69	59.35	16.732				
4,900.00	4,144.66	3,946.44	3,824.67	49.32	20.58	69.72	132.12	2,671.37	998.68	936.98	61.70	16.186				

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	4,021.93	3,896.94	50.71	21.04	72.26	117.54	2,687.60	1,008.02	944.16	63.85	15.786		
5,100.00	4,296.91	4,104.45	3,975.92	52.11	21.56	74.99	101.49	2,705.32	1,020.78	954.72	66.06	15.452		
5,200.00	4,373.03	4,211.81	4,079.02	53.51	22.21	78.47	81.86	2,727.88	1,035.73	967.13	68.60	15.098		
5,300.00	4,449.16	4,279.78	4,144.37	54.90	22.62	80.60	69.89	2,742.26	1,053.24	982.83	70.41	14.958		
5,400.00	4,525.29	4,352.70	4,214.36	56.30	23.06	82.86	56.34	2,757.61	1,074.37	1,002.17	72.21	14.879		
5,500.00	4,601.41	4,425.18	4,283.86	57.70	23.51	85.07	42.22	2,772.55	1,098.86	1,024.95	73.90	14.869 SF		
5,600.00	4,677.54	4,497.04	4,352.50	59.10	23.96	87.16	28.03	2,788.38	1,126.51	1,051.02	75.49	14.923		
5,700.00	4,753.66	4,563.01	4,415.35	60.49	24.39	89.02	14.33	2,803.01	1,157.36	1,080.49	76.87	15.057		
5,800.00	4,829.79	4,632.49	4,481.40	61.89	24.84	90.93	-0.93	2,818.25	1,191.30	1,113.07	78.23	15.228		
5,900.00	4,905.92	4,744.12	4,587.53	63.29	25.57	93.83	-25.11	2,843.01	1,227.27	1,146.88	80.38	15.268		
6,000.00	4,982.04	4,837.35	4,677.01	64.69	26.14	96.18	-42.98	2,862.14	1,262.61	1,180.54	82.07	15.385		
6,100.00	5,058.17	4,930.95	4,767.17	66.09	26.69	98.48	-60.50	2,880.13	1,299.30	1,215.63	83.66	15.530		
6,200.00	5,134.30	5,042.69	4,875.58	67.49	27.31	101.17	-79.67	2,899.18	1,336.35	1,250.90	85.45	15.638		
6,300.00	5,210.42	5,181.10	5,011.02	68.89	28.01	104.41	-99.07	2,920.07	1,372.62	1,285.16	87.46	15.694		
6,400.00	5,286.55	5,313.17	5,141.56	70.29	28.58	107.47	-111.45	2,935.71	1,406.52	1,317.43	89.10	15.787		
6,500.00	5,362.67	5,417.81	5,245.62	71.69	28.96	109.92	-118.65	2,943.95	1,440.61	1,350.40	90.21	15.970		
6,600.00	5,438.80	5,530.90	5,358.45	73.09	29.33	112.58	-123.76	2,949.43	1,474.93	1,383.73	91.20	16.173		
6,700.00	5,514.93	5,636.78	5,464.27	74.49	29.62	115.05	-125.86	2,952.13	1,509.37	1,417.42	91.95	16.415		
6,800.00	5,591.05	5,723.61	5,551.09	75.89	29.84	117.04	-126.37	2,953.37	1,544.80	1,452.30	92.50	16.701		
6,900.00	5,667.18	5,803.67	5,631.15	77.29	30.03	118.83	-126.38	2,953.88	1,581.73	1,488.82	92.92	17.023		
7,000.00	5,743.30	5,873.46	5,700.94	78.69	30.19	120.36	-126.35	2,953.99	1,620.44	1,527.22	93.21	17.384		
7,100.00	5,819.43	5,954.81	5,782.28	80.09	30.38	122.08	-126.47	2,953.98	1,660.94	1,567.43	93.51	17.762		
7,200.00	5,895.56	6,035.98	5,863.45	81.49	30.57	123.73	-126.16	2,954.24	1,702.48	1,608.71	93.76	18.157		
7,300.00	5,971.68	6,107.03	5,934.50	82.90	30.73	125.14	-125.85	2,954.02	1,745.54	1,651.63	93.91	18.587		
7,400.00	6,047.81	6,178.70	6,006.17	84.30	30.88	126.52	-125.66	2,953.57	1,790.13	1,696.10	94.02	19.039		
7,500.00	6,123.94	6,260.64	6,088.11	85.70	31.06	128.03	-125.49	2,953.21	1,835.93	1,741.76	94.17	19.495		
7,600.00	6,200.06	6,334.52	6,161.99	87.10	31.23	129.34	-125.29	2,953.19	1,882.71	1,788.44	94.27	19.971		
7,700.00	6,276.19	6,406.86	6,234.33	88.50	31.39	130.58	-125.24	2,953.03	1,930.73	1,836.38	94.35	20.464		
7,800.00	6,352.31	6,492.10	6,319.56	89.90	31.58	132.00	-124.90	2,952.22	1,979.76	1,885.29	94.47	20.957		
7,900.00	6,428.44	6,599.53	6,426.98	91.31	31.84	133.68	-123.43	2,952.80	2,028.40	1,933.65	94.75	21.409		
8,000.00	6,504.57	6,668.96	6,496.40	92.71	32.01	134.70	-122.65	2,953.87	2,077.77	1,982.94	94.83	21.910		
8,100.00	6,580.69	6,735.74	6,563.17	94.11	32.18	135.65	-122.15	2,954.75	2,128.23	2,033.33	94.90	22.426		
8,200.00	6,656.82	6,855.67	6,683.06	95.51	32.50	137.25	-121.06	2,957.25	2,179.06	2,083.72	95.34	22.857		
8,300.00	6,732.95	6,899.94	6,727.32	96.91	32.61	137.82	-120.63	2,958.29	2,230.20	2,134.91	95.28	23.406		
8,400.00	6,809.07	6,950.44	6,777.81	98.32	32.75	138.47	-120.36	2,958.73	2,282.89	2,187.65	95.24	23.969		
8,500.00	6,885.20	7,009.34	6,836.72	99.72	32.89	139.21	-120.35	2,958.73	2,336.87	2,241.62	95.24	24.535		
8,600.00	6,961.32	7,081.70	6,909.07	101.12	33.07	140.09	-120.58	2,958.34	2,391.82	2,296.48	95.34	25.088		
8,700.00	7,037.45	7,163.85	6,991.22	102.52	33.27	141.07	-120.49	2,957.65	2,447.13	2,351.64	95.50	25.625		
8,732.15	7,061.92	7,190.13	7,017.50	102.97	33.33	141.38	-120.38	2,957.40	2,464.98	2,369.43	95.55	25.798		
8,750.00	7,075.57	7,204.77	7,032.14	103.22	33.36	138.90	-120.30	2,957.26	2,474.71	2,379.14	95.57	25.893		
8,800.00	7,114.27	7,248.47	7,075.83	103.91	33.46	131.93	-119.99	2,956.79	2,499.88	2,404.24	95.65	26.137		
8,850.00	7,153.47	7,294.03	7,121.39	104.58	33.57	124.98	-119.48	2,956.23	2,521.86	2,426.16	95.70	26.352		
8,900.00	7,192.85	7,333.30	7,160.65	105.21	33.66	118.08	-118.91	2,955.72	2,540.57	2,444.89	95.68	26.553		
8,950.00	7,232.12	7,367.21	7,194.56	105.80	33.74	111.41	-118.58	2,955.40	2,556.08	2,460.48	95.60	26.737		
9,000.00	7,270.99	7,401.04	7,228.38	106.35	33.82	105.19	-118.45	2,955.23	2,568.34	2,472.85	95.49	26.896		
9,050.00	7,309.16	7,435.56	7,262.91	106.85	33.91	99.60	-118.45	2,955.14	2,577.33	2,481.97	95.36	27.028		
9,100.00	7,346.32	7,469.37	7,296.72	107.30	33.99	94.70	-118.42	2,954.93	2,583.03	2,487.85	95.18	27.138		
9,150.00	7,382.22	7,501.78	7,329.13	107.69	34.07	90.52	-118.33	2,954.61	2,585.46	2,490.51	94.95	27.230		
9,200.00	7,416.56	7,542.05	7,369.40	108.02	34.17	87.21	-118.20	2,954.21	2,584.62	2,489.88	94.74	27.281		
9,250.00	7,449.09	7,581.13	7,408.47	108.29	34.27	84.61	-118.08	2,953.99	2,580.51	2,486.02	94.49	27.310		
9,300.00	7,479.56	7,616.32	7,443.66	108.51	34.35	82.64	-117.97	2,953.91	2,573.23	2,479.05	94.18	27.323		
9,350.00	7,507.74	7,647.53	7,474.87	108.68	34.43	81.27	-117.84	2,953.87	2,562.92	2,469.12	93.80	27.323		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
9,400.00	7,533.41	7,675.86	7,503.20	108.79	34.50	80.46	-117.68	2,953.84	2,549.71	2,456.34	93.37	27.308		
9,450.00	7,556.39	7,701.08	7,528.42	108.86	34.57	80.19	-117.51	2,953.82	2,533.76	2,440.88	92.88	27.279		
9,500.00	7,576.48	7,717.31	7,544.65	108.88	34.61	80.30	-117.43	2,953.83	2,515.25	2,422.95	92.30	27.251		
9,550.00	7,593.55	7,732.56	7,559.90	108.86	34.65	80.93	-117.38	2,953.84	2,494.32	2,402.63	91.69	27.203		
9,600.00	7,607.46	7,745.10	7,572.44	108.80	34.69	82.05	-117.36	2,953.86	2,471.15	2,380.10	91.05	27.141		
9,650.00	7,618.11	7,754.79	7,582.13	108.71	34.71	83.64	-117.35	2,953.88	2,445.89	2,355.51	90.38	27.063		
9,700.00	7,625.41	7,761.51	7,588.84	108.59	34.73	85.71	-117.36	2,953.90	2,418.70	2,329.02	89.68	26.969		
9,750.00	7,629.30	7,765.15	7,592.49	108.45	34.74	88.24	-117.36	2,953.91	2,389.77	2,300.79	88.98	26.858		
9,781.81	7,630.00	7,765.83	7,593.17	108.35	34.74	90.10	-117.36	2,953.91	2,370.54	2,282.01	88.52	26.779		
9,800.00	7,630.00	7,765.86	7,593.20	108.29	34.74	90.10	-117.36	2,953.91	2,359.41	2,271.14	88.26	26.732		
9,900.00	7,630.00	7,765.99	7,593.33	107.97	34.74	90.10	-117.36	2,953.91	2,299.83	2,213.03	86.81	26.494		
10,000.00	7,630.00	7,766.12	7,593.46	107.67	34.74	90.11	-117.36	2,953.91	2,243.14	2,157.81	85.33	26.289		
10,100.00	7,630.00	7,766.26	7,593.60	107.38	34.74	90.11	-117.36	2,953.91	2,189.55	2,105.70	83.85	26.114		
10,200.00	7,630.00	7,766.40	7,593.74	107.10	34.74	90.11	-117.36	2,953.91	2,139.29	2,056.89	82.39	25.964		
10,300.00	7,630.00	7,766.54	7,593.88	106.84	34.74	90.12	-117.36	2,953.91	2,092.60	2,011.60	81.00	25.834		
10,400.00	7,630.00	7,766.68	7,594.02	106.59	34.74	90.12	-117.36	2,953.91	2,049.74	1,970.03	79.71	25.714		
10,500.00	7,630.00	7,766.83	7,594.17	106.35	34.74	90.13	-117.36	2,953.91	2,010.94	1,932.36	78.58	25.592		
10,600.00	7,630.00	7,766.98	7,594.32	106.13	34.74	90.13	-117.36	2,953.91	1,976.44	1,898.80	77.64	25.457		
10,700.00	7,630.00	7,767.14	7,594.48	105.92	34.74	90.14	-117.36	2,953.91	1,946.47	1,869.52	76.95	25.294		
10,800.00	7,630.00	7,767.30	7,594.64	105.72	34.74	90.14	-117.36	2,953.91	1,921.25	1,844.69	76.56	25.094		
10,900.00	7,630.00	7,767.46	7,594.80	105.54	34.74	90.15	-117.36	2,953.91	1,900.96	1,824.46	76.50	24.850		
11,000.00	7,630.00	7,767.63	7,594.97	105.37	34.75	90.15	-117.36	2,953.91	1,885.75	1,808.98	76.78	24.562		
11,100.00	7,630.00	7,767.80	7,595.14	105.21	34.75	90.16	-117.36	2,953.91	1,875.77	1,798.38	77.39	24.237		
11,200.00	7,630.00	7,767.98	7,595.32	105.06	34.75	90.16	-117.36	2,953.91	1,871.08	1,792.76	78.33	23.888		
11,237.80	7,630.00	7,768.04	7,595.38	105.01	34.75	90.16	-117.36	2,953.91	1,870.70	1,791.94	78.76	23.751		
11,300.00	7,630.00	7,768.16	7,595.50	104.93	34.75	90.17	-117.36	2,953.91	1,871.73	1,792.19	79.54	23.532		
11,400.00	7,630.00	7,768.34	7,595.68	104.82	34.75	90.17	-117.36	2,953.91	1,877.72	1,796.73	80.99	23.185		
11,500.00	7,630.00	7,768.53	7,595.87	104.72	34.75	90.18	-117.36	2,953.91	1,888.99	1,806.37	82.62	22.864		
11,600.00	7,630.00	7,768.72	7,596.06	104.63	34.75	90.19	-117.36	2,953.92	1,905.44	1,821.07	84.38	22.583		
11,700.00	7,630.00	7,768.92	7,596.26	104.55	34.75	90.19	-117.37	2,953.92	1,926.95	1,840.74	86.21	22.351		
11,800.00	7,630.00	7,769.13	7,596.47	104.50	34.75	90.20	-117.37	2,953.92	1,953.35	1,865.27	88.09	22.176		
11,900.00	7,630.00	7,769.34	7,596.68	104.45	34.75	90.20	-117.37	2,953.92	1,984.45	1,894.49	89.96	22.060		
12,000.00	7,630.00	7,769.56	7,596.90	104.43	34.75	90.21	-117.37	2,953.92	2,020.02	1,928.21	91.80	22.004		
12,100.00	7,630.00	7,769.78	7,597.12	104.42	34.75	90.22	-117.37	2,953.92	2,059.83	1,966.24	93.59	22.009		
12,200.00	7,630.00	7,770.01	7,597.35	104.42	34.75	90.23	-117.37	2,953.92	2,103.65	2,008.34	95.31	22.071		
12,300.00	7,630.00	7,770.24	7,597.58	104.45	34.75	90.23	-117.37	2,953.92	2,151.23	2,054.28	96.95	22.189		
12,400.00	7,630.00	7,770.49	7,597.83	104.49	34.75	90.24	-117.37	2,953.92	2,202.32	2,103.82	98.50	22.358		
12,500.00	7,630.00	7,770.74	7,598.07	104.55	34.75	90.25	-117.37	2,953.92	2,256.69	2,156.73	99.96	22.576		
12,600.00	7,630.00	7,770.99	7,598.33	104.63	34.75	90.26	-117.37	2,953.92	2,314.11	2,212.78	101.33	22.838		
12,700.00	7,630.00	7,771.26	7,598.60	104.73	34.76	90.26	-117.37	2,953.92	2,374.35	2,271.75	102.60	23.141		
12,800.00	7,630.00	7,771.53	7,598.87	104.85	34.76	90.27	-117.37	2,953.92	2,437.21	2,333.42	103.79	23.483		
12,900.00	7,630.00	7,771.81	7,599.15	104.99	34.76	90.28	-117.37	2,953.92	2,502.48	2,397.59	104.89	23.859		
13,000.00	7,630.00	7,772.10	7,599.44	105.15	34.76	90.29	-117.37	2,953.93	2,569.99	2,464.08	105.91	24.267		
13,100.00	7,630.00	7,772.40	7,599.74	105.34	34.76	90.30	-117.37	2,953.93	2,639.56	2,532.71	106.85	24.704		
13,200.00	7,630.00	7,772.71	7,600.05	105.56	34.76	90.31	-117.37	2,953.93	2,711.04	2,603.32	107.72	25.168		
13,300.00	7,630.00	7,773.04	7,600.38	105.80	34.76	90.32	-117.37	2,953.93	2,784.27	2,675.75	108.52	25.656		
13,400.00	7,630.00	7,773.37	7,600.71	106.06	34.76	90.33	-117.37	2,953.93	2,859.13	2,749.86	109.27	26.167		
13,500.00	7,630.00	7,773.71	7,601.05	106.36	34.76	90.34	-117.37	2,953.93	2,935.48	2,825.53	109.95	26.698		
13,600.00	7,630.00	7,774.07	7,601.41	106.68	34.76	90.35	-117.38	2,953.93	3,013.22	2,902.63	110.59	27.248		
13,700.00	7,630.00	7,774.44	7,601.78	107.03	34.76	90.36	-117.38	2,953.93	3,092.23	2,981.06	111.17	27.815		
13,800.00	7,630.00	7,774.82	7,602.16	107.42	34.76	90.37	-117.38	2,953.93	3,172.44	3,060.72	111.71	28.399		
13,900.00	7,630.00	7,775.22	7,602.56	107.83	34.77	90.38	-117.38	2,953.94	3,253.73	3,141.52	112.21	28.997		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,775.63	7,602.97	108.28	34.77	90.40	-117.38	2,953.94	3,336.05	3,223.37	112.67	29.608		
14,100.00	7,630.00	7,776.06	7,603.40	108.77	34.77	90.41	-117.38	2,953.94	3,419.31	3,306.20	113.10	30.232		
14,200.00	7,630.00	7,776.50	7,603.84	109.29	34.77	90.42	-117.38	2,953.94	3,503.44	3,389.94	113.50	30.868		
14,300.00	7,630.00	7,776.97	7,604.31	109.84	34.77	90.44	-117.38	2,953.94	3,588.39	3,474.52	113.87	31.514		
14,400.00	7,630.00	7,777.45	7,604.79	110.43	34.77	90.45	-117.38	2,953.94	3,674.09	3,559.88	114.21	32.170		
14,500.00	7,630.00	7,777.95	7,605.29	111.06	34.77	90.47	-117.39	2,953.94	3,760.50	3,645.98	114.53	32.835		
14,600.00	7,630.00	7,778.48	7,605.82	111.72	34.77	90.48	-117.39	2,953.95	3,847.57	3,732.75	114.82	33.508		
14,700.00	7,630.00	7,779.03	7,606.36	112.42	34.78	90.50	-117.39	2,953.95	3,935.26	3,820.16	115.10	34.190		
14,800.00	7,630.00	7,779.60	7,606.94	113.16	34.78	90.52	-117.39	2,953.95	4,023.52	3,908.16	115.36	34.879		
14,900.00	7,630.00	7,780.20	7,607.54	113.94	34.78	90.54	-117.39	2,953.95	4,112.31	3,996.72	115.60	35.574		
15,000.00	7,630.00	7,780.83	7,608.17	114.75	34.78	90.56	-117.39	2,953.95	4,201.61	4,085.79	115.82	36.276		
15,100.00	7,630.00	7,781.49	7,608.82	115.60	34.78	90.58	-117.40	2,953.96	4,291.39	4,175.35	116.03	36.984		
15,200.00	7,630.00	7,782.18	7,609.52	116.48	34.78	90.60	-117.40	2,953.96	4,381.60	4,265.37	116.23	37.697		
15,300.00	7,630.00	7,782.90	7,610.24	117.40	34.79	90.62	-117.40	2,953.96	4,472.23	4,355.81	116.42	38.415		
15,400.00	7,630.00	7,783.67	7,611.01	118.35	34.79	90.64	-117.40	2,953.96	4,563.25	4,446.66	116.59	39.139		
15,500.00	7,630.00	7,784.48	7,611.82	119.34	34.79	90.67	-117.41	2,953.97	4,654.65	4,537.89	116.76	39.866		
15,600.00	7,630.00	7,785.33	7,612.67	120.35	34.79	90.69	-117.41	2,953.97	4,746.38	4,629.47	116.91	40.598		
15,700.00	7,630.00	7,786.23	7,613.57	121.40	34.80	90.72	-117.41	2,953.97	4,838.45	4,721.39	117.06	41.334		
15,800.00	7,630.00	7,787.18	7,614.52	122.48	34.80	90.75	-117.42	2,953.98	4,930.82	4,813.63	117.20	42.073		
15,900.00	7,630.00	7,788.19	7,615.53	123.58	34.80	90.78	-117.42	2,953.98	5,023.49	4,906.16	117.33	42.816		
16,000.00	7,630.00	7,789.26	7,616.60	124.71	34.80	90.81	-117.42	2,953.98	5,116.43	4,998.98	117.45	43.562		
16,100.00	7,630.00	7,790.40	7,617.74	125.87	34.81	90.85	-117.43	2,953.99	5,209.64	5,092.07	117.57	44.311		
16,200.00	7,630.00	7,791.62	7,618.96	127.05	34.81	90.89	-117.43	2,953.99	5,303.09	5,185.40	117.68	45.063		
16,300.00	7,630.00	7,792.92	7,620.26	128.26	34.81	90.93	-117.44	2,954.00	5,396.77	5,278.98	117.79	45.817		
16,400.00	7,630.00	7,794.31	7,621.65	129.48	34.82	90.97	-117.45	2,954.00	5,490.68	5,372.79	117.89	46.574		
16,500.00	7,630.00	7,795.81	7,623.15	130.73	34.82	91.02	-117.45	2,954.01	5,584.80	5,466.81	117.99	47.333		
16,600.00	7,630.00	7,797.42	7,624.76	132.00	34.83	91.06	-117.46	2,954.02	5,679.12	5,561.04	118.08	48.095		
16,700.00	7,630.00	7,799.16	7,626.50	133.29	34.83	91.12	-117.47	2,954.03	5,773.63	5,655.46	118.17	48.858		
16,800.00	7,630.00	7,801.04	7,628.38	134.59	34.83	91.18	-117.48	2,954.03	5,868.33	5,750.07	118.26	49.623		
16,900.00	7,630.00	7,803.09	7,630.43	135.91	34.84	91.24	-117.49	2,954.04	5,963.19	5,844.85	118.34	50.389		
17,000.00	7,630.00	17,000.00	7,583.52	137.25	60.40	89.80	-117.46	2,953.93	6,058.16	5,911.99	146.17	41.447		
17,100.00	7,630.00	17,100.00	7,583.36	138.61	60.68	89.80	-117.46	2,953.93	6,153.35	6,006.82	146.52	41.995		
17,200.00	7,630.00	17,200.00	7,583.19	139.97	60.97	89.79	-117.46	2,953.93	6,248.69	6,101.81	146.88	42.543		
17,300.00	7,630.00	17,300.00	7,583.03	141.36	61.25	89.79	-117.46	2,953.93	6,344.17	6,196.94	147.23	43.090		
17,400.00	7,630.00	17,400.00	7,582.87	142.75	61.54	89.78	-117.46	2,953.92	6,439.80	6,292.21	147.58	43.635		
17,500.00	7,630.00	17,500.00	7,582.71	144.16	61.82	89.78	-117.46	2,953.92	6,535.55	6,387.62	147.93	44.180		
17,600.00	7,630.00	17,600.00	7,582.54	145.58	62.10	89.77	-117.46	2,953.92	6,631.43	6,483.15	148.28	44.724		
17,700.00	7,630.00	17,700.00	7,582.38	147.01	62.39	89.77	-117.46	2,953.92	6,727.42	6,578.80	148.62	45.266		
17,800.00	7,630.00	17,800.00	7,582.22	148.45	62.67	89.76	-117.46	2,953.92	6,823.54	6,674.57	148.96	45.807		
17,900.00	7,630.00	17,900.00	7,582.05	149.91	62.96	89.76	-117.46	2,953.92	6,919.76	6,770.46	149.30	46.347		
18,000.00	7,630.00	18,000.00	7,581.89	151.37	63.24	89.75	-117.46	2,953.92	7,016.09	6,866.45	149.64	46.886		
18,100.00	7,630.00	18,100.00	7,581.73	152.84	63.53	89.75	-117.46	2,953.92	7,112.52	6,962.54	149.98	47.423		
18,200.00	7,630.00	18,200.00	7,581.56	154.32	63.81	89.74	-117.46	2,953.92	7,209.04	7,058.73	150.32	47.959		
18,300.00	7,630.00	18,300.00	7,581.40	155.81	64.10	89.74	-117.46	2,953.92	7,305.67	7,155.01	150.65	48.494		
18,400.00	7,630.00	18,400.00	7,581.24	157.31	64.38	89.73	-117.46	2,953.92	7,402.38	7,251.39	150.99	49.027		
18,500.00	7,630.00	18,500.00	7,581.08	158.81	64.67	89.73	-117.46	2,953.92	7,499.17	7,347.85	151.32	49.559		
18,600.00	7,630.00	18,600.00	7,580.91	160.32	64.95	89.72	-117.46	2,953.92	7,596.05	7,444.40	151.65	50.089		
18,700.00	7,630.00	18,700.00	7,580.75	161.84	65.23	89.72	-117.46	2,953.92	7,693.01	7,541.03	151.98	50.618		
18,800.00	7,630.00	18,800.00	7,580.59	163.37	65.52	89.71	-117.46	2,953.92	7,790.05	7,637.73	152.31	51.145		
18,900.00	7,630.00	7,796.84	7,624.18	164.90	34.82	91.05	-117.45	2,954.01	7,887.22	7,767.80	119.42	66.047		
19,000.00	7,630.00	7,797.17	7,624.51	166.43	34.83	91.06	-117.45	2,954.01	7,984.40	7,864.94	119.46	66.837		
19,100.00	7,630.00	7,797.50	7,624.84	167.98	34.83	91.07	-117.45	2,954.01	8,081.65	7,962.15	119.50	67.627		

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

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		91-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,797.83	7,625.16	169.53	34.83	91.08	-117.45	2,954.01	8,178.97	8,059.42	119.54	68.418	
19,300.00	7,630.00	7,798.15	7,625.49	171.08	34.83	91.09	-117.46	2,954.02	8,276.35	8,156.76	119.59	69.209	
19,400.00	7,630.00	7,798.48	7,625.82	172.64	34.83	91.10	-117.46	2,954.02	8,373.79	8,254.16	119.63	70.000	
19,500.00	7,630.00	7,798.80	7,626.14	174.21	34.83	91.11	-117.46	2,954.02	8,471.29	8,351.62	119.66	70.792	
19,518.56	7,630.00	7,798.86	7,626.20	174.50	34.83	91.11	-117.46	2,954.02	8,489.39	8,369.72	119.67	70.939	

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.04	747.37	5,344.53	5,397.12					
100.00	100.00	1,152.00	1,134.43	0.13	4.79	80.91	832.28	5,204.66	5,387.31	5,382.52	4.80	1,123.295		
200.00	200.00	1,203.38	1,184.13	0.49	5.07	80.83	838.50	5,193.18	5,366.99	5,361.79	5.20	1,031.531		
300.00	300.00	1,250.60	1,229.94	0.85	5.32	80.75	843.95	5,183.16	5,347.65	5,341.95	5.70	938.404		
400.00	400.00	1,329.57	1,306.70	1.21	5.74	80.63	852.91	5,166.88	5,328.95	5,322.57	6.37	835.989		
500.00	499.98	1,449.35	1,422.98	1.56	6.39	13.81	867.38	5,142.07	5,308.63	5,301.37	7.26	731.220		
600.00	599.84	1,638.58	1,605.80	1.92	7.46	13.59	893.34	5,100.74	5,284.38	5,275.87	8.51	621.269		
700.00	699.45	1,713.00	1,677.59	2.29	7.88	13.60	903.35	5,083.88	5,255.85	5,246.64	9.21	570.591		
800.00	798.70	1,808.91	1,770.15	2.67	8.43	13.60	916.28	5,062.31	5,224.30	5,214.28	10.02	521.408		
900.00	897.47	1,872.50	1,831.61	3.07	8.79	13.68	924.42	5,048.21	5,189.78	5,179.11	10.67	486.304		
1,000.00	995.62	1,929.02	1,886.41	3.50	9.10	13.79	931.09	5,036.07	5,152.67	5,141.38	11.29	456.417		
1,100.00	1,093.06	1,994.00	1,949.62	3.96	9.45	13.93	938.22	5,022.79	5,113.19	5,101.25	11.94	428.148		
1,200.00	1,189.64	2,077.19	2,030.60	4.46	9.90	14.07	947.29	5,006.07	5,070.98	5,058.30	12.68	400.054		
1,300.00	1,285.27	2,207.87	2,157.46	5.00	10.61	14.19	962.64	4,978.71	5,025.07	5,011.44	13.63	368.712		
1,400.00	1,379.82	2,275.00	2,222.54	5.60	10.98	14.40	970.90	4,964.46	4,976.09	4,961.78	14.31	347.778		
1,500.00	1,473.17	2,342.64	2,288.17	6.25	11.35	14.64	979.17	4,950.37	4,924.51	4,909.52	14.99	328.469		
1,600.00	1,565.21	2,417.04	2,360.46	6.95	11.76	14.91	988.11	4,935.22	4,870.42	4,854.71	15.71	310.029		
1,700.00	1,655.84	2,509.10	2,449.83	7.72	12.26	15.20	999.68	4,916.36	4,813.52	4,797.01	16.51	291.583		
1,800.00	1,744.94	2,586.97	2,525.35	8.55	12.69	15.55	1,009.63	4,900.20	4,753.69	4,736.44	17.25	275.582		
1,900.00	1,832.39	2,648.00	2,584.64	9.45	13.03	15.95	1,017.13	4,887.81	4,691.48	4,673.56	17.92	261.769		
2,000.00	1,918.11	2,712.59	2,647.51	10.41	13.37	16.42	1,024.46	4,874.98	4,626.91	4,608.31	18.60	248.702		
2,100.00	2,001.97	2,100.00	2,808.11	11.45	9.86	16.96	1,043.98	4,841.09	4,559.70	4,543.68	16.02	284.620		
2,200.00	2,083.88	2,983.07	2,909.72	12.56	14.87	17.58	1,057.16	4,817.42	4,488.37	4,467.82	20.54	218.468		
2,300.00	2,163.74	3,022.00	2,947.34	13.74	15.09	18.26	1,062.08	4,808.66	4,414.83	4,393.69	21.14	208.836		
2,400.00	2,241.45	3,071.25	2,994.91	14.99	15.38	19.03	1,068.68	4,797.76	4,339.41	4,317.63	21.78	199.198		
2,421.22	2,257.65	3,080.29	3,003.64	15.26	15.43	19.20	1,069.96	4,795.78	4,323.18	4,301.26	21.92	197.224		
2,500.00	2,317.63	3,116.00	3,038.10	16.29	15.63	19.22	1,075.21	4,788.02	4,262.85	4,240.43	22.41	190.179		
2,600.00	2,393.75	3,201.18	3,120.18	17.62	16.13	19.27	1,088.22	4,769.37	4,186.24	4,163.03	23.20	180.404		
2,700.00	2,469.88	3,254.76	3,171.77	18.95	16.44	19.30	1,096.53	4,757.51	4,109.49	4,085.61	23.89	172.046		
2,800.00	2,546.01	3,305.72	3,220.85	20.30	16.74	19.33	1,104.57	4,746.39	4,032.97	4,008.40	24.57	164.156		
2,900.00	2,622.13	3,406.00	3,317.38	21.65	17.33	19.38	1,120.26	4,724.23	3,956.25	3,930.83	25.42	155.631		
3,000.00	2,698.26	3,501.81	3,409.60	23.01	17.90	19.46	1,134.31	4,702.38	3,878.99	3,852.74	26.25	147.786		
3,100.00	2,774.38	3,577.02	3,482.12	24.37	18.34	19.55	1,144.10	4,685.01	3,801.38	3,774.38	27.00	140.802		
3,200.00	2,850.51	3,615.49	3,519.29	25.74	18.56	19.61	1,148.70	4,676.20	3,723.82	3,696.17	27.65	134.653		
3,300.00	2,926.64	3,650.13	3,552.82	27.11	18.75	19.66	1,152.84	4,668.56	3,646.77	3,618.45	28.31	128.793		
3,400.00	3,002.76	3,698.97	3,600.18	28.49	19.03	19.74	1,158.68	4,658.16	3,570.20	3,541.18	29.02	123.030		
3,500.00	3,078.89	3,786.89	3,685.31	29.87	19.52	19.89	1,169.43	4,639.00	3,493.32	3,463.52	29.81	117.197		
3,600.00	3,155.02	3,832.37	3,729.33	31.25	19.78	19.96	1,175.16	4,629.10	3,416.54	3,386.02	30.52	111.942		
3,700.00	3,231.14	3,898.06	3,792.93	32.63	20.15	20.07	1,183.65	4,615.06	3,340.05	3,308.77	31.28	106.791		
3,800.00	3,307.27	3,980.57	3,872.73	34.01	20.61	20.22	1,194.12	4,596.85	3,263.06	3,231.00	32.06	101.792		
3,900.00	3,383.39	4,024.60	3,915.38	35.40	20.86	20.31	1,199.39	4,587.29	3,186.26	3,153.47	32.79	97.173		
4,000.00	3,459.52	4,067.56	3,957.10	36.79	21.10	20.41	1,204.25	4,578.27	3,109.88	3,076.35	33.53	92.740		
4,100.00	3,535.65	4,107.61	3,996.10	38.18	21.31	20.51	1,208.49	4,570.20	3,034.00	2,999.72	34.28	88.495		
4,200.00	3,611.77	4,150.00	4,037.49	39.57	21.53	20.64	1,212.66	4,562.07	2,958.67	2,923.61	35.05	84.404		
4,300.00	3,687.90	4,191.75	4,078.36	40.96	21.73	20.78	1,216.40	4,554.44	2,883.87	2,848.04	35.83	80.489		
4,400.00	3,764.02	4,243.00	4,128.69	42.35	21.98	20.99	1,220.41	4,545.58	2,809.63	2,773.01	36.62	76.716		
4,500.00	3,840.15	4,273.10	4,158.32	43.74	22.12	21.12	1,222.49	4,540.69	2,735.99	2,698.56	37.43	73.088		
4,600.00	3,916.28	4,309.71	4,194.43	45.13	22.28	21.29	1,224.81	4,535.17	2,663.17	2,624.91	38.27	69.598		
4,700.00	3,992.40	4,337.00	4,221.41	46.53	22.40	21.43	1,226.38	4,531.35	2,591.23	2,552.10	39.13	66.226		
4,800.00	4,068.53	4,385.48	4,269.43	47.92	22.59	21.69	1,228.94	4,525.17	2,520.09	2,480.10	39.99	63.018		
4,900.00	4,144.66	4,430.00	4,313.61	49.32	22.77	21.95	1,231.12	4,520.18	2,449.91	2,409.03	40.88	59.926		
5,000.00	4,220.78	4,478.31	4,361.62	50.71	22.95	22.26	1,233.20	4,515.27	2,380.49	2,338.70	41.79	56.962		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,523.00	4,406.08	52.11	23.12	22.56	1,234.76	4,511.00	2,311.66	2,268.92	42.73	54.093		
5,200.00	4,373.03	4,579.77	4,462.61	53.51	23.31	22.97	1,236.50	4,506.12	2,243.52	2,199.83	43.69	51.354		
5,300.00	4,449.16	4,627.94	4,510.63	54.90	23.47	23.34	1,237.91	4,502.56	2,176.30	2,131.62	44.68	48.704		
5,400.00	4,525.29	4,676.86	4,559.44	56.30	23.63	23.75	1,238.99	4,499.53	2,110.01	2,064.30	45.71	46.158		
5,500.00	4,601.41	4,729.17	4,611.69	57.70	23.79	24.22	1,239.61	4,496.92	2,044.68	1,997.91	46.78	43.712		
5,600.00	4,677.54	4,787.39	4,669.85	59.10	23.95	24.80	1,239.63	4,494.56	1,980.16	1,932.29	47.87	41.362		
5,700.00	4,753.66	4,847.83	4,730.26	60.49	24.11	25.44	1,239.22	4,492.60	1,916.42	1,867.40	49.02	39.096		
5,800.00	4,829.79	4,907.32	4,789.74	61.89	24.27	26.10	1,239.16	4,491.04	1,853.42	1,803.22	50.21	36.914		
5,900.00	4,905.92	4,958.05	4,840.46	63.29	24.40	26.68	1,239.17	4,490.28	1,791.54	1,740.07	51.46	34.811		
6,000.00	4,982.04	5,019.33	4,901.74	64.69	24.55	27.43	1,239.09	4,490.17	1,730.90	1,678.14	52.76	32.805		
6,100.00	5,058.17	5,098.77	4,981.17	66.09	24.73	28.45	1,238.97	4,490.13	1,670.72	1,616.62	54.10	30.882		
6,200.00	5,134.30	5,183.72	5,066.13	67.49	24.94	29.62	1,238.90	4,489.75	1,610.61	1,555.10	55.51	29.017		
6,300.00	5,210.42	5,263.52	5,145.92	68.89	25.15	30.81	1,238.80	4,489.06	1,550.59	1,493.58	57.01	27.199		
6,400.00	5,286.55	5,337.80	5,220.20	70.29	25.34	31.99	1,238.71	4,488.33	1,490.95	1,432.34	58.62	25.436		
6,500.00	5,362.67	5,414.06	5,296.46	71.69	25.54	33.29	1,238.71	4,487.64	1,431.87	1,371.55	60.32	23.736		
6,600.00	5,438.80	5,491.97	5,374.36	73.09	25.75	34.71	1,238.68	4,486.83	1,373.28	1,311.13	62.15	22.098		
6,700.00	5,514.93	5,570.72	5,453.10	74.49	25.96	36.28	1,238.42	4,485.82	1,315.19	1,251.09	64.10	20.516		
6,800.00	5,591.05	5,651.06	5,533.43	75.89	26.18	38.03	1,237.83	4,484.48	1,257.61	1,191.39	66.22	18.991		
6,900.00	5,667.18	5,729.89	5,612.24	77.29	26.39	39.91	1,237.12	4,482.84	1,200.64	1,132.12	68.52	17.524		
7,000.00	5,743.30	5,804.69	5,687.02	78.69	26.60	41.83	1,236.46	4,481.14	1,144.55	1,073.54	71.01	16.118		
7,100.00	5,819.43	5,879.12	5,761.42	80.09	26.81	43.90	1,235.75	4,479.45	1,089.67	1,015.94	73.72	14.780		
7,200.00	5,895.56	5,951.77	5,834.05	81.49	27.01	46.09	1,234.92	4,477.79	1,036.20	959.52	76.68	13.514		
7,300.00	5,971.68	6,021.93	5,904.19	82.90	27.20	48.37	1,234.06	4,476.44	984.64	904.75	79.89	12.325		
7,400.00	6,047.81	6,097.43	5,979.68	84.30	27.41	51.01	1,233.17	4,475.13	935.10	851.74	83.36	11.218		
7,500.00	6,123.94	6,173.16	6,055.39	85.70	27.62	53.87	1,232.43	4,473.82	887.70	800.59	87.11	10.191		
7,600.00	6,200.06	6,249.82	6,132.03	87.10	27.84	56.96	1,232.05	4,472.53	842.73	751.61	91.12	9.249		
7,700.00	6,276.19	6,329.40	6,211.60	88.50	28.07	60.39	1,232.08	4,471.13	800.47	705.09	95.38	8.392		
7,800.00	6,352.31	6,410.42	6,292.60	89.90	28.31	64.11	1,233.06	4,469.43	760.90	661.06	99.84	7.621		
7,900.00	6,428.44	6,481.80	6,363.96	91.31	28.53	67.60	1,234.07	4,468.04	725.19	620.72	104.46	6.942		
8,000.00	6,504.57	6,553.53	6,435.68	92.71	28.74	71.30	1,234.86	4,466.95	694.28	585.15	109.13	6.362		
8,100.00	6,580.69	6,624.82	6,506.96	94.11	28.95	75.16	1,235.39	4,466.17	668.82	555.13	113.69	5.883		
8,200.00	6,656.82	6,696.86	6,578.99	95.51	29.16	79.23	1,235.46	4,465.62	649.51	531.56	117.94	5.507		
8,300.00	6,732.95	6,771.86	6,653.99	96.91	29.37	83.58	1,235.39	4,465.19	636.55	514.87	121.69	5.231		
8,400.00	6,809.07	6,844.65	6,726.79	98.32	29.57	87.87	1,235.14	4,464.90	630.35	505.67	124.68	5.056		
8,438.64	6,838.49	6,873.33	6,755.46	98.86	29.65	89.58	1,234.97	4,464.82	629.84	504.23	125.61	5.014		
8,500.00	6,885.20	6,920.39	6,802.53	99.72	29.78	92.36	1,234.69	4,464.71	631.09	504.27	126.82	4.976		
8,600.00	6,961.32	6,995.92	6,878.05	101.12	29.99	96.80	1,234.31	4,464.54	638.46	510.45	128.02	4.987		
8,700.00	7,037.45	7,071.34	6,953.47	102.52	30.19	101.15	1,233.82	4,464.50	652.41	524.10	128.31	5.085		
8,732.15	7,061.92	7,096.37	6,978.50	102.97	30.26	102.56	1,233.68	4,464.50	658.18	529.95	128.23	5.133		
8,750.00	7,075.57	7,110.33	6,992.46	103.22	30.30	101.35	1,233.61	4,464.50	661.37	533.21	128.15	5.161		
8,800.00	7,114.27	7,149.98	7,032.11	103.91	30.40	97.60	1,233.45	4,464.50	668.32	540.50	127.82	5.229		
8,850.00	7,153.47	7,188.31	7,070.44	104.58	30.51	93.38	1,233.30	4,464.55	672.38	545.08	127.29	5.282		
8,900.00	7,192.85	7,227.23	7,109.36	105.21	30.61	89.03	1,233.11	4,464.67	673.51	546.92	126.59	5.320		
8,950.00	7,232.12	7,266.98	7,149.11	105.80	30.72	84.80	1,232.90	4,464.82	671.69	545.98	125.71	5.343		
9,000.00	7,270.99	7,306.55	7,188.67	106.35	30.82	80.91	1,232.73	4,464.93	666.91	542.27	124.64	5.351		
9,050.00	7,309.16	7,345.13	7,227.26	106.85	30.93	77.50	1,232.60	4,464.99	659.24	535.91	123.33	5.345		
9,100.00	7,346.32	7,382.38	7,264.51	107.30	31.03	74.71	1,232.49	4,465.02	648.82	527.04	121.78	5.328		
9,150.00	7,382.22	7,418.31	7,300.44	107.69	31.13	72.63	1,232.38	4,465.01	635.79	515.85	119.95	5.301		
9,200.00	7,416.56	7,452.65	7,334.78	108.02	31.23	71.29	1,232.29	4,464.98	620.36	502.55	117.80	5.266		
9,250.00	7,449.09	7,485.15	7,367.28	108.29	31.32	70.69	1,232.21	4,464.93	602.73	487.42	115.31	5.227		
9,300.00	7,479.56	7,515.57	7,397.70	108.51	31.41	70.81	1,232.14	4,464.86	583.19	470.77	112.42	5.188		
9,350.00	7,507.74	7,543.45	7,425.58	108.68	31.49	71.58	1,232.06	4,464.79	562.03	452.95	109.08	5.153		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,533.41	7,568.91	7,451.04	108.79	31.56	72.97	1,231.98	4,464.72	539.63	434.39	105.24	5.128		
9,450.00	7,556.39	7,591.75	7,473.88	108.86	31.62	74.87	1,231.90	4,464.66	516.39	415.52	100.86	5.120		
9,500.00	7,576.48	7,611.88	7,494.01	108.88	31.68	77.18	1,231.81	4,464.61	492.74	396.82	95.92	5.137		
9,550.00	7,593.55	7,629.69	7,511.82	108.86	31.73	79.83	1,231.73	4,464.58	469.18	378.72	90.46	5.187		
9,600.00	7,607.46	7,644.25	7,526.38	108.80	31.77	82.55	1,231.67	4,464.57	446.27	361.69	84.59	5.276		
9,650.00	7,618.11	7,655.43	7,537.56	108.71	31.80	85.13	1,231.63	4,464.57	424.64	346.00	78.65	5.399		
9,700.00	7,625.41	7,663.16	7,545.28	108.59	31.83	87.40	1,231.60	4,464.58	404.94	331.61	73.33	5.522		
9,750.00	7,629.30	7,667.36	7,549.49	108.45	31.84	89.20	1,231.59	4,464.59	387.82	318.02	69.81	5.556		
9,781.81	7,630.00	7,668.19	7,550.31	108.35	31.84	90.05	1,231.59	4,464.59	378.56	309.44	69.13	5.476		
9,800.00	7,630.00	7,668.25	7,550.38	108.29	31.84	90.06	1,231.59	4,464.59	374.07	304.66	69.41	5.389		
9,883.77	7,630.00	7,668.54	7,550.67	108.03	31.84	90.10	1,231.59	4,464.59	364.57	287.77	76.80	4.747 CC		
9,900.00	7,630.00	7,668.60	7,550.72	107.97	31.84	90.11	1,231.59	4,464.59	364.94	285.84	79.09	4.614 ES		
10,000.00	7,630.00	7,668.94	7,551.07	107.67	31.84	90.17	1,231.58	4,464.59	382.65	287.70	94.95	4.030		
10,100.00	7,630.00	7,669.28	7,551.41	107.38	31.84	90.22	1,231.58	4,464.59	423.88	315.15	108.72	3.899 SF		
10,200.00	7,630.00	7,669.63	7,551.75	107.10	31.84	90.28	1,231.58	4,464.59	482.61	364.36	118.25	4.081		
10,300.00	7,630.00	7,669.97	7,552.09	106.84	31.84	90.33	1,231.58	4,464.59	553.32	429.04	124.28	4.452		
10,400.00	7,630.00	7,670.30	7,552.43	106.59	31.85	90.38	1,231.58	4,464.59	631.99	503.98	128.00	4.937		
10,500.00	7,630.00	7,670.64	7,552.77	106.35	31.85	90.44	1,231.58	4,464.59	716.00	585.69	130.30	5.495		
10,600.00	7,630.00	7,670.98	7,553.10	106.13	31.85	90.49	1,231.58	4,464.60	803.68	671.94	131.74	6.101		
10,700.00	7,630.00	7,671.31	7,553.44	105.92	31.85	90.54	1,231.58	4,464.60	893.95	761.31	132.64	6.740		
10,800.00	7,630.00	7,671.65	7,553.77	105.72	31.85	90.59	1,231.57	4,464.60	986.10	852.88	133.21	7.402		
10,900.00	7,630.00	7,671.98	7,554.10	105.54	31.85	90.64	1,231.57	4,464.60	1,079.64	946.07	133.57	8.083		
11,000.00	7,630.00	7,672.31	7,554.43	105.37	31.85	90.70	1,231.57	4,464.60	1,174.26	1,040.46	133.79	8.777		
11,100.00	7,630.00	7,672.64	7,554.76	105.21	31.85	90.75	1,231.57	4,464.60	1,269.69	1,135.77	133.92	9.481		
11,200.00	7,630.00	7,672.96	7,555.09	105.06	31.85	90.80	1,231.57	4,464.60	1,365.78	1,231.79	133.99	10.193		
11,300.00	7,630.00	7,673.29	7,555.42	104.93	31.85	90.85	1,231.57	4,464.60	1,462.40	1,328.38	134.02	10.912		
11,400.00	7,630.00	7,673.62	7,555.74	104.82	31.86	90.90	1,231.57	4,464.60	1,559.44	1,425.42	134.02	11.636		
11,500.00	7,630.00	7,673.94	7,556.07	104.72	31.86	90.95	1,231.57	4,464.60	1,656.83	1,522.83	134.00	12.364		
11,600.00	7,630.00	7,674.26	7,556.39	104.63	31.86	91.00	1,231.57	4,464.60	1,754.52	1,620.55	133.97	13.096		
11,700.00	7,630.00	7,674.58	7,556.71	104.55	31.86	91.05	1,231.57	4,464.60	1,852.45	1,718.52	133.93	13.831		
11,800.00	7,630.00	7,674.90	7,557.03	104.50	31.86	91.10	1,231.56	4,464.60	1,950.60	1,816.71	133.88	14.569		
11,900.00	7,630.00	7,675.22	7,557.35	104.45	31.86	91.15	1,231.56	4,464.60	2,048.92	1,915.08	133.84	15.309		
12,000.00	7,630.00	7,675.54	7,557.67	104.43	31.86	91.20	1,231.56	4,464.61	2,147.40	2,013.61	133.79	16.051		
12,100.00	7,630.00	7,675.86	7,557.98	104.42	31.86	91.25	1,231.56	4,464.61	2,246.01	2,112.27	133.74	16.794		
12,200.00	7,630.00	7,676.17	7,558.30	104.42	31.86	91.30	1,231.56	4,464.61	2,344.74	2,211.05	133.69	17.539		
12,300.00	7,630.00	7,676.48	7,558.61	104.45	31.86	91.35	1,231.56	4,464.61	2,443.57	2,309.93	133.64	18.285		
12,400.00	7,630.00	7,676.80	7,558.92	104.49	31.86	91.40	1,231.56	4,464.61	2,542.49	2,408.91	133.59	19.032		
12,500.00	7,630.00	7,677.11	7,559.24	104.55	31.86	91.45	1,231.56	4,464.61	2,641.50	2,507.96	133.54	19.781		
12,600.00	7,630.00	7,677.42	7,559.55	104.63	31.87	91.50	1,231.56	4,464.61	2,740.58	2,607.08	133.49	20.530		
12,700.00	7,630.00	7,677.73	7,559.85	104.73	31.87	91.55	1,231.56	4,464.61	2,839.72	2,706.27	133.45	21.279		
12,800.00	7,630.00	7,678.03	7,560.16	104.85	31.87	91.60	1,231.55	4,464.61	2,938.92	2,805.51	133.41	22.030		
12,900.00	7,630.00	7,678.34	7,560.47	104.99	31.87	91.64	1,231.55	4,464.61	3,038.17	2,904.80	133.37	22.780		
13,000.00	7,630.00	7,678.65	7,560.77	105.15	31.87	91.69	1,231.55	4,464.61	3,137.47	3,004.14	133.33	23.532		
13,100.00	7,630.00	7,678.95	7,561.08	105.34	31.87	91.74	1,231.55	4,464.61	3,236.81	3,103.52	133.29	24.284		
13,200.00	7,630.00	7,679.25	7,561.38	105.56	31.87	91.79	1,231.55	4,464.61	3,336.19	3,202.94	133.26	25.036		
13,300.00	7,630.00	7,679.55	7,561.68	105.80	31.87	91.84	1,231.55	4,464.62	3,435.61	3,302.39	133.22	25.788		
13,400.00	7,630.00	7,679.86	7,561.98	106.06	31.87	91.88	1,231.55	4,464.62	3,535.06	3,401.87	133.19	26.541		
13,500.00	7,630.00	7,680.15	7,562.28	106.36	31.87	91.93	1,231.55	4,464.62	3,634.54	3,501.38	133.16	27.294		
13,600.00	7,630.00	7,680.45	7,562.58	106.68	31.87	91.98	1,231.55	4,464.62	3,734.05	3,600.92	133.13	28.048		
13,700.00	7,630.00	7,680.75	7,562.88	107.03	31.88	92.02	1,231.55	4,464.62	3,833.59	3,700.48	133.11	28.801		
13,800.00	7,630.00	7,681.05	7,563.17	107.42	31.88	92.07	1,231.54	4,464.62	3,933.14	3,800.07	133.08	29.555		
13,900.00	7,630.00	7,681.34	7,563.47	107.83	31.88	92.12	1,231.54	4,464.62	4,032.72	3,899.67	133.06	30.309		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,681.63	7,563.76	108.28	31.88	92.16	1,231.54	4,464.62	4,132.32	3,999.29	133.03	31.063		
14,100.00	7,630.00	7,681.93	7,564.05	108.77	31.88	92.21	1,231.54	4,464.62	4,231.94	4,098.93	133.01	31.817		
14,200.00	7,630.00	7,682.22	7,564.34	109.29	31.88	92.25	1,231.54	4,464.62	4,331.58	4,198.59	132.99	32.571		
14,300.00	7,630.00	7,682.51	7,564.63	109.84	31.88	92.30	1,231.54	4,464.62	4,431.23	4,298.26	132.97	33.325		
14,400.00	7,630.00	7,682.80	7,564.92	110.43	31.88	92.34	1,231.54	4,464.62	4,530.90	4,397.95	132.95	34.079		
14,500.00	7,630.00	7,683.09	7,565.21	111.06	31.88	92.39	1,231.54	4,464.63	4,630.58	4,497.65	132.94	34.833		
14,600.00	7,630.00	7,683.37	7,565.50	111.72	31.88	92.43	1,231.54	4,464.63	4,730.28	4,597.36	132.92	35.587		
14,700.00	7,630.00	7,683.66	7,565.78	112.42	31.88	92.48	1,231.54	4,464.63	4,829.99	4,697.08	132.91	36.341		
14,800.00	7,630.00	7,683.94	7,566.07	113.16	31.88	92.52	1,231.54	4,464.63	4,929.71	4,796.81	132.89	37.096		
14,900.00	7,630.00	7,684.23	7,566.35	113.94	31.88	92.57	1,231.54	4,464.63	5,029.44	4,896.56	132.88	37.850		
15,000.00	7,630.00	7,684.51	7,566.64	114.75	31.89	92.61	1,231.53	4,464.63	5,129.18	4,996.31	132.87	38.604		
15,100.00	7,630.00	7,684.79	7,566.92	115.60	31.89	92.66	1,231.53	4,464.63	5,228.93	5,096.07	132.86	39.358		
15,200.00	7,630.00	7,685.07	7,567.20	116.48	31.89	92.70	1,231.53	4,464.63	5,328.69	5,195.84	132.85	40.111		
15,300.00	7,630.00	7,685.35	7,567.48	117.40	31.89	92.74	1,231.53	4,464.63	5,428.46	5,295.62	132.84	40.865		
15,400.00	7,630.00	7,685.63	7,567.76	118.35	31.89	92.79	1,231.53	4,464.63	5,528.24	5,395.41	132.83	41.619		
15,500.00	7,630.00	7,685.91	7,568.03	119.34	31.89	92.83	1,231.53	4,464.63	5,628.02	5,495.20	132.82	42.372		
15,600.00	7,630.00	7,686.18	7,568.31	120.35	31.89	92.88	1,231.53	4,464.63	5,727.82	5,595.00	132.82	43.126		
15,700.00	7,630.00	7,686.46	7,568.59	121.40	31.89	92.92	1,231.53	4,464.64	5,827.62	5,694.81	132.81	43.879		
15,800.00	7,630.00	7,686.73	7,568.86	122.48	31.89	92.96	1,231.53	4,464.64	5,927.42	5,794.62	132.81	44.632		
15,900.00	7,630.00	7,687.01	7,569.13	123.58	31.89	93.00	1,231.53	4,464.64	6,027.24	5,894.44	132.80	45.385		
16,000.00	7,630.00	7,687.28	7,569.41	124.71	31.89	93.05	1,231.53	4,464.64	6,127.06	5,994.26	132.80	46.138		
16,100.00	7,630.00	7,687.55	7,569.68	125.87	31.89	93.09	1,231.52	4,464.64	6,226.88	6,094.09	132.79	46.891		
16,200.00	7,630.00	7,687.82	7,569.95	127.05	31.89	93.13	1,231.52	4,464.64	6,326.71	6,193.92	132.79	47.643		
16,300.00	7,630.00	7,688.09	7,570.22	128.26	31.90	93.17	1,231.52	4,464.64	6,426.55	6,293.76	132.79	48.396		
16,400.00	7,630.00	7,688.36	7,570.48	129.48	31.90	93.22	1,231.52	4,464.64	6,526.39	6,393.60	132.79	49.148		
16,500.00	7,630.00	7,688.63	7,570.75	130.73	31.90	93.26	1,231.52	4,464.64	6,626.24	6,493.45	132.79	49.900		
16,600.00	7,630.00	7,688.89	7,571.02	132.00	31.90	93.30	1,231.52	4,464.64	6,726.09	6,593.30	132.79	50.652		
16,700.00	7,630.00	7,689.16	7,571.28	133.29	31.90	93.34	1,231.52	4,464.64	6,825.94	6,693.15	132.79	51.403		
16,800.00	7,630.00	7,689.42	7,571.55	134.59	31.90	93.38	1,231.52	4,464.65	6,925.80	6,793.01	132.79	52.155		
16,900.00	7,630.00	7,689.69	7,571.81	135.91	31.90	93.42	1,231.52	4,464.65	7,025.66	6,892.87	132.80	52.906		
17,000.00	7,630.00	7,689.95	7,572.07	137.25	31.90	93.47	1,231.52	4,464.65	7,125.53	6,992.73	132.80	53.657		
17,100.00	7,630.00	7,690.21	7,572.34	138.61	31.90	93.51	1,231.52	4,464.65	7,225.40	7,092.60	132.80	54.407		
17,200.00	7,630.00	7,690.47	7,572.60	139.97	31.90	93.55	1,231.52	4,464.65	7,325.27	7,192.47	132.81	55.158		
17,300.00	7,630.00	7,690.73	7,572.86	141.36	31.90	93.59	1,231.52	4,464.65	7,425.15	7,292.34	132.81	55.908		
17,400.00	7,630.00	7,690.99	7,573.12	142.75	31.90	93.63	1,231.51	4,464.65	7,525.03	7,392.22	132.82	56.658		
17,500.00	7,630.00	7,691.25	7,573.37	144.16	31.90	93.67	1,231.51	4,464.65	7,624.92	7,492.09	132.82	57.407		
17,600.00	7,630.00	7,691.50	7,573.63	145.58	31.91	93.71	1,231.51	4,464.65	7,724.80	7,591.97	132.83	58.157		
17,700.00	7,630.00	7,691.76	7,573.89	147.01	31.91	93.75	1,231.51	4,464.65	7,824.69	7,691.86	132.83	58.906		
17,800.00	7,630.00	7,692.01	7,574.14	148.45	31.91	93.79	1,231.51	4,464.65	7,924.58	7,791.74	132.84	59.655		
17,900.00	7,630.00	7,692.27	7,574.40	149.91	31.91	93.83	1,231.51	4,464.66	8,024.48	7,891.63	132.85	60.403		
18,000.00	7,630.00	7,692.52	7,574.65	151.37	31.91	93.87	1,231.51	4,464.66	8,124.38	7,991.52	132.86	61.151		
18,100.00	7,630.00	7,692.77	7,574.90	152.84	31.91	93.91	1,231.51	4,464.66	8,224.28	8,091.41	132.87	61.899		
18,200.00	7,630.00	7,693.03	7,575.15	154.32	31.91	93.95	1,231.51	4,464.66	8,324.18	8,191.31	132.87	62.647		
18,300.00	7,630.00	7,693.28	7,575.40	155.81	31.91	93.99	1,231.51	4,464.66	8,424.08	8,291.20	132.88	63.394		
18,400.00	7,630.00	7,693.53	7,575.65	157.31	31.91	94.03	1,231.51	4,464.66	8,523.99	8,391.10	132.89	64.142		
18,500.00	7,630.00	7,693.78	7,575.90	158.81	31.91	94.06	1,231.51	4,464.66	8,623.90	8,491.00	132.90	64.888		
18,600.00	7,630.00	7,694.02	7,576.15	160.32	31.91	94.10	1,231.51	4,464.66	8,723.81	8,590.90	132.91	65.635		
18,700.00	7,630.00	7,694.27	7,576.40	161.84	31.91	94.14	1,231.51	4,464.66	8,823.72	8,690.80	132.93	66.381		
18,800.00	7,630.00	7,694.52	7,576.64	163.37	31.91	94.18	1,231.50	4,464.66	8,923.64	8,790.70	132.94	67.127		
18,900.00	7,630.00	7,694.76	7,576.89	164.90	31.91	94.22	1,231.50	4,464.66	9,023.56	8,890.61	132.95	67.872		
19,000.00	7,630.00	7,695.01	7,577.13	166.43	31.91	94.26	1,231.50	4,464.67	9,123.48	8,990.51	132.96	68.617		
19,100.00	7,630.00	7,695.25	7,577.38	167.98	31.92	94.30	1,231.50	4,464.67	9,223.40	9,090.42	132.97	69.362		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	7,695.49	7,577.62	169.53	31.92	94.33	1,231.50	4,464.67	9,323.32	9,190.33	132.99	70.106	
19,300.00	7,630.00	7,695.73	7,577.86	171.08	31.92	94.37	1,231.50	4,464.67	9,423.24	9,290.24	133.00	70.850	
19,400.00	7,630.00	7,695.98	7,578.10	172.64	31.92	94.41	1,231.50	4,464.67	9,523.17	9,390.15	133.02	71.594	
19,500.00	7,630.00	7,696.22	7,578.34	174.21	31.92	94.45	1,231.50	4,464.67	9,623.09	9,490.06	133.03	72.337	
19,518.56	7,630.00	7,696.26	7,578.39	174.50	31.92	94.45	1,231.50	4,464.67	9,641.64	9,508.61	133.03	72.475	

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.01	751.01	5,352.93	5,405.95					
100.00	100.00	37.98	37.98	0.13	0.06	82.01	750.99	5,352.87	5,405.32	5,405.13	0.19	N/A		
200.00	200.00	157.65	157.65	0.49	0.40	82.01	750.83	5,352.13	5,404.67	5,403.77	0.89	6,049.287		
300.00	300.00	248.80	248.79	0.85	0.73	82.01	750.81	5,351.55	5,404.04	5,402.46	1.58	3,424.281		
400.00	400.00	355.20	355.19	1.21	1.11	82.01	750.92	5,350.92	5,403.47	5,401.15	2.32	2,331.724		
500.00	499.98	416.70	416.69	1.56	1.32	15.31	750.32	5,350.83	5,401.50	5,398.62	2.89	1,872.217		
600.00	599.84	481.80	481.75	1.92	1.55	15.36	748.28	5,351.38	5,396.85	5,393.38	3.47	1,557.463		
700.00	699.45	534.00	533.87	2.29	1.73	15.44	745.57	5,352.26	5,389.48	5,385.48	4.00	1,346.363		
800.00	798.70	591.74	591.44	2.67	1.94	15.56	741.44	5,353.86	5,379.59	5,375.01	4.57	1,177.125		
900.00	897.47	649.56	648.97	3.07	2.15	15.72	736.12	5,356.25	5,367.30	5,362.16	5.15	1,043.018		
1,000.00	995.62	716.00	714.86	3.50	2.39	15.93	728.24	5,359.48	5,352.21	5,346.44	5.76	928.399		
1,100.00	1,093.06	763.64	761.93	3.96	2.58	16.13	721.51	5,362.29	5,334.62	5,328.29	6.33	842.711		
1,200.00	1,189.64	809.00	806.60	4.46	2.77	16.36	714.37	5,365.62	5,314.85	5,307.96	6.90	770.809		
1,300.00	1,285.27	851.87	848.70	5.00	2.95	16.61	707.09	5,369.23	5,292.82	5,285.35	7.47	708.626		
1,400.00	1,379.82	902.00	897.80	5.60	3.17	16.92	698.14	5,373.90	5,268.45	5,260.36	8.08	651.664		
1,500.00	1,473.17	958.07	952.58	6.25	3.42	17.27	687.63	5,379.58	5,241.69	5,232.94	8.75	599.062		
1,600.00	1,565.21	1,014.99	1,008.05	6.95	3.69	17.66	676.49	5,385.79	5,212.51	5,203.07	9.44	552.362		
1,700.00	1,655.84	1,077.00	1,068.21	7.72	3.99	18.12	663.29	5,393.02	5,180.90	5,170.73	10.17	509.343		
1,800.00	1,744.94	1,176.68	1,164.59	8.55	4.50	18.79	640.84	5,404.96	5,146.58	5,135.46	11.12	462.651		
1,900.00	1,832.39	1,271.65	1,256.81	9.45	4.99	19.49	620.87	5,415.72	5,108.93	5,096.86	12.07	423.241		
2,000.00	1,918.11	1,320.67	1,304.43	10.41	5.24	20.01	610.77	5,421.48	5,068.90	5,056.10	12.81	395.827		
2,100.00	2,001.97	1,387.86	1,369.58	11.45	5.59	20.67	596.58	5,429.81	5,026.63	5,012.97	13.66	368.006		
2,200.00	2,083.88	1,459.70	1,438.99	12.56	5.98	21.43	580.45	5,438.86	4,981.81	4,967.24	14.57	341.985		
2,300.00	2,163.74	1,523.16	1,500.08	13.74	6.34	22.21	565.37	5,447.06	4,934.63	4,919.17	15.46	319.088		
2,400.00	2,241.45	1,620.94	1,594.10	14.99	6.89	23.28	541.64	5,459.66	4,884.93	4,868.35	16.58	294.561		
2,421.22	2,257.65	1,645.93	1,618.17	15.26	7.03	23.55	535.68	5,462.80	4,874.02	4,857.17	16.85	289.274		
2,500.00	2,317.63	1,724.68	1,694.22	16.29	7.47	24.08	517.63	5,472.36	4,833.19	4,815.44	17.75	272.278		
2,600.00	2,393.75	1,778.15	1,745.94	17.62	7.77	24.43	505.75	5,478.91	4,781.76	4,763.10	18.66	256.227		
2,700.00	2,469.88	1,849.36	1,814.83	18.95	8.16	24.91	490.08	5,487.88	4,730.97	4,711.28	19.69	240.271		
2,800.00	2,546.01	1,954.76	1,916.88	20.30	8.74	25.63	467.15	5,500.85	4,680.34	4,659.42	20.92	223.747		
2,900.00	2,622.13	2,034.73	1,994.51	21.65	9.18	26.18	450.41	5,510.23	4,629.62	4,607.59	22.03	210.140		
3,000.00	2,698.26	2,100.29	2,058.03	23.01	9.54	26.65	436.22	5,518.08	4,579.48	4,556.39	23.09	198.298		
3,100.00	2,774.38	2,204.14	2,158.39	24.37	10.12	27.41	412.41	5,530.20	4,529.53	4,505.13	24.40	185.644		
3,200.00	2,850.51	2,301.70	2,252.53	25.74	10.67	28.16	389.23	5,541.00	4,479.60	4,453.90	25.70	174.291		
3,300.00	2,926.64	2,410.54	2,358.00	27.11	11.27	28.99	364.92	5,552.47	4,429.70	4,402.63	27.07	163.621		
3,400.00	3,002.76	2,505.01	2,450.02	28.49	11.78	29.70	345.68	5,561.79	4,379.61	4,351.24	28.37	154.369		
3,500.00	3,078.89	2,554.00	2,497.69	29.87	12.04	30.08	335.46	5,566.57	4,329.99	4,300.54	29.46	146.999		
3,600.00	3,155.02	2,601.27	2,543.61	31.25	12.30	30.45	325.35	5,571.46	4,281.31	4,250.75	30.56	140.098		
3,700.00	3,231.14	2,648.00	2,588.90	32.63	12.55	30.83	315.17	5,576.81	4,233.84	4,202.16	31.68	133.638		
3,800.00	3,307.27	2,783.57	2,720.37	34.01	13.30	31.94	285.53	5,591.44	4,186.44	4,153.11	33.32	125.641		
3,900.00	3,383.39	2,855.96	2,790.59	35.40	13.70	32.55	269.47	5,598.70	4,139.04	4,104.40	34.64	119.486		
4,000.00	3,459.52	2,916.91	2,849.58	36.79	14.04	33.08	255.48	5,604.89	4,092.37	4,056.44	35.93	113.908		
4,100.00	3,535.65	2,996.55	2,926.62	38.18	14.49	33.78	236.99	5,613.06	4,046.38	4,009.03	37.35	108.340		
4,200.00	3,611.77	3,052.57	2,980.88	39.57	14.80	34.28	224.29	5,618.84	4,001.00	3,962.34	38.66	103.500		
4,300.00	3,687.90	3,096.51	3,023.35	40.96	15.05	34.67	214.15	5,623.67	3,956.76	3,916.85	39.92	99.126		
4,400.00	3,764.02	3,156.54	3,081.32	42.35	15.39	35.22	200.16	5,630.64	3,913.66	3,872.37	41.30	94.770		
4,500.00	3,840.15	3,249.20	3,170.95	43.74	15.91	36.07	179.39	5,641.57	3,871.27	3,828.38	42.89	90.252		
4,600.00	3,916.28	3,354.05	3,272.73	45.13	16.49	37.03	157.09	5,653.20	3,828.79	3,784.21	44.58	85.883		
4,700.00	3,992.40	3,427.47	3,343.85	46.53	16.90	37.73	140.57	5,660.96	3,786.84	3,740.72	46.12	82.109		
4,800.00	4,068.53	3,494.08	3,408.31	47.92	17.27	38.38	125.30	5,668.03	3,745.73	3,698.08	47.65	78.610		
4,900.00	4,144.66	3,542.60	3,455.21	49.32	17.55	38.86	114.11	5,673.39	3,705.72	3,656.63	49.09	75.490		
5,000.00	4,220.78	3,606.22	3,516.67	50.71	17.91	39.49	99.47	5,680.87	3,666.97	3,616.33	50.65	72.403		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,100.00	4,296.91	3,727.31	3,634.28	52.11	18.57	40.67	74.32	5,694.88	3,628.41	3,575.84	52.57	69.017		
5,200.00	4,373.03	3,810.86	3,715.79	53.51	19.01	41.48	58.68	5,704.43	3,590.11	3,535.85	54.27	66.156		
5,300.00	4,449.16	3,880.79	3,783.96	54.90	19.38	42.17	45.24	5,712.35	3,552.63	3,496.72	55.91	63.541		
5,400.00	4,525.29	3,946.00	3,847.47	56.30	19.73	42.83	32.50	5,719.85	3,516.14	3,458.59	57.55	61.092		
5,500.00	4,601.41	4,001.56	3,901.55	57.70	20.02	43.39	21.60	5,726.45	3,480.80	3,421.64	59.16	58.836		
5,600.00	4,677.54	4,055.57	3,954.07	59.10	20.31	43.94	10.99	5,733.25	3,446.82	3,386.04	60.78	56.712		
5,700.00	4,753.66	4,150.45	4,046.31	60.49	20.83	44.93	-7.76	5,745.19	3,413.75	3,351.06	62.69	54.452		
5,800.00	4,829.79	4,216.18	4,110.25	61.89	21.18	45.62	-20.58	5,753.45	3,381.51	3,317.08	64.43	52.480		
5,900.00	4,905.92	4,400.76	4,290.63	63.29	22.12	47.55	-52.82	5,775.50	3,349.21	3,282.27	66.94	50.037		
6,000.00	4,982.04	4,472.19	4,360.74	64.69	22.48	48.30	-64.13	5,783.13	3,316.33	3,247.58	68.75	48.240		
6,100.00	5,058.17	4,528.10	4,415.41	66.09	22.76	48.91	-74.35	5,788.91	3,284.87	3,214.37	70.50	46.594		
6,200.00	5,134.30	4,680.95	4,564.94	67.49	23.53	50.63	-102.59	5,803.20	3,253.90	3,180.97	72.93	44.617		
6,300.00	5,210.42	4,848.89	4,730.15	68.89	24.32	52.56	-130.36	5,814.64	3,221.11	3,145.69	75.42	42.710		
6,400.00	5,286.55	4,942.36	4,822.54	70.29	24.73	53.61	-142.76	5,821.46	3,189.00	3,111.56	77.44	41.180		
6,500.00	5,362.67	5,379.64	5,257.81	71.69	26.29	58.58	-178.11	5,834.66	3,153.03	3,072.47	80.56	39.140		
6,600.00	5,438.80	5,446.46	5,324.54	73.09	26.49	59.37	-181.30	5,833.73	3,113.96	3,031.49	82.47	37.757		
6,700.00	5,514.93	5,577.89	5,455.94	74.49	26.82	60.89	-183.59	5,832.61	3,075.02	2,990.58	84.44	36.417		
6,800.00	5,591.05	5,655.97	5,534.02	75.89	27.00	61.79	-183.25	5,832.19	3,036.43	2,950.09	86.34	35.168		
6,900.00	5,667.18	5,754.56	5,632.59	77.29	27.22	62.96	-182.57	5,831.29	2,998.40	2,910.13	88.27	33.967		
7,000.00	5,743.30	5,826.59	5,704.62	78.69	27.38	63.82	-182.00	5,830.48	2,961.14	2,870.91	90.23	32.816		
7,100.00	5,819.43	5,896.04	5,774.06	80.09	27.55	64.67	-181.58	5,829.67	2,924.94	2,832.71	92.22	31.715		
7,200.00	5,895.56	5,969.69	5,847.71	81.49	27.72	65.59	-181.42	5,828.79	2,889.91	2,795.66	94.25	30.664		
7,300.00	5,971.68	6,053.43	5,931.44	82.90	27.92	66.65	-181.14	5,827.76	2,855.89	2,759.60	96.29	29.658		
7,400.00	6,047.81	6,141.58	6,019.58	84.30	28.13	67.78	-180.66	5,826.28	2,822.61	2,724.24	98.36	28.696		
7,500.00	6,123.94	6,219.76	6,097.75	85.70	28.31	68.80	-179.97	5,824.95	2,790.32	2,689.87	100.45	27.779		
7,600.00	6,200.06	6,299.14	6,177.11	87.10	28.50	69.86	-179.14	5,823.58	2,759.13	2,656.58	102.55	26.906		
7,700.00	6,276.19	6,371.39	6,249.35	88.50	28.67	70.82	-178.27	5,822.41	2,729.15	2,624.49	104.66	26.077		
7,800.00	6,352.31	6,426.50	6,304.44	89.90	28.81	71.57	-177.58	5,821.78	2,700.69	2,593.91	106.78	25.292		
7,900.00	6,428.44	6,474.70	6,352.65	91.31	28.93	72.22	-177.20	5,821.69	2,674.27	2,565.38	108.90	24.558		
8,000.00	6,504.57	6,540.44	6,418.38	92.71	29.10	73.12	-177.00	5,822.00	2,649.78	2,538.75	111.03	23.866		
8,100.00	6,580.69	6,615.13	6,493.07	94.11	29.31	74.15	-177.10	5,822.22	2,626.80	2,513.62	113.18	23.209		
8,200.00	6,656.82	6,696.86	6,574.80	95.51	29.54	75.30	-177.34	5,822.22	2,605.16	2,489.82	115.34	22.587		
8,300.00	6,732.95	6,786.33	6,664.27	96.91	29.78	76.58	-177.53	5,821.77	2,584.67	2,467.17	117.50	21.996		
8,400.00	6,809.07	6,852.79	6,730.72	98.32	29.96	77.54	-177.61	5,821.53	2,565.68	2,446.06	119.63	21.447		
8,500.00	6,885.20	6,919.55	6,797.48	99.72	30.15	78.50	-177.73	5,821.49	2,548.41	2,426.68	121.73	20.934		
8,600.00	6,961.32	6,990.45	6,868.39	101.12	30.35	79.53	-178.03	5,821.64	2,532.95	2,409.12	123.83	20.456		
8,700.00	7,037.45	7,067.96	6,945.89	102.52	30.58	80.67	-178.41	5,821.77	2,519.10	2,393.19	125.91	20.007		
8,732.15	7,061.92	7,093.92	6,971.86	102.97	30.65	81.05	-178.53	5,821.79	2,514.96	2,388.39	126.57	19.870		
8,750.00	7,075.57	7,108.38	6,986.32	103.22	30.70	79.13	-178.60	5,821.78	2,512.49	2,385.55	126.94	19.793		
8,800.00	7,114.27	7,149.35	7,027.29	103.91	30.82	73.34	-178.80	5,821.72	2,503.19	2,375.26	127.93	19.567		
8,850.00	7,153.47	7,184.77	7,062.70	104.58	30.92	66.98	-179.00	5,821.68	2,490.47	2,361.61	128.86	19.327		
8,900.00	7,192.85	7,221.24	7,099.17	105.21	31.03	60.30	-179.22	5,821.66	2,474.38	2,344.65	129.73	19.074		
8,950.00	7,232.12	7,260.95	7,138.88	105.80	31.14	53.53	-179.50	5,821.65	2,454.95	2,324.41	130.54	18.806		
9,000.00	7,270.99	7,302.41	7,180.35	106.35	31.26	46.81	-179.77	5,821.59	2,432.20	2,300.92	131.28	18.527		
9,050.00	7,309.16	7,341.51	7,219.44	106.85	31.38	40.19	-180.02	5,821.48	2,406.24	2,274.30	131.95	18.237		
9,100.00	7,346.32	7,376.74	7,254.67	107.30	31.48	33.71	-180.27	5,821.37	2,377.27	2,244.74	132.53	17.938		
9,150.00	7,382.22	7,410.82	7,288.75	107.69	31.58	27.36	-180.55	5,821.26	2,345.45	2,212.42	133.03	17.631		
9,200.00	7,416.56	7,443.51	7,321.43	108.02	31.68	21.04	-180.84	5,821.15	2,310.98	2,177.53	133.44	17.318		
9,250.00	7,449.09	7,474.55	7,352.48	108.29	31.77	14.59	-181.15	5,821.04	2,274.07	2,140.30	133.78	16.999		
9,300.00	7,479.56	7,503.73	7,381.65	108.51	31.86	7.77	-181.47	5,820.93	2,234.98	2,100.95	134.02	16.676		
9,350.00	7,507.74	7,529.30	7,407.22	108.68	31.93	0.31	-181.77	5,820.84	2,193.97	2,059.79	134.18	16.351		
9,400.00	7,533.41	7,551.63	7,429.55	108.79	32.00	-8.11	-182.08	5,820.77	2,151.37	2,017.12	134.25	16.025		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
9,450.00	7,556.39	7,571.82	7,449.73	108.86	32.06	-17.77	-182.39	5,820.71	2,107.51	1,973.28	134.23	15.701		
9,500.00	7,576.48	7,589.69	7,467.60	108.88	32.12	-28.80	-182.69	5,820.66	2,062.72	1,928.59	134.12	15.379		
9,550.00	7,593.55	7,605.09	7,483.00	108.86	32.16	-40.96	-182.97	5,820.63	2,017.36	1,883.43	133.93	15.063		
9,600.00	7,607.46	7,621.04	7,498.95	108.80	32.21	-53.66	-183.26	5,820.60	1,971.83	1,838.18	133.65	14.754		
9,650.00	7,618.11	7,634.45	7,512.35	108.71	32.25	-65.71	-183.49	5,820.58	1,926.51	1,793.24	133.27	14.456		
9,700.00	7,625.41	7,643.83	7,521.74	108.59	32.28	-76.11	-183.64	5,820.58	1,881.85	1,749.05	132.80	14.171		
9,750.00	7,629.30	7,649.20	7,527.10	108.45	32.30	-84.48	-183.72	5,820.57	1,838.30	1,706.07	132.23	13.903		
9,781.81	7,630.00	7,650.53	7,528.44	108.35	32.30	-88.76	-183.74	5,820.57	1,811.38	1,679.57	131.81	13.742		
9,800.00	7,630.00	7,650.83	7,528.74	108.29	32.30	-88.78	-183.74	5,820.57	1,796.21	1,664.66	131.56	13.653		
9,900.00	7,630.00	7,652.47	7,530.37	107.97	32.31	-88.87	-183.77	5,820.57	1,713.91	1,583.86	130.05	13.179		
10,000.00	7,630.00	7,654.06	7,531.97	107.67	32.31	-88.96	-183.79	5,820.57	1,633.58	1,505.26	128.31	12.731		
10,100.00	7,630.00	7,655.62	7,533.52	107.38	32.32	-89.05	-183.81	5,820.57	1,555.52	1,429.22	126.31	12.315		
10,200.00	7,630.00	7,657.14	7,535.04	107.10	32.32	-89.14	-183.83	5,820.57	1,480.11	1,356.12	123.99	11.937		
10,300.00	7,630.00	7,658.62	7,536.52	106.84	32.33	-89.22	-183.85	5,820.57	1,407.77	1,286.46	121.31	11.604		
10,400.00	7,630.00	7,660.06	7,537.97	106.59	32.33	-89.31	-183.87	5,820.57	1,338.99	1,220.76	118.22	11.326		
10,500.00	7,630.00	7,661.48	7,539.38	106.35	32.34	-89.39	-183.89	5,820.57	1,274.35	1,159.67	114.68	11.113		
10,600.00	7,630.00	7,662.86	7,540.76	106.13	32.34	-89.47	-183.91	5,820.57	1,214.51	1,103.88	110.63	10.978		
10,700.00	7,630.00	7,664.21	7,542.11	105.92	32.34	-89.55	-183.93	5,820.57	1,160.21	1,054.13	106.08	10.937 SF		
10,800.00	7,630.00	7,665.52	7,543.43	105.72	32.35	-89.62	-183.94	5,820.57	1,112.27	1,011.21	101.06	11.006		
10,900.00	7,630.00	7,666.81	7,544.72	105.54	32.35	-89.70	-183.96	5,820.57	1,071.54	975.83	95.71	11.196		
11,000.00	7,630.00	7,668.07	7,545.98	105.37	32.36	-89.77	-183.98	5,820.57	1,038.87	948.58	90.29	11.506		
11,100.00	7,630.00	7,669.31	7,547.21	105.21	32.36	-89.84	-183.99	5,820.57	1,015.04	929.80	85.24	11.908		
11,200.00	7,630.00	7,670.51	7,548.42	105.06	32.36	-89.91	-184.01	5,820.57	1,000.67	919.48	81.20	12.324		
11,294.79	7,630.00	7,671.63	7,549.54	104.94	32.37	-89.97	-184.02	5,820.57	996.17	917.22	78.95	12.618 CC, ES		
11,300.00	7,630.00	7,671.69	7,549.60	104.93	32.37	-89.98	-184.02	5,820.57	996.19	917.31	78.88	12.629		
11,400.00	7,630.00	7,672.85	7,550.75	104.82	32.37	-90.04	-184.03	5,820.57	1,001.71	922.90	78.81	12.710		
11,500.00	7,630.00	7,673.98	7,551.88	104.72	32.37	-90.11	-184.05	5,820.57	1,017.09	936.11	80.97	12.561		
11,600.00	7,630.00	7,675.09	7,552.99	104.63	32.38	-90.17	-184.06	5,820.57	1,041.87	957.04	84.84	12.281		
11,700.00	7,630.00	7,676.17	7,554.08	104.55	32.38	-90.23	-184.07	5,820.57	1,075.42	985.74	89.68	11.992		
11,800.00	7,630.00	7,677.24	7,555.14	104.50	32.38	-90.30	-184.09	5,820.57	1,116.94	1,022.08	94.87	11.774		
11,900.00	7,630.00	7,678.28	7,556.18	104.45	32.39	-90.36	-184.10	5,820.58	1,165.59	1,065.61	99.97	11.659		
12,000.00	7,630.00	7,679.30	7,557.20	104.43	32.39	-90.41	-184.11	5,820.58	1,220.50	1,115.74	104.75	11.651		
12,100.00	7,630.00	7,680.30	7,558.20	104.42	32.39	-90.47	-184.12	5,820.58	1,280.87	1,171.78	109.10	11.741		
12,200.00	7,630.00	7,681.28	7,559.19	104.42	32.40	-90.53	-184.13	5,820.58	1,345.98	1,233.01	112.97	11.915		
12,300.00	7,630.00	7,682.25	7,560.15	104.45	32.40	-90.58	-184.14	5,820.58	1,415.16	1,298.78	116.38	12.160		
12,400.00	7,630.00	7,683.19	7,561.09	104.49	32.40	-90.64	-184.15	5,820.58	1,487.85	1,368.48	119.37	12.464		
12,500.00	7,630.00	7,684.12	7,562.02	104.55	32.40	-90.69	-184.16	5,820.58	1,563.56	1,441.58	121.98	12.818		
12,600.00	7,630.00	7,685.03	7,562.93	104.63	32.41	-90.74	-184.17	5,820.58	1,641.86	1,517.61	124.25	13.214		
12,700.00	7,630.00	7,685.92	7,563.82	104.73	32.41	-90.79	-184.18	5,820.58	1,722.42	1,596.18	126.24	13.644		
12,800.00	7,630.00	7,686.79	7,564.70	104.85	32.41	-90.85	-184.19	5,820.58	1,804.92	1,676.94	127.98	14.104		
12,900.00	7,630.00	7,687.65	7,565.56	104.99	32.42	-90.89	-184.20	5,820.58	1,889.11	1,759.61	129.50	14.588		
13,000.00	7,630.00	7,688.50	7,566.40	105.15	32.42	-90.94	-184.21	5,820.58	1,974.78	1,843.94	130.84	15.093		
13,100.00	7,630.00	7,689.33	7,567.23	105.34	32.42	-90.99	-184.22	5,820.59	2,061.74	1,929.72	132.02	15.617		
13,200.00	7,630.00	7,690.14	7,568.04	105.56	32.42	-91.04	-184.23	5,820.59	2,149.83	2,016.76	133.07	16.156		
13,300.00	7,630.00	7,690.94	7,568.84	105.80	32.43	-91.08	-184.23	5,820.59	2,238.92	2,104.92	133.99	16.709		
13,400.00	7,630.00	7,691.73	7,569.63	106.06	32.43	-91.13	-184.24	5,820.59	2,328.90	2,194.07	134.82	17.274		
13,500.00	7,630.00	7,692.50	7,570.40	106.36	32.43	-91.17	-184.25	5,820.59	2,419.66	2,284.10	135.56	17.849		
13,600.00	7,630.00	7,693.26	7,571.16	106.68	32.43	-91.22	-184.26	5,820.59	2,511.12	2,374.90	136.23	18.433		
13,700.00	7,630.00	7,694.01	7,571.91	107.03	32.43	-91.26	-184.26	5,820.59	2,603.22	2,466.39	136.83	19.026		
13,800.00	7,630.00	7,694.74	7,572.64	107.42	32.44	-91.30	-184.27	5,820.59	2,695.87	2,558.50	137.37	19.625		
13,900.00	7,630.00	7,695.46	7,573.36	107.83	32.44	-91.34	-184.28	5,820.59	2,789.04	2,651.18	137.86	20.231		
14,000.00	7,630.00	7,696.17	7,574.07	108.28	32.44	-91.38	-184.28	5,820.59	2,882.66	2,744.35	138.30	20.843		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,696.87	7,574.77	108.77	32.44	-91.42	-184.29	5,820.60	2,976.69	2,837.98	138.71	21.460		
14,200.00	7,630.00	7,697.56	7,575.46	109.29	32.45	-91.46	-184.30	5,820.60	3,071.10	2,932.02	139.08	22.081		
14,300.00	7,630.00	7,704.00	7,581.90	109.84	32.47	-91.83	-184.36	5,820.61	3,165.87	3,026.45	139.42	22.707		
14,400.00	7,630.00	7,704.00	7,581.90	110.43	32.47	-91.83	-184.36	5,820.61	3,260.93	3,121.20	139.73	23.337		
14,500.00	7,630.00	7,704.00	7,581.90	111.06	32.47	-91.83	-184.36	5,820.61	3,356.29	3,216.26	140.02	23.969		
14,600.00	7,630.00	7,704.00	7,581.90	111.72	32.47	-91.83	-184.36	5,820.61	3,451.90	3,311.61	140.29	24.605		
14,700.00	7,630.00	7,704.00	7,581.90	112.42	32.47	-91.83	-184.36	5,820.61	3,547.76	3,407.22	140.54	25.244		
14,800.00	7,630.00	7,704.00	7,581.90	113.16	32.47	-91.83	-184.36	5,820.61	3,643.84	3,503.07	140.77	25.885		
14,900.00	7,630.00	7,704.00	7,581.90	113.94	32.47	-91.83	-184.36	5,820.61	3,740.13	3,599.14	140.98	26.529		
15,000.00	7,630.00	7,704.00	7,581.90	114.75	32.47	-91.83	-184.36	5,820.61	3,836.61	3,695.42	141.18	27.175		
15,100.00	7,630.00	7,704.00	7,581.90	115.60	32.47	-91.83	-184.36	5,820.61	3,933.26	3,791.89	141.37	27.822		
15,200.00	7,630.00	7,704.00	7,581.90	116.48	32.47	-91.83	-184.36	5,820.61	4,030.07	3,888.53	141.54	28.472		
15,300.00	7,630.00	7,704.65	7,582.55	117.40	32.47	-91.87	-184.36	5,820.61	4,127.04	3,985.33	141.71	29.124		
15,400.00	7,630.00	7,705.52	7,583.42	118.35	32.47	-91.92	-184.37	5,820.61	4,224.15	4,082.29	141.86	29.777		
15,500.00	7,630.00	7,706.39	7,584.29	119.34	32.47	-91.97	-184.38	5,820.61	4,321.39	4,179.38	142.01	30.431		
15,600.00	7,630.00	7,707.26	7,585.16	120.35	32.48	-92.02	-184.38	5,820.61	4,418.75	4,276.61	142.14	31.087		
15,700.00	7,630.00	7,708.14	7,586.04	121.40	32.48	-92.07	-184.39	5,820.61	4,516.23	4,373.96	142.27	31.743		
15,800.00	7,630.00	7,709.01	7,586.92	122.48	32.48	-92.12	-184.40	5,820.61	4,613.82	4,471.42	142.40	32.401		
15,900.00	7,630.00	7,709.89	7,587.79	123.58	32.48	-92.17	-184.41	5,820.62	4,711.50	4,568.99	142.51	33.060		
16,000.00	7,630.00	7,710.77	7,588.67	124.71	32.49	-92.22	-184.41	5,820.62	4,809.29	4,666.66	142.62	33.720		
16,100.00	7,630.00	7,711.66	7,589.56	125.87	32.49	-92.27	-184.42	5,820.62	4,907.16	4,764.43	142.73	34.381		
16,200.00	7,630.00	7,712.54	7,590.44	127.05	32.49	-92.32	-184.43	5,820.62	5,005.11	4,862.29	142.83	35.043		
16,300.00	7,630.00	7,713.43	7,591.33	128.26	32.49	-92.38	-184.44	5,820.62	5,103.15	4,960.22	142.92	35.705		
16,400.00	7,630.00	7,714.31	7,592.22	129.48	32.50	-92.43	-184.44	5,820.63	5,201.26	5,058.24	143.02	36.368		
16,500.00	7,630.00	7,715.20	7,593.11	130.73	32.50	-92.48	-184.45	5,820.63	5,299.44	5,156.33	143.10	37.032		
16,600.00	7,630.00	7,716.10	7,594.00	132.00	32.50	-92.53	-184.46	5,820.63	5,397.68	5,254.50	143.19	37.696		
16,700.00	7,630.00	7,716.99	7,594.89	133.29	32.51	-92.58	-184.47	5,820.63	5,495.99	5,352.72	143.27	38.361		
16,800.00	7,630.00	7,717.89	7,595.79	134.59	32.51	-92.63	-184.48	5,820.63	5,594.36	5,451.02	143.35	39.027		
16,900.00	7,630.00	7,718.78	7,596.68	135.91	32.51	-92.68	-184.48	5,820.63	5,692.79	5,549.37	143.42	39.692		
17,000.00	7,630.00	7,719.68	7,597.58	137.25	32.51	-92.73	-184.49	5,820.64	5,791.27	5,647.77	143.50	40.359		
17,100.00	7,630.00	7,720.59	7,598.49	138.61	32.52	-92.79	-184.50	5,820.64	5,889.80	5,746.23	143.57	41.025		
17,200.00	7,630.00	7,721.49	7,599.39	139.97	32.52	-92.84	-184.51	5,820.64	5,988.38	5,844.75	143.63	41.692		
17,300.00	7,630.00	7,722.39	7,600.30	141.36	32.52	-92.89	-184.51	5,820.64	6,087.01	5,943.31	143.70	42.360		
17,400.00	7,630.00	7,723.30	7,601.20	142.75	32.52	-92.94	-184.52	5,820.64	6,185.67	6,041.91	143.76	43.027		
17,500.00	7,630.00	7,724.21	7,602.11	144.16	32.53	-92.99	-184.53	5,820.65	6,284.39	6,140.56	143.82	43.695		
17,600.00	7,630.00	7,725.12	7,603.02	145.58	32.53	-93.05	-184.54	5,820.65	6,383.14	6,239.25	143.88	44.363		
17,700.00	7,630.00	7,726.04	7,603.94	147.01	32.53	-93.10	-184.55	5,820.65	6,481.93	6,337.99	143.94	45.032		
17,800.00	7,630.00	7,726.95	7,604.85	148.45	32.54	-93.15	-184.55	5,820.65	6,580.75	6,436.76	144.00	45.700		
17,900.00	7,630.00	7,727.87	7,605.77	149.91	32.54	-93.20	-184.56	5,820.65	6,679.62	6,535.56	144.05	46.369		
18,000.00	7,630.00	7,728.79	7,606.69	151.37	32.54	-93.26	-184.57	5,820.66	6,778.51	6,634.40	144.11	47.038		
18,100.00	7,630.00	7,729.71	7,607.61	152.84	32.54	-93.31	-184.58	5,820.66	6,877.44	6,733.28	144.16	47.707		
18,200.00	7,630.00	7,730.63	7,608.53	154.32	32.55	-93.36	-184.59	5,820.66	6,976.39	6,832.18	144.21	48.376		
18,300.00	7,630.00	7,731.56	7,609.46	155.81	32.55	-93.42	-184.60	5,820.66	7,075.38	6,931.12	144.26	49.045		
18,400.00	7,630.00	7,732.49	7,610.39	157.31	32.55	-93.47	-184.60	5,820.67	7,174.39	7,030.08	144.31	49.714		
18,500.00	7,630.00	7,733.42	7,611.32	158.81	32.56	-93.52	-184.61	5,820.67	7,273.43	7,129.07	144.36	50.384		
18,600.00	7,630.00	7,734.35	7,612.25	160.32	32.56	-93.58	-184.62	5,820.67	7,372.50	7,228.09	144.41	51.053		
18,700.00	7,630.00	7,735.28	7,613.18	161.84	32.56	-93.63	-184.63	5,820.67	7,471.59	7,327.14	144.46	51.722		
18,800.00	7,630.00	7,736.22	7,614.12	163.37	32.56	-93.68	-184.64	5,820.68	7,570.71	7,426.20	144.50	52.392		
18,900.00	7,630.00	7,737.15	7,615.05	164.90	32.57	-93.74	-184.64	5,820.68	7,669.84	7,525.30	144.55	53.061		
19,000.00	7,630.00	7,738.09	7,615.99	166.43	32.57	-93.79	-184.65	5,820.68	7,769.00	7,624.41	144.59	53.731		
19,100.00	7,630.00	7,739.04	7,616.94	167.98	32.57	-93.84	-184.66	5,820.68	7,868.19	7,723.55	144.64	54.400		
19,200.00	7,630.00	7,739.98	7,617.88	169.53	32.58	-93.90	-184.67	5,820.69	7,967.39	7,822.71	144.68	55.069		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,740.93	7,618.83	171.08	32.58	-93.95	-184.68	5,820.69	8,066.61	7,921.89	144.72	55.739	
19,400.00	7,630.00	7,741.87	7,619.77	172.64	32.58	-94.01	-184.69	5,820.69	8,165.85	8,021.08	144.76	56.408	
19,500.00	7,630.00	7,742.82	7,620.72	174.21	32.58	-94.06	-184.70	5,820.69	8,265.11	8,120.30	144.81	57.077	
19,518.56	7,630.00	7,743.00	7,620.90	174.50	32.58	-94.07	-184.70	5,820.69	8,283.53	8,138.72	144.81	57.201	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Reference Offset Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	81.93	761.94	5,372.53	5,426.89					
100.00	100.00	57.10	57.10	0.13	0.09	81.93	761.96	5,372.32	5,426.22	5,425.99	0.23	N/A		
200.00	200.00	177.64	177.63	0.49	0.36	81.92	762.16	5,370.75	5,424.88	5,424.02	0.86	6,328.113		
300.00	300.00	231.39	231.38	0.85	0.55	81.92	762.69	5,370.33	5,424.23	5,422.82	1.41	3,860.187		
400.00	400.00	321.00	320.96	1.21	0.87	81.89	764.84	5,369.83	5,424.03	5,421.95	2.08	2,605.768		
500.00	499.98	396.11	395.96	1.56	1.15	15.14	768.72	5,369.37	5,422.48	5,419.77	2.71	2,003.531		
600.00	599.84	461.45	461.07	1.92	1.39	15.11	774.11	5,369.07	5,418.16	5,414.86	3.30	1,640.862		
700.00	699.45	1,099.75	1,087.42	2.29	4.22	14.09	885.12	5,328.95	5,407.10	5,400.61	6.48	833.884		
800.00	798.70	1,181.80	1,166.87	2.67	4.64	14.00	903.08	5,319.08	5,386.86	5,379.60	7.26	741.910		
900.00	897.47	1,275.08	1,257.48	3.07	5.12	13.93	922.33	5,308.17	5,363.54	5,355.45	8.09	662.955		
1,000.00	995.62	1,318.44	1,299.72	3.50	5.34	13.98	930.87	5,303.37	5,337.46	5,328.78	8.67	615.468		
1,100.00	1,093.06	1,371.00	1,350.95	3.96	5.61	14.03	941.41	5,298.12	5,309.12	5,299.81	9.30	570.651		
1,200.00	1,189.64	1,417.93	1,396.64	4.46	5.85	14.10	951.20	5,293.76	5,278.37	5,268.45	9.92	532.152		
1,300.00	1,285.27	1,504.17	1,480.30	5.00	6.30	14.10	970.63	5,285.94	5,244.99	5,234.25	10.75	488.066		
1,400.00	1,379.82	1,644.84	1,615.97	5.60	7.07	14.00	1,005.00	5,271.86	5,207.92	5,196.03	11.89	438.108		
1,500.00	1,473.17	1,710.01	1,678.84	6.25	7.43	14.08	1,020.84	5,265.19	5,167.58	5,154.95	12.63	409.107		
1,600.00	1,565.21	1,790.97	1,757.36	6.95	7.86	14.17	1,038.99	5,257.57	5,124.62	5,111.16	13.46	380.866		
1,700.00	1,655.84	1,882.07	1,845.99	7.72	8.33	14.28	1,058.30	5,249.06	5,078.55	5,064.23	14.32	354.629		
1,800.00	1,744.94	1,952.80	1,915.09	8.55	8.69	14.47	1,071.98	5,242.78	5,029.64	5,014.56	15.08	333.451		
1,900.00	1,832.39	2,008.58	1,969.64	9.45	8.97	14.71	1,082.66	5,238.14	4,978.26	4,962.48	15.78	315.505		
2,000.00	1,918.11	2,119.57	2,077.74	10.41	9.54	14.90	1,105.94	5,228.70	4,924.19	4,907.43	16.75	293.920		
2,100.00	2,001.97	2,303.13	2,255.92	11.45	10.51	15.02	1,145.82	5,209.90	4,865.86	4,847.77	18.09	269.021		
2,200.00	2,083.88	2,380.17	2,331.02	12.56	10.91	15.36	1,160.84	5,201.62	4,804.25	4,785.35	18.89	254.284		
2,300.00	2,163.74	2,438.82	2,388.36	13.74	11.20	15.77	1,171.59	5,195.53	4,740.16	4,720.54	19.62	241.590		
2,400.00	2,241.45	2,493.00	2,441.24	14.99	11.47	16.23	1,182.04	5,190.09	4,673.89	4,653.55	20.33	229.861		
2,421.22	2,257.65	2,493.00	2,441.24	15.26	11.47	16.33	1,182.04	5,190.09	4,659.56	4,639.12	20.44	227.948		
2,500.00	2,317.63	2,539.12	2,486.20	16.29	11.71	16.31	1,191.35	5,185.62	4,606.28	4,585.25	21.02	219.087		
2,600.00	2,393.75	2,590.90	2,536.59	17.62	11.98	16.27	1,202.22	5,180.81	4,539.02	4,517.27	21.75	208.736		
2,700.00	2,469.88	2,711.47	2,653.75	18.95	12.62	16.17	1,228.11	5,169.05	4,471.47	4,448.70	22.77	196.414		
2,800.00	2,546.01	2,807.44	2,747.03	20.30	13.13	16.09	1,248.36	5,159.05	4,403.41	4,379.73	23.68	185.944		
2,900.00	2,622.13	2,888.90	2,826.05	21.65	13.56	16.00	1,266.00	5,150.11	4,335.03	4,310.49	24.54	176.625		
3,000.00	2,698.26	2,948.33	2,883.58	23.01	13.89	15.93	1,279.41	5,143.57	4,266.77	4,241.44	25.33	168.451		
3,100.00	2,774.38	2,998.55	2,932.09	24.37	14.17	15.86	1,291.23	5,138.16	4,198.81	4,172.72	26.09	160.908		
3,200.00	2,850.51	3,054.00	2,985.45	25.74	14.48	15.77	1,305.16	5,132.38	4,131.31	4,104.42	26.89	153.644		
3,300.00	2,926.64	3,105.93	3,035.31	27.11	14.78	15.67	1,318.66	5,127.13	4,064.16	4,036.48	27.68	146.807		
3,400.00	3,002.76	3,181.00	3,107.40	28.49	15.22	15.52	1,338.25	5,119.71	3,997.24	3,968.66	28.57	139.903		
3,500.00	3,078.89	3,279.74	3,202.22	29.87	15.79	15.32	1,363.86	5,109.51	3,929.97	3,900.43	29.54	133.019		
3,600.00	3,155.02	3,359.69	3,278.93	31.25	16.26	15.14	1,384.67	5,100.85	3,862.38	3,831.93	30.45	126.853		
3,700.00	3,231.14	3,421.30	3,337.99	32.63	16.62	15.00	1,400.88	5,094.25	3,794.92	3,763.63	31.29	121.279		
3,800.00	3,307.27	3,537.24	3,448.95	34.01	17.31	14.71	1,431.87	5,081.20	3,727.16	3,694.85	32.31	115.349		
3,900.00	3,383.39	3,605.81	3,514.49	35.40	17.72	14.52	1,450.34	5,073.11	3,659.06	3,625.88	33.18	110.278		
4,000.00	3,459.52	3,664.87	3,571.08	36.79	18.06	14.37	1,465.85	5,066.36	3,591.16	3,557.14	34.01	105.581		
4,100.00	3,535.65	3,723.37	3,627.49	38.18	18.40	14.24	1,480.01	5,060.18	3,523.58	3,488.73	34.85	101.116		
4,200.00	3,611.77	3,784.48	3,686.50	39.57	18.74	14.10	1,494.67	5,053.99	3,456.30	3,420.61	35.68	96.862		
4,300.00	3,687.90	3,880.05	3,778.55	40.96	19.29	13.86	1,518.37	5,044.12	3,389.04	3,352.44	36.60	92.602		
4,400.00	3,764.02	3,970.21	3,865.38	42.35	19.80	13.63	1,540.53	5,034.17	3,321.23	3,283.75	37.49	88.596		
4,500.00	3,840.15	4,047.43	3,940.16	43.74	20.22	13.46	1,557.85	5,025.77	3,253.22	3,214.88	38.34	84.851		
4,600.00	3,916.28	4,114.78	4,005.45	45.13	20.59	13.31	1,572.71	5,018.50	3,185.22	3,146.05	39.17	81.315		
4,700.00	3,992.40	4,174.85	4,063.89	46.53	20.91	13.19	1,585.20	5,012.41	3,117.50	3,077.50	39.99	77.950		
4,800.00	4,068.53	4,252.11	4,139.25	47.92	21.30	13.06	1,600.44	5,004.91	3,049.91	3,009.09	40.82	74.715		
4,900.00	4,144.66	4,364.16	4,248.51	49.32	21.88	12.85	1,622.42	4,993.33	2,981.91	2,940.26	41.65	71.592		
5,000.00	4,220.78	4,462.39	4,343.98	50.71	22.40	12.63	1,642.50	4,981.78	2,913.01	2,870.54	42.47	68.594		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	4,506.47	4,386.82	52.11	22.63	12.52	1,651.49	4,976.63	2,844.17	2,800.88	43.29	65.705		
5,200.00	4,373.03	4,555.00	4,434.14	53.51	22.88	12.42	1,660.98	4,971.56	2,776.04	2,731.93	44.12	62.925		
5,300.00	4,449.16	4,590.17	4,468.56	54.90	23.05	12.36	1,667.44	4,968.39	2,708.75	2,663.80	44.95	60.260		
5,400.00	4,525.29	4,628.56	4,506.31	56.30	23.23	12.31	1,673.90	4,965.60	2,642.47	2,596.67	45.80	57.698		
5,500.00	4,601.41	4,720.62	4,597.21	57.70	23.63	12.27	1,687.30	4,960.13	2,576.83	2,530.26	46.57	55.329		
5,600.00	4,677.54	4,798.23	4,674.09	59.10	23.94	12.27	1,696.78	4,955.20	2,510.39	2,463.04	47.35	53.018		
5,700.00	4,753.66	4,863.67	4,739.10	60.49	24.19	12.33	1,703.30	4,951.60	2,444.19	2,396.04	48.15	50.760		
5,800.00	4,829.79	4,928.18	4,803.29	61.89	24.43	12.42	1,708.92	4,948.55	2,378.31	2,329.35	48.96	48.578		
5,900.00	4,905.92	5,010.92	4,885.74	63.29	24.71	12.58	1,714.88	4,944.98	2,312.48	2,262.77	49.71	46.519		
6,000.00	4,982.04	5,070.50	4,945.18	64.69	24.90	12.74	1,718.22	4,942.71	2,246.74	2,196.20	50.54	44.454		
6,100.00	5,058.17	5,133.20	5,007.80	66.09	25.10	12.95	1,720.92	4,941.05	2,181.63	2,130.26	51.37	42.467		
6,200.00	5,134.30	5,219.89	5,094.46	67.49	25.33	13.36	1,721.71	4,939.37	2,116.49	2,064.37	52.12	40.605		
6,300.00	5,210.42	5,282.86	5,157.42	68.89	25.47	13.73	1,720.74	4,938.58	2,051.48	1,998.50	52.98	38.724		
6,400.00	5,286.55	5,358.39	5,232.93	70.29	25.64	14.23	1,718.92	4,937.99	1,986.77	1,932.96	53.81	36.923		
6,500.00	5,362.67	5,445.73	5,320.24	71.69	25.83	14.84	1,716.94	4,936.97	1,921.90	1,867.30	54.60	35.198		
6,600.00	5,438.80	5,526.61	5,401.08	73.09	26.02	15.45	1,715.02	4,935.47	1,856.60	1,801.14	55.45	33.480		
6,700.00	5,514.93	5,596.08	5,470.52	74.49	26.18	16.01	1,713.47	4,934.22	1,791.48	1,735.07	56.40	31.762		
6,800.00	5,591.05	5,662.33	5,536.75	75.89	26.34	16.56	1,712.33	4,933.23	1,726.78	1,669.37	57.41	30.078		
6,900.00	5,667.18	5,731.17	5,605.58	77.29	26.51	17.16	1,711.52	4,932.44	1,662.54	1,604.09	58.44	28.447		
7,000.00	5,743.30	5,803.91	5,678.32	78.69	26.69	17.84	1,710.85	4,931.79	1,598.67	1,539.17	59.50	26.869		
7,100.00	5,819.43	5,878.80	5,753.20	80.09	26.88	18.58	1,710.25	4,931.12	1,534.96	1,474.36	60.59	25.332		
7,200.00	5,895.56	5,948.22	5,822.62	81.49	27.05	19.31	1,709.90	4,930.64	1,471.62	1,409.83	61.79	23.818		
7,300.00	5,971.68	6,025.16	5,899.55	82.90	27.25	20.18	1,709.71	4,930.24	1,408.63	1,345.63	62.99	22.362		
7,400.00	6,047.81	6,099.73	5,974.13	84.30	27.45	21.10	1,709.60	4,929.78	1,345.79	1,281.50	64.29	20.933		
7,500.00	6,123.94	6,173.92	6,048.31	85.70	27.65	22.07	1,709.75	4,929.42	1,283.33	1,217.65	65.68	19.539		
7,600.00	6,200.06	6,249.26	6,123.65	87.10	27.85	23.15	1,710.09	4,929.07	1,221.18	1,154.02	67.16	18.182		
7,700.00	6,276.19	6,321.64	6,196.03	88.50	28.06	24.28	1,710.52	4,928.87	1,159.50	1,090.71	68.79	16.856		
7,800.00	6,352.31	6,393.45	6,267.84	89.90	28.25	25.51	1,710.85	4,928.93	1,098.45	1,027.89	70.56	15.567		
7,900.00	6,428.44	6,469.52	6,343.91	91.31	28.46	26.99	1,710.82	4,929.25	1,038.08	965.60	72.48	14.323		
8,000.00	6,504.57	6,547.20	6,421.59	92.71	28.66	28.65	1,710.85	4,929.42	978.09	903.52	74.57	13.116		
8,100.00	6,580.69	6,622.95	6,497.34	94.11	28.86	30.48	1,710.78	4,929.62	918.78	841.85	76.93	11.943		
8,200.00	6,656.82	6,703.12	6,577.51	95.51	29.08	32.66	1,710.61	4,929.64	860.06	780.53	79.53	10.814		
8,300.00	6,732.95	6,778.77	6,653.16	96.91	29.28	34.98	1,710.46	4,929.49	802.12	719.60	82.53	9.720		
8,400.00	6,809.07	6,855.61	6,730.00	98.32	29.49	37.64	1,710.39	4,929.34	745.36	659.45	85.91	8.676		
8,500.00	6,885.20	6,932.11	6,806.50	99.72	29.70	40.65	1,710.39	4,929.09	689.94	600.17	89.77	7.686		
8,600.00	6,961.32	7,007.91	6,882.30	101.12	29.92	44.05	1,710.34	4,928.84	636.35	542.15	94.19	6.756		
8,700.00	7,037.45	7,083.90	6,958.29	102.52	30.13	47.93	1,710.28	4,928.58	585.10	485.85	99.24	5.896		
8,732.15	7,061.92	7,108.34	6,982.73	102.97	30.20	49.29	1,710.28	4,928.49	569.22	468.21	101.01	5.635		
8,750.00	7,075.57	7,121.98	6,996.36	103.22	30.24	47.17	1,710.28	4,928.45	560.42	458.43	101.99	5.495		
8,800.00	7,114.27	7,160.68	7,035.06	103.91	30.35	40.74	1,710.32	4,928.33	534.93	430.40	104.53	5.117		
8,850.00	7,153.47	7,200.30	7,074.69	104.58	30.46	33.66	1,710.40	4,928.20	508.11	401.36	106.75	4.760		
8,900.00	7,192.85	7,240.29	7,114.68	105.21	30.57	25.99	1,710.51	4,928.02	479.85	371.23	108.62	4.418		
8,950.00	7,232.12	7,279.97	7,154.35	105.80	30.69	17.79	1,710.64	4,927.80	450.09	340.00	110.09	4.088		
9,000.00	7,270.99	7,318.90	7,193.29	106.35	30.80	9.09	1,710.76	4,927.53	418.89	307.77	111.12	3.770		
9,050.00	7,309.16	7,357.07	7,231.45	106.85	30.91	-0.15	1,710.87	4,927.23	386.35	274.74	111.61	3.462		
9,100.00	7,346.32	7,394.20	7,268.58	107.30	31.02	-10.07	1,710.97	4,926.92	352.68	241.24	111.44	3.165		
9,150.00	7,382.22	7,429.99	7,304.37	107.69	31.13	-20.84	1,711.10	4,926.60	318.20	207.83	110.37	2.883		
9,200.00	7,416.56	7,464.17	7,338.55	108.02	31.23	-32.60	1,711.25	4,926.28	283.50	175.45	108.05	2.624		
9,250.00	7,449.09	7,496.46	7,370.84	108.29	31.33	-45.24	1,711.42	4,925.97	249.48	145.60	103.88	2.402		
9,300.00	7,479.56	7,526.62	7,401.00	108.51	31.42	-58.25	1,711.59	4,925.67	217.67	120.67	97.00	2.244		
9,350.00	7,507.74	7,554.43	7,428.81	108.68	31.50	-70.76	1,711.76	4,925.39	190.54	103.92	86.61	2.200		
9,400.00	7,533.41	7,579.32	7,453.69	108.79	31.57	-81.80	1,711.91	4,925.16	171.79	97.25	74.53	2.305		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,445.90	7,554.61	7,600.01	7,474.38	108.85	31.63	-90.30	1,712.01	4,925.00	165.59	94.62	70.97	2.333	CC	
9,450.00	7,556.39	7,601.75	7,476.12	108.86	31.64	-90.97	1,712.02	4,924.99	165.64	94.24	71.40	2.320		
9,500.00	7,576.48	7,621.45	7,495.82	108.88	31.70	-98.07	1,712.10	4,924.87	174.54	90.62	83.92	2.080	ES	
9,550.00	7,593.55	7,638.22	7,512.59	108.86	31.75	-103.10	1,712.16	4,924.79	197.26	98.20	99.06	1.991	SF	
9,600.00	7,607.46	7,651.88	7,526.24	108.80	31.79	-106.03	1,712.21	4,924.73	230.26	120.26	110.00	2.093		
9,650.00	7,618.11	7,662.28	7,536.65	108.71	31.82	-106.68	1,712.24	4,924.69	270.09	153.20	116.89	2.311		
9,700.00	7,625.41	7,669.36	7,543.73	108.59	31.84	-104.42	1,712.26	4,924.67	314.24	193.14	121.10	2.595		
9,750.00	7,629.30	7,673.07	7,547.44	108.45	31.85	-97.62	1,712.27	4,924.66	361.05	237.39	123.66	2.920		
9,781.81	7,630.00	7,673.66	7,548.03	108.35	31.85	-89.41	1,712.28	4,924.66	391.69	266.96	124.73	3.140		
9,800.00	7,630.00	7,673.60	7,547.97	108.29	31.85	-89.37	1,712.28	4,924.66	409.38	284.16	125.22	3.269		
9,900.00	7,630.00	7,673.28	7,547.65	107.97	31.85	-89.17	1,712.27	4,924.66	507.23	380.02	127.21	3.987		
10,000.00	7,630.00	7,672.96	7,547.33	107.67	31.85	-88.98	1,712.27	4,924.66	605.79	477.32	128.47	4.716		
10,100.00	7,630.00	7,672.63	7,547.00	107.38	31.85	-88.78	1,712.27	4,924.66	704.75	575.43	129.33	5.449		
10,200.00	7,630.00	7,672.31	7,546.68	107.10	31.85	-88.58	1,712.27	4,924.66	803.97	674.02	129.95	6.187		
10,300.00	7,630.00	7,671.99	7,546.36	106.84	31.85	-88.39	1,712.27	4,924.66	903.36	772.95	130.41	6.927		
10,400.00	7,630.00	7,671.67	7,546.04	106.59	31.85	-88.19	1,712.27	4,924.66	1,002.87	872.09	130.78	7.668		
10,500.00	7,630.00	7,671.35	7,545.72	106.35	31.84	-88.00	1,712.27	4,924.67	1,102.47	971.40	131.07	8.411		
10,600.00	7,630.00	7,671.03	7,545.40	106.13	31.84	-87.80	1,712.27	4,924.67	1,202.14	1,070.83	131.31	9.155		
10,700.00	7,630.00	7,670.71	7,545.08	105.92	31.84	-87.61	1,712.27	4,924.67	1,301.86	1,170.34	131.51	9.899		
10,800.00	7,630.00	7,670.39	7,544.76	105.72	31.84	-87.41	1,712.26	4,924.67	1,401.62	1,269.93	131.68	10.644		
10,900.00	7,630.00	7,670.07	7,544.44	105.54	31.84	-87.22	1,712.26	4,924.67	1,501.41	1,369.58	131.83	11.389		
11,000.00	7,630.00	7,669.75	7,544.12	105.37	31.84	-87.02	1,712.26	4,924.67	1,601.22	1,469.27	131.95	12.135		
11,100.00	7,630.00	7,669.43	7,543.80	105.21	31.84	-86.83	1,712.26	4,924.67	1,701.06	1,569.00	132.06	12.881		
11,200.00	7,630.00	7,669.11	7,543.48	105.06	31.84	-86.63	1,712.26	4,924.67	1,800.91	1,668.75	132.16	13.627		
11,300.00	7,630.00	7,668.79	7,543.16	104.93	31.84	-86.44	1,712.26	4,924.67	1,900.79	1,768.54	132.25	14.373		
11,400.00	7,630.00	7,668.47	7,542.84	104.82	31.84	-86.25	1,712.26	4,924.67	2,000.67	1,868.34	132.32	15.119		
11,500.00	7,630.00	7,668.15	7,542.52	104.72	31.84	-86.05	1,712.26	4,924.67	2,100.56	1,968.17	132.39	15.866		
11,600.00	7,630.00	7,667.83	7,542.20	104.63	31.83	-85.86	1,712.26	4,924.68	2,200.47	2,068.01	132.46	16.613		
11,700.00	7,630.00	7,667.52	7,541.88	104.55	31.83	-85.67	1,712.26	4,924.68	2,300.38	2,167.86	132.52	17.359		
11,800.00	7,630.00	7,667.20	7,541.57	104.50	31.83	-85.47	1,712.25	4,924.68	2,400.30	2,267.73	132.57	18.106		
11,900.00	7,630.00	7,666.88	7,541.25	104.45	31.83	-85.28	1,712.25	4,924.68	2,500.23	2,367.61	132.62	18.853		
12,000.00	7,630.00	7,666.56	7,540.93	104.43	31.83	-85.09	1,712.25	4,924.68	2,600.16	2,467.49	132.66	19.600		
12,100.00	7,630.00	7,666.25	7,540.61	104.42	31.83	-84.90	1,712.25	4,924.68	2,700.09	2,567.39	132.71	20.347		
12,200.00	7,630.00	7,665.93	7,540.30	104.42	31.83	-84.70	1,712.25	4,924.68	2,800.04	2,667.29	132.75	21.093		
12,300.00	7,630.00	7,665.61	7,539.98	104.45	31.83	-84.51	1,712.25	4,924.68	2,899.98	2,767.20	132.78	21.840		
12,400.00	7,630.00	7,665.30	7,539.66	104.49	31.83	-84.32	1,712.25	4,924.68	2,999.93	2,867.11	132.82	22.587		
12,500.00	7,630.00	7,664.98	7,539.35	104.55	31.83	-84.13	1,712.25	4,924.68	3,099.88	2,967.03	132.85	23.334		
12,600.00	7,630.00	7,664.66	7,539.03	104.63	31.82	-83.94	1,712.25	4,924.69	3,199.84	3,066.96	132.88	24.080		
12,700.00	7,630.00	7,664.35	7,538.72	104.73	31.82	-83.75	1,712.25	4,924.69	3,299.79	3,166.88	132.91	24.827		
12,800.00	7,630.00	7,664.03	7,538.40	104.85	31.82	-83.56	1,712.24	4,924.69	3,399.75	3,266.82	132.94	25.574		
12,900.00	7,630.00	7,663.72	7,538.09	104.99	31.82	-83.37	1,712.24	4,924.69	3,499.72	3,366.75	132.97	26.320		
13,000.00	7,630.00	7,663.40	7,537.77	105.15	31.82	-83.18	1,712.24	4,924.69	3,599.68	3,466.69	132.99	27.067		
13,100.00	7,630.00	7,663.09	7,537.46	105.34	31.82	-82.99	1,712.24	4,924.69	3,699.65	3,566.63	133.02	27.813		
13,200.00	7,630.00	7,662.77	7,537.14	105.56	31.82	-82.80	1,712.24	4,924.69	3,799.62	3,666.57	133.04	28.560		
13,300.00	7,630.00	7,662.46	7,536.83	105.80	31.82	-82.61	1,712.24	4,924.69	3,899.59	3,766.52	133.06	29.306		
13,400.00	7,630.00	7,662.15	7,536.51	106.06	31.82	-82.43	1,712.24	4,924.69	3,999.56	3,866.47	133.09	30.052		
13,500.00	7,630.00	7,661.83	7,536.20	106.36	31.82	-82.24	1,712.24	4,924.70	4,099.53	3,966.42	133.11	30.798		
13,600.00	7,630.00	7,661.52	7,535.89	106.68	31.82	-82.05	1,712.24	4,924.70	4,199.50	4,066.37	133.13	31.544		
13,700.00	7,630.00	7,661.20	7,535.57	107.03	31.81	-81.86	1,712.24	4,924.70	4,299.48	4,166.33	133.15	32.290		
13,800.00	7,630.00	7,660.89	7,535.26	107.42	31.81	-81.68	1,712.23	4,924.70	4,399.45	4,266.28	133.17	33.036		
13,900.00	7,630.00	7,660.58	7,534.95	107.83	31.81	-81.49	1,712.23	4,924.70	4,499.43	4,366.24	133.19	33.781		
14,000.00	7,630.00	7,660.27	7,534.64	108.28	31.81	-81.30	1,712.23	4,924.70	4,599.41	4,466.20	133.21	34.527		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,659.95	7,534.32	108.77	31.81	-81.12	1,712.23	4,924.70	4,699.39	4,566.16	133.23	35.272		
14,200.00	7,630.00	7,659.64	7,534.01	109.29	31.81	-80.93	1,712.23	4,924.70	4,799.37	4,666.12	133.25	36.018		
14,300.00	7,630.00	7,659.33	7,533.70	109.84	31.81	-80.75	1,712.23	4,924.70	4,899.35	4,766.08	133.27	36.763		
14,400.00	7,630.00	7,659.02	7,533.39	110.43	31.81	-80.56	1,712.23	4,924.70	4,999.33	4,866.04	133.29	37.508		
14,500.00	7,630.00	7,658.71	7,533.08	111.06	31.81	-80.38	1,712.23	4,924.71	5,099.31	4,966.01	133.31	38.253		
14,600.00	7,630.00	7,658.40	7,532.77	111.72	31.81	-80.19	1,712.23	4,924.71	5,199.30	5,065.97	133.32	38.997		
14,700.00	7,630.00	7,658.09	7,532.45	112.42	31.81	-80.01	1,712.23	4,924.71	5,299.28	5,165.94	133.34	39.742		
14,800.00	7,630.00	7,657.78	7,532.14	113.16	31.80	-79.83	1,712.22	4,924.71	5,399.26	5,265.90	133.36	40.486		
14,900.00	7,630.00	7,657.46	7,531.83	113.94	31.80	-79.64	1,712.22	4,924.71	5,499.25	5,365.87	133.38	41.231		
15,000.00	7,630.00	7,661.26	7,535.62	114.75	31.82	-81.89	1,712.23	4,924.70	5,599.23	5,465.83	133.40	41.973		
15,100.00	7,630.00	7,660.95	7,535.32	115.60	31.81	-81.71	1,712.23	4,924.70	5,699.21	5,565.80	133.42	42.717		
15,200.00	7,630.00	7,660.65	7,535.02	116.48	31.81	-81.53	1,712.23	4,924.70	5,799.20	5,665.76	133.44	43.461		
15,300.00	7,630.00	7,660.34	7,534.71	117.40	31.81	-81.35	1,712.23	4,924.70	5,899.19	5,765.73	133.45	44.204		
15,400.00	7,630.00	7,660.03	7,534.39	118.35	31.81	-81.16	1,712.23	4,924.70	5,999.17	5,865.70	133.47	44.947		
15,500.00	7,630.00	7,659.71	7,534.08	119.34	31.81	-80.97	1,712.22	4,924.71	6,099.16	5,965.67	133.49	45.690		
15,600.00	7,630.00	7,659.39	7,533.76	120.35	31.81	-80.79	1,712.22	4,924.71	6,199.15	6,065.64	133.51	46.433		
15,700.00	7,630.00	7,659.07	7,533.44	121.40	31.81	-80.60	1,712.22	4,924.71	6,299.14	6,165.61	133.52	47.176		
15,800.00	7,630.00	7,658.75	7,533.12	122.48	31.81	-80.40	1,712.22	4,924.71	6,399.13	6,265.59	133.54	47.919		
15,900.00	7,630.00	7,658.43	7,532.79	123.58	31.81	-80.21	1,712.22	4,924.71	6,499.12	6,365.56	133.56	48.661		
16,000.00	7,630.00	7,658.10	7,532.47	124.71	31.81	-80.02	1,712.22	4,924.71	6,599.11	6,465.53	133.58	49.403		
16,100.00	7,630.00	7,657.77	7,532.13	125.87	31.80	-79.82	1,712.22	4,924.71	6,699.10	6,565.50	133.59	50.145		
16,200.00	7,630.00	7,657.43	7,531.80	127.05	31.80	-79.62	1,712.22	4,924.71	6,799.09	6,665.47	133.61	50.887		
16,300.00	7,630.00	7,657.09	7,531.46	128.26	31.80	-79.42	1,712.22	4,924.71	6,899.08	6,765.45	133.63	51.628		
16,400.00	7,630.00	7,656.75	7,531.12	129.48	31.80	-79.22	1,712.22	4,924.71	6,999.07	6,865.42	133.65	52.369		
16,500.00	7,630.00	7,656.41	7,530.78	130.73	31.80	-79.02	1,712.22	4,924.72	7,099.06	6,965.39	133.67	53.111		
16,600.00	7,630.00	7,656.06	7,530.43	132.00	31.80	-78.82	1,712.21	4,924.72	7,199.05	7,065.36	133.68	53.851		
16,700.00	7,630.00	7,655.71	7,530.08	133.29	31.80	-78.61	1,712.21	4,924.72	7,299.04	7,165.34	133.70	54.592		
16,800.00	7,630.00	7,655.35	7,529.72	134.59	31.80	-78.40	1,712.21	4,924.72	7,399.03	7,265.31	133.72	55.332		
16,900.00	7,630.00	7,655.00	7,529.37	135.91	31.80	-78.19	1,712.21	4,924.72	7,499.02	7,365.28	133.74	56.072		
17,000.00	7,630.00	7,654.64	7,529.00	137.25	31.80	-77.98	1,712.21	4,924.72	7,599.01	7,465.26	133.76	56.812		
17,100.00	7,630.00	7,654.27	7,528.64	138.61	31.79	-77.77	1,712.21	4,924.72	7,699.01	7,565.23	133.78	57.552		
17,200.00	7,630.00	7,653.90	7,528.27	139.97	31.79	-77.56	1,712.21	4,924.72	7,799.00	7,665.20	133.79	58.291		
17,300.00	7,630.00	7,653.53	7,527.90	141.36	31.79	-77.34	1,712.21	4,924.73	7,898.99	7,765.18	133.81	59.030		
17,400.00	7,630.00	7,653.16	7,527.52	142.75	31.79	-77.12	1,712.21	4,924.73	7,998.98	7,865.15	133.83	59.769		
17,500.00	7,630.00	7,652.78	7,527.14	144.16	31.79	-76.90	1,712.21	4,924.73	8,098.98	7,965.13	133.85	60.507		
17,600.00	7,630.00	7,652.39	7,526.76	145.58	31.79	-76.68	1,712.21	4,924.73	8,198.97	8,065.10	133.87	61.246		
17,700.00	7,630.00	7,652.01	7,526.38	147.01	31.79	-76.46	1,712.20	4,924.73	8,298.96	8,165.07	133.89	61.984		
17,800.00	7,630.00	7,651.62	7,525.98	148.45	31.79	-76.23	1,712.20	4,924.73	8,398.96	8,265.05	133.91	62.721		
17,900.00	7,630.00	7,651.22	7,525.59	149.91	31.79	-76.01	1,712.20	4,924.73	8,498.95	8,365.02	133.93	63.459		
18,000.00	7,630.00	7,650.82	7,525.19	151.37	31.78	-75.78	1,712.20	4,924.74	8,598.94	8,465.00	133.95	64.196		
18,100.00	7,630.00	7,650.42	7,524.79	152.84	31.78	-75.55	1,712.20	4,924.74	8,698.94	8,564.97	133.97	64.933		
18,200.00	7,630.00	7,650.01	7,524.38	154.32	31.78	-75.32	1,712.20	4,924.74	8,798.93	8,664.94	133.99	65.669		
18,300.00	7,630.00	7,649.60	7,523.97	155.81	31.78	-75.08	1,712.20	4,924.74	8,898.93	8,764.92	134.01	66.406		
18,400.00	7,630.00	7,649.19	7,523.56	157.31	31.78	-74.85	1,712.20	4,924.74	8,998.92	8,864.89	134.03	67.142		
18,500.00	7,630.00	7,648.77	7,523.14	158.81	31.78	-74.61	1,712.19	4,924.74	9,098.91	8,964.86	134.05	67.877		
18,600.00	7,630.00	7,648.34	7,522.71	160.32	31.78	-74.37	1,712.19	4,924.74	9,198.91	9,064.84	134.07	68.613		
18,700.00	7,630.00	7,647.92	7,522.29	161.84	31.78	-74.13	1,712.19	4,924.75	9,298.90	9,164.81	134.09	69.348		
18,800.00	7,630.00	7,647.48	7,521.85	163.37	31.77	-73.88	1,712.19	4,924.75	9,398.90	9,264.78	134.11	70.082		
18,900.00	7,630.00	7,647.05	7,521.42	164.90	31.77	-73.64	1,712.19	4,924.75	9,498.89	9,364.76	134.13	70.817		
19,000.00	7,630.00	7,646.60	7,520.97	166.43	31.77	-73.39	1,712.19	4,924.75	9,598.89	9,464.73	134.15	71.551		
19,100.00	7,630.00	7,646.16	7,520.53	167.98	31.77	-73.14	1,712.19	4,924.75	9,698.88	9,564.70	134.18	72.285		
19,200.00	7,630.00	7,645.71	7,520.08	169.53	31.77	-72.89	1,712.19	4,924.75	9,798.88	9,664.68	134.20	73.018		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,300.00	7,630.00	7,645.25	7,519.62	171.08	31.77	-72.64	1,712.18	4,924.76	9,898.87	9,764.65	134.22	73.751	
19,400.00	7,630.00	7,644.79	7,519.16	172.64	31.77	-72.38	1,712.18	4,924.76	9,998.87	9,864.62	134.24	74.484	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	81.81	776.52	5,397.72	5,453.89					
100.00	100.00	0.00	0.00	0.13	0.00	81.81	776.52	5,397.72	5,453.32	5,453.19	0.13	N/A		
200.00	200.00	67.19	67.19	0.49	0.11	81.81	776.85	5,398.00	5,453.86	5,453.25	0.60	9,040.089		
300.00	300.00	138.00	137.98	0.85	0.23	81.80	777.91	5,398.88	5,455.24	5,454.16	1.08	5,065.981		
400.00	400.00	164.55	164.52	1.21	0.33	81.80	778.54	5,399.43	5,457.46	5,455.93	1.53	3,561.395		
500.00	499.98	200.15	200.09	1.56	0.46	15.05	779.69	5,400.50	5,459.19	5,457.18	2.01	2,710.384		
600.00	599.84	229.00	228.89	1.92	0.56	15.05	780.87	5,401.63	5,458.75	5,456.28	2.47	2,209.800		
700.00	699.45	266.76	266.56	2.29	0.70	15.06	782.63	5,403.56	5,456.14	5,453.18	2.96	1,840.825		
800.00	798.70	320.00	319.61	2.67	0.90	15.08	785.27	5,407.20	5,451.56	5,448.04	3.52	1,549.919		
900.00	897.47	320.00	319.61	3.07	0.90	15.11	785.27	5,407.20	5,444.62	5,440.74	3.88	1,403.011		
1,000.00	995.62	372.84	372.17	3.50	1.10	15.16	788.17	5,411.73	5,435.51	5,431.06	4.44	1,222.853		
1,100.00	1,093.06	411.00	410.08	3.96	1.26	15.23	790.48	5,415.44	5,424.17	5,419.21	4.96	1,093.658		
1,200.00	1,189.64	451.68	450.43	4.46	1.42	15.31	793.28	5,419.80	5,410.59	5,405.09	5.50	984.530		
1,300.00	1,285.27	503.00	501.22	5.00	1.63	15.40	797.47	5,425.88	5,394.81	5,388.73	6.08	887.351		
1,400.00	1,379.82	529.90	527.77	5.60	1.75	15.50	799.98	5,429.31	5,376.73	5,370.14	6.59	816.485		
1,500.00	1,473.17	569.35	566.64	6.25	1.92	15.62	804.14	5,434.64	5,356.45	5,349.30	7.15	749.121		
1,600.00	1,565.21	612.67	609.19	6.95	2.12	15.75	809.37	5,440.87	5,333.94	5,326.19	7.75	688.635		
1,700.00	1,655.84	662.47	657.95	7.72	2.35	15.89	816.22	5,448.34	5,309.06	5,300.68	8.38	633.217		
1,800.00	1,744.94	709.00	703.34	8.55	2.58	16.04	823.42	5,455.61	5,281.81	5,272.79	9.03	585.060		
1,900.00	1,832.39	752.81	745.94	9.45	2.80	16.21	830.69	5,462.80	5,252.28	5,242.60	9.68	542.696		
2,000.00	1,918.11	811.37	802.68	10.41	3.10	16.39	841.10	5,472.87	5,220.43	5,210.02	10.41	501.322		
2,100.00	2,001.97	896.91	885.26	11.45	3.56	16.59	857.77	5,487.64	5,185.81	5,174.53	11.28	459.563		
2,200.00	2,083.88	992.56	977.31	12.56	4.08	16.80	878.21	5,503.74	5,147.95	5,135.72	12.23	420.768		
2,300.00	2,163.74	1,059.75	1,041.76	13.74	4.46	17.04	893.44	5,515.10	5,107.32	5,094.24	13.08	390.564		
2,400.00	2,241.45	2,400.00	1,185.91	14.99	12.19	17.29	928.89	5,539.93	5,063.48	5,043.26	20.22	250.446		
2,421.22	2,257.65	1,276.85	1,249.89	15.26	5.70	17.34	944.19	5,550.19	5,053.55	5,038.79	14.76	342.386		
2,500.00	2,317.63	1,336.74	1,307.53	16.29	6.04	17.34	957.71	5,559.25	5,016.22	5,000.74	15.47	324.185		
2,600.00	2,393.75	1,408.91	1,376.91	17.62	6.45	17.33	974.24	5,570.31	4,969.05	4,952.68	16.37	303.477		
2,700.00	2,469.88	1,474.24	1,439.58	18.95	6.83	17.31	989.64	5,580.48	4,922.22	4,904.96	17.26	285.229		
2,800.00	2,546.01	1,535.55	1,498.23	20.30	7.19	17.29	1,004.58	5,590.25	4,875.84	4,857.71	18.13	268.881		
2,900.00	2,622.13	1,591.72	1,551.85	21.65	7.53	17.27	1,018.49	5,599.52	4,830.02	4,811.02	19.00	254.213		
3,000.00	2,698.26	1,666.84	1,623.50	23.01	7.98	17.25	1,037.05	5,612.37	4,784.71	4,764.75	19.96	239.727		
3,100.00	2,774.38	1,798.40	1,749.51	24.37	8.76	17.23	1,067.43	5,634.89	4,739.24	4,718.08	21.16	223.949		
3,200.00	2,850.51	1,985.91	1,930.78	25.74	9.80	17.29	1,104.23	5,665.53	4,692.71	4,670.17	22.55	208.111		
3,300.00	2,926.64	2,069.84	2,012.53	27.11	10.23	17.36	1,118.01	5,678.60	4,644.80	4,621.29	23.50	197.609		
3,400.00	3,002.76	2,135.53	2,076.63	28.49	10.57	17.43	1,127.75	5,689.19	4,597.15	4,572.75	24.40	188.432		
3,500.00	3,078.89	2,179.00	2,119.02	29.87	10.79	17.47	1,134.05	5,696.42	4,550.04	4,524.83	25.22	180.420		
3,600.00	3,155.02	2,225.48	2,164.27	31.25	11.03	17.52	1,140.91	5,704.58	4,503.78	4,477.72	26.06	172.803		
3,700.00	3,231.14	2,272.00	2,209.37	32.63	11.28	17.57	1,148.09	5,713.39	4,458.63	4,431.71	26.91	165.658		
3,800.00	3,307.27	2,305.20	2,241.47	34.01	11.47	17.60	1,153.38	5,720.02	4,414.43	4,386.70	27.73	159.182		
3,900.00	3,383.39	2,366.00	2,300.11	35.40	11.81	17.66	1,163.26	5,732.71	4,371.20	4,342.55	28.65	152.550		
4,000.00	3,459.52	2,428.07	2,359.83	36.79	12.16	17.72	1,173.68	5,746.02	4,328.57	4,298.98	29.59	146.276		
4,100.00	3,535.65	2,503.08	2,431.93	38.18	12.60	17.78	1,186.63	5,762.14	4,286.16	4,255.58	30.58	140.156		
4,200.00	3,611.77	2,588.08	2,513.58	39.57	13.09	17.86	1,201.12	5,780.83	4,244.16	4,212.55	31.61	134.254		
4,300.00	3,687.90	2,776.98	2,695.56	40.96	14.18	18.03	1,233.36	5,819.85	4,200.87	4,167.88	32.99	127.329		
4,400.00	3,764.02	2,853.87	2,769.76	42.35	14.61	18.10	1,246.69	5,835.00	4,156.84	4,122.84	34.00	122.264		
4,500.00	3,840.15	2,955.43	2,867.65	43.74	15.19	18.18	1,265.14	5,854.77	4,112.71	4,077.61	35.09	117.200		
4,600.00	3,916.28	3,020.00	2,929.65	45.13	15.57	18.21	1,277.94	5,867.47	4,068.96	4,032.88	36.07	112.796		
4,700.00	3,992.40	3,136.11	3,041.06	46.53	16.26	18.26	1,301.67	5,889.92	4,025.03	3,987.81	37.22	108.136		
4,800.00	4,068.53	3,199.52	3,101.97	47.92	16.63	18.30	1,314.27	5,902.27	3,981.16	3,942.95	38.21	104.185		
4,900.00	4,144.66	3,300.40	3,198.96	49.32	17.22	18.37	1,333.51	5,922.28	3,937.51	3,898.20	39.32	100.152		
5,000.00	4,220.78	3,364.70	3,260.79	50.71	17.60	18.41	1,345.59	5,935.14	3,893.98	3,853.67	40.32	96.581		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	3,445.20	3,338.03	52.11	18.07	18.47	1,361.17	5,951.63	3,850.97	3,809.59	41.37	93.080		
5,200.00	4,373.03	3,539.96	3,428.87	53.51	18.64	18.53	1,379.98	5,970.92	3,807.91	3,765.44	42.47	89.659		
5,300.00	4,449.16	3,629.64	3,514.79	54.90	19.18	18.57	1,398.22	5,989.05	3,764.79	3,721.24	43.56	86.433		
5,400.00	4,525.29	3,715.25	3,603.27	56.30	19.55	18.65	1,422.59	6,013.47	3,721.18	3,668.56	52.62	70.721		
5,500.00	4,601.41	3,838.21	3,715.25	57.70	20.40	18.72	1,438.85	6,029.84	3,677.02	3,631.21	45.80	80.277		
5,600.00	4,677.54	3,909.10	3,783.35	59.10	20.82	18.77	1,452.49	6,044.03	3,633.55	3,586.70	46.85	77.549		
5,700.00	4,753.66	3,994.04	3,864.87	60.49	21.32	18.84	1,469.05	6,061.21	3,590.35	3,542.41	47.94	74.893		
5,800.00	4,829.79	4,118.72	3,984.82	61.89	22.05	18.96	1,491.98	6,086.36	3,547.03	3,497.92	49.11	72.223		
5,900.00	4,905.92	4,196.61	4,059.92	63.29	22.50	19.04	1,506.04	6,101.48	3,502.94	3,452.75	50.19	69.791		
6,000.00	4,982.04	4,272.75	4,139.93	64.69	22.96	19.13	1,525.53	6,121.90	3,459.15	3,399.74	51.41	67.223		
6,100.00	5,058.17	4,349.34	4,216.69	66.09	23.73	19.22	1,546.79	6,142.22	3,414.50	3,362.04	52.46	65.093		
6,200.00	5,134.30	4,425.68	4,293.39	67.49	24.29	19.29	1,565.91	6,160.16	3,369.91	3,316.34	53.57	62.907		
6,300.00	5,210.42	4,501.68	4,369.25	68.89	24.77	19.36	1,582.55	6,175.48	3,325.19	3,270.52	54.67	60.822		
6,400.00	5,286.55	4,577.16	4,445.40	70.29	25.73	19.45	1,617.32	6,204.70	3,279.95	3,224.11	55.84	58.738		
6,500.00	5,362.67	4,653.63	4,521.21	71.69	26.55	19.59	1,646.52	6,227.73	3,232.26	3,175.30	56.96	56.746		
6,600.00	5,438.80	4,729.87	4,597.10	73.09	26.97	19.66	1,661.72	6,239.37	3,184.07	3,126.02	58.05	54.851		
6,700.00	5,514.93	4,805.43	4,672.14	74.49	28.12	19.95	1,702.19	6,268.38	3,133.86	3,074.79	59.07	53.053		
6,800.00	5,591.05	4,881.55	4,748.04	75.89	28.50	20.16	1,713.04	6,277.87	3,081.80	3,021.63	60.16	51.223		
6,900.00	5,667.18	4,957.05	4,823.50	77.29	28.87	20.43	1,722.21	6,287.88	3,029.80	2,968.52	61.28	49.446		
7,000.00	5,743.30	5,032.44	4,900.98	78.69	30.37	22.46	1,746.15	6,313.97	2,973.70	2,912.05	61.65	48.236		
7,100.00	5,819.43	5,108.82	4,976.35	80.09	30.61	23.14	1,746.49	6,312.94	2,911.19	2,848.52	62.66	46.458		
7,200.00	5,895.56	5,184.32	5,051.84	81.49	30.79	23.68	1,746.84	6,311.58	2,848.33	2,784.55	63.78	44.658		
7,300.00	5,971.68	5,259.65	5,127.16	82.90	30.98	24.24	1,747.22	6,309.97	2,785.38	2,720.45	64.93	42.897		
7,400.00	6,047.81	5,335.15	5,202.64	84.30	31.14	24.77	1,747.56	6,308.45	2,722.49	2,656.34	66.15	41.156		
7,500.00	6,123.94	5,410.83	5,278.30	85.70	31.31	25.31	1,747.82	6,306.99	2,659.77	2,592.36	67.41	39.454		
7,600.00	6,200.06	5,486.79	5,354.24	87.10	31.48	25.91	1,747.87	6,305.47	2,597.26	2,528.56	68.70	37.807		
7,700.00	6,276.19	5,562.49	5,430.93	88.50	31.64	26.54	1,747.41	6,303.88	2,534.80	2,464.76	70.04	36.188		
7,800.00	6,352.31	5,638.58	5,506.00	89.90	31.79	27.14	1,746.77	6,302.58	2,472.67	2,401.20	71.48	34.594		
7,900.00	6,428.44	5,714.30	5,581.71	91.31	31.93	27.70	1,746.43	6,301.64	2,411.09	2,338.10	72.99	33.033		
8,000.00	6,504.57	5,790.27	5,657.68	92.71	32.10	28.35	1,746.55	6,300.87	2,350.08	2,275.57	74.51	31.541		
8,100.00	6,580.69	5,866.41	5,733.88	94.11	32.28	29.06	1,746.87	6,300.06	2,289.32	2,213.25	76.07	30.095		
8,200.00	6,656.82	5,942.11	5,809.51	95.51	32.45	29.74	1,747.21	6,299.47	2,229.00	2,151.28	77.72	28.680		
8,300.00	6,732.95	6,017.99	5,885.39	96.91	32.62	30.48	1,747.46	6,299.07	2,169.20	2,089.76	79.43	27.308		
8,400.00	6,809.07	6,093.69	5,961.09	98.32	32.79	31.26	1,747.48	6,298.86	2,109.91	2,028.68	81.22	25.976		
8,500.00	6,885.20	6,169.65	6,037.05	99.72	32.97	32.10	1,747.27	6,298.79	2,051.15	1,968.05	83.09	24.685		
8,600.00	6,961.32	6,245.27	6,112.66	101.12	33.14	33.01	1,746.85	6,298.83	1,992.88	1,907.84	85.04	23.434		
8,700.00	7,037.45	6,321.37	6,188.77	102.52	33.32	33.98	1,746.17	6,298.92	1,935.13	1,848.04	87.09	22.219		
8,732.15	7,061.92	6,345.05	6,212.44	102.97	33.38	34.30	1,745.89	6,298.96	1,916.68	1,828.91	87.78	21.836		
8,750.00	7,075.57	6,359.15	6,226.54	103.22	33.41	31.24	1,745.72	6,298.99	1,906.40	1,818.26	88.15	21.627		
8,800.00	7,114.27	6,398.36	6,265.75	103.91	33.50	22.19	1,745.25	6,299.09	1,877.10	1,788.05	89.05	21.079		
8,850.00	7,153.47	6,437.56	6,304.95	104.58	33.59	12.54	1,744.75	6,299.21	1,847.15	1,757.42	89.73	20.585		
8,900.00	7,192.85	6,476.42	6,343.80	105.21	33.69	2.49	1,744.22	6,299.33	1,816.70	1,726.54	90.16	20.150		
8,950.00	7,232.12	6,515.14	6,382.52	105.80	33.79	-7.76	1,743.74	6,299.40	1,785.91	1,695.57	90.34	19.769		
9,000.00	7,270.99	6,553.44	6,420.82	106.35	33.89	-17.94	1,743.31	6,299.44	1,755.04	1,664.78	90.26	19.444		
9,050.00	7,309.16	6,591.79	6,459.16	106.85	33.98	-27.81	1,742.84	6,299.47	1,724.39	1,634.48	89.92	19.177		
9,100.00	7,346.32	6,629.49	6,497.86	107.30	34.07	-37.18	1,742.33	6,299.49	1,694.29	1,604.98	89.31	18.971		
9,150.00	7,382.22	6,667.15	6,535.52	107.69	34.15	-45.89	1,741.78	6,299.54	1,665.08	1,576.65	88.43	18.829		
9,200.00	7,416.56	6,704.51	6,573.87	108.02	34.23	-53.86	1,741.20	6,299.61	1,637.13	1,549.84	87.30	18.754		
9,250.00	7,449.09	6,741.95	6,611.31	108.29	34.31	-61.03	1,740.60	6,299.71	1,610.83	1,524.91	85.91	18.749 SF		
9,300.00	7,479.56	6,779.38	6,648.73	108.51	34.38	-67.37	1,740.06	6,299.83	1,586.57	1,502.26	84.31	18.818		
9,350.00	7,507.74	6,816.71	6,686.06	108.68	34.45	-72.90	1,739.55	6,299.98	1,564.77	1,482.24	82.52	18.961		
9,400.00	7,533.41	6,853.97	6,723.31	108.79	34.51	-77.62	1,739.09	6,300.13	1,545.81	1,465.21	80.60	19.179		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,556.39	7,640.99	7,466.32	108.86	34.57	-81.58	1,738.68	6,300.29	1,530.07	1,451.47	78.60	19.465		
9,500.00	7,576.48	7,661.26	7,486.59	108.88	34.62	-84.79	1,738.32	6,300.43	1,517.90	1,441.28	76.61	19.812		
9,550.00	7,593.55	7,678.62	7,503.94	108.86	34.66	-87.28	1,738.02	6,300.57	1,509.58	1,434.87	74.72	20.204		
9,600.00	7,607.46	7,692.93	7,518.25	108.80	34.70	-89.06	1,737.77	6,300.68	1,505.36	1,432.36	73.00	20.622 ES		
9,624.67	7,613.13	7,698.83	7,524.15	108.76	34.71	-89.69	1,737.66	6,300.73	1,504.84	1,432.59	72.25	20.829 CC		
9,650.00	7,618.11	7,704.08	7,529.40	108.71	34.73	-90.16	1,737.57	6,300.77	1,505.39	1,433.84	71.55	21.041		
9,700.00	7,625.41	7,711.11	7,536.43	108.59	34.74	-90.54	1,737.45	6,300.84	1,509.75	1,439.31	70.44	21.432		
9,750.00	7,629.30	7,715.30	7,540.63	108.45	34.75	-90.26	1,737.38	6,300.87	1,518.42	1,448.71	69.71	21.783		
9,781.81	7,630.00	7,716.39	7,541.72	108.35	34.76	-89.72	1,737.36	6,300.88	1,526.13	1,456.70	69.43	21.980		
9,800.00	7,630.00	7,716.67	7,541.99	108.29	34.76	-89.73	1,737.36	6,300.89	1,531.12	1,461.77	69.34	22.080		
9,900.00	7,630.00	7,718.15	7,543.47	107.97	34.76	-89.78	1,737.33	6,300.90	1,562.04	1,492.34	69.70	22.412		
10,000.00	7,630.00	7,719.63	7,544.96	107.67	34.76	-89.84	1,737.31	6,300.92	1,598.62	1,527.34	71.28	22.428		
10,100.00	7,630.00	7,721.11	7,546.43	107.38	34.77	-89.90	1,737.28	6,300.93	1,640.49	1,566.73	73.76	22.242		
10,200.00	7,630.00	7,722.58	7,547.90	107.10	34.77	-89.96	1,737.26	6,300.95	1,687.26	1,610.44	76.82	21.964		
10,300.00	7,630.00	7,724.05	7,549.37	106.84	34.78	-90.01	1,737.23	6,300.96	1,738.52	1,658.32	80.20	21.678		
10,400.00	7,630.00	7,725.51	7,550.83	106.59	34.78	-90.07	1,737.21	6,300.98	1,793.90	1,710.19	83.70	21.431		
10,500.00	7,630.00	7,726.97	7,552.29	106.35	34.78	-90.13	1,737.18	6,300.99	1,853.02	1,765.80	87.21	21.247		
10,600.00	7,630.00	7,728.42	7,553.74	106.13	34.79	-90.18	1,737.16	6,301.01	1,915.53	1,824.90	90.64	21.134		
10,700.00	7,630.00	7,729.86	7,555.18	105.92	34.79	-90.24	1,737.14	6,301.02	1,981.13	1,887.20	93.93	21.092		
10,800.00	7,630.00	7,731.30	7,556.62	105.72	34.79	-90.30	1,737.11	6,301.04	2,049.50	1,952.44	97.06	21.116		
10,900.00	7,630.00	7,732.74	7,558.06	105.54	34.80	-90.35	1,737.09	6,301.05	2,120.39	2,020.38	100.01	21.202		
11,000.00	7,630.00	7,734.17	7,559.49	105.37	34.80	-90.41	1,737.06	6,301.07	2,193.54	2,090.76	102.78	21.342		
11,100.00	7,630.00	7,735.60	7,560.91	105.21	34.81	-90.46	1,737.04	6,301.09	2,268.75	2,163.38	105.37	21.531		
11,200.00	7,630.00	7,737.02	7,562.33	105.06	34.81	-90.52	1,737.02	6,301.10	2,345.80	2,238.01	107.79	21.763		
11,300.00	7,630.00	7,738.43	7,563.75	104.93	34.81	-90.57	1,736.99	6,301.12	2,424.53	2,314.49	110.04	22.033		
11,400.00	7,630.00	7,739.84	7,565.16	104.82	34.82	-90.63	1,736.97	6,301.13	2,504.78	2,392.64	112.14	22.337		
11,500.00	7,630.00	7,741.25	7,566.57	104.72	34.82	-90.68	1,736.95	6,301.15	2,586.40	2,472.31	114.09	22.670		
11,600.00	7,630.00	7,742.65	7,567.97	104.63	34.82	-90.74	1,736.92	6,301.17	2,669.28	2,553.37	115.91	23.030		
11,700.00	7,630.00	7,744.05	7,569.36	104.55	34.83	-90.79	1,736.90	6,301.18	2,753.29	2,635.69	117.60	23.412		
11,800.00	7,630.00	7,745.44	7,570.76	104.50	34.83	-90.85	1,736.88	6,301.20	2,838.33	2,719.15	119.18	23.816		
11,900.00	7,630.00	7,746.83	7,572.14	104.45	34.83	-90.90	1,736.85	6,301.22	2,924.32	2,803.67	120.65	24.238		
12,000.00	7,630.00	7,748.21	7,573.53	104.43	34.84	-90.96	1,736.83	6,301.24	3,011.18	2,889.15	122.03	24.677		
12,100.00	7,630.00	7,749.59	7,574.90	104.42	34.84	-91.01	1,736.81	6,301.25	3,098.83	2,975.52	123.31	25.130		
12,200.00	7,630.00	7,750.96	7,576.28	104.42	34.84	-91.06	1,736.79	6,301.27	3,187.20	3,062.69	124.51	25.597		
12,300.00	7,630.00	7,752.33	7,577.64	104.45	34.85	-91.12	1,736.76	6,301.29	3,276.25	3,150.60	125.64	26.076		
12,400.00	7,630.00	7,753.69	7,579.01	104.49	34.85	-91.17	1,736.74	6,301.31	3,365.90	3,239.20	126.70	26.566		
12,500.00	7,630.00	7,755.05	7,580.37	104.55	34.86	-91.22	1,736.72	6,301.32	3,456.13	3,328.43	127.69	27.066		
12,600.00	7,630.00	7,756.41	7,581.72	104.63	34.86	-91.27	1,736.70	6,301.34	3,546.88	3,418.25	128.63	27.575		
12,700.00	7,630.00	7,757.76	7,583.07	104.73	34.86	-91.33	1,736.68	6,301.36	3,638.11	3,508.60	129.51	28.092		
12,800.00	7,630.00	7,759.10	7,584.41	104.85	34.87	-91.38	1,736.65	6,301.38	3,729.79	3,599.45	130.34	28.617		
12,900.00	7,630.00	7,760.44	7,585.75	104.99	34.87	-91.43	1,736.63	6,301.39	3,821.89	3,690.77	131.12	29.148		
13,000.00	7,630.00	7,761.78	7,587.09	105.15	34.87	-91.48	1,736.61	6,301.41	3,914.37	3,782.52	131.86	29.686		
13,100.00	7,630.00	7,763.11	7,588.42	105.34	34.88	-91.54	1,736.59	6,301.43	4,007.22	3,874.66	132.56	30.230		
13,200.00	7,630.00	7,764.44	7,589.75	105.56	34.88	-91.59	1,736.57	6,301.45	4,100.40	3,967.18	133.22	30.779		
13,300.00	7,630.00	7,765.76	7,591.07	105.80	34.88	-91.64	1,736.55	6,301.47	4,193.90	4,060.05	133.85	31.333		
13,400.00	7,630.00	7,767.08	7,592.39	106.06	34.89	-91.69	1,736.53	6,301.49	4,287.69	4,153.24	134.45	31.892		
13,500.00	7,630.00	7,768.39	7,593.70	106.36	34.89	-91.74	1,736.51	6,301.50	4,381.75	4,246.74	135.01	32.454		
13,600.00	7,630.00	7,769.70	7,595.01	106.68	34.89	-91.79	1,736.48	6,301.52	4,476.07	4,340.52	135.55	33.021		
13,700.00	7,630.00	7,771.01	7,596.32	107.03	34.90	-91.84	1,736.46	6,301.54	4,570.63	4,434.56	136.07	33.591		
13,800.00	7,630.00	7,772.31	7,597.62	107.42	34.90	-91.89	1,736.44	6,301.56	4,665.42	4,528.86	136.55	34.165		
13,900.00	7,630.00	7,773.61	7,598.92	107.83	34.90	-91.94	1,736.42	6,301.58	4,760.42	4,623.39	137.02	34.742		
14,000.00	7,630.00	7,774.90	7,600.21	108.28	34.91	-91.99	1,736.40	6,301.60	4,855.62	4,718.15	137.47	35.322		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,630.00	7,776.19	7,601.50	108.77	34.91	-92.04	1,736.38	6,301.62	4,951.01	4,813.11	137.89	35.904		
14,200.00	7,630.00	7,777.47	7,602.78	109.29	34.91	-92.09	1,736.36	6,301.64	5,046.57	4,908.27	138.30	36.489		
14,300.00	7,630.00	7,778.75	7,604.06	109.84	34.92	-92.14	1,736.34	6,301.66	5,142.31	5,003.62	138.69	37.077		
14,400.00	7,630.00	7,780.03	7,605.33	110.43	34.92	-92.19	1,736.32	6,301.68	5,238.20	5,099.14	139.07	37.667		
14,500.00	7,630.00	7,781.30	7,606.60	111.06	34.92	-92.24	1,736.30	6,301.70	5,334.25	5,194.82	139.43	38.258		
14,600.00	7,630.00	7,782.56	7,607.87	111.72	34.93	-92.29	1,736.28	6,301.72	5,430.44	5,290.66	139.77	38.852		
14,700.00	7,630.00	7,783.83	7,609.13	112.42	34.93	-92.34	1,736.26	6,301.73	5,526.76	5,386.65	140.10	39.448		
14,800.00	7,630.00	7,785.09	7,610.39	113.16	34.93	-92.39	1,736.24	6,301.75	5,623.21	5,482.79	140.42	40.045		
14,900.00	7,630.00	7,786.34	7,611.65	113.94	34.94	-92.44	1,736.22	6,301.77	5,719.78	5,579.05	140.73	40.644		
15,000.00	7,630.00	7,787.59	7,612.90	114.75	34.94	-92.49	1,736.20	6,301.79	5,816.47	5,675.44	141.02	41.244		
15,100.00	7,630.00	7,788.84	7,614.14	115.60	34.94	-92.54	1,736.18	6,301.81	5,913.27	5,771.96	141.31	41.846		
15,200.00	7,630.00	7,790.08	7,615.39	116.48	34.94	-92.58	1,736.16	6,301.83	6,010.17	5,868.58	141.58	42.449		
15,300.00	7,630.00	7,791.32	7,616.62	117.40	34.95	-92.63	1,736.14	6,301.85	6,107.17	5,965.32	141.85	43.054		
15,400.00	7,630.00	7,792.55	7,617.86	118.35	34.95	-92.68	1,736.13	6,301.87	6,204.27	6,062.16	142.11	43.659		
15,500.00	7,630.00	7,793.79	7,619.09	119.34	34.95	-92.73	1,736.11	6,301.89	6,301.45	6,159.10	142.35	44.266		
15,600.00	7,630.00	7,796.00	7,621.30	120.35	34.96	-92.81	1,736.07	6,301.93	6,398.73	6,256.13	142.59	44.874		
15,700.00	7,630.00	7,796.50	7,621.81	121.40	34.96	-92.83	1,736.06	6,301.94	6,496.08	6,353.26	142.82	45.483		
15,800.00	7,630.00	7,799.16	7,624.46	122.48	34.97	-92.94	1,736.02	6,301.98	6,593.52	6,450.47	143.05	46.092		
15,900.00	7,630.00	7,801.87	7,627.18	123.58	34.97	-93.04	1,735.98	6,302.03	6,691.02	6,547.76	143.27	46.703		
16,000.00	7,630.00	7,804.65	7,629.95	124.71	34.98	-93.15	1,735.94	6,302.07	6,788.61	6,645.13	143.48	47.314		
16,100.00	7,630.00	7,807.48	7,632.78	125.87	34.99	-93.26	1,735.89	6,302.12	6,886.26	6,742.57	143.69	47.926		
16,200.00	7,630.00	7,810.38	7,635.68	127.05	35.00	-93.37	1,735.84	6,302.17	6,983.97	6,840.09	143.89	48.538		
16,300.00	7,630.00	7,813.34	7,638.64	128.26	35.00	-93.49	1,735.80	6,302.22	7,081.75	6,937.67	144.08	49.152		
16,400.00	7,630.00	7,816.38	7,641.68	129.48	35.01	-93.60	1,735.75	6,302.27	7,179.59	7,035.32	144.27	49.766		
16,500.00	7,630.00	7,819.48	7,644.78	130.73	35.02	-93.72	1,735.69	6,302.32	7,277.49	7,133.04	144.45	50.380		
16,600.00	7,630.00	7,822.66	7,647.95	132.00	35.03	-93.85	1,735.64	6,302.37	7,375.44	7,230.81	144.63	50.995		
16,700.00	7,630.00	7,825.91	7,651.20	133.29	35.04	-93.97	1,735.58	6,302.42	7,473.45	7,328.64	144.81	51.610		
16,800.00	7,630.00	7,829.24	7,654.53	134.59	35.05	-94.10	1,735.53	6,302.48	7,571.51	7,426.53	144.98	52.226		
16,900.00	7,630.00	7,832.65	7,657.94	135.91	35.05	-94.23	1,735.47	6,302.53	7,669.61	7,524.47	145.14	52.842		
17,000.00	7,630.00	7,836.15	7,661.44	137.25	35.06	-94.37	1,735.40	6,302.59	7,767.77	7,622.46	145.30	53.459		
17,100.00	7,630.00	7,839.73	7,665.02	138.61	35.07	-94.51	1,735.34	6,302.65	7,865.97	7,720.51	145.46	54.076		
17,200.00	7,630.00	7,843.40	7,668.69	139.97	35.08	-94.65	1,735.27	6,302.70	7,964.21	7,818.60	145.62	54.693		
17,300.00	7,630.00	7,847.17	7,672.46	141.36	35.09	-94.79	1,735.20	6,302.76	8,062.50	7,916.73	145.77	55.311		
17,400.00	7,630.00	7,851.04	7,676.33	142.75	35.10	-94.94	1,735.13	6,302.83	8,160.83	8,014.91	145.92	55.928		
17,500.00	7,630.00	7,855.01	7,680.29	144.16	35.11	-95.10	1,735.05	6,302.89	8,259.20	8,113.13	146.06	56.546		
17,600.00	7,630.00	7,859.08	7,684.37	145.58	35.12	-95.25	1,734.98	6,302.95	8,357.60	8,211.40	146.20	57.164		
17,700.00	7,630.00	7,863.26	7,688.55	147.01	35.13	-95.42	1,734.90	6,303.02	8,456.04	8,309.70	146.34	57.783		
17,800.00	7,630.00	7,867.56	7,692.85	148.45	35.14	-95.58	1,734.81	6,303.09	8,554.52	8,408.04	146.48	58.401		
17,900.00	7,630.00	7,871.98	7,697.26	149.91	35.16	-95.75	1,734.72	6,303.16	8,653.03	8,506.42	146.61	59.020		
18,000.00	7,630.00	7,876.52	7,701.80	151.37	35.17	-95.93	1,734.63	6,303.23	8,751.57	8,604.83	146.74	59.639		
18,100.00	7,630.00	7,881.20	7,706.47	152.84	35.18	-96.10	1,734.53	6,303.30	8,850.15	8,703.27	146.87	60.258		
18,200.00	7,630.00	7,886.00	7,711.28	154.32	35.19	-96.29	1,734.43	6,303.37	8,948.75	8,801.75	147.00	60.876		
18,300.00	7,630.00	7,890.95	7,716.23	155.81	35.20	-96.48	1,734.33	6,303.45	9,047.39	8,900.26	147.12	61.495		
18,400.00	7,630.00	7,896.05	7,721.32	157.31	35.22	-96.67	1,734.22	6,303.53	9,146.05	8,998.80	147.25	62.114		
18,500.00	7,630.00	7,901.30	7,726.57	158.81	35.23	-96.88	1,734.10	6,303.61	9,244.74	9,097.37	147.37	62.733		
18,600.00	7,630.00	7,906.71	7,731.98	160.32	35.25	-97.08	1,733.98	6,303.69	9,343.46	9,195.97	147.49	63.352		
18,700.00	7,630.00	18,700.00	7,695.60	161.84	64.50	-95.69	1,734.71	6,303.12	9,442.19	9,262.64	179.56	52.586		
18,800.00	7,630.00	18,800.00	7,697.43	163.37	64.78	-95.76	1,734.68	6,303.15	9,540.97	9,361.02	179.95	53.020		
18,900.00	7,630.00	18,900.00	7,699.25	164.90	65.06	-95.83	1,734.65	6,303.18	9,639.77	9,459.43	180.34	53.453		
19,000.00	7,630.00	7,900.59	7,725.86	166.43	35.23	-96.85	1,734.13	6,303.60	9,738.60	9,590.69	147.91	65.841		
19,100.00	7,630.00	7,902.13	7,727.40	167.98	35.23	-96.91	1,734.09	6,303.62	9,837.44	9,689.43	148.02	66.462		
19,200.00	7,630.00	7,903.65	7,728.92	169.53	35.24	-96.97	1,734.06	6,303.65	9,936.31	9,788.19	148.12	67.083		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	81.90	765.59	5,380.92	5,435.70					
100.00	100.00	40.17	40.17	0.13	0.05	81.90	765.63	5,380.84	5,435.08	5,434.89	0.19	N/A		
200.00	200.00	138.00	138.00	0.49	0.39	81.90	765.78	5,380.28	5,434.54	5,433.66	0.88	6,177.131		
267.22	267.22	187.22	187.22	0.73	0.56	81.90	765.52	5,380.15	5,434.34	5,433.05	1.29	4,207.668		
300.00	300.00	205.96	205.95	0.85	0.62	81.90	765.27	5,380.21	5,434.38	5,432.91	1.47	3,686.618		
400.00	400.00	229.00	228.99	1.21	0.70	81.91	764.86	5,380.37	5,435.22	5,433.31	1.91	2,839.914		
500.00	499.98	275.32	275.29	1.56	0.87	15.20	763.69	5,381.29	5,435.45	5,433.02	2.43	2,237.970		
600.00	599.84	320.00	319.90	1.92	1.02	15.23	762.19	5,383.16	5,433.79	5,430.86	2.94	1,851.367		
700.00	699.45	320.00	319.90	2.29	1.02	15.25	762.19	5,383.16	5,429.97	5,426.68	3.29	1,649.778		
800.00	798.70	370.34	370.09	2.67	1.21	15.33	759.98	5,386.28	5,423.96	5,420.12	3.83	1,415.575		
900.00	897.47	411.00	410.56	3.07	1.36	15.42	757.73	5,389.52	5,415.86	5,411.52	4.34	1,247.758		
1,000.00	995.62	442.74	442.10	3.50	1.47	15.52	755.69	5,392.45	5,405.57	5,400.74	4.83	1,119.697		
1,100.00	1,093.06	502.00	500.85	3.96	1.70	15.68	751.22	5,398.79	5,393.17	5,387.74	5.43	994.063		
1,200.00	1,189.64	502.00	500.85	4.46	1.70	15.76	751.22	5,398.79	5,378.43	5,372.63	5.81	926.280		
1,300.00	1,285.27	548.45	546.78	5.00	1.89	15.94	747.43	5,404.60	5,361.58	5,355.20	6.38	840.627		
1,400.00	1,379.82	593.00	590.73	5.60	2.08	16.14	743.87	5,410.94	5,342.77	5,335.81	6.95	768.462		
1,500.00	1,473.17	593.00	590.73	6.25	2.08	16.26	743.87	5,410.94	5,321.90	5,314.54	7.36	722.722		
1,600.00	1,565.21	645.80	642.68	6.95	2.31	16.51	739.62	5,419.39	5,298.80	5,290.80	8.00	662.383		
1,700.00	1,655.84	684.00	680.14	7.72	2.48	16.76	736.47	5,426.12	5,273.75	5,265.16	8.59	613.907		
1,800.00	1,744.94	719.27	714.68	8.55	2.64	17.02	733.74	5,432.70	5,246.58	5,237.39	9.19	571.184		
1,900.00	1,832.39	776.00	770.21	9.45	2.91	17.35	730.21	5,443.79	5,217.27	5,207.39	9.88	527.903		
2,000.00	1,918.11	808.24	801.72	10.41	3.06	17.63	728.48	5,450.36	5,185.66	5,175.16	10.50	493.888		
2,100.00	2,001.97	870.00	861.98	11.45	3.36	18.04	724.93	5,463.44	5,151.84	5,140.58	11.25	457.838		
2,200.00	2,083.88	926.83	917.36	12.56	3.64	18.46	721.70	5,475.81	5,115.55	5,103.54	12.01	425.884		
2,300.00	2,163.74	1,013.87	1,002.17	13.74	4.08	19.02	717.36	5,494.85	5,076.55	5,063.64	12.90	393.436		
2,400.00	2,241.45	1,106.96	1,092.94	14.99	4.55	19.64	713.24	5,515.06	5,034.54	5,020.70	13.85	363.622		
2,421.22	2,257.65	1,125.98	1,111.50	15.26	4.65	19.78	712.45	5,519.18	5,025.26	5,011.21	14.05	357.729		
2,500.00	2,317.63	1,193.02	1,176.89	16.29	4.99	20.02	709.59	5,533.69	4,990.57	4,975.79	14.78	337.713		
2,600.00	2,393.75	1,267.19	1,249.17	17.62	5.37	20.31	705.66	5,549.85	4,946.73	4,931.05	15.68	315.512		
2,700.00	2,469.88	1,326.75	1,307.10	18.95	5.68	20.55	701.79	5,563.13	4,903.42	4,886.88	16.54	296.428		
2,800.00	2,546.01	1,401.69	1,379.87	20.30	6.09	20.86	696.33	5,580.18	4,860.62	4,843.13	17.49	277.926		
2,900.00	2,622.13	1,468.22	1,444.44	21.65	6.45	21.14	691.48	5,595.45	4,818.19	4,799.78	18.42	261.609		
3,000.00	2,698.26	1,526.00	1,500.46	23.01	6.76	21.38	687.44	5,609.01	4,776.40	4,757.08	19.32	247.167		
3,100.00	2,774.38	1,585.75	1,558.32	24.37	7.10	21.64	683.25	5,623.36	4,735.28	4,715.02	20.26	233.772		
3,200.00	2,850.51	1,719.02	1,687.31	25.74	7.84	22.22	673.81	5,655.50	4,694.56	4,673.05	21.51	218.233		
3,300.00	2,926.64	1,799.06	1,764.93	27.11	8.28	22.58	668.47	5,674.25	4,653.30	4,630.74	22.55	206.314		
3,400.00	3,002.76	1,879.77	1,843.21	28.49	8.73	22.93	663.30	5,693.22	4,612.29	4,588.68	23.61	195.326		
3,500.00	3,078.89	2,002.42	1,962.30	29.87	9.40	23.47	656.51	5,721.73	4,571.29	4,546.44	24.85	183.946		
3,600.00	3,155.02	2,082.70	2,040.37	31.25	9.83	23.82	652.74	5,740.09	4,530.12	4,504.19	25.93	174.737		
3,700.00	3,231.14	2,174.48	2,129.61	32.63	10.33	24.23	648.34	5,761.06	4,489.11	4,462.05	27.06	165.891		
3,800.00	3,307.27	2,250.98	2,203.95	34.01	10.75	24.59	643.84	5,778.55	4,448.33	4,420.17	28.16	157.980		
3,900.00	3,383.39	2,346.80	2,296.96	35.40	11.27	25.06	637.00	5,800.52	4,407.84	4,378.48	29.36	150.153		
4,000.00	3,459.52	2,458.62	2,405.64	36.79	11.88	25.62	629.11	5,825.66	4,367.17	4,336.53	30.64	142.555		
4,100.00	3,535.65	2,510.05	2,455.60	38.18	12.17	25.89	625.35	5,837.24	4,326.79	4,295.11	31.68	136.564		
4,200.00	3,611.77	2,566.79	2,510.63	39.57	12.48	26.18	621.29	5,850.50	4,287.35	4,254.59	32.77	130.840		
4,300.00	3,687.90	2,805.93	2,743.29	40.96	13.77	27.41	607.01	5,903.82	4,247.85	4,213.25	34.59	122.793		
4,400.00	3,764.02	2,865.12	2,801.19	42.35	14.08	27.72	603.76	5,915.67	4,206.05	4,170.33	35.72	117.756		
4,500.00	3,840.15	2,897.00	2,832.27	43.74	14.25	27.89	601.68	5,922.46	4,165.57	4,128.81	36.75	113.336		
4,600.00	3,916.28	2,930.86	2,865.16	45.13	14.43	28.08	599.17	5,930.10	4,126.45	4,088.64	37.81	109.131		
4,700.00	3,992.40	3,018.69	2,950.40	46.53	14.91	28.56	593.30	5,950.42	4,088.11	4,049.00	39.11	104.522		
4,800.00	4,068.53	3,117.37	3,046.27	47.92	15.45	29.10	588.00	5,973.18	4,049.90	4,009.43	40.47	100.083		
4,900.00	4,144.66	3,204.06	3,130.52	49.32	15.93	29.59	583.02	5,993.02	4,011.82	3,970.03	41.79	95.995		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,220.78	3,322.52	3,245.76	50.71	16.57	30.26	576.00	6,019.49	3,973.54	3,930.27	43.27	91.830		
5,100.00	4,296.91	3,390.12	3,311.56	52.11	16.93	30.65	572.56	6,034.62	3,935.53	3,890.97	44.55	88.332		
5,200.00	4,373.03	3,457.21	3,376.79	53.51	17.30	31.04	569.11	6,049.93	3,898.22	3,852.37	45.86	85.011		
5,300.00	4,449.16	3,530.15	3,447.60	54.90	17.70	31.48	564.47	6,066.81	3,861.62	3,814.41	47.21	81.795		
5,400.00	4,525.29	3,630.14	3,544.59	56.30	18.26	32.11	556.79	6,089.88	3,825.46	3,776.75	48.72	78.521		
5,500.00	4,601.41	3,766.63	3,677.35	57.70	19.00	32.98	547.39	6,120.10	3,788.73	3,738.32	50.40	75.168		
5,600.00	4,677.54	3,889.45	3,797.19	59.10	19.64	33.77	540.13	6,145.99	3,751.28	3,699.24	52.03	72.092		
5,700.00	4,753.66	3,973.49	3,879.29	60.49	20.08	34.30	536.58	6,163.58	3,713.85	3,660.33	53.51	69.400		
5,800.00	4,829.79	4,042.18	3,946.36	61.89	20.44	34.74	533.55	6,178.13	3,677.00	3,622.04	54.96	66.908		
5,900.00	4,905.92	4,112.79	4,015.22	63.29	20.81	35.21	529.92	6,193.31	3,640.89	3,584.46	56.44	64.514		
6,000.00	4,982.04	6,000.00	4,208.55	64.69	30.08	36.54	520.61	6,233.45	3,604.14	3,539.22	64.92	55.513		
6,100.00	5,058.17	4,609.48	4,503.69	66.09	23.15	38.69	508.23	6,279.31	3,562.46	3,501.70	60.75	58.637		
6,200.00	5,134.30	5,171.46	5,064.21	67.49	24.94	43.12	501.28	6,310.28	3,509.42	3,446.39	63.03	55.678		
6,300.00	5,210.42	5,250.73	5,143.47	68.89	25.13	43.80	501.74	6,310.11	3,456.51	3,391.91	64.59	53.513		
6,400.00	5,286.55	5,329.91	5,222.65	70.29	25.32	44.49	502.19	6,309.87	3,403.95	3,337.76	66.19	51.428		
6,500.00	5,362.67	5,416.12	5,308.86	71.69	25.53	45.26	503.05	6,309.55	3,351.70	3,283.89	67.82	49.423		
6,600.00	5,438.80	5,499.66	5,392.39	73.09	25.73	46.03	504.03	6,308.99	3,299.63	3,230.15	69.48	47.491		
6,700.00	5,514.93	5,576.91	5,469.63	74.49	25.92	46.76	504.93	6,308.40	3,247.96	3,176.78	71.18	45.628		
6,800.00	5,591.05	5,655.14	5,547.85	75.89	26.11	47.52	505.81	6,307.75	3,196.74	3,123.82	72.93	43.834		
6,900.00	5,667.18	5,737.76	5,630.47	77.29	26.31	48.34	506.49	6,306.86	3,145.93	3,071.21	74.71	42.106		
7,000.00	5,743.30	5,823.19	5,715.89	78.69	26.51	49.23	507.06	6,305.66	3,095.45	3,018.91	76.54	40.441		
7,100.00	5,819.43	5,908.48	5,801.17	80.09	26.72	50.13	507.67	6,304.19	3,045.32	2,966.90	78.41	38.836		
7,200.00	5,895.56	5,989.00	5,881.66	81.49	26.91	51.02	508.19	6,302.56	2,995.59	2,915.25	80.34	37.289		
7,300.00	5,971.68	6,063.34	5,955.98	82.90	27.09	51.85	508.64	6,300.96	2,946.43	2,864.12	82.31	35.798		
7,400.00	6,047.81	6,134.25	6,026.88	84.30	27.26	52.67	509.10	6,299.53	2,898.03	2,813.70	84.33	34.365		
7,500.00	6,123.94	6,204.04	6,096.66	85.70	27.43	53.49	509.37	6,298.18	2,850.46	2,764.06	86.40	32.990		
7,600.00	6,200.06	6,280.41	6,173.01	87.10	27.62	54.42	509.44	6,296.66	2,803.71	2,715.18	88.53	31.671		
7,700.00	6,276.19	6,344.50	6,237.09	88.50	27.78	55.22	509.36	6,295.41	2,757.83	2,667.13	90.71	30.403		
7,800.00	6,352.31	6,394.00	6,286.58	89.90	27.91	55.85	509.19	6,294.65	2,713.22	2,620.28	92.94	29.193		
7,900.00	6,428.44	6,453.75	6,346.33	91.31	28.07	56.62	508.94	6,294.23	2,670.04	2,574.82	95.22	28.040		
8,000.00	6,504.57	6,505.87	6,398.44	92.71	28.21	57.29	508.75	6,294.45	2,628.50	2,530.96	97.54	26.948		
8,100.00	6,580.69	6,559.47	6,452.04	94.11	28.37	57.99	508.47	6,295.17	2,588.59	2,488.69	99.90	25.913		
8,200.00	6,656.82	6,654.77	6,547.32	95.51	28.66	59.27	507.85	6,296.76	2,549.97	2,447.65	102.32	24.922		
8,300.00	6,732.95	6,742.23	6,634.78	96.91	28.92	60.47	507.39	6,297.34	2,511.61	2,406.84	104.78	23.971		
8,400.00	6,809.07	6,823.76	6,716.32	98.32	29.15	61.62	506.93	6,297.67	2,474.19	2,366.92	107.27	23.064		
8,500.00	6,885.20	6,902.47	6,795.02	99.72	29.37	62.76	506.40	6,297.74	2,437.77	2,327.96	109.81	22.199		
8,600.00	6,961.32	6,975.41	6,867.96	101.12	29.58	63.84	505.88	6,297.78	2,402.55	2,290.16	112.38	21.378		
8,700.00	7,037.45	7,041.04	6,933.59	102.52	29.77	64.82	505.28	6,297.99	2,368.84	2,253.85	114.98	20.602		
8,732.15	7,061.92	7,064.88	6,957.42	102.97	29.84	65.19	505.02	6,298.11	2,358.34	2,242.51	115.82	20.361		
8,750.00	7,075.57	7,079.27	6,971.81	103.22	29.88	62.95	504.86	6,298.18	2,352.37	2,236.09	116.29	20.229		
8,800.00	7,114.27	7,120.10	7,012.64	103.91	30.00	56.21	504.44	6,298.36	2,333.84	2,216.32	117.51	19.860		
8,850.00	7,153.47	7,159.86	7,052.40	104.58	30.11	48.85	504.04	6,298.50	2,312.65	2,194.03	118.62	19.496		
8,900.00	7,192.85	7,197.88	7,090.41	105.21	30.22	41.00	503.65	6,298.65	2,288.92	2,169.32	119.60	19.138		
8,950.00	7,232.12	7,235.85	7,128.38	105.80	30.34	32.84	503.23	6,298.81	2,262.76	2,142.31	120.45	18.786		
9,000.00	7,270.99	7,277.06	7,169.59	106.35	30.46	24.54	502.73	6,298.95	2,234.28	2,113.12	121.16	18.441		
9,050.00	7,309.16	7,317.49	7,210.02	106.85	30.57	16.15	502.20	6,299.00	2,203.58	2,081.86	121.72	18.103		
9,100.00	7,346.32	7,355.81	7,248.33	107.30	30.68	7.68	501.68	6,298.99	2,170.89	2,048.76	122.13	17.775		
9,150.00	7,382.22	7,392.38	7,284.90	107.69	30.79	-0.89	501.20	6,298.99	2,136.43	2,014.05	122.38	17.458		
9,200.00	7,416.56	7,427.42	7,319.93	108.02	30.89	-9.60	500.76	6,299.00	2,100.46	1,978.00	122.46	17.153		
9,250.00	7,449.09	7,460.65	7,353.17	108.29	30.99	-18.48	500.37	6,299.02	2,063.26	1,940.90	122.36	16.862		
9,300.00	7,479.56	7,491.82	7,384.34	108.51	31.08	-27.53	500.02	6,299.04	2,025.17	1,903.07	122.09	16.587		
9,350.00	7,507.74	7,520.87	7,413.38	108.68	31.16	-36.65	499.71	6,299.07	1,986.51	1,864.86	121.64	16.331		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,548.44	7,440.95	108.79	31.24	-45.67	499.45	6,299.10	1,947.65	1,826.64	121.01	16.095		
9,450.00	7,556.39	7,573.09	7,465.60	108.86	31.31	-54.32	499.23	6,299.12	1,909.00	1,788.82	120.19	15.884		
9,500.00	7,576.48	7,594.65	7,487.16	108.88	31.38	-62.33	499.06	6,299.14	1,870.98	1,751.81	119.17	15.700		
9,550.00	7,593.55	7,612.96	7,505.47	108.86	31.43	-69.49	498.93	6,299.15	1,834.03	1,716.06	117.97	15.547		
9,600.00	7,607.46	7,625.80	7,518.31	108.80	31.47	-75.58	498.84	6,299.17	1,798.62	1,682.04	116.58	15.428		
9,650.00	7,618.11	7,635.98	7,528.49	108.71	31.50	-80.69	498.77	6,299.18	1,765.18	1,650.17	115.01	15.348		
9,700.00	7,625.41	7,643.06	7,535.57	108.59	31.52	-84.82	498.72	6,299.20	1,734.16	1,620.90	113.26	15.311 SF		
9,750.00	7,629.30	7,646.99	7,539.50	108.45	31.53	-88.03	498.69	6,299.21	1,705.97	1,594.62	111.35	15.320		
9,781.81	7,630.00	7,647.83	7,540.34	108.35	31.54	-89.62	498.69	6,299.21	1,689.69	1,579.63	110.06	15.352		
9,800.00	7,630.00	7,647.95	7,540.45	108.29	31.54	-89.63	498.69	6,299.21	1,680.85	1,571.54	109.30	15.378		
9,900.00	7,630.00	7,648.56	7,541.07	107.97	31.54	-89.65	498.68	6,299.21	1,634.98	1,530.01	104.96	15.577		
10,000.00	7,630.00	7,649.18	7,541.68	107.67	31.54	-89.68	498.68	6,299.22	1,594.07	1,493.70	100.37	15.882		
10,100.00	7,630.00	7,649.80	7,542.30	107.38	31.54	-89.70	498.68	6,299.22	1,558.51	1,462.93	95.58	16.305		
10,200.00	7,630.00	7,650.41	7,542.92	107.10	31.54	-89.72	498.67	6,299.22	1,528.68	1,437.96	90.72	16.851		
10,300.00	7,630.00	7,651.02	7,543.53	106.84	31.54	-89.75	498.67	6,299.22	1,504.91	1,419.00	85.91	17.517		
10,400.00	7,630.00	7,651.64	7,544.14	106.59	31.55	-89.77	498.66	6,299.22	1,487.50	1,406.12	81.38	18.277		
10,500.00	7,630.00	7,652.25	7,544.76	106.35	31.55	-89.80	498.66	6,299.23	1,476.67	1,399.28	77.39	19.082		
10,600.00	7,630.00	7,652.86	7,545.37	106.13	31.55	-89.82	498.66	6,299.23	1,472.57	1,398.35	74.22	19.840 ES		
10,610.51	7,630.00	7,652.93	7,545.43	106.11	31.55	-89.82	498.65	6,299.23	1,472.53	1,398.58	73.95	19.912 CC		
10,700.00	7,630.00	7,653.47	7,545.98	105.92	31.55	-89.84	498.65	6,299.23	1,475.25	1,403.07	72.18	20.438		
10,800.00	7,630.00	7,654.08	7,546.59	105.72	31.55	-89.87	498.65	6,299.23	1,484.67	1,413.20	71.48	20.772		
10,900.00	7,630.00	7,654.69	7,547.20	105.54	31.56	-89.89	498.64	6,299.23	1,500.72	1,428.56	72.16	20.798		
11,000.00	7,630.00	7,655.30	7,547.80	105.37	31.56	-89.91	498.64	6,299.24	1,523.17	1,449.08	74.09	20.559		
11,100.00	7,630.00	7,655.91	7,548.41	105.21	31.56	-89.94	498.63	6,299.24	1,551.76	1,474.77	76.99	20.155		
11,200.00	7,630.00	7,656.51	7,549.02	105.06	31.56	-89.96	498.63	6,299.24	1,586.14	1,505.59	80.55	19.690		
11,300.00	7,630.00	7,657.12	7,549.62	104.93	31.56	-89.99	498.63	6,299.24	1,625.96	1,541.46	84.50	19.242		
11,400.00	7,630.00	7,657.72	7,550.23	104.82	31.56	-90.01	498.62	6,299.24	1,670.82	1,582.22	88.60	18.858		
11,500.00	7,630.00	7,658.33	7,550.83	104.72	31.57	-90.03	498.62	6,299.25	1,720.32	1,627.63	92.70	18.559		
11,600.00	7,630.00	7,658.93	7,551.44	104.63	31.57	-90.06	498.61	6,299.25	1,774.09	1,677.41	96.68	18.350		
11,700.00	7,630.00	7,659.53	7,552.04	104.55	31.57	-90.08	498.61	6,299.25	1,831.75	1,731.27	100.48	18.230		
11,800.00	7,630.00	7,660.14	7,552.64	104.50	31.57	-90.10	498.61	6,299.25	1,892.93	1,788.87	104.06	18.190		
11,900.00	7,630.00	7,660.74	7,553.24	104.45	31.57	-90.13	498.60	6,299.25	1,957.31	1,849.90	107.41	18.223		
12,000.00	7,630.00	7,661.34	7,553.84	104.43	31.58	-90.15	498.60	6,299.26	2,024.59	1,914.08	110.51	18.320		
12,100.00	7,630.00	7,661.94	7,554.44	104.42	31.58	-90.17	498.60	6,299.26	2,094.48	1,981.10	113.38	18.473		
12,200.00	7,630.00	7,662.53	7,555.04	104.42	31.58	-90.20	498.59	6,299.26	2,166.73	2,050.72	116.02	18.676		
12,300.00	7,630.00	7,663.13	7,555.64	104.45	31.58	-90.22	498.59	6,299.26	2,241.12	2,122.68	118.44	18.922		
12,400.00	7,630.00	7,663.73	7,556.23	104.49	31.58	-90.24	498.58	6,299.26	2,317.44	2,196.77	120.67	19.205		
12,500.00	7,630.00	7,664.32	7,556.83	104.55	31.58	-90.27	498.58	6,299.27	2,395.49	2,272.79	122.71	19.522		
12,600.00	7,630.00	7,664.92	7,557.42	104.63	31.59	-90.29	498.58	6,299.27	2,475.13	2,350.55	124.58	19.867		
12,700.00	7,630.00	7,665.51	7,558.02	104.73	31.59	-90.31	498.57	6,299.27	2,556.20	2,429.90	126.30	20.238		
12,800.00	7,630.00	7,666.11	7,558.61	104.85	31.59	-90.34	498.57	6,299.27	2,638.57	2,510.68	127.89	20.632		
12,900.00	7,630.00	7,666.70	7,559.20	104.99	31.59	-90.36	498.56	6,299.28	2,722.12	2,592.78	129.34	21.046		
13,000.00	7,630.00	7,667.29	7,559.80	105.15	31.59	-90.38	498.56	6,299.28	2,806.74	2,676.06	130.68	21.478		
13,100.00	7,630.00	7,667.88	7,560.39	105.34	31.60	-90.40	498.56	6,299.28	2,892.35	2,760.44	131.91	21.926		
13,200.00	7,630.00	7,668.47	7,560.98	105.56	31.60	-90.43	498.55	6,299.28	2,978.85	2,845.80	133.05	22.389		
13,300.00	7,630.00	7,669.06	7,561.57	105.80	31.60	-90.45	498.55	6,299.28	3,066.18	2,932.07	134.11	22.864		
13,400.00	7,630.00	7,669.65	7,562.16	106.06	31.60	-90.47	498.54	6,299.29	3,154.25	3,019.17	135.08	23.351		
13,500.00	7,630.00	7,670.24	7,562.74	106.36	31.60	-90.50	498.54	6,299.29	3,243.02	3,107.03	135.99	23.848		
13,600.00	7,630.00	7,670.83	7,563.33	106.68	31.60	-90.52	498.54	6,299.29	3,332.43	3,195.60	136.83	24.355		
13,700.00	7,630.00	7,671.41	7,563.92	107.03	31.61	-90.54	498.53	6,299.29	3,422.42	3,284.81	137.61	24.870		
13,800.00	7,630.00	7,672.00	7,564.50	107.42	31.61	-90.56	498.53	6,299.30	3,512.95	3,374.61	138.34	25.394		
13,900.00	7,630.00	7,672.58	7,565.09	107.83	31.61	-90.59	498.53	6,299.30	3,603.98	3,464.96	139.02	25.924		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,630.00	7,673.17	7,565.67	108.28	31.61	-90.61	498.52	6,299.30	3,695.48	3,555.82	139.65	26.462		
14,100.00	7,630.00	7,673.75	7,566.26	108.77	31.61	-90.63	498.52	6,299.30	3,787.40	3,647.16	140.25	27.005		
14,200.00	7,630.00	7,674.33	7,566.84	109.29	31.61	-90.66	498.51	6,299.31	3,879.73	3,738.92	140.81	27.554		
14,300.00	7,630.00	7,674.91	7,567.42	109.84	31.62	-90.68	498.51	6,299.31	3,972.43	3,831.10	141.33	28.108		
14,400.00	7,630.00	7,675.50	7,568.00	110.43	31.62	-90.70	498.51	6,299.31	4,065.47	3,923.65	141.82	28.666		
14,500.00	7,630.00	7,676.08	7,568.58	111.06	31.62	-90.72	498.50	6,299.31	4,158.84	4,016.55	142.28	29.229		
14,600.00	7,630.00	7,676.65	7,569.16	111.72	31.62	-90.75	498.50	6,299.32	4,252.50	4,109.78	142.72	29.796		
14,700.00	7,630.00	7,677.23	7,569.74	112.42	31.62	-90.77	498.50	6,299.32	4,346.45	4,203.32	143.13	30.367		
14,800.00	7,630.00	7,677.81	7,570.32	113.16	31.62	-90.79	498.49	6,299.32	4,440.67	4,297.15	143.52	30.941		
14,900.00	7,630.00	7,678.39	7,570.89	113.94	31.63	-90.81	498.49	6,299.32	4,535.13	4,391.24	143.89	31.519		
15,000.00	7,630.00	7,678.96	7,571.47	114.75	31.63	-90.84	498.48	6,299.33	4,629.82	4,485.59	144.24	32.099		
15,100.00	7,630.00	7,679.54	7,572.04	115.60	31.63	-90.86	498.48	6,299.33	4,724.73	4,580.17	144.57	32.682		
15,200.00	7,630.00	7,680.11	7,572.62	116.48	31.63	-90.88	498.48	6,299.33	4,819.85	4,674.97	144.88	33.268		
15,300.00	7,630.00	7,680.69	7,573.19	117.40	31.63	-90.90	498.47	6,299.34	4,915.16	4,769.99	145.18	33.856		
15,400.00	7,630.00	7,681.26	7,573.77	118.35	31.63	-90.92	498.47	6,299.34	5,010.66	4,865.20	145.46	34.447		
15,500.00	7,630.00	7,681.83	7,574.34	119.34	31.64	-90.95	498.47	6,299.34	5,106.33	4,960.59	145.73	35.039		
15,600.00	7,630.00	7,682.41	7,574.91	120.35	31.64	-90.97	498.46	6,299.34	5,202.16	5,056.17	145.99	35.634		
15,700.00	7,630.00	7,682.98	7,575.48	121.40	31.64	-90.99	498.46	6,299.35	5,298.14	5,151.90	146.24	36.230		
15,800.00	7,630.00	7,683.55	7,576.05	122.48	31.64	-91.01	498.45	6,299.35	5,394.27	5,247.80	146.47	36.828		
15,900.00	7,630.00	7,684.12	7,576.62	123.58	31.64	-91.04	498.45	6,299.35	5,490.54	5,343.84	146.69	37.428		
16,000.00	7,630.00	7,684.69	7,577.19	124.71	31.65	-91.06	498.45	6,299.35	5,586.94	5,440.03	146.91	38.030		
16,100.00	7,630.00	7,685.25	7,577.76	125.87	31.65	-91.08	498.44	6,299.36	5,683.46	5,536.34	147.12	38.632		
16,200.00	7,630.00	7,685.82	7,578.32	127.05	31.65	-91.10	498.44	6,299.36	5,780.10	5,632.79	147.31	39.237		
16,300.00	7,630.00	7,686.39	7,578.89	128.26	31.65	-91.12	498.44	6,299.36	5,876.86	5,729.35	147.50	39.842		
16,400.00	7,630.00	7,686.95	7,579.46	129.48	31.65	-91.15	498.43	6,299.37	5,973.72	5,826.03	147.69	40.449		
16,500.00	7,630.00	7,687.52	7,580.02	130.73	31.65	-91.17	498.43	6,299.37	6,070.68	5,922.82	147.86	41.056		
16,600.00	7,630.00	7,688.08	7,580.59	132.00	31.66	-91.19	498.43	6,299.37	6,167.74	6,019.71	148.03	41.665		
16,700.00	7,630.00	7,688.64	7,581.15	133.29	31.66	-91.21	498.42	6,299.37	6,264.89	6,116.70	148.19	42.275		
16,800.00	7,630.00	7,689.21	7,581.71	134.59	31.66	-91.23	498.42	6,299.38	6,362.13	6,213.78	148.35	42.886		
16,900.00	7,630.00	7,689.77	7,582.27	135.91	31.66	-91.26	498.41	6,299.38	6,459.45	6,310.95	148.50	43.498		
17,000.00	7,630.00	7,690.33	7,582.83	137.25	31.66	-91.28	498.41	6,299.38	6,556.86	6,408.21	148.65	44.110		
17,100.00	7,630.00	7,690.89	7,583.40	138.61	31.66	-91.30	498.41	6,299.39	6,654.34	6,505.55	148.79	44.723		
17,200.00	7,630.00	7,691.45	7,583.96	139.97	31.67	-91.32	498.40	6,299.39	6,751.90	6,602.97	148.93	45.337		
17,300.00	7,630.00	7,692.01	7,584.51	141.36	31.67	-91.34	498.40	6,299.39	6,849.52	6,700.46	149.06	45.952		
17,400.00	7,630.00	7,692.57	7,585.07	142.75	31.67	-91.36	498.40	6,299.40	6,947.21	6,798.03	149.19	46.567		
17,500.00	7,630.00	7,693.13	7,585.63	144.16	31.67	-91.39	498.39	6,299.40	7,044.97	6,895.66	149.31	47.183		
17,600.00	7,630.00	7,693.68	7,586.19	145.58	31.67	-91.41	498.39	6,299.40	7,142.79	6,993.36	149.43	47.800		
17,700.00	7,630.00	7,694.24	7,586.74	147.01	31.67	-91.43	498.39	6,299.40	7,240.67	7,091.12	149.55	48.417		
17,800.00	7,630.00	7,694.79	7,587.30	148.45	31.68	-91.45	498.38	6,299.41	7,338.61	7,188.95	149.66	49.034		
17,900.00	7,630.00	7,695.35	7,587.85	149.91	31.68	-91.47	498.38	6,299.41	7,436.60	7,286.83	149.77	49.653		
18,000.00	7,630.00	7,713.24	7,587.26	151.37	31.73	-91.45	498.38	6,299.41	7,534.64	7,384.71	149.93	50.253		
18,100.00	7,630.00	7,712.61	7,587.89	152.84	31.73	-91.47	498.38	6,299.41	7,632.74	7,482.70	150.04	50.873		
18,200.00	7,630.00	7,711.99	7,588.52	154.32	31.73	-91.50	498.37	6,299.41	7,730.88	7,580.75	150.13	51.493		
18,300.00	7,630.00	7,711.36	7,589.14	155.81	31.73	-91.52	498.37	6,299.42	7,829.07	7,678.84	150.23	52.114		
18,400.00	7,630.00	7,710.74	7,589.77	157.31	31.72	-91.55	498.37	6,299.42	7,927.31	7,776.99	150.32	52.735		
18,500.00	7,630.00	7,710.11	7,590.39	158.81	31.72	-91.57	498.36	6,299.42	8,025.59	7,875.17	150.41	53.357		
18,600.00	7,630.00	7,709.49	7,591.02	160.32	31.72	-91.60	498.36	6,299.43	8,123.91	7,973.41	150.50	53.979		
18,700.00	7,630.00	7,708.86	7,591.64	161.84	31.72	-91.62	498.36	6,299.43	8,222.27	8,071.68	150.59	54.601		
18,800.00	7,630.00	7,708.24	7,592.27	163.37	31.72	-91.64	498.35	6,299.44	8,320.67	8,170.00	150.67	55.223		
18,900.00	7,630.00	7,707.61	7,592.89	164.90	31.71	-91.67	498.35	6,299.44	8,419.11	8,268.35	150.76	55.846		
19,000.00	7,630.00	7,706.98	7,593.52	166.43	31.71	-91.69	498.34	6,299.44	8,517.59	8,366.75	150.84	56.469		
19,100.00	7,630.00	7,706.36	7,594.15	167.98	31.71	-91.72	498.34	6,299.45	8,616.10	8,465.18	150.92	57.092		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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
19,200.00	7,630.00	7,705.73	7,594.77	169.53	31.71	-91.74	498.34	6,299.45	8,714.64	8,563.65	150.99	57.716	
19,300.00	7,630.00	7,705.11	7,595.40	171.08	31.71	-91.77	498.33	6,299.45	8,813.22	8,662.15	151.07	58.339	
19,400.00	7,630.00	7,704.48	7,596.02	172.64	31.70	-91.79	498.33	6,299.46	8,911.82	8,760.68	151.14	58.963	
19,500.00	7,630.00	7,704.14	7,596.65	174.21	31.70	-91.81	498.32	6,299.46	9,010.46	8,859.25	151.22	59.586	
19,518.56	7,630.00	7,704.26	7,596.76	174.50	31.70	-91.82	498.32	6,299.46	9,028.78	8,877.54	151.23	59.702	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	81.95	758.30	5,364.13	5,418.07					
100.00	100.00	23.51	23.51	0.13	0.04	81.95	758.28	5,364.12	5,417.45	5,417.28	0.17	N/A		
198.45	198.45	117.48	117.47	0.49	0.26	81.96	757.65	5,364.06	5,417.30	5,416.55	0.75	7,261.435		
200.00	200.00	118.60	118.60	0.49	0.26	81.96	757.62	5,364.06	5,417.30	5,416.54	0.76	7,169.292		
300.00	300.00	169.00	168.97	0.85	0.45	81.98	756.20	5,364.35	5,417.62	5,416.33	1.30	4,180.675		
400.00	400.00	236.95	236.82	1.21	0.70	82.01	752.72	5,365.49	5,418.65	5,416.74	1.91	2,843.983		
500.00	499.98	295.13	294.81	1.56	0.92	15.34	748.31	5,367.24	5,418.90	5,416.42	2.48	2,185.958		
600.00	599.84	351.00	350.39	1.92	1.13	15.42	743.12	5,369.42	5,416.49	5,413.44	3.05	1,777.803		
700.00	699.45	413.68	412.60	2.29	1.39	15.54	736.10	5,372.49	5,411.47	5,407.82	3.66	1,479.648		
800.00	798.70	442.00	440.64	2.67	1.50	15.63	732.47	5,374.12	5,404.05	5,399.92	4.13	1,307.715		
900.00	897.47	496.46	494.39	3.07	1.74	15.79	724.64	5,377.93	5,394.25	5,389.51	4.73	1,139.552		
1,000.00	995.62	533.00	530.32	3.50	1.90	15.94	718.74	5,381.09	5,382.36	5,377.10	5.26	1,022.933		
1,100.00	1,093.06	567.47	564.09	3.96	2.07	16.11	712.74	5,384.51	5,368.35	5,362.55	5.80	925.714		
1,200.00	1,189.64	624.00	619.21	4.46	2.34	16.37	702.04	5,391.06	5,352.34	5,345.89	6.45	829.960		
1,300.00	1,285.27	647.11	641.65	5.00	2.46	16.56	697.35	5,394.01	5,333.95	5,326.99	6.96	766.604		
1,400.00	1,379.82	715.00	707.22	5.60	2.82	16.92	682.31	5,403.05	5,313.21	5,305.50	7.71	689.300		
1,500.00	1,473.17	756.42	746.99	6.25	3.06	17.23	672.33	5,408.93	5,290.03	5,281.68	8.35	633.453		
1,600.00	1,565.21	808.00	796.25	6.95	3.36	17.60	659.20	5,416.76	5,264.66	5,255.60	9.06	580.865		
1,700.00	1,655.84	852.70	838.70	7.72	3.64	17.99	647.20	5,423.94	5,237.03	5,227.26	9.77	535.992		
1,800.00	1,744.94	902.00	885.28	8.55	3.95	18.43	633.30	5,432.17	5,207.09	5,196.57	10.52	494.942		
1,900.00	1,832.39	964.03	943.71	9.45	4.35	18.97	615.43	5,442.90	5,174.83	5,163.45	11.38	454.802		
2,000.00	1,918.11	1,038.72	1,013.97	10.41	4.85	19.62	593.85	5,456.15	5,140.17	5,127.83	12.34	416.401		
2,100.00	2,001.97	1,120.45	1,090.59	11.45	5.41	20.38	569.36	5,470.64	5,102.79	5,089.40	13.39	381.182		
2,200.00	2,083.88	1,326.55	1,284.41	12.56	6.81	21.98	508.31	5,505.00	5,062.17	5,046.91	15.26	331.699		
2,300.00	2,163.74	1,375.58	1,330.67	13.74	7.14	22.67	493.91	5,512.54	5,017.84	5,001.70	16.14	310.843		
2,400.00	2,241.45	1,412.51	1,365.41	14.99	7.40	23.33	482.90	5,518.52	4,971.66	4,954.69	16.97	292.911		
2,421.22	2,257.65	1,433.00	1,384.64	15.26	7.54	23.57	476.72	5,521.96	4,961.66	4,944.42	17.24	287.818		
2,500.00	2,317.63	1,433.00	1,384.64	16.29	7.54	23.57	476.72	5,521.96	4,924.60	4,906.88	17.72	277.916		
2,600.00	2,393.75	1,483.93	1,432.24	17.62	7.90	23.94	460.98	5,530.88	4,878.42	4,859.72	18.70	260.892		
2,700.00	2,469.88	1,527.00	1,472.24	18.95	8.21	24.27	447.14	5,538.85	4,833.40	4,813.76	19.65	246.026		
2,800.00	2,546.01	1,589.63	1,530.23	20.30	8.68	24.75	426.65	5,550.69	4,789.27	4,768.51	20.76	230.659		
2,900.00	2,622.13	1,665.13	1,600.16	21.65	9.24	25.33	401.99	5,564.89	4,745.65	4,723.66	21.99	215.766		
3,000.00	2,698.26	3,000.00	1,703.05	23.01	19.00	26.19	366.74	5,585.28	4,702.26	4,670.66	31.60	148.829		
3,100.00	2,774.38	1,877.75	1,798.32	24.37	10.79	26.98	335.19	5,603.31	4,658.79	4,633.86	24.94	186.811		
3,200.00	2,850.51	1,950.42	1,866.50	25.74	11.30	27.55	313.57	5,616.18	4,615.89	4,589.71	26.19	176.259		
3,300.00	2,926.64	2,024.06	1,935.71	27.11	11.82	28.12	292.10	5,629.24	4,573.55	4,546.09	27.46	166.549		
3,400.00	3,002.76	2,092.60	2,000.13	28.49	12.30	28.66	272.14	5,641.47	4,531.86	4,503.14	28.72	157.807		
3,500.00	3,078.89	2,148.70	2,052.76	29.87	12.69	29.11	255.54	5,651.60	4,490.97	4,461.06	29.91	150.131		
3,600.00	3,155.02	2,205.69	2,106.05	31.25	13.10	29.58	238.30	5,662.07	4,451.02	4,419.88	31.14	142.946		
3,700.00	3,231.14	2,264.51	2,161.00	32.63	13.53	30.06	220.42	5,673.08	4,411.99	4,379.59	32.40	136.183		
3,800.00	3,307.27	2,418.08	2,305.00	34.01	14.61	31.34	174.84	5,700.76	4,372.95	4,338.59	34.36	127.276		
3,900.00	3,383.39	2,496.58	2,378.99	35.40	15.16	32.00	152.38	5,714.32	4,333.93	4,298.15	35.79	121.097		
4,000.00	3,459.52	2,559.53	2,438.24	36.79	15.60	32.53	134.13	5,725.25	4,295.73	4,258.60	37.13	115.690		
4,100.00	3,535.65	2,616.19	2,491.37	38.18	16.00	33.02	117.14	5,735.18	4,258.50	4,220.04	38.46	110.728		
4,200.00	3,611.77	2,695.27	2,565.30	39.57	16.56	33.72	92.78	5,749.13	4,222.23	4,182.25	39.98	105.616		
4,300.00	3,687.90	2,780.04	2,645.02	40.96	17.16	34.47	68.11	5,764.02	4,186.36	4,144.81	41.55	100.751		
4,400.00	3,764.02	2,836.00	2,697.58	42.35	17.55	34.97	51.60	5,773.86	4,151.38	4,108.45	42.93	96.711		
4,500.00	3,840.15	2,892.48	2,750.47	43.74	17.96	35.48	34.53	5,783.94	4,117.51	4,073.18	44.33	92.881		
4,600.00	3,916.28	2,945.64	2,800.09	45.13	18.35	35.97	18.15	5,793.67	4,084.89	4,039.16	45.73	89.327		
4,700.00	3,992.40	3,005.64	2,856.00	46.53	18.79	36.52	-0.58	5,804.82	4,053.43	4,006.22	47.21	85.868		
4,800.00	4,068.53	3,074.13	2,919.69	47.92	19.29	37.17	-22.22	5,817.65	4,023.05	3,974.27	48.78	82.481		
4,900.00	4,144.66	3,148.63	2,988.87	49.32	19.85	37.88	-46.17	5,831.51	3,993.61	3,943.19	50.42	79.203		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	3,237.97	3,071.61	50.71	20.52	38.75	-75.69	5,847.72	3,965.03	3,912.80	52.23	75.914		
5,100.00	4,296.91	3,351.43	3,177.15	52.11	21.36	39.86	-112.28	5,867.61	3,936.74	3,882.47	54.26	72.547		
5,200.00	4,373.03	3,428.54	3,249.42	53.51	21.92	40.61	-135.42	5,881.30	3,909.01	3,853.04	55.98	69.834		
5,300.00	4,449.16	3,487.90	3,305.09	54.90	22.34	41.18	-152.99	5,892.10	3,882.44	3,824.90	57.54	67.470		
5,400.00	4,525.29	3,531.98	3,346.32	56.30	22.66	41.61	-166.23	5,900.30	3,857.27	3,798.27	59.00	65.383		
5,500.00	4,601.41	3,586.00	3,396.59	57.70	23.06	42.15	-183.10	5,910.60	3,833.74	3,773.19	60.55	63.316		
5,600.00	4,677.54	3,649.59	3,455.66	59.10	23.53	42.78	-203.17	5,922.91	3,811.57	3,749.36	62.21	61.271		
5,700.00	4,753.66	3,808.33	3,604.11	60.49	24.68	44.36	-250.96	5,952.48	3,789.41	3,724.66	64.75	58.526		
5,800.00	4,829.79	3,879.72	3,671.18	61.89	25.18	45.07	-271.76	5,965.36	3,767.62	3,701.13	66.50	56.658		
5,900.00	4,905.92	3,940.70	3,728.30	63.29	25.62	45.69	-290.18	5,976.19	3,747.08	3,678.90	68.17	54.963		
6,000.00	4,982.04	3,991.12	3,775.35	64.69	25.99	46.22	-306.00	5,985.07	3,727.97	3,658.21	69.77	53.436		
6,100.00	5,058.17	4,037.19	3,818.26	66.09	26.33	46.69	-320.43	5,993.57	3,710.54	3,639.22	71.32	52.028		
6,200.00	5,134.30	4,100.71	3,877.37	67.49	26.80	47.35	-340.21	6,005.78	3,694.70	3,621.65	73.05	50.581		
6,300.00	5,210.42	4,189.27	3,959.81	68.89	27.45	48.27	-367.69	6,022.82	3,679.98	3,604.95	75.04	49.042		
6,400.00	5,286.55	4,273.62	4,038.35	70.29	28.08	49.15	-394.35	6,038.19	3,665.97	3,588.97	77.01	47.607		
6,500.00	5,362.67	4,332.22	4,092.92	71.69	28.51	49.77	-412.73	6,049.11	3,653.34	3,574.63	78.71	46.415		
6,600.00	5,438.80	4,385.50	4,142.49	73.09	28.91	50.33	-429.31	6,059.41	3,642.27	3,561.91	80.36	45.326		
6,700.00	5,514.93	4,442.22	4,195.18	74.49	29.33	50.92	-446.97	6,070.76	3,632.82	3,550.78	82.04	44.283		
6,800.00	5,591.05	4,517.33	4,264.89	75.89	29.90	51.71	-470.51	6,085.84	3,624.71	3,540.79	83.92	43.192		
6,900.00	5,667.18	4,592.70	4,334.75	77.29	30.47	52.52	-494.72	6,100.52	3,617.81	3,531.98	85.82	42.154		
7,000.00	5,743.30	4,655.29	4,392.59	78.69	30.95	53.19	-515.62	6,112.14	3,612.22	3,524.63	87.59	41.238		
7,100.00	5,819.43	4,711.00	4,443.91	80.09	31.38	53.81	-534.73	6,122.35	3,608.24	3,518.96	89.28	40.413		
7,200.00	5,895.56	4,755.96	4,485.25	81.49	31.74	54.30	-550.18	6,130.92	3,606.02	3,515.19	90.83	39.700		
7,300.00	5,971.68	4,803.53	4,529.11	82.90	32.15	54.79	-566.69	6,139.07	3,603.80	3,511.42	92.38	38.987		
7,400.00	6,047.81	4,851.66	4,573.06	84.30	32.60	55.28	-583.33	6,147.81	3,601.58	3,507.65	93.93	38.274		
7,500.00	6,123.94	4,900.00	4,617.43	85.70	33.04	55.77	-600.00	6,156.14	3,599.36	3,503.80	95.48	37.561		
7,600.00	6,200.06	4,948.33	4,663.30	87.10	33.49	56.26	-616.71	6,164.05	3,596.94	3,500.00	97.03	36.848		
7,700.00	6,276.19	4,996.66	4,709.17	88.50	33.94	56.75	-633.39	6,171.56	3,594.52	3,496.16	98.58	36.135		
7,800.00	6,352.31	5,045.00	4,755.04	89.90	34.39	57.24	-650.00	6,178.67	3,592.10	3,492.32	100.13	35.422		
7,900.00	6,428.44	5,093.33	4,800.91	91.31	34.84	57.73	-666.67	6,185.78	3,589.68	3,488.48	101.68	34.709		
8,000.00	6,504.57	5,141.66	4,846.78	92.71	35.29	58.22	-683.33	6,192.89	3,587.26	3,484.64	103.23	33.996		
8,100.00	6,580.69	5,190.00	4,892.65	94.11	35.74	58.71	-700.00	6,199.40	3,584.84	3,480.80	104.78	33.283		
8,200.00	6,656.82	5,238.33	4,938.52	95.51	36.19	59.20	-716.67	6,205.91	3,582.42	3,476.96	106.33	32.570		
8,300.00	6,732.95	5,286.66	4,984.39	96.91	36.64	59.69	-733.33	6,212.42	3,580.00	3,473.12	107.88	31.857		
8,400.00	6,809.07	5,335.00	5,030.26	98.32	37.09	60.18	-750.00	6,218.93	3,577.58	3,469.28	109.43	31.144		
8,500.00	6,885.20	5,383.33	5,076.13	99.72	37.54	60.67	-766.67	6,225.44	3,575.16	3,465.44	110.98	30.431		
8,600.00	6,961.32	5,431.66	5,122.00	101.12	37.99	61.16	-783.33	6,231.95	3,572.74	3,461.60	112.53	29.718		
8,700.00	7,037.45	5,480.00	5,167.87	102.52	38.44	61.65	-800.00	6,238.46	3,570.32	3,457.76	114.08	29.005		
8,732.15	7,061.92	5,504.33	5,192.34	102.97	38.89	62.14	-799.40	6,240.00	3,569.80	3,457.20	114.50	28.914		
8,750.00	7,075.57	5,528.66	5,216.81	103.22	39.34	62.63	-799.17	6,241.54	3,569.26	3,456.64	114.92	28.823		
8,800.00	7,114.27	5,577.00	5,262.68	103.91	39.79	63.12	-798.74	6,243.08	3,568.70	3,456.08	115.34	28.732		
8,850.00	7,153.47	5,625.33	5,308.55	104.58	40.24	63.61	-798.63	6,244.62	3,568.14	3,455.52	115.76	28.641		
8,900.00	7,192.85	5,673.66	5,354.42	105.21	40.69	64.10	-798.81	6,246.16	3,567.58	3,454.96	116.18	28.550		
8,950.00	7,232.12	5,722.00	5,400.29	105.80	41.14	64.59	-799.28	6,247.69	3,567.02	3,454.40	116.60	28.459		
9,000.00	7,270.99	5,770.33	5,446.16	106.35	41.59	65.08	-799.49	6,249.23	3,566.46	3,453.84	117.02	28.368		
9,050.00	7,309.16	5,818.66	5,492.03	106.85	42.04	65.57	-799.80	6,250.77	3,565.90	3,453.28	117.44	28.277		
9,100.00	7,346.32	5,867.00	5,537.90	107.30	42.49	66.06	-800.14	6,252.31	3,565.34	3,452.72	117.86	28.186		
9,150.00	7,382.22	5,915.33	5,583.77	107.69	42.94	66.55	-800.80	6,253.84	3,564.78	3,452.16	118.28	28.095		
9,200.00	7,416.56	5,963.66	5,629.64	108.02	43.39	67.04	-800.93	6,255.38	3,564.22	3,451.60	118.70	28.004		
9,250.00	7,449.09	6,012.00	5,675.51	108.29	43.84	67.53	-801.43	6,256.91	3,563.66	3,451.04	119.12	27.913		
9,300.00	7,479.56	6,060.33	5,721.38	108.51	44.29	68.02	-801.84	6,258.45	3,563.10	3,450.48	119.54	27.822		
9,350.00	7,507.74	6,108.66	5,767.25	108.68	44.74	68.51	-802.17	6,259.98	3,562.54	3,450.00	119.96	27.731		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	7,533.41	7,705.00	7,392.39	108.79	41.60	-10.60	-802.39	6,253.25	2,905.75	2,770.33	135.42	21.458		
9,450.00	7,556.39	7,722.04	7,409.43	108.86	41.64	-20.14	-802.62	6,253.56	2,862.23	2,726.86	135.38	21.143		
9,500.00	7,576.48	7,734.92	7,422.30	108.88	41.68	-30.74	-802.83	6,253.82	2,817.87	2,682.62	135.25	20.835		
9,550.00	7,593.55	7,746.08	7,433.46	108.86	41.71	-42.12	-803.04	6,254.07	2,773.01	2,637.97	135.04	20.534		
9,600.00	7,607.46	7,755.41	7,442.78	108.80	41.73	-53.67	-803.22	6,254.29	2,728.01	2,593.26	134.76	20.244		
9,650.00	7,618.11	7,762.79	7,450.16	108.71	41.75	-64.58	-803.38	6,254.47	2,683.26	2,548.85	134.40	19.964		
9,700.00	7,625.41	7,768.14	7,455.50	108.59	41.76	-74.20	-803.51	6,254.61	2,639.12	2,505.15	133.97	19.699		
9,750.00	7,629.30	7,771.37	7,458.73	108.45	41.77	-82.20	-803.58	6,254.69	2,596.02	2,462.54	133.47	19.450		
9,781.81	7,630.00	7,772.30	7,459.66	108.35	41.78	-86.43	-803.60	6,254.72	2,569.31	2,436.19	133.12	19.301		
9,800.00	7,630.00	7,772.57	7,459.94	108.29	41.78	-86.44	-803.61	6,254.73	2,554.24	2,421.33	132.91	19.218		
9,900.00	7,630.00	7,774.11	7,461.47	107.97	41.78	-86.50	-803.65	6,254.77	2,472.16	2,340.46	131.70	18.771		
10,000.00	7,630.00	7,775.68	7,463.04	107.67	41.78	-86.57	-803.69	6,254.81	2,391.44	2,261.05	130.39	18.341		
10,100.00	7,630.00	7,777.29	7,464.65	107.38	41.79	-86.63	-803.73	6,254.85	2,312.22	2,183.26	128.97	17.929		
10,200.00	7,630.00	7,778.93	7,466.29	107.10	41.79	-86.70	-803.77	6,254.90	2,234.67	2,107.25	127.42	17.538		
10,300.00	7,630.00	7,780.61	7,467.97	106.84	41.80	-86.76	-803.81	6,254.95	2,158.97	2,033.23	125.74	17.170		
10,400.00	7,630.00	7,782.34	7,469.70	106.59	41.80	-86.83	-803.85	6,254.99	2,085.31	1,961.39	123.92	16.828		
10,500.00	7,630.00	7,784.10	7,471.46	106.35	41.81	-86.90	-803.90	6,255.04	2,013.92	1,891.98	121.94	16.516		
10,600.00	7,630.00	7,785.91	7,473.27	106.13	41.81	-86.97	-803.95	6,255.09	1,945.05	1,825.25	119.80	16.236		
10,700.00	7,630.00	7,787.77	7,475.12	105.92	41.82	-87.05	-804.00	6,255.15	1,878.98	1,761.50	117.49	15.993		
10,800.00	7,630.00	7,789.67	7,477.02	105.72	41.82	-87.12	-804.05	6,255.20	1,816.02	1,701.01	115.00	15.791		
10,900.00	7,630.00	7,791.61	7,478.96	105.54	41.83	-87.20	-804.10	6,255.26	1,756.48	1,644.14	112.35	15.634		
11,000.00	7,630.00	7,793.60	7,480.94	105.37	41.85	-87.30	-804.16	6,255.32	1,698.44	1,591.25	109.51	15.530		
11,100.00	7,630.00	7,795.63	7,483.04	105.21	41.85	-87.40	-804.23	6,255.39	1,649.20	1,542.63	106.58	15.474		
11,200.00	7,630.00	7,797.70	7,485.24	105.06	41.85	-87.50	-804.31	6,255.46	1,602.23	1,498.66	103.57	15.470		
11,300.00	7,630.00	7,800.00	7,487.54	104.93	41.85	-87.54	-804.34	6,255.51	1,560.26	1,459.71	100.56	15.516		
11,400.00	7,630.00	7,802.37	7,489.71	104.82	41.86	-87.63	-804.41	6,255.59	1,523.71	1,426.07	97.64	15.605		
11,500.00	7,630.00	7,804.78	7,492.12	104.72	41.86	-87.73	-804.48	6,255.66	1,492.96	1,397.97	94.99	15.716		
11,600.00	7,630.00	7,807.24	7,494.57	104.63	41.87	-87.83	-804.55	6,255.74	1,468.39	1,375.59	92.80	15.823		
11,700.00	7,630.00	7,809.73	7,497.07	104.55	41.88	-87.93	-804.62	6,255.82	1,450.31	1,359.03	91.28	15.888		
11,800.00	7,630.00	7,812.27	7,499.60	104.50	41.89	-88.03	-804.70	6,255.90	1,438.96	1,348.31	90.65	15.874		
11,900.00	7,630.00	7,814.85	7,502.18	104.45	41.89	-88.13	-804.78	6,255.98	1,434.51	1,343.47	91.04	15.757		
11,914.09	7,630.00	7,815.22	7,502.55	104.45	41.89	-88.14	-804.79	6,255.99	1,434.44	1,343.25	91.18	15.731	CC, ES	
12,000.00	7,630.00	7,817.48	7,504.81	104.43	41.90	-88.23	-804.86	6,256.06	1,437.00	1,344.51	92.49	15.537		
12,100.00	7,630.00	7,820.16	7,507.48	104.42	41.91	-88.34	-804.94	6,256.15	1,446.42	1,351.52	94.91	15.240		
12,200.00	7,630.00	7,822.88	7,510.20	104.42	41.92	-88.45	-805.02	6,256.24	1,462.63	1,364.54	98.09	14.911		
12,300.00	7,630.00	7,825.66	7,512.97	104.45	41.92	-88.56	-805.11	6,256.33	1,485.40	1,383.60	101.80	14.591		
12,400.00	7,630.00	7,828.48	7,515.80	104.49	41.93	-88.67	-805.20	6,256.43	1,514.44	1,408.63	105.81	14.313		
12,500.00	7,630.00	7,831.36	7,518.67	104.55	41.94	-88.79	-805.29	6,256.53	1,549.39	1,439.49	109.90	14.098		
12,600.00	7,630.00	7,834.29	7,521.60	104.63	41.95	-88.91	-805.38	6,256.63	1,589.87	1,475.93	113.94	13.954		
12,700.00	7,630.00	7,837.27	7,524.58	104.73	41.96	-89.02	-805.48	6,256.73	1,635.46	1,517.66	117.80	13.883		
12,800.00	7,630.00	7,840.32	7,527.62	104.85	41.97	-89.15	-805.58	6,256.83	1,685.76	1,564.32	121.44	13.882	SF	
12,900.00	7,630.00	7,843.42	7,530.72	104.99	41.98	-89.27	-805.68	6,256.94	1,740.34	1,615.54	124.80	13.945		
13,000.00	7,630.00	7,846.58	7,533.87	105.15	41.99	-89.40	-805.79	6,257.06	1,798.83	1,670.95	127.88	14.066		
13,100.00	7,630.00	7,849.80	7,537.09	105.34	41.99	-89.52	-805.90	6,257.17	1,860.85	1,730.17	130.68	14.240		
13,200.00	7,630.00	7,853.09	7,540.37	105.56	42.00	-89.66	-806.01	6,257.29	1,926.06	1,792.85	133.21	14.459		
13,300.00	7,630.00	7,856.44	7,543.72	105.80	42.01	-89.79	-806.13	6,257.41	1,994.15	1,858.67	135.48	14.719		
13,400.00	7,630.00	7,859.86	7,547.14	106.06	42.02	-89.93	-806.24	6,257.54	2,064.83	1,927.32	137.52	15.015		
13,500.00	7,630.00	7,863.35	7,550.62	106.36	42.03	-90.06	-806.37	6,257.67	2,137.85	1,998.51	139.34	15.342		
13,600.00	7,630.00	7,866.91	7,554.18	106.68	42.04	-90.21	-806.49	6,257.81	2,212.98	2,072.00	140.98	15.698		
13,700.00	7,630.00	7,870.55	7,557.81	107.03	42.05	-90.35	-806.62	6,257.94	2,290.00	2,147.57	142.43	16.078		
13,800.00	7,630.00	7,874.26	7,561.52	107.42	42.07	-90.50	-806.76	6,258.09	2,368.74	2,225.00	143.74	16.479		
13,900.00	7,630.00	7,878.05	7,565.31	107.83	42.08	-90.65	-806.90	6,258.23	2,449.02	2,304.11	144.91	16.900		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,881.93	7,569.17	108.28	42.09	-90.80	-807.04	6,258.39	2,530.70	2,384.74	145.96	17.339		
14,100.00	7,630.00	7,885.88	7,573.12	108.77	42.10	-90.96	-807.19	6,258.54	2,613.65	2,466.75	146.90	17.792		
14,200.00	7,630.00	7,889.93	7,577.16	109.29	42.11	-91.12	-807.34	6,258.71	2,697.75	2,550.01	147.74	18.260		
14,300.00	7,630.00	7,894.19	7,581.42	109.84	42.12	-91.29	-807.50	6,258.88	2,782.89	2,634.39	148.50	18.740		
14,400.00	7,630.00	7,898.56	7,585.79	110.43	42.14	-91.47	-807.67	6,259.05	2,868.99	2,719.81	149.19	19.231		
14,500.00	7,630.00	7,902.87	7,590.08	111.06	42.15	-91.64	-807.83	6,259.22	2,955.96	2,806.16	149.81	19.732		
14,600.00	7,630.00	7,907.11	7,594.32	111.72	42.16	-91.81	-807.99	6,259.38	3,043.73	2,893.36	150.37	20.242		
14,700.00	7,630.00	7,911.29	7,598.49	112.42	42.17	-91.97	-808.14	6,259.54	3,132.22	2,981.34	150.88	20.760		
14,800.00	7,630.00	7,915.40	7,602.60	113.16	42.18	-92.14	-808.30	6,259.69	3,221.38	3,070.04	151.34	21.286		
14,900.00	7,630.00	7,919.46	7,606.65	113.94	42.20	-92.30	-808.44	6,259.83	3,311.16	3,159.40	151.76	21.819		
15,000.00	7,630.00	7,923.46	7,610.65	114.75	42.21	-92.46	-808.59	6,259.97	3,401.50	3,249.36	152.14	22.357		
15,100.00	7,630.00	7,927.40	7,614.58	115.60	42.22	-92.61	-808.73	6,260.10	3,492.37	3,339.87	152.49	22.902		
15,200.00	7,630.00	7,931.28	7,618.46	116.48	42.23	-92.77	-808.87	6,260.23	3,583.71	3,430.90	152.81	23.451		
15,300.00	7,630.00	7,935.11	7,622.28	117.40	42.24	-92.92	-809.00	6,260.35	3,675.51	3,522.40	153.11	24.006		
15,400.00	7,630.00	7,938.88	7,626.05	118.35	42.25	-93.07	-809.14	6,260.47	3,767.72	3,614.34	153.38	24.565		
15,500.00	7,630.00	7,942.60	7,629.77	119.34	42.26	-93.21	-809.27	6,260.59	3,860.31	3,706.68	153.63	25.128		
15,600.00	7,630.00	7,946.27	7,633.43	120.35	42.27	-93.36	-809.39	6,260.70	3,953.26	3,799.40	153.86	25.694		
15,700.00	7,630.00	7,949.89	7,637.04	121.40	42.28	-93.50	-809.52	6,260.80	4,046.54	3,892.48	154.07	26.265		
15,800.00	7,630.00	7,953.45	7,640.61	122.48	42.30	-93.64	-809.64	6,260.90	4,140.14	3,985.87	154.26	26.838		
15,900.00	7,630.00	7,956.97	7,644.12	123.58	42.31	-93.78	-809.76	6,261.00	4,234.02	4,079.58	154.45	27.414		
16,000.00	7,630.00	7,960.44	7,647.59	124.71	42.32	-93.92	-809.88	6,261.09	4,328.18	4,173.56	154.61	27.993		
16,100.00	7,630.00	7,963.87	7,651.01	125.87	42.33	-94.06	-809.99	6,261.18	4,422.59	4,267.82	154.77	28.575		
16,200.00	7,630.00	7,967.25	7,654.39	127.05	42.34	-94.19	-810.11	6,261.27	4,517.24	4,362.32	154.92	29.159		
16,300.00	7,630.00	7,970.58	7,657.72	128.26	42.34	-94.32	-810.22	6,261.35	4,612.11	4,457.05	155.05	29.745		
16,400.00	7,630.00	7,973.87	7,661.01	129.48	42.35	-94.45	-810.32	6,261.43	4,707.19	4,552.01	155.18	30.334		
16,500.00	7,630.00	7,977.12	7,664.25	130.73	42.36	-94.58	-810.43	6,261.51	4,802.47	4,647.17	155.30	30.924		
16,600.00	7,630.00	7,980.32	7,667.45	132.00	42.37	-94.70	-810.53	6,261.58	4,897.93	4,742.52	155.41	31.516		
16,700.00	7,630.00	7,983.48	7,670.61	133.29	42.38	-94.83	-810.64	6,261.65	4,993.57	4,838.06	155.51	32.110		
16,800.00	7,630.00	7,986.60	7,673.73	134.59	42.39	-94.95	-810.74	6,261.72	5,089.38	4,933.77	155.61	32.705		
16,900.00	7,630.00	7,989.68	7,676.81	135.91	42.40	-95.07	-810.83	6,261.78	5,185.34	5,029.64	155.71	33.302		
17,000.00	7,630.00	7,992.73	7,679.85	137.25	42.41	-95.19	-810.93	6,261.84	5,281.45	5,125.66	155.79	33.900		
17,100.00	7,630.00	7,986.00	7,673.13	138.61	42.39	-94.93	-810.72	6,261.71	5,377.71	5,221.84	155.87	34.502		
17,200.00	7,630.00	7,986.00	7,673.13	139.97	42.39	-94.93	-810.72	6,261.71	5,474.10	5,318.16	155.94	35.103		
17,300.00	7,630.00	7,986.00	7,673.13	141.36	42.39	-94.93	-810.72	6,261.71	5,570.62	5,414.60	156.01	35.706		
17,400.00	7,630.00	7,986.00	7,673.13	142.75	42.39	-94.93	-810.72	6,261.71	5,667.26	5,511.17	156.08	36.310		
17,500.00	7,630.00	7,986.00	7,673.13	144.16	42.39	-94.93	-810.72	6,261.71	5,764.01	5,607.86	156.14	36.915		
17,600.00	7,630.00	7,986.00	7,673.13	145.58	42.39	-94.93	-810.72	6,261.71	5,860.87	5,704.67	156.20	37.521		
17,700.00	7,630.00	8,002.23	7,689.35	147.01	42.43	-95.57	-811.21	6,262.02	5,957.79	5,801.52	156.27	38.124		
17,800.00	7,630.00	8,003.80	7,690.92	148.45	42.44	-95.63	-811.25	6,262.05	6,054.85	5,898.52	156.33	38.731		
17,900.00	7,630.00	8,005.35	7,692.46	149.91	42.44	-95.69	-811.30	6,262.08	6,152.00	5,995.62	156.38	39.339		
18,000.00	7,630.00	8,006.86	7,693.97	151.37	42.44	-95.75	-811.34	6,262.10	6,249.24	6,092.80	156.44	39.948		
18,100.00	7,630.00	8,008.33	7,695.45	152.84	42.45	-95.81	-811.38	6,262.13	6,346.56	6,190.08	156.48	40.557		
18,200.00	7,630.00	8,009.78	7,696.90	154.32	42.45	-95.86	-811.42	6,262.15	6,443.97	6,287.44	156.53	41.167		
18,300.00	7,630.00	8,011.20	7,698.32	155.81	42.46	-95.92	-811.46	6,262.17	6,541.45	6,384.87	156.58	41.778		
18,400.00	7,630.00	8,012.59	7,699.71	157.31	42.46	-95.98	-811.50	6,262.20	6,639.01	6,482.39	156.62	42.389		
18,500.00	7,630.00	8,013.96	7,701.07	158.81	42.46	-96.03	-811.53	6,262.22	6,736.64	6,579.97	156.66	43.001		
18,600.00	7,630.00	8,015.30	7,702.41	160.32	42.47	-96.08	-811.57	6,262.24	6,834.33	6,677.63	156.70	43.614		
18,700.00	7,630.00	8,016.61	7,703.72	161.84	42.47	-96.13	-811.60	6,262.26	6,932.09	6,775.35	156.74	44.227		
18,800.00	7,630.00	8,017.89	7,705.00	163.37	42.47	-96.18	-811.64	6,262.28	7,029.92	6,873.14	156.78	44.840		
18,900.00	7,630.00	8,019.16	7,706.26	164.90	42.48	-96.23	-811.67	6,262.29	7,127.80	6,970.99	156.81	45.454		
19,000.00	7,630.00	8,020.39	7,707.50	166.43	42.48	-96.28	-811.70	6,262.31	7,225.74	7,068.89	156.85	46.068		
19,100.00	7,630.00	8,021.61	7,708.72	167.98	42.48	-96.33	-811.73	6,262.33	7,323.74	7,166.86	156.88	46.683		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	8,022.80	7,709.91	169.53	42.49	-96.38	-811.76	6,262.34	7,421.79	7,264.87	156.92	47.297	
19,300.00	7,630.00	8,023.97	7,711.08	171.08	42.49	-96.42	-811.79	6,262.36	7,519.89	7,362.94	156.95	47.913	
19,400.00	7,630.00	8,025.12	7,712.23	172.64	42.49	-96.47	-811.82	6,262.37	7,618.04	7,461.06	156.98	48.528	
19,500.00	7,630.00	8,026.25	7,713.36	174.21	42.50	-96.51	-811.84	6,262.39	7,716.24	7,559.22	157.01	49.144	
19,518.56	7,630.00	8,026.46	7,713.57	174.50	42.50	-96.52	-811.85	6,262.39	7,734.47	7,577.45	157.02	49.258	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1,141.92	1,119.59	0.00	5.05	83.26	614.69	5,197.74	5,369.68					
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.40	599.56	5,183.68	5,347.73	5,342.44	5.28	1,012.448		
200.00	200.00	1,290.02	1,261.67	0.49	5.93	83.56	583.82	5,169.57	5,326.23	5,320.41	5.83	914.287		
300.00	300.00	1,366.92	1,335.30	0.85	6.40	83.73	566.79	5,155.34	5,304.97	5,298.47	6.49	817.029		
400.00	400.00	1,720.66	1,671.68	1.21	8.64	84.52	487.43	5,080.35	5,279.64	5,270.99	8.65	610.276		
500.00	499.98	1,775.00	1,723.37	1.56	8.99	18.08	476.18	5,067.93	5,252.87	5,243.61	9.26	567.254		
600.00	599.84	1,866.38	1,810.38	1.92	9.57	18.49	457.24	5,047.41	5,223.38	5,213.31	10.07	518.485		
700.00	699.45	1,920.26	1,861.78	2.29	9.91	18.84	446.40	5,035.42	5,191.11	5,180.42	10.70	485.374		
800.00	798.70	1,974.41	1,913.70	2.67	10.24	19.21	436.51	5,023.66	5,156.51	5,145.19	11.32	455.563		
900.00	897.47	2,033.87	1,970.79	3.07	10.60	19.63	425.59	5,011.13	5,119.50	5,107.53	11.97	427.740		
1,000.00	995.62	2,194.80	2,124.99	3.50	11.59	20.40	395.04	4,976.66	5,079.15	5,066.03	13.12	387.244		
1,100.00	1,093.06	2,286.41	2,212.69	3.96	12.16	21.03	378.04	4,956.36	5,035.32	5,021.39	13.93	361.434		
1,200.00	1,189.64	2,368.35	2,291.17	4.46	12.66	21.69	363.21	4,938.08	4,988.60	4,973.90	14.70	339.253		
1,300.00	1,285.27	2,435.54	2,355.60	5.00	13.07	22.36	351.20	4,923.26	4,939.39	4,923.97	15.42	320.411		
1,400.00	1,379.82	2,525.55	2,441.90	5.60	13.62	23.19	334.99	4,903.47	4,887.56	4,871.32	16.24	300.890		
1,500.00	1,473.17	2,574.65	2,488.96	6.25	13.92	23.93	325.94	4,892.82	4,833.35	4,816.45	16.90	286.043		
1,600.00	1,565.21	2,629.66	2,541.72	6.95	14.26	24.76	315.56	4,881.24	4,777.10	4,759.51	17.59	271.523		
1,700.00	1,655.84	2,719.24	2,627.66	7.72	14.81	25.85	298.70	4,862.38	4,718.46	4,699.99	18.47	255.487		
1,800.00	1,744.94	2,754.40	2,661.47	8.55	15.01	26.73	292.32	4,855.09	4,657.71	4,638.61	19.10	243.821		
1,900.00	1,832.39	2,804.00	2,709.29	9.45	15.31	27.77	283.74	4,845.14	4,595.24	4,575.41	19.82	231.796		
2,000.00	1,918.11	3,017.93	2,915.05	10.41	16.58	30.07	248.11	4,798.77	4,529.44	4,508.17	21.27	212.948		
2,100.00	2,001.97	3,046.41	2,942.36	11.45	16.75	31.25	243.32	4,792.29	4,460.93	4,438.98	21.95	203.272		
2,200.00	2,083.88	3,084.00	2,978.52	12.56	16.98	32.60	237.11	4,784.07	4,391.05	4,368.36	22.69	193.528		
2,300.00	2,163.74	3,148.07	3,040.17	13.74	17.37	34.32	226.55	4,770.23	4,319.58	4,296.01	23.58	183.224		
2,400.00	2,241.45	3,215.30	3,104.78	14.99	17.77	36.27	215.31	4,755.39	4,246.11	4,221.60	24.51	173.226		
2,421.22	2,257.65	3,226.54	3,115.57	15.26	17.84	36.67	213.41	4,752.90	4,230.31	4,205.60	24.71	171.224		
2,500.00	2,317.63	3,268.02	3,155.41	16.29	18.09	37.14	206.35	4,743.76	4,171.64	4,146.22	25.42	164.077		
2,600.00	2,393.75	3,314.56	3,200.10	17.62	18.37	37.68	198.26	4,733.56	4,097.54	4,071.19	26.35	155.521		
2,700.00	2,469.88	3,374.80	3,242.93	18.95	18.74	38.21	190.27	4,723.88	4,023.92	3,996.55	27.38	146.972		
2,800.00	2,546.01	3,414.73	3,296.20	20.30	18.98	38.89	180.13	4,711.93	3,950.78	3,922.44	28.34	139.412		
2,900.00	2,622.13	3,467.73	3,347.04	21.65	19.31	39.55	170.44	4,700.52	3,878.03	3,848.63	29.41	131.881		
3,000.00	2,698.26	3,509.76	3,387.38	23.01	19.56	40.09	162.72	4,691.57	3,805.85	3,775.39	30.46	124.930		
3,100.00	2,774.38	3,554.00	3,428.85	24.37	19.83	40.67	154.51	4,682.30	3,734.32	3,702.75	31.57	118.281		
3,200.00	2,850.51	3,588.03	3,462.55	25.74	20.03	41.12	148.17	4,675.33	3,663.52	3,630.85	32.67	112.124		
3,300.00	2,926.64	3,624.17	3,497.31	27.11	20.25	41.61	141.42	4,668.11	3,593.55	3,559.72	33.83	106.236		
3,400.00	3,002.76	3,647.00	3,519.30	28.49	20.39	41.92	137.16	4,663.66	3,524.48	3,489.52	34.96	100.818		
3,500.00	3,078.89	3,684.80	3,555.75	29.87	20.60	42.45	130.10	4,656.56	3,456.38	3,420.18	36.20	95.486		
3,600.00	3,155.02	3,713.01	3,583.00	31.25	20.77	42.84	124.83	4,651.56	3,389.41	3,351.98	37.44	90.540		
3,700.00	3,231.14	3,743.87	3,612.88	32.63	20.94	43.28	119.07	4,646.36	3,323.61	3,284.88	38.73	85.820		
3,800.00	3,307.27	3,852.14	3,717.54	34.01	21.56	44.86	98.54	4,627.76	3,258.35	3,217.92	40.44	80.579		
3,900.00	3,383.39	3,971.96	3,832.98	35.40	22.26	46.69	76.20	4,604.74	3,192.41	3,150.16	42.25	75.556		
4,000.00	3,459.52	4,036.85	3,895.48	36.79	22.65	47.72	64.47	4,591.79	3,126.94	3,083.08	43.86	71.291		
4,100.00	3,535.65	4,082.25	3,939.27	38.18	22.91	48.45	56.52	4,582.84	3,062.34	3,016.92	45.43	67.411		
4,200.00	3,611.77	4,140.07	3,995.15	39.57	23.25	49.39	46.75	4,571.62	2,998.72	2,951.62	47.10	63.667		
4,300.00	3,687.90	4,218.77	4,071.16	40.96	23.70	50.71	33.66	4,556.03	2,935.73	2,886.81	48.92	60.013		
4,400.00	3,764.02	4,272.79	4,123.19	42.35	24.02	51.65	24.13	4,545.06	2,873.53	2,822.83	50.71	56.669		
4,500.00	3,840.15	4,337.96	4,185.71	43.74	24.42	52.83	11.64	4,531.54	2,812.37	2,759.74	52.63	53.438		
4,600.00	3,916.28	4,417.74	4,262.11	45.13	24.91	54.32	-3.67	4,514.42	2,751.96	2,697.26	54.70	50.311		
4,700.00	3,992.40	4,473.71	4,315.59	46.53	25.27	55.39	-14.69	4,502.12	2,692.57	2,635.85	56.73	47.467		
4,800.00	4,068.53	4,536.85	4,375.78	47.92	25.67	56.64	-27.49	4,487.95	2,634.38	2,575.51	58.87	44.750		
4,900.00	4,144.66	4,600.41	4,436.20	49.32	26.08	57.93	-40.70	4,473.33	2,577.41	2,516.32	61.09	42.188		
5,000.00	4,220.78	4,663.31	4,495.90	50.71	26.50	59.25	-53.89	4,458.56	2,521.80	2,458.41	63.39	39.781		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,732.58	4,561.65	52.11	26.95	60.72	-68.14	4,442.04	2,467.59	2,401.80	65.79	37.506		
5,200.00	4,373.03	4,788.21	4,614.55	53.51	27.31	61.92	-78.95	4,428.68	2,414.82	2,346.65	68.17	35.426		
5,300.00	4,449.16	4,823.72	4,648.31	54.90	27.55	62.70	-86.05	4,420.26	2,364.17	2,293.70	70.48	33.544		
5,400.00	4,525.29	4,866.00	4,688.46	56.30	27.82	63.64	-94.92	4,410.41	2,315.95	2,243.06	72.89	31.774		
5,500.00	4,601.41	4,898.94	4,719.75	57.70	28.04	64.38	-101.98	4,402.90	2,270.20	2,194.93	75.28	30.158		
5,600.00	4,677.54	4,940.84	4,759.64	59.10	28.31	65.33	-110.85	4,393.65	2,227.03	2,149.28	77.76	28.641		
5,700.00	4,753.66	5,000.73	4,816.78	60.49	28.69	66.70	-123.32	4,380.76	2,186.41	2,106.02	80.39	27.198		
5,800.00	4,829.79	5,066.69	4,879.72	61.89	29.11	68.22	-136.71	4,366.29	2,147.94	2,064.85	83.09	25.852		
5,900.00	4,905.92	5,116.84	4,927.67	63.29	29.42	69.39	-146.64	4,355.42	2,112.06	2,026.39	85.67	24.654		
6,000.00	4,982.04	5,171.14	4,979.72	64.69	29.75	70.67	-157.09	4,344.02	2,079.01	1,990.75	88.27	23.554		
6,100.00	5,058.17	5,232.81	5,039.18	66.09	30.12	72.10	-167.95	4,331.82	2,048.70	1,957.83	90.87	22.545		
6,200.00	5,134.30	5,289.28	5,094.01	67.49	30.42	73.41	-176.77	4,321.61	2,021.18	1,927.81	93.37	21.648		
6,300.00	5,210.42	5,347.55	5,151.00	68.89	30.72	74.73	-184.63	4,312.38	1,996.55	1,900.75	95.80	20.841		
6,400.00	5,286.55	5,404.60	5,207.10	70.29	30.98	76.01	-191.41	4,304.55	1,974.87	1,876.74	98.13	20.126		
6,500.00	5,362.67	5,460.78	5,262.58	71.69	31.23	77.25	-197.35	4,297.97	1,956.16	1,855.81	100.36	19.492		
6,600.00	5,438.80	5,517.31	5,318.59	73.09	31.46	78.49	-202.77	4,292.53	1,940.53	1,838.04	102.49	18.934		
6,700.00	5,514.93	5,588.86	5,389.67	74.49	31.72	80.03	-208.79	4,287.02	1,927.72	1,823.14	104.58	18.433		
6,800.00	5,591.05	5,669.13	5,469.62	75.89	31.99	81.72	-214.21	4,282.33	1,917.29	1,810.70	106.59	17.987		
6,900.00	5,667.18	5,756.43	5,556.78	77.29	32.25	83.51	-218.07	4,279.28	1,908.87	1,800.37	108.50	17.594		
7,000.00	5,743.30	5,844.62	5,644.93	78.69	32.47	85.27	-220.03	4,278.12	1,902.22	1,791.96	110.27	17.251		
7,100.00	5,819.43	5,926.85	5,727.16	80.09	32.66	86.88	-220.61	4,278.32	1,897.41	1,785.50	111.90	16.956		
7,200.00	5,895.56	6,002.23	5,802.53	81.49	32.81	88.35	-221.01	4,278.65	1,894.75	1,781.32	113.43	16.704		
7,269.87	5,948.75	6,055.60	5,855.90	82.47	32.93	89.40	-221.35	4,278.79	1,894.21	1,779.76	114.44	16.552		
7,300.00	5,971.68	6,078.57	5,878.87	82.90	32.98	89.85	-221.50	4,278.82	1,894.31	1,779.44	114.86	16.492		
7,400.00	6,047.81	6,152.01	5,952.31	84.30	33.15	91.29	-222.05	4,278.93	1,896.14	1,779.94	116.20	16.318		
7,500.00	6,123.94	6,227.10	6,027.40	85.70	33.32	92.77	-222.68	4,279.08	1,900.28	1,782.84	117.44	16.181		
7,600.00	6,200.06	6,304.95	6,105.25	87.10	33.49	94.29	-223.31	4,279.29	1,906.61	1,788.03	118.58	16.079		
7,700.00	6,276.19	6,384.87	6,185.16	88.50	33.67	95.84	-223.76	4,279.64	1,914.98	1,795.36	119.62	16.009		
7,800.00	6,352.31	6,463.58	6,263.87	89.90	33.84	97.35	-224.09	4,279.96	1,925.37	1,804.81	120.56	15.970		
7,900.00	6,428.44	6,541.22	6,341.51	91.31	34.02	98.84	-224.37	4,280.12	1,937.80	1,816.39	121.40	15.962		
8,000.00	6,504.57	6,618.15	6,418.44	92.71	34.19	100.30	-224.62	4,280.21	1,952.25	1,830.10	122.15	15.983		
8,100.00	6,580.69	6,696.59	6,496.88	94.11	34.37	101.78	-224.81	4,280.37	1,968.69	1,845.88	122.80	16.031		
8,200.00	6,656.82	6,771.50	6,571.79	95.51	34.54	103.17	-224.91	4,280.51	1,987.03	1,863.66	123.36	16.107		
8,300.00	6,732.95	6,842.67	6,642.96	96.91	34.70	104.48	-225.17	4,280.81	2,007.46	1,883.63	123.83	16.212		
8,400.00	6,809.07	6,918.41	6,718.69	98.32	34.87	105.85	-225.52	4,281.29	2,029.84	1,905.61	124.23	16.339		
8,500.00	6,885.20	6,997.08	6,797.36	99.72	35.04	107.25	-225.86	4,281.99	2,053.98	1,929.40	124.58	16.487		
8,600.00	6,961.32	7,075.90	6,876.18	101.12	35.22	108.63	-226.10	4,282.85	2,079.74	1,954.87	124.87	16.655		
8,700.00	7,037.45	7,152.73	6,953.01	102.52	35.39	109.95	-226.28	4,283.52	2,107.09	1,981.99	125.10	16.844		
8,732.15	7,061.92	7,176.97	6,977.24	102.97	35.44	110.36	-226.34	4,283.72	2,116.23	1,991.07	125.16	16.909		
8,750.00	7,075.57	7,190.48	6,990.75	103.22	35.47	108.55	-226.38	4,283.84	2,121.11	1,995.92	125.19	16.943		
8,800.00	7,114.27	7,228.78	7,029.05	103.91	35.56	103.19	-226.49	4,284.15	2,132.19	2,006.92	125.27	17.021		
8,850.00	7,153.47	7,267.55	7,067.83	104.58	35.65	97.52	-226.61	4,284.47	2,139.40	2,014.06	125.34	17.069		
8,900.00	7,192.85	7,306.52	7,106.79	105.21	35.74	91.75	-226.75	4,284.78	2,142.73	2,017.34	125.39	17.088		
8,950.00	7,232.12	7,344.80	7,145.07	105.80	35.83	86.07	-226.90	4,285.08	2,142.16	2,016.74	125.42	17.080		
9,000.00	7,270.99	7,382.78	7,183.05	106.35	35.92	80.69	-227.06	4,285.36	2,137.70	2,012.28	125.42	17.044		
9,050.00	7,309.16	7,420.76	7,221.02	106.85	36.01	75.79	-227.25	4,285.63	2,129.41	2,004.01	125.40	16.981		
9,100.00	7,346.32	7,457.93	7,258.20	107.30	36.10	71.47	-227.42	4,285.85	2,117.32	1,991.98	125.34	16.893		
9,150.00	7,382.22	7,493.79	7,294.06	107.69	36.18	67.78	-227.59	4,286.03	2,101.52	1,976.28	125.24	16.780		
9,200.00	7,416.56	7,528.08	7,328.34	108.02	36.27	64.75	-227.75	4,286.18	2,082.13	1,957.03	125.10	16.643		
9,250.00	7,449.09	7,560.54	7,360.80	108.29	36.35	62.38	-227.91	4,286.28	2,059.28	1,934.36	124.93	16.484		
9,300.00	7,479.56	7,590.92	7,391.18	108.51	36.42	60.64	-228.05	4,286.36	2,033.13	1,908.42	124.71	16.303		
9,350.00	7,507.74	7,619.03	7,419.29	108.68	36.49	59.54	-228.19	4,286.46	2,003.83	1,879.39	124.45	16.102		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,644.76	7,445.02	108.79	36.55	59.08	-228.33	4,286.58	1,971.60	1,847.44	124.16	15.880		
9,450.00	7,556.39	7,667.88	7,468.14	108.86	36.61	59.29	-228.46	4,286.71	1,936.62	1,812.79	123.83	15.639		
9,500.00	7,576.48	7,689.46	7,489.72	108.88	36.66	60.28	-228.59	4,286.85	1,899.12	1,775.64	123.48	15.380		
9,550.00	7,593.55	7,708.16	7,508.42	108.86	36.71	62.14	-228.69	4,286.97	1,859.33	1,736.23	123.10	15.104		
9,600.00	7,607.46	7,723.41	7,523.67	108.80	36.74	65.02	-228.76	4,287.08	1,817.51	1,694.81	122.70	14.812		
9,650.00	7,618.11	7,735.11	7,535.36	108.71	36.77	69.19	-228.81	4,287.17	1,773.92	1,651.64	122.29	14.506		
9,700.00	7,625.41	7,743.17	7,543.43	108.59	36.79	75.07	-228.84	4,287.23	1,728.85	1,606.99	121.86	14.187		
9,750.00	7,629.30	7,747.56	7,547.81	108.45	36.80	83.21	-228.85	4,287.27	1,682.58	1,561.14	121.44	13.855		
9,781.81	7,630.00	7,748.42	7,548.68	108.35	36.80	89.86	-228.86	4,287.27	1,652.66	1,531.48	121.18	13.638		
9,800.00	7,630.00	7,748.49	7,548.75	108.29	36.81	89.87	-228.86	4,287.27	1,635.46	1,514.44	121.03	13.513		
9,900.00	7,630.00	7,748.87	7,549.12	107.97	36.81	89.91	-228.86	4,287.28	1,541.36	1,421.24	120.12	12.832		
10,000.00	7,630.00	7,749.24	7,549.50	107.67	36.81	89.95	-228.86	4,287.28	1,448.04	1,328.97	119.07	12.161		
10,100.00	7,630.00	7,749.61	7,549.87	107.38	36.81	89.99	-228.86	4,287.28	1,355.68	1,237.84	117.84	11.504		
10,200.00	7,630.00	7,749.98	7,550.24	107.10	36.81	90.03	-228.86	4,287.28	1,264.48	1,148.09	116.39	10.864		
10,300.00	7,630.00	7,750.34	7,550.60	106.84	36.81	90.06	-228.86	4,287.29	1,174.71	1,060.04	114.67	10.244		
10,400.00	7,630.00	7,750.71	7,550.96	106.59	36.81	90.10	-228.87	4,287.29	1,086.73	974.13	112.60	9.651		
10,500.00	7,630.00	7,751.07	7,551.32	106.35	36.81	90.14	-228.87	4,287.29	1,001.01	890.90	110.11	9.091		
10,600.00	7,630.00	7,751.43	7,551.68	106.13	36.81	90.18	-228.87	4,287.30	918.18	811.10	107.07	8.575		
10,700.00	7,630.00	7,751.78	7,552.04	105.92	36.81	90.22	-228.87	4,287.30	839.10	735.72	103.38	8.116		
10,800.00	7,630.00	7,752.13	7,552.39	105.72	36.81	90.26	-228.87	4,287.30	764.94	666.02	98.92	7.733		
10,900.00	7,630.00	7,752.49	7,552.74	105.54	36.81	90.29	-228.87	4,287.30	697.26	603.61	93.64	7.446		
11,000.00	7,630.00	7,752.83	7,553.09	105.37	36.82	90.33	-228.87	4,287.31	638.12	550.39	87.74	7.273		
11,100.00	7,630.00	7,753.18	7,553.44	105.21	36.82	90.37	-228.87	4,287.31	590.12	508.17	81.95	7.201		
11,200.00	7,630.00	7,753.52	7,553.78	105.06	36.82	90.40	-228.88	4,287.31	556.13	478.11	78.02	7.128		
11,300.00	7,630.00	7,753.86	7,554.12	104.93	36.82	90.44	-228.88	4,287.32	538.81	460.34	78.47	6.867		
11,344.82	7,630.00	7,754.02	7,554.27	104.88	36.82	90.46	-228.88	4,287.32	536.94	456.45	80.49	6.671 CC		
11,400.00	7,630.00	7,754.20	7,554.46	104.82	36.82	90.48	-228.88	4,287.32	539.77	455.48	84.29	6.404 ES		
11,500.00	7,630.00	7,754.54	7,554.80	104.72	36.82	90.51	-228.88	4,287.32	558.91	465.57	93.34	5.988		
11,600.00	7,630.00	7,754.88	7,555.13	104.63	36.82	90.55	-228.88	4,287.32	594.49	491.80	102.69	5.789 SF		
11,700.00	7,630.00	7,755.21	7,555.46	104.55	36.82	90.58	-228.88	4,287.33	643.78	533.10	110.69	5.816		
11,800.00	7,630.00	7,755.54	7,555.79	104.50	36.82	90.62	-228.88	4,287.33	703.91	587.02	116.89	6.022		
11,900.00	7,630.00	7,755.87	7,556.12	104.45	36.82	90.65	-228.88	4,287.33	772.35	650.86	121.49	6.357		
12,000.00	7,630.00	7,756.19	7,556.45	104.43	36.82	90.69	-228.88	4,287.33	847.09	722.26	124.83	6.786		
12,100.00	7,630.00	7,756.52	7,556.77	104.42	36.82	90.72	-228.89	4,287.34	926.60	799.36	127.24	7.282		
12,200.00	7,630.00	7,756.84	7,557.09	104.42	36.83	90.76	-228.89	4,287.34	1,009.77	880.77	128.99	7.828		
12,300.00	7,630.00	7,757.16	7,557.41	104.45	36.83	90.79	-228.89	4,287.34	1,095.75	965.48	130.27	8.412		
12,400.00	7,630.00	7,757.47	7,557.73	104.49	36.83	90.82	-228.89	4,287.34	1,183.93	1,052.73	131.20	9.024		
12,500.00	7,630.00	7,757.79	7,558.05	104.55	36.83	90.86	-228.89	4,287.35	1,273.86	1,141.97	131.89	9.659		
12,600.00	7,630.00	7,758.10	7,558.36	104.63	36.83	90.89	-228.89	4,287.35	1,365.20	1,232.80	132.40	10.311		
12,700.00	7,630.00	7,758.41	7,558.67	104.73	36.83	90.93	-228.89	4,287.35	1,457.67	1,324.89	132.78	10.978		
12,800.00	7,630.00	7,758.72	7,558.98	104.85	36.83	90.96	-228.89	4,287.35	1,551.07	1,418.01	133.07	11.656		
12,900.00	7,630.00	7,759.03	7,559.29	104.99	36.83	90.99	-228.89	4,287.36	1,645.25	1,511.98	133.28	12.344		
13,000.00	7,630.00	7,759.34	7,559.59	105.15	36.83	91.02	-228.89	4,287.36	1,740.09	1,606.65	133.44	13.040		
13,100.00	7,630.00	7,759.64	7,559.90	105.34	36.83	91.06	-228.90	4,287.36	1,835.46	1,701.91	133.55	13.743		
13,200.00	7,630.00	7,759.94	7,560.20	105.56	36.83	91.09	-228.90	4,287.36	1,931.31	1,797.67	133.64	14.452		
13,300.00	7,630.00	7,760.24	7,560.50	105.80	36.83	91.12	-228.90	4,287.37	2,027.56	1,893.86	133.70	15.165		
13,400.00	7,630.00	7,760.54	7,560.80	106.06	36.83	91.15	-228.90	4,287.37	2,124.15	1,990.41	133.74	15.883		
13,500.00	7,630.00	7,760.84	7,561.09	106.36	36.83	91.18	-228.90	4,287.37	2,221.05	2,087.28	133.77	16.604		
13,600.00	7,630.00	7,761.13	7,561.39	106.68	36.84	91.22	-228.90	4,287.37	2,318.21	2,184.42	133.78	17.328		
13,700.00	7,630.00	7,761.42	7,561.68	107.03	36.84	91.25	-228.90	4,287.38	2,415.60	2,281.81	133.79	18.055		
13,800.00	7,630.00	7,761.71	7,561.97	107.42	36.84	91.28	-228.90	4,287.38	2,513.20	2,379.40	133.79	18.785		
13,900.00	7,630.00	7,762.00	7,562.26	107.83	36.84	91.31	-228.90	4,287.38	2,610.97	2,477.19	133.79	19.516		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,762.29	7,562.55	108.28	36.84	91.34	-228.90	4,287.38	2,708.91	2,575.14	133.78	20.249		
14,100.00	7,630.00	7,762.58	7,562.83	108.77	36.84	91.37	-228.90	4,287.39	2,807.00	2,673.23	133.77	20.985		
14,200.00	7,630.00	7,762.86	7,563.11	109.29	36.84	91.40	-228.91	4,287.39	2,905.22	2,771.46	133.75	21.721		
14,300.00	7,630.00	7,763.14	7,563.40	109.84	36.84	91.43	-228.91	4,287.39	3,003.55	2,869.81	133.74	22.459		
14,400.00	7,630.00	7,763.42	7,563.68	110.43	36.84	91.46	-228.91	4,287.39	3,101.99	2,968.27	133.72	23.198		
14,500.00	7,630.00	7,763.70	7,563.96	111.06	36.84	91.49	-228.91	4,287.39	3,200.53	3,066.82	133.70	23.938		
14,600.00	7,630.00	7,763.98	7,564.23	111.72	36.84	91.52	-228.91	4,287.40	3,299.15	3,165.47	133.68	24.679		
14,700.00	7,630.00	7,764.25	7,564.51	112.42	36.84	91.55	-228.91	4,287.40	3,397.86	3,264.19	133.67	25.421		
14,800.00	7,630.00	7,764.53	7,564.78	113.16	36.84	91.58	-228.91	4,287.40	3,496.63	3,362.99	133.65	26.163		
14,900.00	7,630.00	7,764.80	7,565.05	113.94	36.84	91.61	-228.91	4,287.40	3,595.48	3,461.85	133.63	26.906		
15,000.00	7,630.00	7,765.07	7,565.32	114.75	36.85	91.63	-228.91	4,287.41	3,694.39	3,560.78	133.61	27.650		
15,100.00	7,630.00	7,765.34	7,565.59	115.60	36.85	91.66	-228.91	4,287.41	3,793.36	3,659.76	133.59	28.395		
15,200.00	7,630.00	7,765.60	7,565.86	116.48	36.85	91.69	-228.91	4,287.41	3,892.37	3,758.80	133.58	29.139		
15,300.00	7,630.00	7,765.87	7,566.12	117.40	36.85	91.72	-228.91	4,287.41	3,991.44	3,857.88	133.56	29.884		
15,400.00	7,630.00	7,766.13	7,566.39	118.35	36.85	91.75	-228.92	4,287.41	4,090.55	3,957.01	133.55	30.630		
15,500.00	7,630.00	7,766.40	7,566.65	119.34	36.85	91.78	-228.92	4,287.42	4,189.71	4,056.18	133.53	31.376		
15,600.00	7,630.00	7,766.66	7,566.91	120.35	36.85	91.80	-228.92	4,287.42	4,288.90	4,155.38	133.52	32.122		
15,700.00	7,630.00	7,766.92	7,567.17	121.40	36.85	91.83	-228.92	4,287.42	4,388.13	4,254.63	133.51	32.869		
15,800.00	7,630.00	7,767.19	7,567.44	122.48	36.85	91.86	-228.92	4,287.42	4,487.40	4,353.90	133.49	33.615		
15,900.00	7,630.00	7,767.47	7,567.72	123.58	36.85	91.89	-228.92	4,287.43	4,586.69	4,453.21	133.48	34.362		
16,000.00	7,630.00	7,767.75	7,568.00	124.71	36.85	91.92	-228.92	4,287.43	4,686.02	4,552.55	133.47	35.109		
16,100.00	7,630.00	7,768.03	7,568.28	125.87	36.85	91.95	-228.92	4,287.43	4,785.38	4,651.92	133.46	35.856		
16,200.00	7,630.00	7,768.31	7,568.56	127.05	36.85	91.98	-228.92	4,287.43	4,884.76	4,751.31	133.45	36.603		
16,300.00	7,630.00	7,768.59	7,568.84	128.26	36.85	92.01	-228.92	4,287.43	4,984.16	4,850.72	133.44	37.350		
16,400.00	7,630.00	7,768.86	7,569.12	129.48	36.85	92.04	-228.92	4,287.44	5,083.59	4,950.16	133.44	38.098		
16,500.00	7,630.00	7,769.14	7,569.40	130.73	36.85	92.07	-228.92	4,287.44	5,183.04	5,049.61	133.43	38.845		
16,600.00	7,630.00	7,769.42	7,569.67	132.00	36.86	92.10	-228.93	4,287.44	5,282.51	5,149.09	133.42	39.592		
16,700.00	7,630.00	7,769.69	7,569.95	133.29	36.86	92.13	-228.93	4,287.44	5,382.01	5,248.59	133.42	40.340		
16,800.00	7,630.00	7,769.97	7,570.23	134.59	36.86	92.16	-228.93	4,287.45	5,481.52	5,348.10	133.41	41.087		
16,900.00	7,630.00	7,770.25	7,570.50	135.91	36.86	92.19	-228.93	4,287.45	5,581.04	5,447.63	133.41	41.834		
17,000.00	7,630.00	7,770.52	7,570.78	137.25	36.86	92.22	-228.93	4,287.45	5,680.59	5,547.18	133.40	42.582		
17,100.00	7,630.00	7,770.79	7,571.05	138.61	36.86	92.25	-228.93	4,287.45	5,780.15	5,646.74	133.40	43.329		
17,200.00	7,630.00	7,771.07	7,571.32	139.97	36.86	92.27	-228.93	4,287.45	5,879.72	5,746.32	133.40	44.076		
17,300.00	7,630.00	7,771.34	7,571.60	141.36	36.86	92.30	-228.93	4,287.46	5,979.31	5,845.91	133.40	44.823		
17,400.00	7,630.00	7,771.61	7,571.87	142.75	36.86	92.33	-228.93	4,287.46	6,078.91	5,945.51	133.40	45.570		
17,500.00	7,630.00	7,771.89	7,572.14	144.16	36.86	92.36	-228.93	4,287.46	6,178.53	6,045.13	133.40	46.316		
17,600.00	7,630.00	7,772.16	7,572.41	145.58	36.86	92.39	-228.93	4,287.46	6,278.15	6,144.76	133.40	47.063		
17,700.00	7,630.00	7,772.43	7,572.69	147.01	36.86	92.42	-228.93	4,287.47	6,377.79	6,244.39	133.40	47.810		
17,800.00	7,630.00	7,772.70	7,572.96	148.45	36.86	92.45	-228.94	4,287.47	6,477.44	6,344.04	133.40	48.556		
17,900.00	7,630.00	7,772.97	7,573.23	149.91	36.86	92.48	-228.94	4,287.47	6,577.10	6,443.70	133.40	49.302		
18,000.00	7,630.00	7,773.24	7,573.50	151.37	36.86	92.51	-228.94	4,287.47	6,676.77	6,543.37	133.41	50.048		
18,100.00	7,630.00	7,773.51	7,573.77	152.84	36.87	92.54	-228.94	4,287.47	6,776.45	6,643.04	133.41	50.794		
18,200.00	7,630.00	7,773.78	7,574.03	154.32	36.87	92.56	-228.94	4,287.48	6,876.14	6,742.73	133.42	51.539		
18,300.00	7,630.00	7,774.05	7,574.30	155.81	36.87	92.59	-228.94	4,287.48	6,975.84	6,842.42	133.42	52.285		
18,400.00	7,630.00	7,774.31	7,574.57	157.31	36.87	92.62	-228.94	4,287.48	7,075.55	6,942.12	133.43	53.030		
18,500.00	7,630.00	7,774.58	7,574.84	158.81	36.87	92.65	-228.94	4,287.48	7,175.27	7,041.83	133.43	53.775		
18,600.00	7,630.00	7,774.85	7,575.10	160.32	36.87	92.68	-228.94	4,287.49	7,274.99	7,141.55	133.44	54.519		
18,700.00	7,630.00	7,775.12	7,575.37	161.84	36.87	92.71	-228.94	4,287.49	7,374.72	7,241.27	133.45	55.264		
18,800.00	7,630.00	7,775.38	7,575.64	163.37	36.87	92.73	-228.94	4,287.49	7,474.46	7,341.00	133.45	56.008		
18,900.00	7,630.00	7,775.65	7,575.90	164.90	36.87	92.76	-228.94	4,287.49	7,574.20	7,440.74	133.46	56.752		
19,000.00	7,630.00	7,775.91	7,576.17	166.43	36.87	92.79	-228.94	4,287.49	7,673.95	7,540.48	133.47	57.496		
19,100.00	7,630.00	7,776.18	7,576.43	167.98	36.87	92.82	-228.95	4,287.50	7,773.71	7,640.23	133.48	58.239		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	7,776.44	7,576.70	169.53	36.87	92.85	-228.95	4,287.50	7,873.47	7,739.99	133.49	58.982	
19,300.00	7,630.00	7,776.70	7,576.96	171.08	36.87	92.88	-228.95	4,287.50	7,973.24	7,839.74	133.50	59.725	
19,400.00	7,630.00	7,776.97	7,577.22	172.64	36.87	92.90	-228.95	4,287.50	8,073.02	7,939.51	133.51	60.468	
19,500.00	7,630.00	7,777.23	7,577.48	174.21	36.87	92.93	-228.95	4,287.51	8,172.80	8,039.28	133.52	61.210	
19,518.56	7,630.00	7,777.28	7,577.53	174.50	36.87	92.94	-228.95	4,287.51	8,191.32	8,057.80	133.52	61.348	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.66	-2,069.07	2,094.03	2,944.16					
100.00	100.00	72.72	72.72	0.13	0.12	134.66	-2,068.96	2,093.84	2,943.65	2,943.39	0.25	N/A		
200.00	200.00	185.44	185.43	0.49	0.43	134.66	-2,068.40	2,092.92	2,942.71	2,941.79	0.92	3,204.824		
300.00	300.00	300.72	300.70	0.85	0.84	134.66	-2,067.40	2,091.90	2,941.47	2,939.78	1.69	1,740.674		
400.00	400.00	395.89	395.86	1.21	1.18	134.66	-2,066.41	2,090.89	2,939.99	2,937.61	2.39	1,230.580		
500.00	499.98	486.90	486.87	1.56	1.50	67.99	-2,065.28	2,090.44	2,938.11	2,935.04	3.07	958.155		
600.00	599.84	645.84	645.76	1.92	2.07	68.19	-2,061.91	2,088.78	2,933.83	2,929.84	3.99	735.320		
700.00	699.45	765.79	765.63	2.29	2.51	68.49	-2,058.30	2,086.48	2,927.11	2,922.33	4.78	611.913		
800.00	798.70	855.42	855.20	2.67	2.83	68.82	-2,055.21	2,084.98	2,919.01	2,913.53	5.48	532.563		
900.00	897.47	1,717.48	1,703.14	3.07	6.40	71.57	-1,949.39	1,999.66	2,903.70	2,894.82	8.88	327.171		
1,000.00	995.62	1,963.49	1,936.52	3.50	7.77	73.28	-1,891.19	1,948.20	2,866.61	2,856.48	10.13	282.983		
1,100.00	1,093.06	2,116.19	2,079.21	3.96	8.73	74.88	-1,850.00	1,912.71	2,824.34	2,813.24	11.10	254.445		
1,200.00	1,189.64	2,197.38	2,154.73	4.46	9.26	76.29	-1,827.73	1,892.90	2,780.40	2,768.53	11.87	234.259		
1,300.00	1,285.27	2,257.89	2,211.21	5.00	9.66	77.65	-1,811.55	1,878.43	2,736.69	2,724.07	12.61	216.952		
1,400.00	1,379.82	2,334.71	2,283.07	5.60	10.16	79.21	-1,791.63	1,859.97	2,693.09	2,679.63	13.46	200.088		
1,500.00	1,473.17	2,413.68	2,357.01	6.25	10.68	80.89	-1,771.38	1,841.02	2,649.50	2,635.13	14.36	184.447		
1,600.00	1,565.21	2,492.01	2,430.38	6.95	11.20	82.63	-1,750.77	1,822.95	2,606.01	2,590.68	15.33	170.043		
1,700.00	1,655.84	2,582.31	2,514.98	7.72	11.81	84.58	-1,726.74	1,802.43	2,562.71	2,546.32	16.38	156.431		
1,800.00	1,744.94	2,668.68	2,595.70	8.55	12.39	86.61	-1,703.77	1,782.04	2,519.33	2,501.83	17.49	144.003		
1,900.00	1,832.39	2,740.15	2,662.51	9.45	12.88	88.53	-1,684.83	1,765.14	2,476.66	2,458.02	18.64	132.857		
2,000.00	1,918.11	2,807.22	2,725.28	10.41	13.34	90.42	-1,666.89	1,749.76	2,435.15	2,415.29	19.86	122.645		
2,100.00	2,001.97	2,909.02	2,820.40	11.45	14.04	92.92	-1,639.50	1,725.99	2,394.56	2,373.33	21.23	112.797		
2,200.00	2,083.88	3,018.45	2,922.00	12.56	14.82	95.67	-1,609.05	1,699.05	2,354.34	2,331.64	22.70	103.735		
2,300.00	2,163.74	3,086.94	2,985.38	13.74	15.32	97.76	-1,589.57	1,681.92	2,315.55	2,291.39	24.16	95.824		
2,400.00	2,241.45	3,136.89	3,031.64	14.99	15.68	99.50	-1,575.55	1,669.33	2,279.20	2,253.50	25.69	88.707		
2,421.22	2,257.65	3,146.60	3,040.65	15.26	15.75	99.84	-1,572.87	1,666.89	2,271.87	2,245.85	26.03	87.287		
2,500.00	2,317.63	3,182.53	3,074.02	16.29	16.01	100.57	-1,563.09	1,657.87	2,245.76	2,218.47	27.29	82.285		
2,600.00	2,393.75	3,250.56	3,137.30	17.62	16.50	101.95	-1,544.69	1,640.95	2,214.81	2,185.84	28.97	76.459		
2,700.00	2,469.88	3,320.37	3,202.16	18.95	17.01	103.37	-1,525.38	1,623.82	2,185.90	2,155.23	30.67	71.267		
2,800.00	2,546.01	3,385.98	3,263.06	20.30	17.48	104.73	-1,507.24	1,607.49	2,159.30	2,126.91	32.40	66.654		
2,900.00	2,622.13	3,463.47	3,334.84	21.65	18.06	106.36	-1,485.64	1,587.86	2,134.94	2,100.79	34.15	62.511		
3,000.00	2,698.26	3,553.60	3,418.01	23.01	18.73	108.28	-1,459.80	1,564.63	2,112.60	2,076.66	35.93	58.791		
3,100.00	2,774.38	3,610.94	3,470.77	24.37	19.17	109.51	-1,442.96	1,549.80	2,092.47	2,054.78	37.69	55.516		
3,200.00	2,850.51	3,661.06	3,517.05	25.74	19.54	110.59	-1,428.39	1,537.22	2,075.46	2,036.02	39.44	52.619		
3,300.00	2,926.64	3,704.88	3,557.66	27.11	19.86	111.53	-1,415.91	1,526.48	2,061.71	2,020.53	41.18	50.066		
3,400.00	3,002.76	3,748.49	3,598.23	28.49	20.18	112.47	-1,403.85	1,515.97	2,051.41	2,008.51	42.90	47.819		
3,500.00	3,078.89	3,815.93	3,661.12	29.87	20.67	113.93	-1,385.50	1,499.98	2,044.31	1,999.69	44.61	45.822		
3,600.00	3,155.02	3,888.85	3,729.03	31.25	21.20	115.50	-1,365.29	1,482.74	2,039.77	1,993.46	46.31	44.049		
3,700.00	3,231.14	3,956.73	3,791.99	32.63	21.70	116.99	-1,346.42	1,465.79	2,037.96	1,989.99	47.97	42.488		
3,714.33	3,242.05	3,966.63	3,801.16	32.83	21.77	117.20	-1,343.66	1,463.27	2,037.93	1,989.73	48.20	42.280 CC		
3,800.00	3,307.27	4,026.42	3,856.56	34.01	22.21	118.51	-1,326.86	1,448.31	2,038.94	1,989.35	49.59	41.119 ES		
3,900.00	3,383.39	4,089.36	3,914.95	35.40	22.68	119.88	-1,309.04	1,433.01	2,042.75	1,991.59	51.15	39.936		
4,000.00	3,459.52	4,149.20	3,970.59	36.79	23.12	121.17	-1,292.15	1,418.87	2,049.53	1,996.87	52.66	38.922		
4,100.00	3,535.65	4,203.49	4,021.13	38.18	23.51	122.33	-1,277.02	1,406.06	2,059.38	2,005.29	54.10	38.067		
4,200.00	3,611.77	4,271.56	4,084.53	39.57	24.01	123.79	-1,258.24	1,389.88	2,072.25	2,016.76	55.49	37.342		
4,300.00	3,687.90	4,347.61	4,155.22	40.96	24.56	125.41	-1,236.78	1,371.86	2,087.44	2,030.60	56.84	36.727		
4,400.00	3,764.02	4,408.38	4,211.62	42.35	25.01	126.70	-1,219.52	1,357.22	2,105.27	2,047.17	58.10	36.234		
4,500.00	3,840.15	4,466.23	4,265.29	43.74	25.44	127.92	-1,203.18	1,343.13	2,125.89	2,066.59	59.30	35.852		
4,600.00	3,916.28	4,522.41	4,317.53	45.13	25.85	129.09	-1,187.50	1,329.63	2,149.26	2,088.84	60.42	35.571		
4,700.00	3,992.40	4,571.01	4,362.86	46.53	26.20	130.09	-1,174.26	1,318.16	2,175.47	2,114.01	61.46	35.397		
4,800.00	4,068.53	4,619.60	4,408.35	47.92	26.55	131.07	-1,161.42	1,306.92	2,204.48	2,142.05	62.43	35.312 SF		
4,900.00	4,144.66	4,667.12	4,453.07	49.32	26.87	132.02	-1,149.35	1,296.29	2,236.21	2,172.89	63.32	35.314		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	4,715.54	4,498.87	50.71	27.20	132.96	-1,137.59	1,285.89	2,270.53	2,206.37	64.16	35.390		
5,100.00	4,296.91	4,764.75	4,545.65	52.11	27.52	133.89	-1,126.17	1,275.73	2,307.28	2,242.36	64.93	35.537		
5,200.00	4,373.03	4,812.97	4,591.70	53.51	27.82	134.78	-1,115.53	1,266.20	2,346.33	2,280.69	65.64	35.747		
5,300.00	4,449.16	4,858.47	4,635.41	54.90	28.09	135.60	-1,106.16	1,257.70	2,387.63	2,321.35	66.28	36.023		
5,400.00	4,525.29	4,909.46	4,684.67	56.30	28.38	136.48	-1,096.46	1,248.79	2,431.05	2,364.15	66.90	36.338		
5,500.00	4,601.41	4,974.90	4,748.13	57.70	28.74	137.57	-1,084.62	1,238.08	2,476.09	2,408.56	67.53	36.667		
5,600.00	4,677.54	5,029.14	4,800.91	59.10	29.02	138.44	-1,075.30	1,229.73	2,522.62	2,454.54	68.08	37.055		
5,700.00	4,753.66	5,081.31	4,851.85	60.49	29.29	139.26	-1,067.00	1,222.15	2,570.79	2,502.20	68.59	37.479		
5,800.00	4,829.79	5,140.66	4,909.98	61.89	29.57	140.14	-1,058.25	1,214.01	2,620.41	2,551.31	69.10	37.920		
5,900.00	4,905.92	5,202.83	4,971.07	63.29	29.85	141.04	-1,049.77	1,206.11	2,671.26	2,601.66	69.60	38.379		
6,000.00	4,982.04	5,270.45	5,037.87	64.69	30.14	141.94	-1,041.91	1,199.28	2,723.12	2,653.01	70.12	38.837		
6,100.00	5,058.17	5,332.80	5,099.73	66.09	30.37	142.71	-1,035.84	1,194.37	2,775.91	2,705.33	70.58	39.329		
6,200.00	5,134.30	5,399.83	5,166.40	67.49	30.60	143.49	-1,030.31	1,190.09	2,829.59	2,758.52	71.06	39.818		
6,300.00	5,210.42	5,473.49	5,239.80	68.89	30.84	144.28	-1,025.33	1,186.68	2,883.91	2,812.34	71.57	40.295		
6,400.00	5,286.55	5,555.90	5,322.06	70.29	31.08	145.10	-1,020.94	1,184.59	2,938.61	2,866.50	72.12	40.748		
6,500.00	5,362.67	5,604.07	5,370.20	71.69	31.20	145.55	-1,019.10	1,183.97	2,994.01	2,921.53	72.48	41.308		
6,600.00	5,438.80	5,654.01	5,420.12	73.09	31.33	145.99	-1,017.92	1,183.54	3,050.45	2,977.60	72.85	41.873		
6,700.00	5,514.93	5,709.56	5,475.67	74.49	31.45	146.46	-1,017.23	1,183.16	3,107.78	3,034.54	73.24	42.435		
6,800.00	5,591.05	5,779.95	5,546.06	75.89	31.61	147.03	-1,016.94	1,182.76	3,165.82	3,092.12	73.71	42.952		
6,900.00	5,667.18	5,865.85	5,631.96	77.29	31.81	147.70	-1,016.64	1,182.67	3,223.93	3,149.67	74.27	43.410		
7,000.00	5,743.30	5,940.50	5,706.60	78.69	31.98	148.27	-1,016.04	1,182.32	3,282.24	3,207.48	74.76	43.904		
7,100.00	5,819.43	6,011.28	5,777.38	80.09	32.15	148.80	-1,015.39	1,181.76	3,340.87	3,265.64	75.23	44.409		
7,200.00	5,895.56	6,086.31	5,852.40	81.49	32.33	149.34	-1,014.71	1,181.09	3,399.82	3,324.09	75.73	44.897		
7,300.00	5,971.68	6,157.79	5,923.88	82.90	32.50	149.85	-1,014.04	1,180.37	3,459.01	3,382.81	76.20	45.394		
7,400.00	6,047.81	6,226.87	5,992.94	84.30	32.67	150.33	-1,013.49	1,179.59	3,518.58	3,441.92	76.66	45.899		
7,500.00	6,123.94	6,302.47	6,068.54	85.70	32.85	150.83	-1,012.93	1,178.69	3,578.40	3,501.25	77.16	46.378		
7,600.00	6,200.06	6,383.75	6,149.81	87.10	33.05	151.36	-1,012.29	1,177.76	3,638.37	3,560.68	77.69	46.829		
7,700.00	6,276.19	6,461.59	6,227.65	88.50	33.25	151.84	-1,011.63	1,176.97	3,698.43	3,620.21	78.21	47.287		
7,800.00	6,352.31	6,540.20	6,306.25	89.90	33.44	152.32	-1,011.11	1,176.36	3,758.62	3,679.89	78.74	47.737		
7,900.00	6,428.44	6,631.72	6,397.76	91.31	33.66	152.84	-1,010.70	1,176.08	3,818.86	3,739.52	79.34	48.130		
8,000.00	6,504.57	6,717.68	6,483.73	92.71	33.87	153.31	-1,010.34	1,176.51	3,878.80	3,798.88	79.92	48.532		
8,100.00	6,580.69	6,777.46	6,543.50	94.11	34.01	153.63	-1,010.07	1,176.59	3,939.07	3,858.73	80.34	49.031		
8,200.00	6,656.82	6,860.99	6,627.03	95.51	34.22	154.08	-1,009.51	1,176.36	3,999.59	3,918.69	80.91	49.435		
8,300.00	6,732.95	6,928.53	6,694.57	96.91	34.39	154.43	-1,008.92	1,176.10	4,060.21	3,978.84	81.37	49.896		
8,400.00	6,809.07	7,000.97	6,767.01	98.32	34.57	154.79	-1,008.52	1,175.76	4,121.15	4,039.28	81.87	50.335		
8,500.00	6,885.20	7,093.97	6,860.00	99.72	34.81	155.24	-1,007.93	1,175.54	4,182.06	4,099.55	82.51	50.685		
8,600.00	6,961.32	7,185.85	6,951.89	101.12	35.04	155.67	-1,007.24	1,175.78	4,242.73	4,159.58	83.14	51.029		
8,700.00	7,037.45	7,264.14	7,030.17	102.52	35.24	156.03	-1,006.50	1,176.02	4,303.39	4,219.70	83.69	51.421		
8,732.15	7,061.92	7,281.39	7,047.42	102.97	35.28	156.11	-1,006.32	1,176.03	4,322.94	4,239.12	83.82	51.576		
8,750.00	7,075.57	7,292.24	7,058.27	103.22	35.31	153.15	-1,006.21	1,176.03	4,333.66	4,249.77	83.89	51.656		
8,800.00	7,114.27	7,322.92	7,088.95	103.91	35.39	144.89	-1,005.89	1,175.96	4,362.11	4,278.00	84.11	51.862		
8,850.00	7,153.47	7,355.93	7,121.95	104.58	35.48	136.74	-1,005.53	1,175.80	4,388.07	4,303.74	84.34	52.031		
8,900.00	7,192.85	7,398.01	7,164.02	105.21	35.59	128.88	-1,004.96	1,175.49	4,411.34	4,326.72	84.62	52.133		
8,950.00	7,232.12	7,439.70	7,205.72	105.80	35.70	121.42	-1,004.24	1,175.07	4,431.74	4,346.86	84.88	52.209		
9,000.00	7,270.99	7,472.25	7,238.25	106.35	35.80	114.44	-1,003.59	1,174.67	4,449.21	4,364.13	85.08	52.293		
9,050.00	7,309.16	7,503.26	7,269.25	106.85	35.88	108.12	-1,002.94	1,174.19	4,463.71	4,378.46	85.25	52.357		
9,100.00	7,346.32	7,533.22	7,299.20	107.30	35.97	102.53	-1,002.29	1,173.66	4,475.18	4,389.78	85.40	52.401		
9,150.00	7,382.22	7,572.32	7,338.29	107.69	36.08	97.81	-1,001.47	1,172.97	4,483.55	4,397.96	85.59	52.383		
9,200.00	7,416.56	7,611.60	7,377.55	108.02	36.19	93.85	-1,000.80	1,172.46	4,488.75	4,402.99	85.76	52.338		
9,250.00	7,449.09	7,739.57	7,505.50	108.29	36.51	91.50	-1,000.22	1,173.73	4,490.63	4,404.12	86.51	51.909		
9,300.00	7,479.56	7,743.60	7,509.54	108.51	36.52	88.66	-1,000.22	1,173.77	4,489.08	4,402.67	86.41	51.950		
9,350.00	7,507.74	7,759.66	7,525.58	108.68	36.56	86.57	-1,000.30	1,174.14	4,484.58	4,398.21	86.37	51.923		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,774.22	7,540.14	108.79	36.59	85.05	-1,000.37	1,174.43	4,477.21	4,390.91	86.30	51.880		
9,450.00	7,556.39	7,787.20	7,553.12	108.86	36.62	84.09	-1,000.43	1,174.64	4,467.02	4,380.82	86.20	51.823		
9,500.00	7,576.48	7,798.52	7,564.44	108.88	36.65	83.63	-1,000.48	1,174.79	4,454.10	4,368.03	86.07	51.751		
9,550.00	7,593.55	7,819.00	7,584.92	108.86	36.69	83.81	-1,000.57	1,175.00	4,438.57	4,352.58	85.99	51.618		
9,600.00	7,607.46	7,819.00	7,584.92	108.80	36.69	84.23	-1,000.57	1,175.00	4,420.48	4,334.72	85.76	51.545		
9,650.00	7,618.11	7,819.00	7,584.92	108.71	36.69	85.15	-1,000.57	1,175.00	4,400.01	4,314.48	85.52	51.447		
9,700.00	7,625.41	7,819.00	7,584.92	108.59	36.69	86.57	-1,000.57	1,175.00	4,377.29	4,292.00	85.29	51.323		
9,750.00	7,629.30	7,819.00	7,584.92	108.45	36.69	88.50	-1,000.57	1,175.00	4,352.46	4,267.40	85.06	51.169		
9,781.81	7,630.00	7,819.00	7,584.92	108.35	36.69	90.00	-1,000.57	1,175.00	4,335.64	4,250.72	84.92	51.055		
9,800.00	7,630.00	7,819.00	7,584.92	108.29	36.69	90.00	-1,000.57	1,175.00	4,325.83	4,240.98	84.84	50.987		
9,900.00	7,630.00	7,819.00	7,584.92	107.97	36.69	90.00	-1,000.57	1,175.00	4,272.86	4,188.44	84.42	50.615		
10,000.00	7,630.00	7,819.00	7,584.92	107.67	36.69	90.00	-1,000.57	1,175.00	4,221.61	4,137.59	84.02	50.247		
10,100.00	7,630.00	7,819.00	7,584.92	107.38	36.69	90.00	-1,000.57	1,175.00	4,172.12	4,088.48	83.64	49.884		
10,200.00	7,630.00	7,819.00	7,584.92	107.10	36.69	90.00	-1,000.57	1,175.00	4,124.46	4,041.18	83.28	49.522		
10,300.00	7,630.00	7,819.00	7,584.92	106.84	36.69	90.00	-1,000.57	1,175.00	4,078.70	3,995.73	82.96	49.163		
10,400.00	7,630.00	7,819.00	7,584.92	106.59	36.69	90.00	-1,000.57	1,175.00	4,034.89	3,952.22	82.68	48.803		
10,500.00	7,630.00	7,819.00	7,584.92	106.35	36.69	90.00	-1,000.57	1,175.00	3,993.12	3,910.69	82.43	48.443		
10,600.00	7,630.00	7,832.00	7,597.92	106.13	36.73	90.20	-1,000.63	1,175.08	3,953.39	3,871.04	82.35	48.009		
10,700.00	7,630.00	7,832.31	7,598.23	105.92	36.73	90.21	-1,000.63	1,175.08	3,915.85	3,833.66	82.19	47.641		
10,800.00	7,630.00	7,832.62	7,598.55	105.72	36.73	90.21	-1,000.63	1,175.09	3,880.52	3,798.43	82.09	47.271		
10,900.00	7,630.00	7,832.94	7,598.86	105.54	36.73	90.22	-1,000.63	1,175.09	3,847.47	3,765.43	82.04	46.896		
11,000.00	7,630.00	7,833.26	7,599.18	105.37	36.73	90.22	-1,000.63	1,175.09	3,816.76	3,734.71	82.05	46.519		
11,100.00	7,630.00	7,833.58	7,599.50	105.21	36.73	90.23	-1,000.63	1,175.09	3,788.43	3,706.32	82.11	46.138		
11,200.00	7,630.00	7,833.90	7,599.82	105.06	36.73	90.23	-1,000.64	1,175.09	3,762.55	3,680.32	82.23	45.755		
11,300.00	7,630.00	7,834.23	7,600.15	104.93	36.73	90.24	-1,000.64	1,175.10	3,739.17	3,656.76	82.41	45.371		
11,400.00	7,630.00	7,834.56	7,600.48	104.82	36.73	90.24	-1,000.64	1,175.10	3,718.33	3,635.68	82.65	44.987		
11,500.00	7,630.00	7,834.89	7,600.81	104.72	36.73	90.25	-1,000.64	1,175.10	3,700.08	3,617.12	82.95	44.605		
11,600.00	7,630.00	7,835.22	7,601.14	104.63	36.73	90.25	-1,000.64	1,175.10	3,684.45	3,601.14	83.31	44.227		
11,700.00	7,630.00	7,835.56	7,601.48	104.55	36.73	90.26	-1,000.65	1,175.10	3,671.48	3,587.76	83.72	43.855		
11,800.00	7,630.00	7,835.89	7,601.82	104.50	36.73	90.26	-1,000.65	1,175.10	3,661.19	3,577.01	84.18	43.492		
11,900.00	7,630.00	7,836.24	7,602.16	104.45	36.74	90.27	-1,000.65	1,175.11	3,653.62	3,568.93	84.69	43.141		
12,000.00	7,630.00	7,836.58	7,602.50	104.43	36.74	90.27	-1,000.65	1,175.11	3,648.77	3,563.52	85.24	42.803		
12,100.00	7,630.00	7,836.93	7,602.85	104.42	36.74	90.28	-1,000.65	1,175.11	3,646.65	3,560.81	85.84	42.482		
12,127.09	7,630.00	7,837.02	7,602.94	104.42	36.74	90.28	-1,000.65	1,175.11	3,646.55	3,560.54	86.01	42.395		
12,200.00	7,630.00	7,837.28	7,603.20	104.42	36.74	90.29	-1,000.65	1,175.11	3,647.28	3,560.81	86.47	42.179		
12,300.00	7,630.00	7,837.63	7,603.55	104.45	36.74	90.29	-1,000.66	1,175.11	3,650.65	3,563.52	87.13	41.898		
12,400.00	7,630.00	7,837.99	7,603.91	104.49	36.74	90.30	-1,000.66	1,175.11	3,656.75	3,568.93	87.82	41.639		
12,500.00	7,630.00	7,838.34	7,604.27	104.55	36.74	90.30	-1,000.66	1,175.12	3,665.57	3,577.04	88.53	41.404		
12,600.00	7,630.00	7,838.71	7,604.63	104.63	36.74	90.31	-1,000.66	1,175.12	3,677.09	3,587.83	89.26	41.196		
12,700.00	7,630.00	7,839.07	7,604.99	104.73	36.74	90.31	-1,000.66	1,175.12	3,691.28	3,601.28	90.00	41.015		
12,800.00	7,630.00	7,839.44	7,605.36	104.85	36.74	90.32	-1,000.67	1,175.12	3,708.12	3,617.37	90.75	40.863		
12,900.00	7,630.00	7,839.81	7,605.73	104.99	36.74	90.33	-1,000.67	1,175.12	3,727.56	3,636.06	91.50	40.739		
13,000.00	7,630.00	7,840.18	7,606.11	105.15	36.75	90.33	-1,000.67	1,175.12	3,749.57	3,657.32	92.25	40.645		
13,100.00	7,630.00	7,840.56	7,606.48	105.34	36.75	90.34	-1,000.67	1,175.13	3,774.11	3,681.10	93.00	40.581		
13,200.00	7,630.00	7,840.94	7,606.86	105.56	36.75	90.34	-1,000.67	1,175.13	3,801.11	3,707.36	93.75	40.546		
13,300.00	7,630.00	7,841.33	7,607.25	105.80	36.75	90.35	-1,000.68	1,175.13	3,830.54	3,736.05	94.49	40.541		
13,400.00	7,630.00	7,841.71	7,607.63	106.06	36.75	90.36	-1,000.68	1,175.13	3,862.33	3,767.12	95.21	40.566		
13,500.00	7,630.00	7,842.10	7,608.03	106.36	36.75	90.36	-1,000.68	1,175.13	3,896.43	3,800.51	95.93	40.619		
13,600.00	7,630.00	7,842.50	7,608.42	106.68	36.75	90.37	-1,000.68	1,175.13	3,932.78	3,836.16	96.63	40.701		
13,700.00	7,630.00	7,842.90	7,608.82	107.03	36.75	90.37	-1,000.69	1,175.14	3,971.32	3,874.01	97.31	40.811		
13,800.00	7,630.00	7,843.30	7,609.22	107.42	36.75	90.38	-1,000.69	1,175.14	4,011.97	3,914.00	97.98	40.949		
13,900.00	7,630.00	7,843.70	7,609.62	107.83	36.75	90.39	-1,000.69	1,175.14	4,054.69	3,956.06	98.62	41.112		

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,630.00	7,844.11	7,610.03	108.28	36.75	90.39	-1,000.69	1,175.14	4,099.40	4,000.14	99.26	41.302		
14,100.00	7,630.00	7,844.52	7,610.44	108.77	36.76	90.40	-1,000.70	1,175.14	4,146.04	4,046.17	99.87	41.516		
14,200.00	7,630.00	7,844.94	7,610.86	109.29	36.76	90.41	-1,000.70	1,175.14	4,194.55	4,094.09	100.46	41.754		
14,300.00	7,630.00	7,845.36	7,611.28	109.84	36.76	90.41	-1,000.70	1,175.15	4,244.86	4,143.83	101.03	42.016		
14,400.00	7,630.00	7,845.78	7,611.70	110.43	36.76	90.42	-1,000.70	1,175.15	4,296.90	4,195.32	101.58	42.300		
14,500.00	7,630.00	7,846.21	7,612.13	111.06	36.76	90.43	-1,000.71	1,175.15	4,350.63	4,248.51	102.12	42.605		
14,600.00	7,630.00	7,846.64	7,612.56	111.72	36.76	90.43	-1,000.71	1,175.15	4,405.96	4,303.33	102.63	42.931		
14,700.00	7,630.00	7,847.07	7,612.99	112.42	36.76	90.44	-1,000.71	1,175.15	4,462.86	4,359.73	103.12	43.277		
14,800.00	7,630.00	7,847.51	7,613.43	113.16	36.76	90.45	-1,000.71	1,175.15	4,521.24	4,417.65	103.60	43.642		
14,900.00	7,630.00	7,847.95	7,613.87	113.94	36.76	90.45	-1,000.72	1,175.15	4,581.07	4,477.02	104.06	44.025		
15,000.00	7,630.00	7,848.40	7,614.32	114.75	36.76	90.46	-1,000.72	1,175.16	4,642.28	4,537.79	104.49	44.426		
15,100.00	7,630.00	7,848.85	7,614.77	115.60	36.77	90.47	-1,000.72	1,175.16	4,704.82	4,599.91	104.92	44.844		
15,200.00	7,630.00	7,849.31	7,615.23	116.48	36.77	90.47	-1,000.72	1,175.16	4,768.64	4,663.32	105.32	45.277		
15,300.00	7,630.00	7,849.77	7,615.69	117.40	36.77	90.48	-1,000.73	1,175.16	4,833.68	4,727.97	105.71	45.726		
15,400.00	7,630.00	7,850.23	7,616.15	118.35	36.77	90.49	-1,000.73	1,175.16	4,899.90	4,793.82	106.08	46.190		
15,500.00	7,630.00	7,850.70	7,616.62	119.34	36.77	90.50	-1,000.73	1,175.16	4,967.26	4,860.82	106.44	46.668		
15,600.00	7,630.00	7,851.17	7,617.09	120.35	36.77	90.50	-1,000.74	1,175.16	5,035.69	4,928.91	106.78	47.159		
15,700.00	7,630.00	7,851.65	7,617.57	121.40	36.77	90.51	-1,000.74	1,175.17	5,105.17	4,998.06	107.11	47.663		
15,800.00	7,630.00	7,852.13	7,618.05	122.48	36.77	90.52	-1,000.74	1,175.17	5,175.65	5,068.22	107.43	48.179		
15,900.00	7,630.00	7,852.62	7,618.54	123.58	36.77	90.53	-1,000.75	1,175.17	5,247.08	5,139.36	107.73	48.707		
16,000.00	7,630.00	7,853.11	7,619.03	124.71	36.78	90.53	-1,000.75	1,175.17	5,319.44	5,211.43	108.02	49.247		
16,100.00	7,630.00	7,853.60	7,619.52	125.87	36.78	90.54	-1,000.75	1,175.17	5,392.68	5,284.39	108.29	49.797		
16,200.00	7,630.00	7,854.11	7,620.03	127.05	36.78	90.55	-1,000.75	1,175.17	5,466.77	5,358.21	108.56	50.357		
16,300.00	7,630.00	7,854.61	7,620.53	128.26	36.78	90.56	-1,000.76	1,175.17	5,541.67	5,432.86	108.81	50.927		
16,400.00	7,630.00	7,855.12	7,621.04	129.48	36.78	90.57	-1,000.76	1,175.17	5,617.36	5,508.30	109.06	51.507		
16,500.00	7,630.00	7,855.64	7,621.56	130.73	36.78	90.57	-1,000.76	1,175.17	5,693.79	5,584.50	109.29	52.096		
16,600.00	7,630.00	7,856.16	7,622.08	132.00	36.78	90.58	-1,000.77	1,175.18	5,770.95	5,661.43	109.52	52.693		
16,700.00	7,630.00	7,856.69	7,622.61	133.29	36.78	90.59	-1,000.77	1,175.18	5,848.79	5,739.06	109.74	53.299		
16,800.00	7,630.00	7,857.22	7,623.14	134.59	36.79	90.60	-1,000.78	1,175.18	5,927.31	5,817.36	109.94	53.912		
16,900.00	7,630.00	7,857.76	7,623.68	135.91	36.79	90.61	-1,000.78	1,175.18	6,006.46	5,896.31	110.14	54.534		
17,000.00	7,630.00	7,858.30	7,624.22	137.25	36.79	90.62	-1,000.78	1,175.18	6,086.22	5,975.89	110.33	55.162		
17,100.00	7,630.00	7,858.85	7,624.77	138.61	36.79	90.62	-1,000.79	1,175.18	6,166.57	6,056.06	110.52	55.797		
17,200.00	7,630.00	7,859.40	7,625.32	139.97	36.79	90.63	-1,000.79	1,175.18	6,247.49	6,136.80	110.69	56.439		
17,300.00	7,630.00	7,859.96	7,625.88	141.36	36.79	90.64	-1,000.79	1,175.18	6,328.96	6,218.09	110.86	57.087		
17,400.00	7,630.00	7,860.53	7,626.45	142.75	36.79	90.65	-1,000.80	1,175.18	6,410.95	6,299.92	111.03	57.742		
17,500.00	7,630.00	7,861.10	7,627.02	144.16	36.79	90.66	-1,000.80	1,175.18	6,493.45	6,382.26	111.19	58.402		
17,600.00	7,630.00	7,861.68	7,627.60	145.58	36.80	90.67	-1,000.81	1,175.18	6,576.43	6,465.09	111.34	59.068		
17,700.00	7,630.00	7,862.26	7,628.18	147.01	36.80	90.68	-1,000.81	1,175.19	6,659.88	6,548.39	111.48	59.739		
17,800.00	7,630.00	7,862.85	7,628.77	148.45	36.80	90.69	-1,000.81	1,175.19	6,743.77	6,632.15	111.62	60.415		
17,900.00	7,630.00	7,863.45	7,629.37	149.91	36.80	90.70	-1,000.82	1,175.19	6,828.11	6,716.35	111.76	61.096		
18,000.00	7,630.00	7,864.05	7,629.97	151.37	36.80	90.71	-1,000.82	1,175.19	6,912.86	6,800.97	111.89	61.782		
18,100.00	7,630.00	7,864.66	7,630.58	152.84	36.80	90.72	-1,000.83	1,175.19	6,998.01	6,885.99	112.02	62.472		
18,200.00	7,630.00	7,865.28	7,631.20	154.32	36.80	90.73	-1,000.83	1,175.19	7,083.55	6,971.41	112.14	63.167		
18,300.00	7,630.00	7,865.90	7,631.82	155.81	36.81	90.74	-1,000.84	1,175.19	7,169.47	7,057.21	112.26	63.866		
18,400.00	7,630.00	7,866.53	7,632.45	157.31	36.81	90.75	-1,000.84	1,175.19	7,255.74	7,143.37	112.37	64.568		
18,500.00	7,630.00	7,867.17	7,633.09	158.81	36.81	90.76	-1,000.85	1,175.19	7,342.37	7,229.88	112.48	65.275		
18,600.00	7,630.00	7,867.81	7,633.73	160.32	36.81	90.77	-1,000.85	1,175.19	7,429.32	7,316.73	112.59	65.985		
18,700.00	7,630.00	7,868.46	7,634.38	161.84	36.81	90.78	-1,000.85	1,175.19	7,516.61	7,403.91	112.69	66.699		
18,800.00	7,630.00	7,869.12	7,635.04	163.37	36.81	90.79	-1,000.86	1,175.19	7,604.21	7,491.41	112.80	67.416		
18,900.00	7,630.00	7,869.79	7,635.71	164.90	36.82	90.80	-1,000.86	1,175.19	7,692.11	7,579.21	112.89	68.136		
19,000.00	7,630.00	7,870.46	7,636.38	166.43	36.82	90.81	-1,000.87	1,175.19	7,780.30	7,667.31	112.99	68.860		
19,100.00	7,630.00	7,871.14	7,637.06	167.98	36.82	90.82	-1,000.87	1,175.19	7,868.77	7,755.69	113.08	69.586		

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

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,871.83	7,637.75	169.53	36.82	90.83	-1,000.88	1,175.19	7,957.52	7,844.35	113.17	70.315	
19,300.00	7,630.00	7,872.53	7,638.45	171.08	36.82	90.84	-1,000.89	1,175.19	8,046.53	7,933.27	113.26	71.047	
19,400.00	7,630.00	7,873.23	7,639.15	172.64	36.82	90.85	-1,000.89	1,175.19	8,135.80	8,022.45	113.34	71.781	
19,500.00	7,630.00	7,873.95	7,639.87	174.21	36.83	90.86	-1,000.90	1,175.19	8,225.31	8,111.89	113.42	72.518	
19,518.56	7,630.00	7,874.08	7,640.00	174.50	36.83	90.86	-1,000.90	1,175.19	8,241.95	8,128.51	113.44	72.655	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.82	-2,072.71	2,085.63	2,940.75					
100.00	100.00	63.82	63.82	0.13	0.10	134.82	-2,072.60	2,085.61	2,940.33	2,940.09	0.24	N/A		
200.00	200.00	167.49	167.49	0.49	0.36	134.81	-2,072.02	2,085.52	2,939.86	2,939.01	0.86	3,431.160		
300.00	300.00	266.55	266.55	0.85	0.72	134.81	-2,071.62	2,085.42	2,939.51	2,937.94	1.57	1,872.043		
400.00	400.00	373.76	373.76	1.21	1.10	134.81	-2,071.11	2,085.16	2,939.01	2,936.69	2.31	1,271.410		
500.00	499.98	608.23	608.08	1.56	1.94	68.29	-2,069.17	2,078.36	2,936.10	2,932.59	3.50	838.185		
600.00	599.84	728.76	728.16	1.92	2.38	68.69	-2,069.41	2,068.08	2,928.20	2,923.91	4.29	682.245		
700.00	699.45	815.74	814.66	2.29	2.71	69.14	-2,071.29	2,059.16	2,919.35	2,914.37	4.98	586.739		
800.00	798.70	891.36	889.73	2.67	3.00	69.65	-2,074.22	2,050.58	2,909.84	2,904.21	5.64	516.183		
900.00	897.47	950.00	947.84	3.07	3.23	70.15	-2,077.66	2,043.51	2,900.29	2,894.03	6.26	463.428		
1,000.00	995.62	1,019.17	1,016.22	3.50	3.51	70.77	-2,083.26	2,034.66	2,890.86	2,883.91	6.96	415.643		
1,100.00	1,093.06	1,071.39	1,067.67	3.96	3.72	71.33	-2,088.65	2,027.65	2,881.82	2,874.20	7.62	378.187		
1,200.00	1,189.64	1,116.68	1,112.24	4.46	3.91	71.86	-2,094.15	2,021.73	2,873.62	2,865.33	8.30	346.341		
1,300.00	1,285.27	1,160.52	1,155.31	5.00	4.09	72.39	-2,100.22	2,016.22	2,866.40	2,857.39	9.01	318.057		
1,400.00	1,379.82	1,202.94	1,196.92	5.60	4.27	72.92	-2,106.73	2,011.15	2,860.28	2,850.51	9.77	292.749		
1,500.00	1,473.17	1,242.91	1,236.05	6.25	4.44	73.43	-2,113.45	2,006.64	2,855.36	2,844.79	10.57	270.150		
1,600.00	1,565.21	1,284.23	1,276.43	6.95	4.62	73.96	-2,121.07	2,002.25	2,851.81	2,840.37	11.43	249.449		
1,700.00	1,655.84	1,338.00	1,328.86	7.72	4.86	74.64	-2,131.67	1,996.78	2,849.48	2,837.06	12.42	229.517		
1,800.00	1,744.94	1,371.94	1,361.87	8.55	5.01	75.08	-2,138.80	1,993.45	2,848.46	2,835.09	13.37	213.072		
1,815.73	1,758.80	1,378.01	1,367.77	8.69	5.04	75.16	-2,140.12	1,992.86	2,848.44	2,834.91	13.53	210.505 CC		
1,900.00	1,832.39	1,409.94	1,398.73	9.45	5.19	75.57	-2,147.30	1,989.81	2,849.01	2,834.61	14.40	197.814 ES		
2,000.00	1,918.11	1,433.00	1,421.04	10.41	5.29	75.83	-2,152.73	1,987.65	2,851.28	2,835.86	15.42	184.868		
2,100.00	2,001.97	1,476.93	1,463.42	11.45	5.50	76.37	-2,163.64	1,983.75	2,855.26	2,838.64	16.62	171.787		
2,200.00	2,083.88	1,527.00	1,511.51	12.56	5.74	76.99	-2,176.96	1,979.76	2,861.35	2,843.43	17.92	159.676		
2,300.00	2,163.74	1,527.00	1,511.51	13.74	5.74	76.84	-2,176.96	1,979.76	2,869.16	2,850.16	19.00	151.035		
2,400.00	2,241.45	1,566.10	1,548.93	14.99	5.94	77.25	-2,187.98	1,977.04	2,879.05	2,858.69	20.36	141.436		
2,421.22	2,257.65	1,572.11	1,554.67	15.26	5.97	77.29	-2,189.72	1,976.66	2,881.42	2,860.78	20.64	139.620		
2,500.00	2,317.63	1,594.35	1,575.90	16.29	6.08	77.64	-2,196.24	1,975.34	2,891.26	2,869.57	21.69	133.298		
2,600.00	2,393.75	1,623.25	1,603.41	17.62	6.22	78.10	-2,204.94	1,973.82	2,906.24	2,883.22	23.03	126.215		
2,700.00	2,469.88	1,678.86	1,656.33	18.95	6.51	78.96	-2,221.86	1,971.38	2,923.68	2,899.16	24.52	119.247		
2,800.00	2,546.01	1,761.49	1,735.09	20.30	6.94	80.22	-2,246.68	1,968.50	2,943.12	2,916.94	26.17	112.448		
2,900.00	2,622.13	1,840.60	1,810.76	21.65	7.35	81.42	-2,269.58	1,965.69	2,963.69	2,935.90	27.80	106.621		
3,000.00	2,698.26	1,889.17	1,857.23	23.01	7.61	82.14	-2,283.64	1,964.31	2,986.33	2,957.12	29.21	102.233		
3,100.00	2,774.38	1,982.99	1,947.11	24.37	8.10	83.52	-2,310.46	1,962.48	3,010.76	2,979.86	30.90	97.440		
3,200.00	2,850.51	2,050.34	2,011.84	25.74	8.46	84.50	-2,329.04	1,961.56	3,036.33	3,003.94	32.40	93.718		
3,300.00	2,926.64	2,110.10	2,069.25	27.11	8.78	85.36	-2,345.60	1,960.88	3,063.68	3,029.85	33.83	90.555		
3,400.00	3,002.76	2,169.02	2,125.79	28.49	9.10	86.20	-2,362.17	1,959.64	3,092.76	3,057.52	35.24	87.756		
3,500.00	3,078.89	2,215.21	2,170.02	29.87	9.36	86.87	-2,375.39	1,958.25	3,123.66	3,087.11	36.55	85.474		
3,600.00	3,155.02	2,255.99	2,209.01	31.25	9.59	87.45	-2,387.31	1,957.29	3,156.59	3,118.80	37.79	83.540		
3,700.00	3,231.14	2,349.62	2,298.55	32.63	10.11	88.75	-2,414.65	1,956.49	3,191.29	3,151.92	39.37	81.058		
3,800.00	3,307.27	2,412.08	2,358.53	34.01	10.46	89.59	-2,432.07	1,957.06	3,226.62	3,185.90	40.72	79.243		
3,900.00	3,383.39	2,453.79	2,398.48	35.40	10.69	90.15	-2,444.03	1,957.17	3,263.75	3,221.85	41.89	77.906		
4,000.00	3,459.52	2,518.77	2,460.63	36.79	11.06	91.02	-2,463.05	1,956.93	3,302.53	3,259.31	43.22	76.419		
4,100.00	3,535.65	2,594.19	2,532.81	38.18	11.48	92.01	-2,484.87	1,956.66	3,342.36	3,297.76	44.60	74.949		
4,200.00	3,611.77	2,675.18	2,610.42	39.57	11.94	93.05	-2,507.99	1,958.01	3,383.28	3,337.28	46.00	73.549		
4,300.00	3,687.90	2,836.06	2,765.19	40.96	12.85	95.12	-2,551.62	1,955.00	3,424.20	3,376.24	47.97	71.386		
4,400.00	3,764.02	2,888.18	2,815.41	42.35	13.15	95.81	-2,565.19	1,951.78	3,465.50	3,416.37	49.12	70.548		
4,500.00	3,840.15	2,940.00	2,865.31	43.74	13.44	96.48	-2,578.95	1,949.40	3,508.34	3,458.08	50.26	69.809		
4,600.00	3,916.28	2,998.59	2,921.74	45.13	13.77	97.21	-2,594.63	1,947.65	3,552.48	3,501.07	51.42	69.092		
4,700.00	3,992.40	3,066.62	2,987.29	46.53	14.16	98.04	-2,612.79	1,946.47	3,597.65	3,545.02	52.63	68.354		
4,800.00	4,068.53	3,132.27	3,050.53	47.92	14.53	98.84	-2,630.27	1,944.38	3,643.81	3,590.00	53.81	67.719		
4,900.00	4,144.66	3,172.42	3,089.16	49.32	14.77	99.34	-2,641.07	1,942.61	3,691.19	3,636.42	54.77	67.394		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	3,224.00	3,138.68	50.71	15.07	99.96	-2,655.26	1,939.98	3,739.98	3,684.18	55.80	67.029		
5,100.00	4,296.91	3,286.39	3,198.54	52.11	15.43	100.72	-2,672.52	1,936.62	3,789.86	3,732.97	56.89	66.618		
5,200.00	4,373.03	3,359.43	3,268.72	53.51	15.86	101.59	-2,692.45	1,932.92	3,840.40	3,782.35	58.05	66.158		
5,300.00	4,449.16	3,412.00	3,319.24	54.90	16.17	102.20	-2,706.80	1,930.73	3,891.79	3,832.76	59.03	65.925		
5,400.00	4,525.29	3,463.06	3,368.28	56.30	16.47	102.78	-2,720.91	1,928.87	3,944.21	3,884.22	59.99	65.748		
5,500.00	4,601.41	3,507.00	3,410.40	57.70	16.73	103.27	-2,733.32	1,927.34	3,997.78	3,936.91	60.87	65.676		
5,600.00	4,677.54	3,589.49	3,489.47	59.10	17.21	104.17	-2,756.73	1,925.07	4,052.13	3,990.07	62.06	65.290		
5,700.00	4,753.66	3,660.51	3,557.60	60.49	17.63	104.93	-2,776.75	1,923.91	4,106.95	4,043.80	63.15	65.032		
5,800.00	4,829.79	3,719.14	3,613.83	61.89	17.98	105.53	-2,793.31	1,923.34	4,162.41	4,098.28	64.13	64.908		
5,900.00	4,905.92	3,766.04	3,658.79	63.29	18.25	106.02	-2,806.69	1,922.67	4,218.74	4,153.75	64.99	64.914		
6,000.00	4,982.04	3,807.02	3,698.02	64.69	18.50	106.43	-2,818.50	1,921.81	4,275.98	4,210.19	65.78	65.000		
6,100.00	5,058.17	3,841.51	3,730.97	66.09	18.71	106.79	-2,828.58	1,920.69	4,334.23	4,267.73	66.51	65.171		
6,200.00	5,134.30	3,875.39	3,804.78	67.49	18.92	107.18	-2,838.66	1,919.56	4,393.48	4,325.98	67.29	65.342		
6,300.00	5,210.42	3,909.27	3,839.15	68.89	19.13	107.57	-2,848.74	1,918.43	4,452.73	4,385.23	68.07	65.513		
6,400.00	5,286.55	3,943.15	3,869.03	70.29	19.34	107.96	-2,858.82	1,917.30	4,511.98	4,444.48	68.85	65.684		
6,500.00	5,362.67	3,977.03	3,898.91	71.69	19.55	108.35	-2,868.90	1,916.17	4,571.23	4,503.73	69.63	65.855		
6,600.00	5,438.80	4,010.91	3,928.79	73.09	19.76	108.74	-2,878.98	1,915.04	4,630.48	4,562.98	70.41	66.026		
6,700.00	5,514.93	4,044.79	3,958.67	74.49	19.97	109.13	-2,889.06	1,913.91	4,689.73	4,623.23	71.19	66.197		
6,800.00	5,591.05	4,078.67	3,988.55	75.89	20.18	109.52	-2,899.14	1,912.78	4,748.98	4,682.48	71.97	66.368		
6,900.00	5,667.18	4,112.55	4,018.43	77.29	20.39	109.91	-2,909.22	1,911.65	4,808.23	4,741.73	72.75	66.539		
7,000.00	5,743.30	4,146.43	4,048.31	78.69	20.60	110.30	-2,919.30	1,910.52	4,867.48	4,798.98	73.53	66.710		
7,100.00	5,819.43	4,180.31	4,078.19	80.09	20.81	110.69	-2,929.38	1,909.39	4,926.73	4,857.23	74.31	66.881		
7,200.00	5,895.56	4,214.19	4,108.07	81.49	21.02	111.08	-2,939.46	1,908.26	4,985.98	4,916.48	75.09	67.052		
7,300.00	5,971.68	4,248.07	4,137.95	82.90	21.23	111.47	-2,949.54	1,907.13	5,045.23	4,975.73	75.87	67.223		
7,400.00	6,047.81	4,281.95	4,167.83	84.30	21.44	111.86	-2,959.62	1,906.00	5,104.48	5,034.98	76.65	67.394		
7,500.00	6,123.94	4,315.83	4,197.71	85.70	21.65	112.25	-2,969.70	1,904.87	5,163.73	5,094.23	77.43	67.565		
7,600.00	6,200.06	4,349.71	4,227.59	87.10	21.86	112.64	-2,979.78	1,903.74	5,222.98	5,153.48	78.21	67.736		
7,700.00	6,276.19	4,383.59	4,257.47	88.50	22.07	113.03	-2,989.86	1,902.61	5,282.23	5,212.73	78.99	67.907		
7,800.00	6,352.31	4,417.47	4,287.35	89.90	22.28	113.42	-2,999.94	1,901.48	5,341.48	5,271.98	79.77	68.078		
7,900.00	6,428.44	4,451.35	4,317.23	91.31	22.49	113.81	-3,009.99	1,900.35	5,400.73	5,331.23	80.55	68.249		
8,000.00	6,504.57	4,485.23	4,347.11	92.71	22.70	114.20	-3,019.99	1,899.22	5,459.98	5,390.48	81.33	68.420		
8,100.00	6,580.69	4,519.11	4,376.99	94.11	22.91	114.59	-3,029.99	1,898.09	5,519.23	5,449.73	82.11	68.591		
8,200.00	6,656.82	4,552.99	4,406.87	95.51	23.12	114.98	-3,039.99	1,896.96	5,578.48	5,508.98	82.89	68.762		
8,300.00	6,732.95	4,586.87	4,436.75	96.91	23.33	115.37	-3,049.99	1,895.83	5,637.73	5,568.23	83.67	68.933		
8,400.00	6,809.07	4,620.75	4,466.63	98.32	23.54	115.76	-3,059.99	1,894.70	5,696.98	5,627.48	84.45	69.104		
8,500.00	6,885.20	4,654.63	4,496.51	99.72	23.75	116.15	-3,069.99	1,893.57	5,756.23	5,686.73	85.23	69.275		
8,600.00	6,961.32	4,688.51	4,526.39	101.12	23.96	116.54	-3,079.99	1,892.44	5,815.48	5,745.98	86.01	69.446		
8,700.00	7,037.45	4,722.39	4,556.27	102.52	24.17	116.93	-3,089.99	1,891.31	5,874.73	5,805.23	86.79	69.617		
8,732.15	7,061.92	4,746.86	4,575.74	102.97	24.31	117.14	-3,093.65	1,871.07	5,536.52	5,439.19	97.33	56.885		
8,750.00	7,075.57	4,761.33	4,590.21	103.22	24.45	117.35	-3,043.46	1,869.87	5,545.39	5,447.86	97.53	56.860		
8,800.00	7,114.27	4,800.00	4,628.91	103.91	24.67	117.96	-3,042.36	1,866.94	5,567.52	5,464.37	103.15	53.975		
8,850.00	7,153.47	4,838.67	4,667.51	104.58	24.89	118.57	-3,041.16	1,864.27	5,586.06	5,487.56	98.51	56.708		
8,900.00	7,192.85	4,877.34	4,706.11	105.21	25.10	119.18	-3,040.65	1,863.17	5,600.93	5,502.04	98.89	56.640		
8,950.00	7,232.12	4,916.01	4,744.61	105.80	25.31	119.79	-3,040.15	1,862.04	5,612.06	5,512.72	99.34	56.492		
9,000.00	7,270.99	4,954.68	4,783.11	106.35	25.52	120.40	-3,039.71	1,861.65	5,619.19	5,519.27	99.92	56.239		
9,050.00	7,309.16	4,993.35	4,821.61	106.85	25.73	121.01	-3,039.64	1,861.64	5,622.45	5,522.20	100.25	56.086		
9,100.00	7,346.32	5,032.02	4,860.11	107.30	25.94	121.62	-3,039.57	1,861.58	5,621.96	5,521.37	100.59	55.891		
9,150.00	7,382.22	5,070.69	4,898.61	107.69	26.15	122.23	-3,039.51	1,861.44	5,617.73	5,516.82	100.91	55.671		
9,200.00	7,416.56	5,109.36	4,937.11	108.02	26.36	122.84	-3,039.48	1,861.24	5,609.82	5,508.61	101.21	55.428		
9,250.00	7,449.09	5,148.03	4,975.61	108.29	26.57	123.45	-3,039.46	1,860.95	5,598.26	5,496.75	101.51	55.151		
9,300.00	7,479.56	5,186.70	5,014.11	108.51	26.78	124.06	-3,039.46	1,860.67	5,583.13	5,481.35	101.78	54.856		
9,350.00	7,507.74	5,225.37	5,052.61	108.68	26.99	124.67	-3,039.19	1,860.24	5,564.32	5,456.46	107.86	51.589		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,694.79	7,561.43	108.79	31.62	73.25	-3,038.65	1,860.63	5,541.96	5,439.20	102.76	53.930		
9,450.00	7,556.39	7,705.72	7,572.35	108.86	31.65	73.01	-3,038.57	1,860.77	5,516.43	5,413.53	102.90	53.608		
9,500.00	7,576.48	7,715.33	7,581.96	108.88	31.68	73.42	-3,038.53	1,860.88	5,488.01	5,385.00	103.01	53.275		
9,550.00	7,593.55	7,723.55	7,590.18	108.86	31.70	74.49	-3,038.51	1,860.98	5,456.88	5,353.78	103.10	52.930		
9,600.00	7,607.46	7,730.30	7,596.93	108.80	31.72	76.29	-3,038.50	1,861.06	5,423.24	5,320.09	103.15	52.576		
9,650.00	7,618.11	7,735.52	7,602.15	108.71	31.73	78.90	-3,038.51	1,861.12	5,387.32	5,284.14	103.18	52.212		
9,700.00	7,625.41	7,739.14	7,605.77	108.59	31.74	82.41	-3,038.51	1,861.16	5,349.36	5,246.17	103.19	51.840		
9,750.00	7,629.30	7,741.11	7,607.74	108.45	31.75	86.96	-3,038.51	1,861.18	5,309.62	5,206.43	103.18	51.459		
9,781.81	7,630.00	7,741.49	7,608.12	108.35	31.75	90.45	-3,038.52	1,861.18	5,283.53	5,180.36	103.17	51.212		
9,800.00	7,630.00	7,741.51	7,608.14	108.29	31.75	90.45	-3,038.52	1,861.18	5,268.45	5,165.29	103.16	51.070		
9,900.00	7,630.00	7,741.61	7,608.24	107.97	31.75	90.45	-3,038.52	1,861.18	5,185.95	5,082.84	103.11	50.296		
10,000.00	7,630.00	7,741.73	7,608.36	107.67	31.75	90.45	-3,038.52	1,861.19	5,104.07	5,001.01	103.06	49.525		
10,100.00	7,630.00	7,741.84	7,608.47	107.38	31.75	90.46	-3,038.52	1,861.19	5,022.85	4,919.84	103.01	48.760		
10,200.00	7,630.00	7,741.96	7,608.59	107.10	31.75	90.46	-3,038.52	1,861.19	4,942.31	4,839.35	102.97	48.000		
10,300.00	7,630.00	7,742.07	7,608.70	106.84	31.75	90.46	-3,038.52	1,861.19	4,862.50	4,759.58	102.92	47.245		
10,400.00	7,630.00	7,742.20	7,608.83	106.59	31.75	90.46	-3,038.52	1,861.19	4,783.45	4,680.57	102.88	46.495		
10,500.00	7,630.00	7,742.32	7,608.95	106.35	31.75	90.46	-3,038.52	1,861.19	4,705.20	4,602.36	102.84	45.752		
10,600.00	7,630.00	7,742.45	7,609.08	106.13	31.75	90.47	-3,038.52	1,861.19	4,627.78	4,524.98	102.81	45.015		
10,700.00	7,630.00	7,742.58	7,609.21	105.92	31.75	90.47	-3,038.52	1,861.19	4,551.25	4,448.47	102.77	44.284		
10,800.00	7,630.00	7,742.71	7,609.34	105.72	31.75	90.47	-3,038.52	1,861.20	4,475.64	4,372.89	102.75	43.560		
10,900.00	7,630.00	7,742.85	7,609.48	105.54	31.75	90.47	-3,038.52	1,861.20	4,401.00	4,298.28	102.72	42.843		
11,000.00	7,630.00	7,742.99	7,609.62	105.37	31.75	90.48	-3,038.52	1,861.20	4,327.39	4,224.68	102.70	42.134		
11,100.00	7,630.00	7,743.13	7,609.76	105.21	31.75	90.48	-3,038.52	1,861.20	4,254.85	4,152.16	102.69	41.433		
11,200.00	7,630.00	7,743.27	7,609.90	105.06	31.75	90.48	-3,038.52	1,861.20	4,183.45	4,080.76	102.69	40.740		
11,300.00	7,630.00	7,743.42	7,610.05	104.93	31.75	90.49	-3,038.52	1,861.20	4,113.23	4,010.55	102.69	40.056		
11,400.00	7,630.00	7,743.58	7,610.21	104.82	31.75	90.49	-3,038.52	1,861.21	4,044.28	3,941.58	102.69	39.382		
11,500.00	7,630.00	7,743.74	7,610.37	104.72	31.75	90.49	-3,038.52	1,861.21	3,976.64	3,873.93	102.71	38.717		
11,600.00	7,630.00	7,743.90	7,610.53	104.63	31.76	90.50	-3,038.52	1,861.21	3,910.39	3,807.65	102.74	38.062		
11,700.00	7,630.00	7,744.06	7,610.69	104.55	31.76	90.50	-3,038.52	1,861.21	3,845.59	3,742.82	102.77	37.418		
11,800.00	7,630.00	7,744.24	7,610.87	104.50	31.76	90.50	-3,038.52	1,861.21	3,782.34	3,679.52	102.82	36.786		
11,900.00	7,630.00	7,744.41	7,611.04	104.45	31.76	90.51	-3,038.52	1,861.22	3,720.69	3,617.81	102.88	36.166		
12,000.00	7,630.00	7,744.59	7,611.22	104.43	31.76	90.51	-3,038.52	1,861.22	3,660.74	3,557.79	102.95	35.559		
12,100.00	7,630.00	7,744.78	7,611.41	104.42	31.76	90.51	-3,038.52	1,861.22	3,602.57	3,499.53	103.03	34.965		
12,200.00	7,630.00	7,744.97	7,611.60	104.42	31.76	90.52	-3,038.52	1,861.22	3,546.26	3,443.13	103.13	34.385		
12,300.00	7,630.00	7,745.16	7,611.79	104.45	31.76	90.52	-3,038.53	1,861.22	3,491.91	3,388.66	103.25	33.820		
12,400.00	7,630.00	7,745.36	7,611.99	104.49	31.76	90.52	-3,038.53	1,861.23	3,439.61	3,336.23	103.38	33.271		
12,500.00	7,630.00	7,745.57	7,612.20	104.55	31.76	90.53	-3,038.53	1,861.23	3,389.45	3,285.92	103.53	32.738		
12,600.00	7,630.00	7,745.79	7,612.42	104.63	31.76	90.53	-3,038.53	1,861.23	3,341.53	3,237.83	103.70	32.223		
12,700.00	7,630.00	7,746.01	7,612.64	104.73	31.76	90.54	-3,038.53	1,861.23	3,295.96	3,192.07	103.89	31.726		
12,800.00	7,630.00	7,746.23	7,612.86	104.85	31.76	90.54	-3,038.53	1,861.23	3,252.81	3,148.72	104.09	31.249		
12,900.00	7,630.00	7,746.47	7,613.10	104.99	31.76	90.55	-3,038.53	1,861.24	3,212.21	3,107.89	104.32	30.792		
13,000.00	7,630.00	7,746.71	7,613.34	105.15	31.76	90.55	-3,038.53	1,861.24	3,174.23	3,069.66	104.57	30.356		
13,100.00	7,630.00	7,746.96	7,613.59	105.34	31.76	90.55	-3,038.53	1,861.24	3,138.98	3,034.15	104.83	29.942		
13,200.00	7,630.00	7,747.22	7,613.85	105.56	31.76	90.56	-3,038.53	1,861.25	3,106.56	3,001.43	105.12	29.552		
13,300.00	7,630.00	7,747.48	7,614.11	105.80	31.77	90.56	-3,038.53	1,861.25	3,077.04	2,971.61	105.43	29.186		
13,400.00	7,630.00	7,747.76	7,614.39	106.06	31.77	90.57	-3,038.53	1,861.25	3,050.51	2,944.76	105.75	28.846		
13,500.00	7,630.00	7,748.04	7,614.67	106.36	31.77	90.58	-3,038.53	1,861.25	3,027.06	2,920.97	106.09	28.532		
13,600.00	7,630.00	7,748.34	7,614.97	106.68	31.77	90.58	-3,038.54	1,861.26	3,006.75	2,900.31	106.45	28.246		
13,700.00	7,630.00	7,748.64	7,615.27	107.03	31.77	90.59	-3,038.54	1,861.26	2,989.66	2,882.84	106.82	27.988		
13,800.00	7,630.00	7,748.96	7,615.59	107.42	31.77	90.59	-3,038.54	1,861.26	2,975.82	2,868.62	107.20	27.759		
13,900.00	7,630.00	7,749.29	7,615.92	107.83	31.77	90.60	-3,038.54	1,861.27	2,965.30	2,857.70	107.59	27.560		
14,000.00	7,630.00	7,749.63	7,616.26	108.28	31.77	90.61	-3,038.54	1,861.27	2,958.12	2,850.13	107.99	27.392		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,749.98	7,616.61	108.77	31.77	90.61	-3,038.54	1,861.28	2,954.31	2,845.91	108.39	27.255		
14,162.65	7,630.00	7,750.21	7,616.84	109.09	31.77	90.62	-3,038.54	1,861.28	2,953.64	2,844.99	108.65	27.185		
14,200.00	7,630.00	7,750.35	7,616.98	109.29	31.77	90.62	-3,038.54	1,861.28	2,953.88	2,845.08	108.80	27.150		
14,300.00	7,630.00	7,750.73	7,617.36	109.84	31.77	90.63	-3,038.55	1,861.28	2,956.83	2,847.63	109.20	27.077		
14,400.00	7,630.00	7,751.13	7,617.76	110.43	31.78	90.64	-3,038.55	1,861.29	2,963.16	2,853.56	109.60	27.036		
14,500.00	7,630.00	7,751.55	7,618.18	111.06	31.78	90.64	-3,038.55	1,861.29	2,972.84	2,862.85	109.99	27.028 SF		
14,600.00	7,630.00	7,751.98	7,618.61	111.72	31.78	90.65	-3,038.55	1,861.30	2,985.85	2,875.47	110.37	27.052		
14,700.00	7,630.00	7,752.43	7,619.06	112.42	31.78	90.66	-3,038.55	1,861.30	3,002.12	2,891.38	110.75	27.108		
14,800.00	7,630.00	7,752.90	7,619.53	113.16	31.78	90.67	-3,038.55	1,861.31	3,021.62	2,910.52	111.10	27.196		
14,900.00	7,630.00	7,753.39	7,620.02	113.94	31.78	90.68	-3,038.56	1,861.31	3,044.29	2,932.84	111.45	27.316		
15,000.00	7,630.00	7,753.91	7,620.54	114.75	31.78	90.69	-3,038.56	1,861.32	3,070.04	2,958.26	111.78	27.466		
15,100.00	7,630.00	7,754.45	7,621.08	115.60	31.78	90.70	-3,038.56	1,861.32	3,098.81	2,986.72	112.09	27.647		
15,200.00	7,630.00	7,755.02	7,621.65	116.48	31.79	90.71	-3,038.57	1,861.33	3,130.51	3,018.13	112.38	27.857		
15,300.00	7,630.00	7,755.62	7,622.25	117.40	31.79	90.72	-3,038.57	1,861.34	3,165.05	3,052.40	112.65	28.096		
15,400.00	7,630.00	7,756.24	7,622.87	118.35	31.79	90.73	-3,038.57	1,861.34	3,202.34	3,089.44	112.90	28.363		
15,500.00	7,630.00	7,756.90	7,623.53	119.34	31.79	90.75	-3,038.58	1,861.35	3,242.29	3,129.15	113.14	28.657		
15,600.00	7,630.00	7,757.60	7,624.23	120.35	31.79	90.76	-3,038.58	1,861.36	3,284.80	3,171.45	113.36	28.978		
15,700.00	7,630.00	7,758.33	7,624.96	121.40	31.80	90.78	-3,038.58	1,861.36	3,329.77	3,216.22	113.55	29.323		
15,800.00	7,630.00	7,759.11	7,625.74	122.48	31.80	90.79	-3,038.59	1,861.37	3,377.11	3,263.37	113.73	29.693		
15,900.00	7,630.00	7,759.93	7,626.56	123.58	31.80	90.81	-3,038.59	1,861.38	3,426.71	3,312.81	113.90	30.086		
16,000.00	7,630.00	7,760.81	7,627.44	124.71	31.80	90.82	-3,038.60	1,861.39	3,478.47	3,364.43	114.04	30.501		
16,100.00	7,630.00	7,761.83	7,628.46	125.87	31.81	90.84	-3,038.60	1,861.40	3,532.31	3,418.13	114.18	30.937		
16,200.00	7,630.00	7,762.96	7,629.59	127.05	31.81	90.86	-3,038.61	1,861.41	3,588.13	3,473.84	114.30	31.393		
16,300.00	7,630.00	7,764.17	7,630.80	128.26	31.81	90.89	-3,038.62	1,861.43	3,645.84	3,531.44	114.40	31.869		
16,400.00	7,630.00	7,765.48	7,632.11	129.48	31.82	90.91	-3,038.63	1,861.44	3,705.35	3,590.85	114.49	32.363		
16,500.00	7,630.00	7,766.89	7,633.52	130.73	31.82	90.94	-3,038.64	1,861.45	3,766.57	3,651.99	114.58	32.874		
16,600.00	7,630.00	7,768.42	7,635.04	132.00	31.83	90.97	-3,038.65	1,861.47	3,829.42	3,714.78	114.65	33.402		
16,700.00	7,630.00	7,770.08	7,636.71	133.29	31.83	91.00	-3,038.67	1,861.49	3,893.83	3,779.13	114.71	33.945		
16,800.00	7,630.00	7,771.90	7,638.52	134.59	31.84	91.04	-3,038.68	1,861.51	3,959.72	3,844.96	114.76	34.504		
16,900.00	7,630.00	7,773.89	7,640.52	135.91	31.84	91.08	-3,038.70	1,861.53	4,027.01	3,912.20	114.81	35.076		
17,000.00	7,630.00	7,776.08	7,642.71	137.25	31.85	91.12	-3,038.72	1,861.55	4,095.64	3,980.79	114.85	35.662		
17,100.00	7,630.00	7,778.51	7,645.13	138.61	31.86	91.17	-3,038.74	1,861.57	4,165.54	4,050.66	114.88	36.260		
17,200.00	7,630.00	7,781.21	7,647.83	139.97	31.87	91.22	-3,038.77	1,861.60	4,236.64	4,121.73	114.91	36.870		
17,300.00	7,630.00	7,784.23	7,650.86	141.36	31.87	91.28	-3,038.80	1,861.63	4,308.89	4,193.96	114.93	37.491		
17,400.00	7,630.00	17,400.00	7,608.26	142.75	59.04	90.45	-3,038.67	1,861.16	4,382.22	4,238.93	143.29	30.584		
17,500.00	7,630.00	17,500.00	7,607.89	144.16	59.33	90.44	-3,038.67	1,861.16	4,456.60	4,312.96	143.64	31.026		
17,600.00	7,630.00	17,600.00	7,607.52	145.58	59.62	90.44	-3,038.67	1,861.15	4,531.96	4,387.97	143.99	31.473		
17,700.00	7,630.00	7,801.06	7,667.68	147.01	31.93	91.60	-3,039.02	1,861.81	4,608.27	4,493.26	115.00	40.071		
17,800.00	7,630.00	7,807.05	7,673.67	148.45	31.94	91.72	-3,039.11	1,861.87	4,685.46	4,570.44	115.02	40.735		
17,900.00	7,630.00	7,814.16	7,680.78	149.91	31.97	91.86	-3,039.23	1,861.94	4,763.49	4,648.45	115.04	41.407		
18,000.00	7,630.00	7,822.73	7,689.35	151.37	31.99	92.02	-3,039.39	1,862.03	4,842.33	4,727.26	115.07	42.083		
18,100.00	7,630.00	7,833.25	7,699.87	152.84	32.03	92.23	-3,039.60	1,862.14	4,921.94	4,806.84	115.10	42.763		
18,200.00	7,630.00	7,846.48	7,713.09	154.32	32.07	92.48	-3,039.91	1,862.28	5,002.27	4,887.13	115.14	43.445		
18,300.00	7,630.00	7,863.63	7,730.23	155.81	32.12	92.82	-3,040.35	1,862.45	5,083.29	4,968.09	115.20	44.125		
18,400.00	7,630.00	18,400.00	7,684.07	157.31	64.79	91.92	-3,039.51	1,861.98	5,164.84	5,016.03	148.82	34.706		
18,500.00	7,630.00	18,500.00	7,685.69	158.81	65.10	91.95	-3,039.54	1,861.99	5,247.18	5,098.03	149.14	35.182		
18,600.00	7,630.00	18,600.00	7,687.30	160.32	65.41	91.98	-3,039.57	1,862.01	5,330.12	5,180.65	149.47	35.660		
18,700.00	7,630.00	7,867.35	7,733.96	161.84	32.13	92.89	-3,040.44	1,862.49	5,413.72	5,298.62	115.10	47.036		
18,800.00	7,630.00	7,870.16	7,736.76	163.37	32.14	92.94	-3,040.52	1,862.52	5,497.76	5,382.69	115.08	47.774		
18,900.00	7,630.00	7,872.98	7,739.58	164.90	32.15	93.00	-3,040.59	1,862.54	5,582.34	5,467.28	115.06	48.517		
19,000.00	7,630.00	7,875.82	7,742.42	166.43	32.16	93.05	-3,040.67	1,862.57	5,667.41	5,552.37	115.04	49.264		
19,100.00	7,630.00	7,878.67	7,745.27	167.98	32.17	93.11	-3,040.74	1,862.60	5,752.96	5,637.94	115.02	50.015		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,881.54	7,748.14	169.53	32.18	93.16	-3,040.82	1,862.63	5,838.97	5,723.97	115.01	50.771	
19,300.00	7,630.00	7,884.43	7,751.03	171.08	32.19	93.22	-3,040.90	1,862.66	5,925.42	5,810.43	114.99	51.530	
19,400.00	7,630.00	7,887.33	7,753.93	172.64	32.20	93.28	-3,040.97	1,862.68	6,012.29	5,897.31	114.97	52.294	
19,500.00	7,630.00	7,890.25	7,756.85	174.21	32.21	93.33	-3,041.05	1,862.71	6,099.55	5,984.60	114.96	53.060	
19,518.56	7,630.00	7,890.79	7,757.39	174.50	32.21	93.34	-3,041.07	1,862.72	6,115.80	6,000.84	114.95	53.203	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	109.36	-1,475.01	4,196.93	4,448.84					
100.00	100.00	34.18	34.18	0.13	0.05	109.36	-1,475.00	4,197.00	4,448.69	4,448.50	0.19	N/A		
200.00	200.00	99.91	99.91	0.49	0.16	109.36	-1,474.93	4,197.58	4,449.47	4,448.82	0.65	6,841.226		
300.00	300.00	245.80	245.79	0.85	0.63	109.35	-1,474.45	4,199.01	4,450.36	4,448.87	1.49	2,996.823		
400.00	400.00	517.98	517.59	1.21	1.59	109.49	-1,483.01	4,190.99	4,448.73	4,445.93	2.80	1,588.811		
500.00	499.98	617.24	616.13	1.56	1.97	42.99	-1,492.24	4,183.51	4,443.44	4,439.90	3.53	1,258.288		
600.00	599.84	682.90	680.97	1.92	2.23	43.25	-1,501.02	4,178.15	4,436.38	4,432.23	4.15	1,068.564		
700.00	699.45	786.16	782.19	2.29	2.69	43.72	-1,518.95	4,168.41	4,427.06	4,422.09	4.97	891.338		
800.00	798.70	867.75	861.56	2.67	3.08	44.21	-1,535.75	4,159.84	4,415.50	4,409.77	5.72	771.640		
900.00	897.47	934.19	925.98	3.07	3.41	44.70	-1,550.45	4,152.82	4,402.14	4,395.71	6.43	684.176		
1,000.00	995.62	1,044.71	1,032.98	3.50	3.98	45.47	-1,575.52	4,141.14	4,386.82	4,379.42	7.40	592.809		
1,100.00	1,093.06	1,195.57	1,179.15	3.96	4.78	46.55	-1,608.48	4,123.61	4,368.07	4,359.46	8.61	507.320		
1,200.00	1,189.64	1,255.89	1,237.66	4.46	5.10	47.19	-1,621.33	4,116.60	4,347.36	4,337.99	9.37	464.075		
1,300.00	1,285.27	1,309.16	1,289.39	5.00	5.38	47.84	-1,632.69	4,110.89	4,325.44	4,315.32	10.12	427.532		
1,400.00	1,379.82	1,413.48	1,390.45	5.60	5.95	48.89	-1,655.90	4,099.39	4,301.76	4,290.58	11.18	384.664		
1,500.00	1,473.17	1,473.82	1,448.69	6.25	6.28	49.71	-1,670.09	4,092.49	4,276.52	4,264.46	12.06	354.606		
1,600.00	1,565.21	1,549.35	1,521.47	6.95	6.71	50.71	-1,688.40	4,083.95	4,250.03	4,236.96	13.07	325.158		
1,700.00	1,655.84	1,619.45	1,588.96	7.72	7.11	51.72	-1,705.55	4,075.93	4,222.11	4,208.01	14.10	299.384		
1,800.00	1,744.94	1,674.55	1,642.03	8.55	7.42	52.67	-1,719.11	4,069.87	4,193.20	4,178.09	15.10	277.641		
1,900.00	1,832.39	1,768.54	1,732.63	9.45	7.96	54.01	-1,741.96	4,059.80	4,163.17	4,146.79	16.38	254.112		
2,000.00	1,918.11	1,855.77	1,816.88	10.41	8.45	55.37	-1,762.49	4,050.30	4,131.67	4,113.99	17.68	233.638		
2,100.00	2,001.97	1,965.33	1,922.85	11.45	9.06	57.02	-1,787.47	4,038.09	4,098.82	4,079.65	19.17	213.760		
2,200.00	2,083.88	2,054.52	2,009.25	12.56	9.55	58.55	-1,807.03	4,027.77	4,064.60	4,043.98	20.62	197.138		
2,300.00	2,163.74	2,208.01	2,158.06	13.74	10.39	60.87	-1,839.06	4,008.02	4,028.36	4,005.87	22.49	179.109		
2,400.00	2,241.45	2,269.76	2,218.00	14.99	10.73	62.27	-1,851.40	3,999.86	3,991.45	3,967.52	23.94	166.760		
2,421.22	2,257.65	2,282.33	2,230.21	15.26	10.80	62.56	-1,853.91	3,998.20	3,983.58	3,959.33	24.25	164.276		
2,500.00	2,317.63	2,328.75	2,275.28	16.29	11.05	63.11	-1,863.19	3,992.09	3,954.73	3,929.30	25.43	155.510		
2,600.00	2,393.75	2,376.04	2,321.19	17.62	11.31	63.67	-1,872.68	3,985.91	3,919.33	3,892.44	26.90	145.707		
2,700.00	2,469.88	2,419.01	2,362.94	18.95	11.54	64.17	-1,881.31	3,980.54	3,885.50	3,857.13	28.37	136.937		
2,800.00	2,546.01	2,465.90	2,408.53	20.30	11.79	64.73	-1,890.75	3,974.93	3,853.27	3,823.37	29.90	128.871		
2,900.00	2,622.13	2,516.27	2,457.48	21.65	12.06	65.33	-1,901.05	3,968.97	3,822.57	3,791.10	31.47	121.461		
3,000.00	2,698.26	2,619.84	2,558.06	23.01	12.63	66.58	-1,922.27	3,956.36	3,793.18	3,759.80	33.38	113.652		
3,100.00	2,774.38	2,673.81	2,610.49	24.37	12.92	67.24	-1,933.08	3,949.50	3,764.72	3,729.70	35.02	107.512		
3,200.00	2,850.51	2,724.00	2,659.29	25.74	13.19	67.85	-1,943.09	3,943.41	3,737.93	3,701.28	36.65	101.977		
3,300.00	2,926.64	2,771.36	2,705.40	27.11	13.44	68.43	-1,952.45	3,937.95	3,712.83	3,674.55	38.29	96.977		
3,400.00	3,002.76	2,823.05	2,755.79	28.49	13.71	69.06	-1,962.51	3,932.37	3,689.43	3,649.47	39.95	92.340		
3,500.00	3,078.89	2,893.40	2,824.43	29.87	14.08	69.91	-1,976.02	3,924.96	3,667.54	3,625.80	41.74	87.869		
3,600.00	3,155.02	2,963.80	2,893.14	31.25	14.44	70.77	-1,989.41	3,917.48	3,647.04	3,603.51	43.53	83.774		
3,700.00	3,231.14	3,034.24	2,961.91	32.63	14.81	71.64	-2,002.67	3,909.93	3,627.96	3,582.62	45.34	80.018		
3,800.00	3,307.27	3,075.26	3,001.85	34.01	15.03	72.15	-2,010.82	3,905.35	3,610.67	3,563.69	46.99	76.847		
3,900.00	3,383.39	3,123.19	3,048.45	35.40	15.29	72.75	-2,020.61	3,899.86	3,595.22	3,546.54	48.68	73.861		
4,000.00	3,459.52	3,170.42	3,094.30	36.79	15.55	73.35	-2,030.54	3,894.41	3,581.67	3,531.31	50.36	71.116		
4,100.00	3,535.65	3,221.41	3,143.75	38.18	15.82	73.99	-2,041.49	3,888.57	3,570.05	3,517.98	52.07	68.561		
4,200.00	3,611.77	3,278.68	3,199.43	39.57	16.13	74.71	-2,053.50	3,882.54	3,560.24	3,506.43	53.81	66.162		
4,300.00	3,687.90	3,331.97	3,251.33	40.96	16.41	75.38	-2,064.41	3,877.44	3,552.23	3,496.72	55.51	63.994		
4,400.00	3,764.02	3,386.95	3,304.94	42.35	16.70	76.06	-2,075.63	3,872.54	3,546.08	3,488.87	57.21	61.987		
4,500.00	3,840.15	3,458.67	3,374.81	43.74	17.09	76.96	-2,090.39	3,865.91	3,541.59	3,482.58	59.01	60.018		
4,600.00	3,916.28	3,528.80	3,443.03	45.13	17.46	77.85	-2,105.02	3,858.83	3,538.65	3,477.86	60.79	58.214		
4,700.00	3,992.40	3,602.19	3,531.85	46.53	17.94	79.00	-2,124.09	3,848.94	3,537.22	3,474.53	62.69	56.423		
4,800.00	4,068.53	3,741.08	3,649.82	47.92	18.58	80.52	-2,147.27	3,836.16	3,536.64	3,471.88	64.77	54.607		
4,839.31	4,098.45	3,789.82	3,697.53	48.47	18.84	81.13	-2,155.88	3,831.16	3,536.59	3,471.01	65.58	53.927		
4,900.00	4,144.66	3,833.04	3,739.94	49.32	19.03	81.67	-2,163.18	3,827.16	3,536.94	3,470.34	66.60	53.104		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	3,925.01	3,830.43	50.71	19.47	82.79	-2,177.64	3,819.47	3,538.41	3,469.99	68.42	51.717		
5,100.00	4,296.91	5,100.00	3,979.49	52.11	24.38	84.56	-2,195.79	3,809.67	3,539.07	3,464.50	74.57	47.461		
5,200.00	4,373.03	4,344.34	4,247.20	53.51	21.08	87.61	-2,215.49	3,797.82	3,539.06	3,466.17	72.88	48.559		
5,299.27	4,448.60	4,446.79	4,349.58	54.89	21.37	88.73	-2,218.68	3,795.61	3,538.83	3,464.32	74.51	47.495		
5,300.00	4,449.16	4,447.62	4,350.40	54.90	21.37	88.74	-2,218.70	3,795.59	3,538.83	3,464.31	74.52	47.487		
5,400.00	4,525.29	4,561.64	4,464.40	56.30	21.70	89.96	-2,220.52	3,794.02	3,539.05	3,462.86	76.19	46.453		
5,500.00	4,601.41	4,667.40	4,570.16	57.70	22.00	91.08	-2,220.76	3,793.19	3,539.71	3,461.92	77.79	45.501		
5,600.00	4,677.54	4,767.64	4,670.39	59.10	22.25	92.14	-2,220.26	3,792.25	3,541.04	3,461.68	79.35	44.623		
5,700.00	4,753.66	4,852.71	4,755.45	60.49	22.46	93.04	-2,219.33	3,791.48	3,543.16	3,462.30	80.86	43.819		
5,800.00	4,829.79	4,933.63	4,836.36	61.89	22.66	93.89	-2,218.39	3,790.59	3,546.38	3,464.04	82.34	43.072		
5,900.00	4,905.92	5,007.58	4,910.30	63.29	22.85	94.67	-2,217.51	3,789.56	3,550.70	3,466.91	83.79	42.379		
6,000.00	4,982.04	5,069.33	4,972.04	64.69	23.02	95.32	-2,216.95	3,788.70	3,556.44	3,471.25	85.19	41.747		
6,100.00	5,058.17	5,131.01	5,033.71	66.09	23.19	95.98	-2,216.63	3,787.88	3,563.67	3,477.09	86.57	41.164		
6,200.00	5,134.30	5,192.60	5,095.30	67.49	23.35	96.62	-2,216.55	3,787.12	3,572.38	3,484.45	87.93	40.628		
6,300.00	5,210.42	5,254.12	5,156.81	68.89	23.52	97.27	-2,216.70	3,786.40	3,582.56	3,493.30	89.26	40.136		
6,400.00	5,286.55	5,322.93	5,225.62	70.29	23.72	97.99	-2,217.08	3,785.65	3,594.15	3,503.56	90.60	39.672		
6,500.00	5,362.67	5,396.08	5,298.76	71.69	23.93	98.75	-2,217.55	3,784.90	3,607.00	3,515.07	91.92	39.239		
6,600.00	5,438.80	5,476.32	5,379.00	73.09	24.17	99.59	-2,218.07	3,784.06	3,620.98	3,527.73	93.25	38.832		
6,700.00	5,514.93	5,568.18	5,470.85	74.49	24.44	100.54	-2,218.33	3,783.00	3,635.81	3,541.23	94.58	38.441		
6,800.00	5,591.05	5,649.81	5,552.48	75.89	24.67	101.38	-2,218.34	3,782.00	3,651.56	3,555.70	95.86	38.092		
6,900.00	5,667.18	5,731.86	5,634.51	77.29	24.91	102.22	-2,218.20	3,781.02	3,668.29	3,571.18	97.11	37.773		
7,000.00	5,743.30	5,791.78	5,694.43	78.69	25.08	102.83	-2,218.15	3,780.29	3,686.18	3,587.91	98.28	37.508		
7,100.00	5,819.43	5,884.68	5,787.32	80.09	25.35	103.77	-2,218.34	3,779.06	3,705.40	3,605.88	99.52	37.234		
7,200.00	5,895.56	5,990.74	5,893.36	81.49	25.65	104.83	-2,217.43	3,777.51	3,724.78	3,624.01	100.77	36.965		
7,300.00	5,971.68	6,063.69	5,966.31	82.90	25.85	105.56	-2,216.60	3,776.43	3,745.04	3,643.15	101.89	36.756		
7,400.00	6,047.81	6,133.09	6,035.70	84.30	26.05	106.25	-2,215.95	3,775.50	3,766.49	3,663.51	102.98	36.575		
7,500.00	6,123.94	6,212.95	6,115.55	85.70	26.27	107.03	-2,215.20	3,774.50	3,788.95	3,684.87	104.08	36.405		
7,600.00	6,200.06	6,286.01	6,188.60	87.10	26.48	107.74	-2,214.49	3,773.47	3,812.38	3,707.25	105.13	36.264		
7,700.00	6,276.19	6,356.03	6,258.61	88.50	26.68	108.43	-2,213.88	3,772.28	3,836.86	3,730.71	106.15	36.146		
7,800.00	6,352.31	6,426.10	6,328.66	89.90	26.89	109.10	-2,213.38	3,771.03	3,862.42	3,755.28	107.14	36.049		
7,900.00	6,428.44	6,498.28	6,400.82	91.31	27.10	109.80	-2,212.93	3,769.63	3,889.01	3,780.88	108.12	35.968		
8,000.00	6,504.57	6,561.31	6,463.85	92.71	27.29	110.40	-2,212.66	3,768.51	3,916.67	3,807.62	109.05	35.916		
8,100.00	6,580.69	6,631.72	6,534.24	94.11	27.50	111.06	-2,212.56	3,767.54	3,945.43	3,835.45	109.98	35.873		
8,200.00	6,656.82	6,703.68	6,606.20	95.51	27.72	111.73	-2,212.49	3,766.74	3,975.09	3,864.19	110.90	35.843		
8,300.00	6,732.95	6,766.39	6,668.91	96.91	27.91	112.30	-2,212.58	3,766.11	4,005.79	3,894.02	111.76	35.841		
8,400.00	6,809.07	6,831.61	6,734.13	98.32	28.11	112.90	-2,212.87	3,765.43	4,037.53	3,924.92	112.62	35.852		
8,500.00	6,885.20	6,897.45	6,799.96	99.72	28.32	113.49	-2,213.31	3,764.65	4,070.28	3,956.83	113.45	35.877		
8,600.00	6,961.32	6,963.52	6,866.02	101.12	28.53	114.09	-2,213.88	3,763.75	4,103.98	3,989.72	114.26	35.917		
8,700.00	7,037.45	7,026.87	6,929.36	102.52	28.74	114.65	-2,214.57	3,762.73	4,138.66	4,023.61	115.05	35.974		
8,732.15	7,061.92	7,047.08	6,949.57	102.97	28.80	114.83	-2,214.82	3,762.34	4,150.01	4,034.72	115.29	35.996		
8,750.00	7,075.57	7,058.33	6,960.81	103.22	28.84	112.84	-2,214.96	3,762.12	4,156.10	4,040.68	115.43	36.006		
8,800.00	7,114.27	7,095.42	6,997.89	103.91	28.96	107.04	-2,215.45	3,761.32	4,170.52	4,054.68	115.84	36.003		
8,850.00	7,153.47	7,133.56	7,036.01	104.58	29.09	100.99	-2,215.93	3,760.40	4,180.96	4,064.70	116.26	35.962		
8,900.00	7,192.85	7,169.62	7,072.06	105.21	29.20	94.83	-2,216.38	3,759.44	4,187.36	4,070.69	116.67	35.891		
8,950.00	7,232.12	7,202.51	7,104.94	105.80	29.31	88.77	-2,216.82	3,758.53	4,189.73	4,072.67	117.06	35.792		
9,000.00	7,270.99	7,235.09	7,137.49	106.35	29.42	83.04	-2,217.30	3,757.60	4,188.08	4,070.64	117.44	35.662		
9,050.00	7,309.16	7,267.75	7,170.14	106.85	29.53	77.78	-2,217.81	3,756.65	4,182.41	4,064.61	117.80	35.504		
9,100.00	7,346.32	7,300.14	7,202.51	107.30	29.64	73.10	-2,218.35	3,755.67	4,172.77	4,054.63	118.14	35.320		
9,150.00	7,382.22	7,331.47	7,233.82	107.69	29.75	69.06	-2,218.90	3,754.70	4,159.23	4,040.77	118.46	35.111		
9,200.00	7,416.56	7,361.52	7,263.85	108.02	29.85	65.66	-2,219.45	3,753.75	4,141.88	4,023.13	118.75	34.880		
9,250.00	7,449.09	7,390.05	7,292.36	108.29	29.94	62.89	-2,219.99	3,752.81	4,120.84	4,001.84	119.00	34.628		
9,300.00	7,479.56	9,300.00	7,502.29	108.51	35.56	62.97	-2,219.84	3,747.35	4,095.73	3,970.15	125.58	32.613		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,350.00	7,507.74	7,659.17	7,561.35	108.68	30.77	62.08	-2,218.36	3,746.69	4,066.38	3,946.09	120.30	33.802		
9,400.00	7,533.41	7,680.69	7,582.86	108.79	30.83	61.40	-2,217.77	3,746.53	4,033.88	3,913.43	120.45	33.489		
9,450.00	7,556.39	7,699.85	7,602.01	108.86	30.89	61.42	-2,217.27	3,746.40	3,998.52	3,877.95	120.58	33.162		
9,500.00	7,576.48	7,716.48	7,618.63	108.88	30.93	62.19	-2,216.84	3,746.29	3,960.56	3,839.89	120.67	32.822		
9,550.00	7,593.55	7,733.21	7,635.36	108.86	30.98	63.91	-2,216.42	3,746.18	3,920.23	3,799.49	120.74	32.469		
9,600.00	7,607.46	7,747.66	7,649.80	108.80	31.02	66.79	-2,216.05	3,746.10	3,877.80	3,757.02	120.78	32.106		
9,650.00	7,618.11	7,758.36	7,660.50	108.71	31.05	71.14	-2,215.77	3,746.06	3,833.57	3,712.77	120.80	31.735		
9,700.00	7,625.41	7,765.23	7,667.37	108.59	31.07	77.54	-2,215.60	3,746.04	3,787.84	3,667.05	120.79	31.358		
9,750.00	7,629.30	7,768.21	7,670.35	108.45	31.08	86.83	-2,215.52	3,746.03	3,740.94	3,620.17	120.77	30.976		
9,781.81	7,630.00	7,768.07	7,670.21	108.35	31.08	94.71	-2,215.52	3,746.03	3,710.65	3,589.90	120.75	30.731		
9,800.00	7,630.00	7,767.53	7,669.67	108.29	31.07	94.68	-2,215.54	3,746.03	3,693.23	3,572.50	120.73	30.591		
9,900.00	7,630.00	7,764.61	7,666.75	107.97	31.07	94.52	-2,215.61	3,746.04	3,597.68	3,477.04	120.64	29.821		
10,000.00	7,630.00	7,761.68	7,663.82	107.67	31.06	94.37	-2,215.69	3,746.05	3,502.38	3,381.83	120.55	29.054		
10,100.00	7,630.00	7,758.77	7,660.91	107.38	31.05	94.21	-2,215.76	3,746.06	3,407.34	3,286.89	120.44	28.290		
10,200.00	7,630.00	7,755.86	7,658.00	107.10	31.04	94.06	-2,215.84	3,746.07	3,312.59	3,192.25	120.33	27.528		
10,300.00	7,630.00	7,752.95	7,655.10	106.84	31.03	93.90	-2,215.91	3,746.08	3,218.15	3,097.94	120.21	26.770		
10,400.00	7,630.00	7,750.06	7,652.20	106.59	31.03	93.75	-2,215.99	3,746.09	3,124.06	3,003.98	120.08	26.016		
10,500.00	7,630.00	7,747.17	7,649.31	106.35	31.02	93.59	-2,216.06	3,746.11	3,030.35	2,910.41	119.94	25.266		
10,600.00	7,630.00	7,744.28	7,646.43	106.13	31.01	93.44	-2,216.13	3,746.12	2,937.04	2,817.27	119.78	24.521		
10,700.00	7,630.00	7,741.40	7,643.55	105.92	31.00	93.29	-2,216.21	3,746.13	2,844.19	2,724.59	119.61	23.780		
10,800.00	7,630.00	7,738.53	7,640.68	105.72	30.99	93.13	-2,216.28	3,746.15	2,751.84	2,632.43	119.41	23.045		
10,900.00	7,630.00	7,735.66	7,637.81	105.54	30.99	92.98	-2,216.35	3,746.17	2,660.04	2,540.84	119.20	22.315		
11,000.00	7,630.00	7,732.80	7,634.95	105.37	30.98	92.83	-2,216.43	3,746.18	2,568.85	2,449.88	118.97	21.593		
11,100.00	7,630.00	7,729.95	7,632.10	105.21	30.97	92.68	-2,216.50	3,746.20	2,478.34	2,359.63	118.71	20.878		
11,200.00	7,630.00	7,727.10	7,629.25	105.06	30.96	92.53	-2,216.57	3,746.22	2,388.58	2,270.16	118.42	20.171		
11,300.00	7,630.00	7,724.25	7,626.41	104.93	30.95	92.37	-2,216.64	3,746.23	2,299.66	2,181.57	118.09	19.474		
11,400.00	7,630.00	7,721.42	7,623.57	104.82	30.95	92.22	-2,216.71	3,746.25	2,211.68	2,093.96	117.72	18.787		
11,500.00	7,630.00	7,718.97	7,621.12	104.72	30.94	92.09	-2,216.78	3,746.27	2,124.77	2,007.45	117.32	18.112		
11,600.00	7,630.00	7,716.57	7,618.73	104.63	30.93	91.96	-2,216.84	3,746.29	2,039.05	1,922.20	116.86	17.449		
11,700.00	7,630.00	7,714.16	7,616.31	104.55	30.93	91.83	-2,216.90	3,746.30	1,954.69	1,838.35	116.33	16.802		
11,800.00	7,630.00	7,711.72	7,613.88	104.50	30.92	91.70	-2,216.96	3,746.32	1,871.86	1,756.12	115.74	16.173		
11,900.00	7,630.00	7,709.27	7,611.43	104.45	30.91	91.57	-2,217.02	3,746.34	1,790.79	1,675.72	115.07	15.562		
12,000.00	7,630.00	7,706.81	7,608.97	104.43	30.90	91.44	-2,217.09	3,746.35	1,711.71	1,597.40	114.31	14.975		
12,100.00	7,630.00	7,704.32	7,606.48	104.42	30.90	91.31	-2,217.15	3,746.37	1,634.92	1,521.49	113.44	14.413		
12,200.00	7,630.00	7,701.82	7,603.98	104.42	30.89	91.18	-2,217.22	3,746.39	1,560.77	1,448.32	112.45	13.880		
12,300.00	7,630.00	7,699.30	7,601.46	104.45	30.88	91.04	-2,217.28	3,746.40	1,489.63	1,378.30	111.33	13.380		
12,400.00	7,630.00	7,696.76	7,598.93	104.49	30.88	90.91	-2,217.35	3,746.42	1,421.96	1,311.90	110.07	12.919		
12,500.00	7,630.00	7,694.21	7,596.37	104.55	30.87	90.77	-2,217.42	3,746.44	1,358.29	1,249.64	108.65	12.502		
12,600.00	7,630.00	7,691.63	7,593.80	104.63	30.86	90.63	-2,217.48	3,746.46	1,299.19	1,192.12	107.08	12.133		
12,700.00	7,630.00	7,689.04	7,591.20	104.73	30.86	90.49	-2,217.55	3,746.48	1,245.33	1,139.97	105.36	11.819		
12,800.00	7,630.00	7,686.43	7,588.59	104.85	30.85	90.35	-2,217.62	3,746.49	1,197.41	1,093.87	103.54	11.565		
12,900.00	7,630.00	7,683.80	7,585.96	104.99	30.84	90.21	-2,217.69	3,746.51	1,156.16	1,054.50	101.66	11.373		
13,000.00	7,630.00	7,681.14	7,583.31	105.15	30.83	90.07	-2,217.76	3,746.53	1,122.32	1,022.51	99.81	11.245		
13,100.00	7,630.00	7,678.47	7,580.64	105.34	30.83	89.93	-2,217.83	3,746.55	1,096.58	998.48	98.10	11.178		
13,200.00	7,630.00	7,675.78	7,577.95	105.56	30.82	89.78	-2,217.91	3,746.57	1,079.52	982.84	96.68	11.166 SF		
13,300.00	7,630.00	7,673.07	7,575.24	105.80	30.81	89.64	-2,217.98	3,746.59	1,071.56	975.88	95.67	11.200		
13,335.76	7,630.00	7,672.10	7,574.27	105.89	30.81	89.59	-2,218.01	3,746.60	1,070.96	975.52	95.44	11.222 CC, ES		
13,400.00	7,630.00	7,670.34	7,572.52	106.06	30.80	89.49	-2,218.05	3,746.61	1,072.88	977.70	95.18	11.272		
13,500.00	7,630.00	7,667.59	7,569.77	106.36	30.80	89.35	-2,218.13	3,746.63	1,083.47	988.22	95.25	11.374		
13,600.00	7,630.00	7,664.82	7,567.00	106.68	30.79	89.20	-2,218.20	3,746.65	1,103.05	1,007.20	95.86	11.507		
13,700.00	7,630.00	7,662.03	7,564.20	107.03	30.78	89.05	-2,218.28	3,746.67	1,131.16	1,034.26	96.90	11.674		
13,800.00	7,630.00	7,659.21	7,561.39	107.42	30.77	88.90	-2,218.36	3,746.69	1,167.18	1,068.92	98.26	11.879		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,900.00	7,630.00	7,656.38	7,558.56	107.83	30.76	88.75	-2,218.44	3,746.71	1,210.40	1,110.60	99.80	12.128		
14,000.00	7,630.00	7,653.52	7,555.70	108.28	30.76	88.59	-2,218.52	3,746.73	1,260.09	1,158.66	101.43	12.423		
14,100.00	7,630.00	7,650.64	7,552.82	108.77	30.75	88.44	-2,218.60	3,746.75	1,315.51	1,212.46	103.05	12.766		
14,200.00	7,630.00	7,647.74	7,549.93	109.29	30.74	88.28	-2,218.68	3,746.77	1,375.97	1,271.37	104.60	13.154		
14,300.00	7,630.00	7,644.82	7,547.00	109.84	30.73	88.13	-2,218.76	3,746.79	1,440.83	1,334.77	106.06	13.585		
14,400.00	7,630.00	7,641.87	7,544.06	110.43	30.72	87.97	-2,218.84	3,746.81	1,509.53	1,402.13	107.40	14.055		
14,500.00	7,630.00	7,638.91	7,541.09	111.06	30.71	87.81	-2,218.93	3,746.84	1,581.57	1,472.95	108.62	14.560		
14,600.00	7,630.00	7,635.91	7,538.10	111.72	30.71	87.65	-2,219.01	3,746.86	1,656.51	1,546.78	109.73	15.097		
14,700.00	7,630.00	7,632.90	7,535.09	112.42	30.70	87.49	-2,219.10	3,746.88	1,733.97	1,623.25	110.72	15.661		
14,800.00	7,630.00	7,629.86	7,532.05	113.16	30.69	87.33	-2,219.18	3,746.90	1,813.64	1,702.03	111.61	16.250		
14,900.00	7,630.00	7,626.93	7,529.12	113.94	30.68	87.17	-2,219.27	3,746.92	1,895.23	1,782.82	112.40	16.861		
15,000.00	7,630.00	7,624.26	7,526.45	114.75	30.67	87.03	-2,219.34	3,746.95	1,978.50	1,865.38	113.12	17.490		
15,100.00	7,630.00	7,621.66	7,523.85	115.60	30.67	86.89	-2,219.42	3,746.97	2,063.26	1,949.50	113.76	18.137		
15,200.00	7,630.00	7,619.13	7,521.32	116.48	30.66	86.76	-2,219.48	3,746.99	2,149.33	2,034.99	114.34	18.798		
15,300.00	7,630.00	7,616.67	7,518.87	117.40	30.65	86.62	-2,219.55	3,747.01	2,236.55	2,121.69	114.86	19.472		
15,400.00	7,630.00	7,614.28	7,516.48	118.35	30.64	86.50	-2,219.62	3,747.03	2,324.80	2,209.47	115.33	20.158		
15,500.00	7,630.00	7,611.96	7,514.15	119.34	30.64	86.37	-2,219.68	3,747.06	2,413.96	2,298.20	115.76	20.854		
15,600.00	7,630.00	7,609.69	7,511.89	120.35	30.63	86.25	-2,219.74	3,747.08	2,503.94	2,387.80	116.14	21.559		
15,700.00	7,630.00	7,607.48	7,509.68	121.40	30.63	86.13	-2,219.79	3,747.11	2,594.65	2,478.16	116.49	22.273		
15,800.00	7,630.00	7,605.33	7,507.53	122.48	30.62	86.02	-2,219.85	3,747.13	2,686.02	2,569.20	116.81	22.994		
15,900.00	7,630.00	7,603.24	7,505.44	123.58	30.61	85.91	-2,219.90	3,747.15	2,777.98	2,660.87	117.11	23.722		
16,000.00	7,630.00	7,601.19	7,503.40	124.71	30.61	85.80	-2,219.95	3,747.18	2,870.48	2,753.10	117.38	24.455		
16,100.00	7,630.00	7,599.20	7,501.40	125.87	30.60	85.69	-2,220.00	3,747.20	2,963.46	2,845.83	117.62	25.195		
16,200.00	7,630.00	7,597.26	7,499.46	127.05	30.60	85.59	-2,220.05	3,747.23	3,056.88	2,939.03	117.85	25.938		
16,300.00	7,630.00	7,595.36	7,497.57	128.26	30.59	85.49	-2,220.09	3,747.25	3,150.71	3,032.65	118.06	26.687		
16,400.00	7,630.00	7,593.51	7,495.71	129.48	30.58	85.39	-2,220.14	3,747.28	3,244.90	3,126.64	118.26	27.439		
16,500.00	7,630.00	7,591.70	7,493.91	130.73	30.58	85.29	-2,220.18	3,747.30	3,339.43	3,220.99	118.44	28.195		
16,600.00	7,630.00	7,589.94	7,492.14	132.00	30.57	85.20	-2,220.22	3,747.33	3,434.27	3,315.66	118.61	28.955		
16,700.00	7,630.00	7,588.21	7,490.42	133.29	30.57	85.11	-2,220.26	3,747.35	3,529.39	3,410.63	118.77	29.717		
16,800.00	7,630.00	7,586.52	7,488.73	134.59	30.56	85.02	-2,220.30	3,747.38	3,624.78	3,505.86	118.91	30.482		
16,900.00	7,630.00	7,584.88	7,487.08	135.91	30.56	84.93	-2,220.33	3,747.40	3,720.40	3,601.35	119.05	31.250		
17,000.00	7,630.00	7,583.27	7,485.47	137.25	30.55	84.85	-2,220.37	3,747.42	3,816.25	3,697.07	119.18	32.020		
17,100.00	7,630.00	7,581.69	7,483.90	138.61	30.55	84.76	-2,220.40	3,747.45	3,912.31	3,793.00	119.31	32.792		
17,200.00	7,630.00	7,580.15	7,482.36	139.97	30.55	84.68	-2,220.44	3,747.47	4,008.56	3,889.13	119.42	33.566		
17,300.00	7,630.00	7,578.64	7,480.85	141.36	30.54	84.60	-2,220.47	3,747.50	4,104.98	3,985.45	119.53	34.342		
17,400.00	7,630.00	7,577.16	7,479.37	142.75	30.54	84.52	-2,220.50	3,747.52	4,201.57	4,081.94	119.64	35.120		
17,500.00	7,630.00	7,575.72	7,477.93	144.16	30.53	84.44	-2,220.53	3,747.54	4,298.32	4,178.59	119.74	35.899		
17,600.00	7,630.00	7,574.30	7,476.51	145.58	30.53	84.37	-2,220.56	3,747.57	4,395.22	4,275.39	119.83	36.679		
17,700.00	7,630.00	7,572.92	7,475.13	147.01	30.53	84.30	-2,220.59	3,747.59	4,492.24	4,372.32	119.92	37.460		
17,800.00	7,630.00	7,571.56	7,473.77	148.45	30.52	84.22	-2,220.61	3,747.62	4,589.40	4,469.39	120.01	38.243		
17,900.00	7,630.00	7,570.23	7,472.44	149.91	30.52	84.15	-2,220.64	3,747.64	4,686.67	4,566.59	120.09	39.027		
18,000.00	7,630.00	7,568.93	7,471.14	151.37	30.51	84.08	-2,220.67	3,747.66	4,784.06	4,663.89	120.17	39.812		
18,100.00	7,630.00	7,567.65	7,469.86	152.84	30.51	84.02	-2,220.69	3,747.68	4,881.55	4,761.31	120.24	40.597		
18,200.00	7,630.00	7,566.40	7,468.61	154.32	30.51	83.95	-2,220.72	3,747.71	4,979.14	4,858.83	120.32	41.384		
18,300.00	7,630.00	7,565.17	7,467.38	155.81	30.50	83.88	-2,220.74	3,747.73	5,076.83	4,956.44	120.39	42.171		
18,400.00	7,630.00	7,563.96	7,466.18	157.31	30.50	83.82	-2,220.76	3,747.75	5,174.60	5,054.14	120.45	42.959		
18,500.00	7,630.00	7,562.78	7,465.00	158.81	30.50	83.76	-2,220.79	3,747.77	5,272.45	5,151.93	120.52	43.747		
18,600.00	7,630.00	7,561.62	7,463.84	160.32	30.49	83.70	-2,220.81	3,747.80	5,370.39	5,249.80	120.58	44.536		
18,700.00	7,630.00	7,560.49	7,462.70	161.84	30.49	83.64	-2,220.83	3,747.82	5,468.39	5,347.75	120.65	45.326		
18,800.00	7,630.00	7,559.37	7,461.59	163.37	30.49	83.58	-2,220.85	3,747.84	5,566.47	5,445.77	120.71	46.116		
18,900.00	7,630.00	7,558.27	7,460.49	164.90	30.48	83.52	-2,220.87	3,747.86	5,664.62	5,543.85	120.77	46.906		
19,000.00	7,630.00	7,557.20	7,459.41	166.43	30.48	83.46	-2,220.89	3,747.88	5,762.83	5,642.00	120.82	47.697		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,100.00	7,630.00	7,556.14	7,458.36	167.98	30.48	83.41	-2,220.91	3,747.90	5,861.09	5,740.22	120.88	48.488	
19,200.00	7,630.00	7,555.10	7,457.32	169.53	30.47	83.35	-2,220.93	3,747.92	5,959.42	5,838.49	120.93	49.279	
19,300.00	7,630.00	7,554.08	7,456.30	171.08	30.47	83.30	-2,220.94	3,747.94	6,057.80	5,936.82	120.99	50.071	
19,400.00	7,630.00	7,553.08	7,455.30	172.64	30.47	83.24	-2,220.96	3,747.97	6,156.23	6,035.20	121.04	50.862	
19,500.00	7,630.00	7,552.10	7,454.32	174.21	30.46	83.19	-2,220.98	3,747.99	6,254.72	6,133.63	121.09	51.654	
19,518.56	7,630.00	7,551.92	7,454.14	174.50	30.46	83.18	-2,220.98	3,747.99	6,273.00	6,151.90	121.10	51.801	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	124.08	-3,055.97	4,516.44	5,453.36					
100.00	100.00	49.85	49.85	0.13	0.08	124.08	-3,056.06	4,516.41	5,453.21	5,452.99	0.21	N/A		
200.00	200.00	150.90	150.90	0.49	0.36	124.09	-3,056.65	4,516.16	5,453.33	5,452.48	0.85	6,418.422		
300.00	300.00	208.23	208.23	0.85	0.56	124.09	-3,057.02	4,516.08	5,453.67	5,452.26	1.41	3,862.090		
400.00	400.00	246.64	246.64	1.21	0.70	124.10	-3,057.37	4,516.51	5,455.09	5,453.19	1.91	2,861.164		
500.00	499.98	273.00	272.98	1.56	0.79	57.35	-3,057.66	4,517.06	5,456.74	5,454.39	2.35	2,319.209		
600.00	599.84	317.37	317.33	1.92	0.95	57.34	-3,058.22	4,518.59	5,457.63	5,454.77	2.86	1,907.707		
700.00	699.45	364.00	363.88	2.29	1.11	57.37	-3,058.87	4,521.07	5,457.93	5,454.55	3.38	1,613.398		
800.00	798.70	364.00	363.88	2.67	1.11	57.37	-3,058.87	4,521.07	5,457.59	5,453.84	3.75	1,453.799		
900.00	897.47	406.71	406.47	3.07	1.27	57.44	-3,059.62	4,524.23	5,456.57	5,452.28	4.29	1,271.153		
1,000.00	995.62	455.00	454.51	3.50	1.45	57.53	-3,060.78	4,528.93	5,455.29	5,450.42	4.87	1,120.318		
1,100.00	1,093.06	455.00	454.51	3.96	1.45	57.56	-3,060.78	4,528.93	5,453.16	5,447.86	5.30	1,029.008		
1,200.00	1,189.64	779.58	775.74	4.46	2.72	58.14	-3,054.88	4,564.86	5,445.72	5,438.76	6.97	781.857		
1,300.00	1,285.27	824.00	819.44	5.00	2.88	58.35	-3,054.63	4,572.60	5,440.29	5,432.67	7.63	713.320		
1,400.00	1,379.82	824.00	819.44	5.60	2.88	58.50	-3,054.63	4,572.60	5,431.44	5,423.28	8.16	665.312		
1,500.00	1,473.17	824.00	819.44	6.25	2.88	58.65	-3,054.63	4,572.60	5,422.61	5,413.86	8.74	620.152		
1,600.00	1,565.21	824.00	819.44	6.95	2.88	58.80	-3,054.63	4,572.60	5,413.79	5,404.42	9.37	577.701		
1,700.00	1,655.84	824.00	819.44	7.72	2.88	58.95	-3,054.63	4,572.60	5,405.00	5,394.95	10.05	537.861		
1,800.00	1,744.94	824.00	819.44	8.55	2.88	59.10	-3,054.63	4,572.60	5,396.26	5,385.48	10.78	500.556		
1,900.00	1,832.39	824.00	819.44	9.45	2.88	59.25	-3,054.63	4,572.60	5,387.57	5,376.00	11.57	465.712		
2,000.00	1,918.11	824.00	819.44	10.41	2.88	59.40	-3,054.63	4,572.60	5,378.94	5,366.53	12.42	433.253		
2,100.00	2,001.97	824.00	819.44	11.45	2.88	59.55	-3,054.63	4,572.60	5,370.39	5,357.07	13.32	403.094		
2,200.00	2,083.88	866.55	860.80	12.56	3.09	59.89	-3,056.94	4,582.33	5,361.48	5,347.01	14.47	370.571		
2,300.00	2,163.74	919.00	911.53	13.74	3.35	60.30	-3,059.67	4,595.35	5,352.21	5,336.48	15.73	340.269		
2,400.00	2,241.45	919.00	911.53	14.99	3.35	60.48	-3,059.67	4,595.35	5,342.38	5,325.55	16.83	317.429		
2,421.22	2,257.65	919.00	911.53	15.26	3.35	60.51	-3,059.67	4,595.35	5,340.32	5,323.24	17.07	312.815		
2,500.00	2,317.63	956.92	948.02	16.29	3.55	60.71	-3,061.73	4,605.45	5,332.78	5,314.62	18.16	293.680		
2,600.00	2,393.75	1,013.00	1,001.65	17.62	3.85	60.99	-3,065.29	4,621.44	5,324.89	5,305.30	19.59	271.852		
2,700.00	2,469.88	1,013.00	1,001.65	18.95	3.85	60.99	-3,065.29	4,621.44	5,317.88	5,297.10	20.77	256.015		
2,800.00	2,546.01	1,013.00	1,001.65	20.30	3.85	60.99	-3,065.29	4,621.44	5,312.73	5,290.77	21.96	241.899		
2,900.00	2,622.13	1,059.98	1,046.27	21.65	4.13	61.22	-3,068.89	4,635.70	5,308.74	5,285.35	23.40	226.893		
3,000.00	2,698.26	1,107.00	1,090.64	23.01	4.42	61.46	-3,073.23	4,650.65	5,306.53	5,281.68	24.85	213.580		
3,100.00	2,774.38	1,107.00	1,090.64	24.37	4.42	61.46	-3,073.23	4,650.65	5,305.47	5,279.41	26.05	203.658		
3,127.20	2,795.09	1,126.22	1,108.69	24.75	4.54	61.56	-3,075.13	4,656.96	5,305.44	5,278.95	26.49	200.307		
3,200.00	2,850.51	1,160.85	1,141.14	25.74	4.77	61.73	-3,078.50	4,668.57	5,305.78	5,278.22	27.56	192.520		
3,300.00	2,926.64	1,214.00	1,190.73	27.11	5.12	61.99	-3,083.48	4,687.05	5,307.19	5,278.11	29.07	182.557		
3,400.00	3,002.76	1,278.43	1,250.68	28.49	5.57	62.30	-3,089.58	4,709.86	5,309.49	5,278.83	30.67	173.129		
3,500.00	3,078.89	1,368.49	1,334.44	29.87	6.21	62.73	-3,098.39	4,741.73	5,312.39	5,279.96	32.44	163.777		
3,600.00	3,155.02	1,466.56	1,425.54	31.25	6.93	63.20	-3,107.19	4,776.96	5,315.51	5,281.23	34.28	155.062		
3,700.00	3,231.14	1,534.49	1,488.55	32.63	7.43	63.51	-3,112.97	4,801.69	5,319.03	5,283.08	35.95	147.960		
3,800.00	3,307.27	1,591.00	1,540.83	34.01	7.86	63.78	-3,117.97	4,822.56	5,323.47	5,285.92	37.55	141.757		
3,900.00	3,383.39	1,671.92	1,615.57	35.40	8.48	64.15	-3,125.31	4,852.70	5,328.63	5,289.29	39.34	135.467		
4,000.00	3,459.52	1,811.04	1,744.30	36.79	9.56	64.79	-3,137.24	4,904.08	5,333.47	5,291.94	41.54	128.406		
4,100.00	3,535.65	1,874.00	1,802.53	38.18	10.04	65.08	-3,142.71	4,927.36	5,338.85	5,295.63	43.22	123.522		
4,200.00	3,611.77	4,200.00	1,937.44	39.57	27.74	65.76	-3,155.91	4,980.40	5,344.64	5,287.23	57.41	93.099		
4,300.00	3,687.90	2,158.00	2,066.63	40.96	12.20	66.42	-3,167.52	5,028.76	5,349.00	5,301.27	47.73	112.062		
4,400.00	3,764.02	2,206.56	2,111.88	42.35	12.58	66.64	-3,171.41	5,045.97	5,354.09	5,304.74	49.35	108.491		
4,500.00	3,840.15	2,252.00	2,153.97	43.74	12.93	66.85	-3,175.21	5,062.65	5,360.41	5,309.47	50.95	105.219		
4,600.00	3,916.28	2,370.59	2,263.85	45.13	13.85	67.39	-3,185.20	5,106.11	5,367.15	5,314.05	53.09	101.087		
4,700.00	3,992.40	2,442.31	2,330.33	46.53	14.41	67.72	-3,191.19	5,132.37	5,374.15	5,319.25	54.90	97.887		
4,800.00	4,068.53	2,555.20	2,435.14	47.92	15.29	68.24	-3,200.65	5,173.22	5,381.18	5,324.15	57.03	94.358		
4,900.00	4,144.66	2,600.00	2,476.66	49.32	15.64	68.44	-3,204.52	5,189.58	5,389.01	5,330.36	58.64	91.895		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	2,651.40	2,524.11	50.71	16.05	68.67	-3,209.12	5,208.80	5,397.90	5,337.60	60.31	89.504		
5,100.00	4,296.91	2,716.00	2,583.56	52.11	16.58	68.96	-3,214.95	5,233.41	5,407.63	5,345.54	62.09	87.098		
5,200.00	4,373.03	2,797.88	2,658.76	53.51	17.25	69.32	-3,222.39	5,264.92	5,417.98	5,353.97	64.01	84.636		
5,300.00	4,449.16	2,930.98	2,781.27	54.90	18.33	69.91	-3,234.41	5,315.54	5,428.30	5,361.93	66.38	81.781		
5,400.00	4,525.29	2,996.43	2,841.61	56.30	18.86	70.20	-3,240.41	5,340.20	5,438.84	5,370.66	68.18	79.774		
5,500.00	4,601.41	3,070.95	2,910.19	57.70	19.47	70.53	-3,247.42	5,368.47	5,450.04	5,379.97	70.06	77.788		
5,600.00	4,677.54	3,135.78	2,969.71	59.10	20.01	70.82	-3,253.47	5,393.44	5,461.84	5,389.97	71.87	75.997		
5,700.00	4,753.66	3,196.00	3,024.80	60.49	20.51	71.07	-3,259.16	5,417.11	5,474.48	5,400.84	73.64	74.342		
5,800.00	4,829.79	3,345.69	3,161.95	61.89	21.76	71.71	-3,272.20	5,475.65	5,486.50	5,410.28	76.22	71.982		
5,900.00	4,905.92	3,433.06	3,242.19	63.29	22.48	72.09	-3,280.37	5,509.23	5,499.16	5,420.92	78.24	70.283		
6,000.00	4,982.04	3,550.79	3,350.69	64.69	23.44	72.60	-3,291.43	5,553.56	5,511.70	5,431.16	80.54	68.435		
6,100.00	5,058.17	3,601.54	3,397.37	66.09	23.87	72.82	-3,295.96	5,572.96	5,524.62	5,442.38	82.24	67.174		
6,200.00	5,134.30	3,636.91	3,429.72	67.49	24.17	72.97	-3,299.29	5,586.85	5,538.71	5,454.91	83.80	66.095		
6,300.00	5,210.42	3,800.59	3,579.31	68.89	25.55	73.65	-3,314.62	5,651.48	5,553.35	5,466.78	86.57	64.150		
6,400.00	5,286.55	3,881.07	3,653.39	70.29	26.21	74.00	-3,322.36	5,681.95	5,567.38	5,478.83	88.55	62.873		
6,500.00	5,362.67	3,990.09	3,753.98	71.69	27.09	74.47	-3,333.19	5,722.59	5,581.67	5,490.87	90.80	61.475		
6,600.00	5,438.80	4,110.38	3,864.88	73.09	28.07	74.98	-3,344.09	5,767.88	5,595.76	5,502.60	93.15	60.070		
6,700.00	5,514.93	4,200.00	3,976.26	74.49	28.80	75.50	-3,354.55	5,812.59	5,609.52	5,498.08	111.44	50.336		
6,800.00	5,591.05	4,302.11	4,042.20	75.89	29.61	75.80	-3,360.68	5,838.89	5,623.52	5,526.09	97.43	57.720		
6,900.00	5,667.18	4,366.60	4,101.81	77.29	30.12	76.07	-3,366.70	5,862.76	5,638.36	5,539.09	99.27	56.798		
7,000.00	5,743.30	4,444.81	4,173.94	78.69	30.76	76.40	-3,374.01	5,892.09	5,653.78	5,552.53	101.25	55.840		
7,100.00	5,819.43	4,518.00	4,241.13	80.09	31.37	76.70	-3,380.37	5,920.39	5,669.58	5,566.39	103.19	54.946		
7,200.00	5,895.56	4,605.72	4,311.69	81.49	31.94	77.02	-3,386.72	5,948.70	5,685.45	5,582.30	105.14	54.052		
7,300.00	5,971.68	4,688.09	4,384.05	82.90	32.58	77.35	-3,393.07	5,977.02	5,701.32	5,598.21	107.10	53.158		
7,400.00	6,047.81	4,764.83	4,456.79	84.30	33.19	77.67	-3,399.41	6,005.34	5,717.23	5,614.12	109.07	52.264		
7,500.00	6,123.94	4,841.85	4,529.52	85.70	33.85	78.00	-3,405.75	6,033.66	5,733.14	5,630.03	111.04	51.370		
7,600.00	6,200.06	4,918.97	4,602.26	87.10	34.46	78.32	-3,412.08	6,061.98	5,749.05	5,645.94	113.01	50.476		
7,700.00	6,276.19	5,000.00	4,679.00	88.50	35.02	78.64	-3,418.41	6,090.30	5,764.96	5,661.85	115.00	49.582		
7,800.00	6,352.31	5,080.00	4,754.00	89.90	35.58	78.96	-3,424.74	6,118.62	5,780.87	5,677.76	117.00	48.688		
7,900.00	6,428.44	5,160.00	4,829.00	91.30	36.14	79.28	-3,431.07	6,146.94	5,796.78	5,693.67	119.00	47.794		
8,000.00	6,504.57	5,240.00	4,904.00	92.70	36.70	79.60	-3,437.40	6,175.26	5,812.69	5,709.58	121.00	46.900		
8,100.00	6,580.69	5,320.00	4,979.00	94.10	37.26	80.00	-3,443.73	6,203.58	5,828.60	5,725.49	123.00	46.006		
8,118.12	6,594.49	5,340.00	4,993.00	94.36	37.40	80.18	-3,445.65	6,215.91	5,839.92	5,737.81	124.00	45.822		
8,200.00	6,656.82	5,400.00	5,050.00	95.51	37.83	80.57	-3,451.06	6,237.03	5,850.04	5,747.93	125.00	45.638		
8,300.00	6,732.95	5,480.00	5,126.00	96.91	38.45	81.17	-3,456.47	6,268.15	5,865.16	5,763.05	126.00	45.454		
8,400.00	6,809.07	5,560.00	5,202.00	98.32	39.07	81.88	-3,461.88	6,299.27	5,880.28	5,778.17	127.00	45.270		
8,500.00	6,885.20	5,640.00	5,278.00	99.72	39.69	82.38	-3,467.29	6,330.39	5,895.39	5,793.29	128.00	45.086		
8,600.00	6,961.32	5,720.00	5,354.00	101.12	40.31	82.98	-3,472.70	6,361.51	5,910.51	5,808.41	129.00	44.902		
8,700.00	7,037.45	5,800.00	5,430.00	102.52	40.93	83.36	-3,478.11	6,392.63	5,925.63	5,823.53	130.00	44.718		
8,732.15	7,061.92	5,820.00	5,454.00	102.97	41.07	83.44	-3,479.53	6,398.05	5,930.05	5,828.95	130.40	44.680		
8,750.00	7,075.57	5,840.00	5,468.00	103.22	41.18	83.48	-3,480.00	6,402.00	5,934.00	5,833.00	130.80	44.640		
8,800.00	7,114.27	5,880.00	5,507.00	103.91	41.87	85.63	-3,444.13	6,243.31	5,644.70	5,502.84	141.86	39.792		
8,850.00	7,153.47	5,920.00	5,546.00	104.58	41.93	79.42	-3,444.07	6,243.30	5,639.42	5,496.79	142.63	39.540		
8,900.00	7,192.85	5,960.00	5,585.00	105.21	42.01	73.04	-3,444.05	6,243.19	5,630.18	5,486.79	143.39	39.265		
8,950.00	7,232.12	5,663.61	5,239.43	105.80	42.16	66.84	-3,443.71	6,242.76	5,616.78	5,472.60	144.18	38.957		
9,000.00	7,270.99	5,742.00	5,317.82	106.35	42.31	60.81	-3,442.92	6,241.96	5,599.25	5,454.32	144.93	38.635		
9,050.00	7,309.16	5,750.00	5,425.83	106.85	42.52	55.25	-3,440.62	6,240.59	5,577.42	5,431.75	145.66	38.289		
9,100.00	7,346.32	5,783.38	5,459.14	107.30	42.59	49.59	-3,439.75	6,240.18	5,551.90	5,405.66	146.24	37.964		
9,150.00	7,382.22	5,815.50	5,491.25	107.69	42.65	44.30	-3,438.91	6,239.82	5,522.95	5,376.19	146.76	37.633		
9,200.00	7,416.56	5,823.00	5,498.75	108.02	42.67	39.17	-3,438.72	6,239.73	5,490.83	5,343.64	147.19	37.306		
9,250.00	7,449.09	5,823.00	5,498.75	108.29	42.67	34.21	-3,438.72	6,239.73	5,455.85	5,308.32	147.54	36.979		
9,300.00	7,479.56	5,823.00	5,498.75	108.51	42.67	29.34	-3,438.72	6,239.73	5,418.25	5,270.42	147.83	36.653		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,507.74	7,859.13	7,534.86	108.68	42.74	24.60	-3,438.01	6,239.51	5,377.87	5,229.75	148.13	36.306		
9,400.00	7,533.41	7,867.19	7,542.93	108.79	42.76	19.27	-3,437.91	6,239.51	5,335.55	5,187.23	148.31	35.975		
9,450.00	7,556.39	7,874.48	7,550.21	108.86	42.78	13.11	-3,437.84	6,239.53	5,291.34	5,142.89	148.44	35.645		
9,500.00	7,576.48	7,880.90	7,556.64	108.88	42.79	5.44	-3,437.79	6,239.55	5,245.55	5,097.03	148.52	35.319		
9,550.00	7,593.55	7,886.41	7,562.15	108.86	42.80	-4.80	-3,437.76	6,239.58	5,198.51	5,049.97	148.54	34.997		
9,600.00	7,607.46	7,918.00	7,593.74	108.80	42.87	-19.48	-3,437.79	6,239.90	5,150.77	5,002.20	148.57	34.669		
9,650.00	7,618.11	7,918.00	7,593.74	108.71	42.87	-39.15	-3,437.79	6,239.90	5,102.19	4,953.70	148.49	34.360		
9,700.00	7,625.41	7,918.00	7,593.74	108.59	42.87	-61.46	-3,437.79	6,239.90	5,053.44	4,905.07	148.37	34.060		
9,750.00	7,629.30	7,918.00	7,593.74	108.45	42.87	-80.89	-3,437.79	6,239.90	5,004.87	4,856.66	148.21	33.768		
9,781.81	7,630.00	7,918.00	7,593.74	108.35	42.87	-90.35	-3,437.79	6,239.90	4,974.25	4,826.16	148.09	33.588		
9,800.00	7,630.00	7,918.00	7,593.74	108.29	42.87	-90.35	-3,437.79	6,239.90	4,956.83	4,808.80	148.02	33.487		
9,900.00	7,630.00	7,918.00	7,593.74	107.97	42.87	-90.35	-3,437.79	6,239.90	4,861.14	4,713.52	147.62	32.930		
10,000.00	7,630.00	7,918.00	7,593.74	107.67	42.87	-90.35	-3,437.79	6,239.90	4,765.64	4,618.43	147.20	32.375		
10,100.00	7,630.00	7,918.00	7,593.74	107.38	42.87	-90.35	-3,437.79	6,239.90	4,670.32	4,523.55	146.76	31.822		
10,200.00	7,630.00	7,918.00	7,593.74	107.10	42.87	-90.35	-3,437.79	6,239.90	4,575.20	4,428.89	146.30	31.272		
10,300.00	7,630.00	7,918.00	7,593.74	106.84	42.87	-90.35	-3,437.79	6,239.90	4,480.29	4,334.47	145.82	30.725		
10,400.00	7,630.00	7,918.00	7,593.74	106.59	42.87	-90.35	-3,437.79	6,239.90	4,385.61	4,240.29	145.32	30.180		
10,500.00	7,630.00	7,918.00	7,593.74	106.35	42.87	-90.35	-3,437.79	6,239.90	4,291.17	4,146.39	144.79	29.638		
10,600.00	7,630.00	7,918.00	7,593.74	106.13	42.87	-90.35	-3,437.79	6,239.90	4,196.99	4,052.76	144.23	29.099		
10,700.00	7,630.00	7,918.00	7,593.74	105.92	42.87	-90.35	-3,437.79	6,239.90	4,103.08	3,959.44	143.64	28.564		
10,800.00	7,630.00	7,918.00	7,593.74	105.72	42.87	-90.35	-3,437.79	6,239.90	4,009.47	3,866.44	143.03	28.033		
10,900.00	7,630.00	7,918.00	7,593.74	105.54	42.87	-90.35	-3,437.79	6,239.90	3,916.18	3,773.80	142.38	27.505		
11,000.00	7,630.00	7,918.00	7,593.74	105.37	42.87	-90.35	-3,437.79	6,239.90	3,823.22	3,681.53	141.70	26.982		
11,100.00	7,630.00	7,918.00	7,593.74	105.21	42.87	-90.35	-3,437.79	6,239.90	3,730.63	3,589.66	140.97	26.463		
11,200.00	7,630.00	7,918.00	7,593.74	105.06	42.87	-90.35	-3,437.79	6,239.90	3,638.43	3,498.22	140.21	25.950		
11,300.00	7,630.00	7,918.00	7,593.74	104.93	42.87	-90.35	-3,437.79	6,239.90	3,546.65	3,407.25	139.40	25.441		
11,400.00	7,630.00	7,918.00	7,593.74	104.82	42.87	-90.35	-3,437.79	6,239.90	3,455.33	3,316.78	138.55	24.939		
11,500.00	7,630.00	7,918.00	7,593.74	104.72	42.87	-90.35	-3,437.79	6,239.90	3,364.51	3,226.86	137.65	24.443		
11,600.00	7,630.00	7,918.00	7,593.74	104.63	42.87	-90.35	-3,437.79	6,239.90	3,274.21	3,137.53	136.69	23.954		
11,700.00	7,630.00	7,918.00	7,593.74	104.55	42.87	-90.35	-3,437.79	6,239.90	3,184.50	3,048.83	135.67	23.473		
11,800.00	7,630.00	7,918.00	7,593.74	104.50	42.87	-90.35	-3,437.79	6,239.90	3,095.42	2,960.83	134.59	22.999		
11,900.00	7,630.00	7,918.00	7,593.74	104.45	42.87	-90.35	-3,437.79	6,239.90	3,007.02	2,873.59	133.44	22.535		
12,000.00	7,630.00	7,918.00	7,593.74	104.43	42.87	-90.35	-3,437.79	6,239.90	2,919.38	2,787.16	132.22	22.080		
12,100.00	7,630.00	7,918.00	7,593.74	104.42	42.87	-90.35	-3,437.79	6,239.90	2,832.55	2,701.63	130.92	21.636		
12,200.00	7,630.00	7,918.00	7,593.74	104.42	42.87	-90.35	-3,437.79	6,239.90	2,746.62	2,617.09	129.53	21.204		
12,300.00	7,630.00	7,918.00	7,593.74	104.45	42.87	-90.35	-3,437.79	6,239.90	2,661.67	2,533.61	128.06	20.784		
12,400.00	7,630.00	7,918.00	7,593.74	104.49	42.87	-90.35	-3,437.79	6,239.90	2,577.80	2,451.31	126.50	20.379		
12,500.00	7,630.00	7,897.75	7,573.49	104.55	42.83	-89.54	-3,437.73	6,239.67	2,494.95	2,370.11	124.85	19.984		
12,600.00	7,630.00	7,897.72	7,573.45	104.63	42.83	-89.54	-3,437.73	6,239.67	2,413.58	2,290.49	123.09	19.608		
12,700.00	7,630.00	7,897.68	7,573.42	104.73	42.83	-89.53	-3,437.73	6,239.67	2,333.66	2,212.43	121.23	19.250		
12,800.00	7,630.00	7,897.64	7,573.38	104.85	42.83	-89.53	-3,437.73	6,239.66	2,255.34	2,136.07	119.27	18.910		
12,900.00	7,630.00	7,897.61	7,573.34	104.99	42.83	-89.53	-3,437.73	6,239.66	2,178.79	2,061.58	117.21	18.589		
13,000.00	7,630.00	7,897.57	7,573.31	105.15	42.83	-89.53	-3,437.73	6,239.66	2,104.22	1,989.16	115.06	18.288		
13,100.00	7,630.00	7,897.53	7,573.27	105.34	42.83	-89.53	-3,437.73	6,239.66	2,031.82	1,918.99	112.83	18.007		
13,200.00	7,630.00	7,897.49	7,573.22	105.56	42.83	-89.53	-3,437.73	6,239.66	1,961.86	1,851.31	110.55	17.746		
13,300.00	7,630.00	7,897.44	7,573.18	105.80	42.83	-89.53	-3,437.73	6,239.66	1,894.59	1,786.33	108.26	17.501		
13,400.00	7,630.00	7,897.40	7,573.14	106.06	42.83	-89.52	-3,437.73	6,239.66	1,830.32	1,724.32	106.00	17.268		
13,500.00	7,630.00	7,897.35	7,573.09	106.36	42.83	-89.52	-3,437.73	6,239.66	1,769.36	1,665.53	103.83	17.040		
13,600.00	7,630.00	7,897.30	7,573.04	106.68	42.83	-89.52	-3,437.73	6,239.66	1,712.09	1,610.23	101.86	16.808		
13,700.00	7,630.00	7,897.25	7,572.99	107.03	42.83	-89.52	-3,437.73	6,239.66	1,658.86	1,558.68	100.18	16.559		
13,800.00	7,630.00	7,897.20	7,572.94	107.42	42.83	-89.52	-3,437.73	6,239.66	1,610.10	1,511.18	98.92	16.277		
13,900.00	7,630.00	7,897.15	7,572.88	107.83	42.83	-89.51	-3,437.73	6,239.66	1,566.20	1,467.99	98.21	15.947		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,897.09	7,572.83	108.28	42.83	-89.51	-3,437.73	6,239.66	1,527.61	1,429.41	98.19	15.557		
14,100.00	7,630.00	7,897.03	7,572.77	108.77	42.83	-89.51	-3,437.73	6,239.66	1,494.71	1,395.75	98.96	15.104		
14,200.00	7,630.00	7,896.97	7,572.71	109.29	42.83	-89.51	-3,437.73	6,239.66	1,467.91	1,367.33	100.58	14.594		
14,300.00	7,630.00	7,896.90	7,572.64	109.84	42.83	-89.50	-3,437.73	6,239.66	1,447.53	1,344.47	103.05	14.046		
14,400.00	7,630.00	7,896.84	7,572.57	110.43	42.83	-89.50	-3,437.73	6,239.66	1,433.85	1,327.52	106.32	13.486		
14,500.00	7,630.00	7,896.77	7,572.50	111.06	42.83	-89.50	-3,437.73	6,239.66	1,427.06	1,316.79	110.27	12.942		
14,547.07	7,630.00	7,896.73	7,572.47	111.37	42.83	-89.50	-3,437.73	6,239.66	1,426.28	1,313.97	112.32	12.699 CC		
14,600.00	7,630.00	7,896.69	7,572.43	111.72	42.83	-89.49	-3,437.73	6,239.66	1,427.27	1,312.53	114.73	12.440 ES		
14,700.00	7,630.00	7,896.61	7,572.35	112.42	42.83	-89.49	-3,437.73	6,239.66	1,434.46	1,314.92	119.54	12.000		
14,800.00	7,630.00	7,896.53	7,572.27	113.16	42.83	-89.49	-3,437.73	6,239.65	1,448.54	1,324.03	124.50	11.634		
14,900.00	7,630.00	7,896.44	7,572.18	113.94	42.83	-89.49	-3,437.73	6,239.65	1,469.30	1,339.84	129.47	11.349		
15,000.00	7,630.00	7,896.35	7,572.09	114.75	42.83	-89.48	-3,437.73	6,239.65	1,496.47	1,362.19	134.29	11.144		
15,100.00	7,630.00	7,896.26	7,571.99	115.60	42.83	-89.48	-3,437.73	6,239.65	1,529.71	1,390.85	138.86	11.016		
15,200.00	7,630.00	7,896.16	7,571.89	116.48	42.83	-89.47	-3,437.73	6,239.65	1,568.63	1,425.51	143.12	10.960 SF		
15,300.00	7,630.00	7,896.05	7,571.78	117.40	42.83	-89.47	-3,437.73	6,239.65	1,612.82	1,465.80	147.01	10.970		
15,400.00	7,630.00	7,895.93	7,571.67	118.35	42.83	-89.46	-3,437.73	6,239.65	1,661.86	1,511.32	150.53	11.040		
15,500.00	7,630.00	7,895.81	7,571.55	119.34	42.83	-89.46	-3,437.73	6,239.65	1,715.33	1,561.65	153.68	11.162		
15,600.00	7,630.00	7,895.68	7,571.42	120.35	42.82	-89.45	-3,437.73	6,239.65	1,772.83	1,616.37	156.46	11.331		
15,700.00	7,630.00	7,895.54	7,571.28	121.40	42.82	-89.45	-3,437.74	6,239.65	1,833.99	1,675.09	158.91	11.541		
15,800.00	7,630.00	7,895.39	7,571.13	122.48	42.82	-89.44	-3,437.74	6,239.65	1,898.45	1,737.41	161.04	11.789		
15,900.00	7,630.00	7,895.24	7,570.97	123.58	42.82	-89.44	-3,437.74	6,239.64	1,965.88	1,802.99	162.90	12.068		
16,000.00	7,630.00	7,895.07	7,570.80	124.71	42.82	-89.43	-3,437.74	6,239.64	2,036.00	1,871.49	164.50	12.377		
16,100.00	7,630.00	7,894.88	7,570.62	125.87	42.82	-89.42	-3,437.74	6,239.64	2,108.52	1,942.63	165.89	12.710		
16,200.00	7,630.00	7,894.68	7,570.42	127.05	42.82	-89.41	-3,437.74	6,239.64	2,183.22	2,016.14	167.09	13.067		
16,300.00	7,630.00	7,894.47	7,570.21	128.26	42.82	-89.41	-3,437.74	6,239.64	2,259.88	2,091.77	168.11	13.443		
16,400.00	7,630.00	7,894.23	7,569.97	129.48	42.82	-89.40	-3,437.74	6,239.64	2,338.29	2,169.31	168.99	13.837		
16,500.00	7,630.00	7,893.98	7,569.72	130.73	42.82	-89.39	-3,437.74	6,239.63	2,418.31	2,248.57	169.74	14.247		
16,600.00	7,630.00	7,893.70	7,569.44	132.00	42.82	-89.37	-3,437.74	6,239.63	2,499.76	2,329.38	170.38	14.672		
16,700.00	7,630.00	7,893.39	7,569.13	133.29	42.82	-89.36	-3,437.74	6,239.63	2,582.51	2,411.59	170.92	15.109		
16,800.00	7,630.00	7,893.05	7,568.79	134.59	42.82	-89.35	-3,437.74	6,239.63	2,666.45	2,495.07	171.38	15.559		
16,900.00	7,630.00	7,892.67	7,568.41	135.91	42.82	-89.33	-3,437.74	6,239.62	2,751.46	2,579.69	171.77	16.018		
17,000.00	7,630.00	7,892.24	7,567.98	137.25	42.82	-89.32	-3,437.74	6,239.62	2,837.45	2,665.35	172.10	16.487		
17,100.00	7,630.00	7,891.77	7,567.50	138.61	42.82	-89.30	-3,437.74	6,239.62	2,924.33	2,751.96	172.37	16.965		
17,200.00	7,630.00	7,891.22	7,566.96	139.97	42.82	-89.28	-3,437.74	6,239.61	3,012.03	2,839.42	172.60	17.451		
17,300.00	7,630.00	7,890.60	7,566.34	141.36	42.81	-89.25	-3,437.75	6,239.61	3,100.46	2,927.67	172.79	17.943		
17,400.00	7,630.00	7,889.88	7,565.62	142.75	42.81	-89.22	-3,437.75	6,239.60	3,189.59	3,016.64	172.95	18.442		
17,500.00	7,630.00	7,889.04	7,564.78	144.16	42.81	-89.19	-3,437.75	6,239.60	3,279.34	3,106.26	173.07	18.948		
17,600.00	7,630.00	7,888.04	7,563.78	145.58	42.81	-89.15	-3,437.75	6,239.59	3,369.66	3,196.49	173.17	19.458		
17,700.00	7,630.00	7,886.84	7,562.58	147.01	42.81	-89.10	-3,437.76	6,239.58	3,460.52	3,287.27	173.25	19.974		
17,800.00	7,630.00	7,885.36	7,561.10	148.45	42.80	-89.04	-3,437.77	6,239.57	3,551.87	3,378.56	173.31	20.494		
17,900.00	7,630.00	7,883.51	7,559.25	149.91	42.80	-88.97	-3,437.78	6,239.56	3,643.67	3,470.32	173.36	21.018		
18,000.00	7,630.00	7,881.11	7,556.85	151.37	42.79	-88.87	-3,437.79	6,239.55	3,735.90	3,562.51	173.39	21.546		
18,100.00	7,630.00	7,877.88	7,553.62	152.84	42.79	-88.74	-3,437.81	6,239.54	3,828.51	3,655.11	173.41	22.078		
18,200.00	7,630.00	7,873.30	7,549.04	154.32	42.78	-88.56	-3,437.85	6,239.52	3,921.49	3,748.07	173.42	22.613		
18,300.00	7,630.00	7,866.31	7,542.05	155.81	42.76	-88.27	-3,437.92	6,239.51	4,014.80	3,841.38	173.43	23.150		
18,400.00	7,630.00	7,854.30	7,530.04	157.31	42.73	-87.79	-3,438.08	6,239.52	4,108.43	3,934.99	173.43	23.689		
18,500.00	7,630.00	7,828.89	7,504.63	158.81	42.68	-86.77	-3,438.57	6,239.67	4,202.34	4,028.88	173.46	24.227		
18,600.00	7,630.00	7,820.76	7,496.51	160.32	42.66	-86.45	-3,438.78	6,239.76	4,296.51	4,123.07	173.44	24.772		
18,700.00	7,630.00	7,818.17	7,493.91	161.84	42.66	-86.35	-3,438.84	6,239.79	4,390.95	4,217.54	173.41	25.321		
18,800.00	7,630.00	7,815.56	7,491.31	163.37	42.65	-86.24	-3,438.91	6,239.81	4,485.62	4,312.24	173.37	25.873		
18,900.00	7,630.00	7,812.95	7,488.70	164.90	42.65	-86.14	-3,438.98	6,239.84	4,580.51	4,407.18	173.33	26.426		
19,000.00	7,630.00	7,810.34	7,486.09	166.43	42.64	-86.03	-3,439.05	6,239.87	4,675.62	4,502.33	173.29	26.981		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	
19,100.00	7,630.00	7,807.72	7,483.47	167.98	42.64	-85.93	-3,439.11	6,239.90	4,770.93	4,597.68	173.25	27.538	
19,200.00	7,630.00	7,805.09	7,480.85	169.53	42.63	-85.82	-3,439.18	6,239.93	4,866.42	4,693.22	173.20	28.097	
19,300.00	7,630.00	7,802.46	7,478.22	171.08	42.62	-85.72	-3,439.25	6,239.96	4,962.09	4,788.94	173.15	28.657	
19,400.00	7,630.00	19,400.00	7,534.93	172.64	68.59	-87.99	-3,438.36	6,239.80	5,057.85	4,858.99	198.86	25.435	
19,500.00	7,630.00	19,500.00	7,533.95	174.21	68.82	-87.95	-3,438.37	6,239.80	5,153.86	4,954.84	199.02	25.896	
19,518.56	7,630.00	19,518.56	7,533.77	174.50	68.86	-87.94	-3,438.38	6,239.80	5,171.70	4,972.65	199.05	25.981	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	81.84	772.15	5,385.12	5,440.91					
100.00	100.00	12.00	12.00	0.13	0.09	81.84	772.15	5,385.12	5,440.20	5,439.97	0.23	N/A		
200.00	200.00	112.00	112.00	0.49	0.99	81.84	772.15	5,385.12	5,440.20	5,438.72	1.48	3,678.269		
300.00	300.00	212.00	212.00	0.85	2.73	81.84	772.15	5,385.12	5,440.20	5,436.62	3.58	1,518.416		
400.00	400.00	312.00	312.00	1.21	4.48	81.84	772.15	5,385.12	5,440.20	5,434.51	5.69	956.668		
500.00	499.98	411.98	411.98	1.56	6.22	15.13	772.15	5,385.12	5,438.51	5,430.73	7.79	698.519		
600.00	599.84	511.84	511.84	1.92	7.96	15.17	772.15	5,385.12	5,433.46	5,423.58	9.88	549.729		
700.00	699.45	611.45	611.45	2.29	9.70	15.24	772.15	5,385.12	5,425.05	5,413.07	11.98	452.781		
800.00	798.70	710.70	710.70	2.67	11.44	15.33	772.15	5,385.12	5,413.29	5,399.21	14.08	384.567		
900.00	897.47	809.47	809.47	3.07	13.16	15.46	772.15	5,385.12	5,398.19	5,382.03	16.17	333.919		
1,000.00	995.62	907.62	907.62	3.50	14.87	15.61	772.15	5,385.12	5,379.79	5,361.54	18.25	294.788		
1,100.00	1,093.06	1,005.06	1,005.06	3.96	16.57	15.80	772.15	5,385.12	5,358.09	5,337.77	20.33	263.615		
1,200.00	1,189.64	1,101.64	1,101.64	4.46	18.26	16.02	772.15	5,385.12	5,333.14	5,310.75	22.39	238.168		
1,300.00	1,285.27	1,202.73	1,197.27	5.00	20.02	16.27	772.15	5,385.12	5,304.96	5,280.42	24.54	216.137		
1,400.00	1,379.82	1,308.18	1,291.82	5.60	21.86	16.55	772.15	5,385.12	5,273.60	5,246.82	26.78	196.921		
1,500.00	1,473.17	1,385.17	1,385.17	6.25	23.21	16.88	772.15	5,385.12	5,239.10	5,210.57	28.53	183.651		
1,600.00	1,565.21	1,477.21	1,477.21	6.95	24.81	17.24	772.15	5,385.12	5,201.49	5,170.95	30.55	170.280		
1,700.00	1,655.84	1,567.84	1,567.84	7.72	26.40	17.65	772.15	5,385.12	5,160.85	5,128.30	32.55	158.546		
1,800.00	1,744.94	1,656.94	1,656.94	8.55	27.95	18.10	772.15	5,385.12	5,117.22	5,082.68	34.54	148.155		
1,900.00	1,832.39	1,744.39	1,744.39	9.45	29.48	18.60	772.15	5,385.12	5,070.66	5,034.15	36.51	138.880		
2,000.00	1,918.11	1,830.11	1,830.11	10.41	30.97	19.15	772.15	5,385.12	5,021.23	4,982.77	38.46	130.542		
2,100.00	2,001.97	1,913.97	1,913.97	11.45	32.44	19.76	772.15	5,385.12	4,969.01	4,928.61	40.40	122.999		
2,200.00	2,083.88	2,004.12	1,995.88	12.56	34.01	20.44	772.15	5,385.12	4,914.07	4,871.62	42.46	115.742		
2,300.00	2,163.74	2,075.74	2,075.74	13.74	35.26	21.19	772.15	5,385.12	4,856.49	4,812.28	44.21	109.858		
2,400.00	2,241.45	2,153.45	2,153.45	14.99	36.62	22.01	772.15	5,385.12	4,796.34	4,750.26	46.08	104.088		
2,421.22	2,257.65	2,169.65	2,169.65	15.26	36.90	22.19	772.15	5,385.12	4,783.25	4,736.78	46.48	102.915		
2,500.00	2,317.63	2,229.63	2,229.63	16.29	37.95	22.42	772.15	5,385.12	4,734.49	4,686.55	47.94	98.759		
2,600.00	2,393.75	2,305.75	2,305.75	17.62	39.27	22.71	772.15	5,385.12	4,672.67	4,622.86	49.81	93.811		
2,700.00	2,469.88	2,381.88	2,381.88	18.95	40.60	23.01	772.15	5,385.12	4,610.93	4,559.23	51.69	89.196		
2,800.00	2,546.01	2,458.01	2,458.01	20.30	41.93	23.32	772.15	5,385.12	4,549.27	4,495.68	53.59	84.884		
2,900.00	2,622.13	2,534.13	2,534.13	21.65	43.26	23.64	772.15	5,385.12	4,487.70	4,432.20	55.51	80.847		
3,000.00	2,698.26	2,610.26	2,610.26	23.01	44.59	23.96	772.15	5,385.12	4,426.23	4,368.80	57.44	77.062		
3,100.00	2,774.38	2,686.38	2,686.38	24.37	45.92	24.30	772.15	5,385.12	4,364.86	4,305.48	59.38	73.507		
3,200.00	2,850.51	2,762.51	2,762.51	25.74	47.25	24.64	772.15	5,385.12	4,303.59	4,242.25	61.34	70.163		
3,300.00	2,926.64	2,838.64	2,838.64	27.11	48.57	24.99	772.15	5,385.12	4,242.42	4,179.11	63.31	67.012		
3,400.00	3,002.76	2,914.76	2,914.76	28.49	49.90	25.35	772.15	5,385.12	4,181.36	4,116.07	65.29	64.039		
3,500.00	3,078.89	3,009.11	2,990.89	29.87	51.55	25.72	772.15	5,385.12	4,120.42	4,052.81	67.61	60.941		
3,600.00	3,155.02	3,067.02	3,067.02	31.25	52.56	26.10	772.15	5,385.12	4,059.61	3,990.30	69.31	58.571		
3,700.00	3,231.14	3,143.14	3,143.14	32.63	53.89	26.49	772.15	5,385.12	3,998.91	3,927.57	71.34	56.052		
3,800.00	3,307.27	3,219.27	3,219.27	34.01	55.22	26.90	772.15	5,385.12	3,938.35	3,864.96	73.39	53.663		
3,900.00	3,383.39	3,304.61	3,295.39	35.40	56.71	27.31	772.15	5,385.12	3,877.93	3,802.32	75.61	51.285		
4,000.00	3,459.52	3,371.52	3,371.52	36.79	57.88	27.73	772.15	5,385.12	3,817.66	3,740.12	77.54	49.238		
4,100.00	3,535.65	3,447.65	3,447.65	38.18	59.20	28.17	772.15	5,385.12	3,757.53	3,677.90	79.63	47.185		
4,200.00	3,611.77	3,523.77	3,523.77	39.57	60.53	28.62	772.15	5,385.12	3,697.57	3,615.82	81.75	45.229		
4,300.00	3,687.90	3,600.10	3,599.90	40.96	61.86	29.09	772.15	5,385.12	3,637.77	3,553.88	83.89	43.362		
4,400.00	3,764.02	3,676.02	3,676.02	42.35	63.19	29.57	772.15	5,385.12	3,578.15	3,492.10	86.05	41.584		
4,500.00	3,840.15	3,752.15	3,752.15	43.74	64.52	30.06	772.15	5,385.12	3,518.71	3,430.49	88.23	39.883		
4,600.00	3,916.28	3,828.28	3,828.28	45.13	65.85	30.57	772.15	5,385.12	3,459.47	3,369.04	90.43	38.257		
4,700.00	3,992.40	3,904.40	3,904.40	46.53	67.18	31.09	772.15	5,385.12	3,400.43	3,307.78	92.65	36.701		
4,800.00	4,068.53	3,980.53	3,980.53	47.92	68.50	31.63	772.15	5,385.12	3,341.61	3,246.71	94.90	35.212		
4,900.00	4,144.66	4,056.66	4,056.66	49.32	69.83	32.19	772.15	5,385.12	3,283.02	3,185.84	97.18	33.784		
5,000.00	4,220.78	4,132.78	4,132.78	50.71	71.16	32.76	772.15	5,385.12	3,224.66	3,125.18	99.48	32.416		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,208.91	4,208.91	52.11	72.49	33.36	772.15	5,385.12	3,166.56	3,064.75	101.81	31.103		
5,200.00	4,373.03	4,285.03	4,285.03	53.51	73.82	33.97	772.15	5,385.12	3,108.72	3,004.55	104.17	29.843		
5,300.00	4,449.16	4,361.16	4,361.16	54.90	75.15	34.60	772.15	5,385.12	3,051.16	2,944.60	106.56	28.633		
5,400.00	4,525.29	4,437.29	4,437.29	56.30	76.48	35.25	772.15	5,385.12	2,993.91	2,884.92	108.98	27.471		
5,500.00	4,601.41	4,513.41	4,513.41	57.70	77.81	35.93	772.15	5,385.12	2,936.96	2,825.52	111.44	26.354		
5,600.00	4,677.54	4,589.54	4,589.54	59.10	79.13	36.63	772.15	5,385.12	2,880.36	2,766.42	113.94	25.280		
5,700.00	4,753.66	4,665.66	4,665.66	60.49	80.46	37.35	772.15	5,385.12	2,824.10	2,707.63	116.47	24.247		
5,800.00	4,829.79	4,741.79	4,741.79	61.89	81.79	38.09	772.15	5,385.12	2,768.23	2,649.18	119.05	23.253		
5,900.00	4,905.92	4,817.92	4,817.92	63.29	83.12	38.87	772.15	5,385.12	2,712.75	2,591.08	121.66	22.297		
6,000.00	4,982.04	4,905.96	4,894.04	64.69	84.66	39.67	772.15	5,385.12	2,657.69	2,533.16	124.53	21.341		
6,100.00	5,058.17	4,970.17	4,970.17	66.09	85.78	40.49	772.15	5,385.12	2,603.09	2,476.05	127.03	20.491		
6,200.00	5,134.30	5,046.30	5,046.30	67.49	87.11	41.35	772.15	5,385.12	2,548.96	2,419.17	129.79	19.639		
6,300.00	5,210.42	5,122.42	5,122.42	68.89	88.43	42.23	772.15	5,385.12	2,495.35	2,362.75	132.60	18.819		
6,400.00	5,286.55	5,201.45	5,198.55	70.29	89.81	43.15	772.15	5,385.12	2,442.28	2,306.77	135.51	18.022		
6,500.00	5,362.67	5,274.67	5,274.67	71.69	91.09	44.10	772.15	5,385.12	2,389.80	2,251.42	138.38	17.270		
6,600.00	5,438.80	5,350.80	5,350.80	73.09	92.42	45.08	772.15	5,385.12	2,337.93	2,196.57	141.36	16.539		
6,700.00	5,514.93	5,426.93	5,426.93	74.49	93.75	46.10	772.15	5,385.12	2,286.73	2,142.33	144.39	15.837		
6,800.00	5,591.05	5,503.05	5,503.05	75.89	95.08	47.15	772.15	5,385.12	2,236.23	2,088.74	147.49	15.162		
6,900.00	5,667.18	5,579.18	5,579.18	77.29	96.41	48.24	772.15	5,385.12	2,186.49	2,035.83	150.66	14.513		
7,000.00	5,743.30	5,655.30	5,655.30	78.69	97.74	49.37	772.15	5,385.12	2,137.56	1,983.67	153.89	13.890		
7,100.00	5,819.43	5,731.43	5,731.43	80.09	99.06	50.54	772.15	5,385.12	2,089.50	1,932.31	157.19	13.293		
7,200.00	5,895.56	5,807.56	5,807.56	81.49	100.39	51.75	772.15	5,385.12	2,042.37	1,881.81	160.56	12.721		
7,300.00	5,971.68	5,883.68	5,883.68	82.90	101.72	53.00	772.15	5,385.12	1,996.23	1,832.23	164.00	12.172		
7,400.00	6,047.81	5,959.81	5,959.81	84.30	103.05	54.29	772.15	5,385.12	1,951.15	1,783.65	167.50	11.648		
7,500.00	6,123.94	6,035.94	6,035.94	85.70	104.38	55.63	772.15	5,385.12	1,907.21	1,736.13	171.08	11.148		
7,600.00	6,200.06	6,112.06	6,112.06	87.10	105.71	57.01	772.15	5,385.12	1,864.50	1,689.77	174.73	10.671		
7,700.00	6,276.19	6,188.19	6,188.19	88.50	107.04	58.43	772.15	5,385.12	1,823.09	1,644.64	178.44	10.217		
7,800.00	6,352.31	6,264.31	6,264.31	89.90	108.36	59.90	772.15	5,385.12	1,783.07	1,600.85	182.22	9.785		
7,900.00	6,428.44	6,340.44	6,340.44	91.31	109.69	61.42	772.15	5,385.12	1,744.55	1,558.50	186.05	9.377		
8,000.00	6,504.57	6,416.57	6,416.57	92.71	111.02	62.98	772.15	5,385.12	1,707.63	1,517.69	189.94	8.991		
8,100.00	6,580.69	6,507.31	6,492.69	94.11	112.61	64.58	772.15	5,385.12	1,672.40	1,478.28	194.12	8.615		
8,200.00	6,656.82	6,568.82	6,568.82	95.51	113.68	66.23	772.15	5,385.12	1,638.98	1,441.16	197.82	8.285		
8,300.00	6,732.95	6,644.95	6,644.95	96.91	115.01	67.92	772.15	5,385.12	1,607.49	1,405.68	201.81	7.966		
8,400.00	6,809.07	6,721.07	6,721.07	98.32	116.34	69.65	772.15	5,385.12	1,578.03	1,372.24	205.79	7.668		
8,500.00	6,885.20	6,802.80	6,797.20	99.72	117.76	71.42	772.15	5,385.12	1,550.73	1,340.86	209.87	7.389		
8,600.00	6,961.32	6,873.32	6,873.32	101.12	118.99	73.23	772.15	5,385.12	1,525.69	1,311.97	213.73	7.139		
8,700.00	7,037.45	6,949.45	6,949.45	102.52	120.32	75.08	772.15	5,385.12	1,503.04	1,285.41	217.63	6.906		
8,732.15	7,061.92	6,973.92	6,973.92	102.97	120.75	75.68	772.15	5,385.12	1,496.28	1,277.41	218.88	6.836		
8,750.00	7,075.57	6,987.57	6,987.57	103.22	120.99	73.78	772.15	5,385.12	1,492.41	1,272.85	219.56	6.797		
8,800.00	7,114.27	7,026.27	7,026.27	103.91	121.66	68.04	772.15	5,385.12	1,479.55	1,258.14	221.41	6.682		
8,850.00	7,153.47	7,065.47	7,065.47	104.58	122.35	61.79	772.15	5,385.12	1,463.67	1,240.50	223.17	6.559		
8,900.00	7,192.85	7,104.85	7,104.85	105.21	123.03	55.19	772.15	5,385.12	1,444.78	1,219.95	224.83	6.426		
8,950.00	7,232.12	7,144.12	7,144.12	105.80	123.72	48.41	772.15	5,385.12	1,422.90	1,196.52	226.38	6.285		
9,000.00	7,270.99	7,182.99	7,182.99	106.35	124.40	41.60	772.15	5,385.12	1,398.09	1,170.27	227.82	6.137		
9,050.00	7,309.16	7,221.16	7,221.16	106.85	125.06	34.85	772.15	5,385.12	1,370.42	1,141.28	229.14	5.981		
9,100.00	7,346.32	7,258.32	7,258.32	107.30	125.71	28.19	772.15	5,385.12	1,340.01	1,109.67	230.34	5.818		
9,150.00	7,382.22	7,305.78	7,294.22	107.69	126.54	21.56	772.15	5,385.12	1,307.00	1,075.40	231.60	5.643		
9,200.00	7,416.56	7,328.56	7,328.56	108.02	126.94	14.83	772.15	5,385.12	1,271.57	1,039.25	232.32	5.473		
9,250.00	7,449.09	7,361.09	7,361.09	108.29	127.51	7.80	772.15	5,385.12	1,233.94	1,000.84	233.10	5.294		
9,300.00	7,479.56	7,408.44	7,391.56	108.51	128.33	0.20	772.15	5,385.12	1,194.36	960.34	234.02	5.104		
9,350.00	7,507.74	7,419.74	7,419.74	108.68	128.53	-8.26	772.15	5,385.12	1,153.10	918.92	234.18	4.924		
9,400.00	7,533.41	7,445.41	7,445.41	108.79	128.98	-17.85	772.15	5,385.12	1,110.51	876.05	234.46	4.736		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,556.39	7,468.39	7,468.39	108.86	129.38	-28.67	772.15	5,385.12	1,066.95	832.40	234.55	4.549		
9,500.00	7,576.48	7,488.48	7,488.48	108.88	129.73	-40.47	772.15	5,385.12	1,022.85	788.43	234.42	4.363		
9,550.00	7,593.55	7,505.55	7,505.55	108.86	130.03	-52.50	772.15	5,385.12	978.65	744.61	234.04	4.182		
9,600.00	7,607.46	7,519.46	7,519.46	108.80	130.27	-63.78	772.15	5,385.12	934.89	701.50	233.38	4.006		
9,650.00	7,618.11	7,530.11	7,530.11	108.71	130.46	-73.50	772.15	5,385.12	892.13	659.72	232.41	3.839		
9,700.00	7,625.41	7,537.41	7,537.41	108.59	130.58	-81.29	772.15	5,385.12	851.00	619.94	231.05	3.683		
9,750.00	7,629.30	7,541.30	7,541.30	108.45	130.65	-87.17	772.15	5,385.12	812.17	582.89	229.27	3.542		
9,781.81	7,630.00	7,542.00	7,542.00	108.35	130.66	-90.00	772.15	5,385.12	788.99	561.10	227.89	3.462		
9,800.00	7,630.00	7,542.00	7,542.00	108.29	130.66	-90.00	772.15	5,385.12	776.22	549.20	227.01	3.419		
9,900.00	7,630.00	7,542.00	7,542.00	107.97	130.66	-90.00	772.15	5,385.12	710.28	489.02	221.26	3.210		
10,000.00	7,630.00	7,542.00	7,542.00	107.67	130.66	-90.00	772.15	5,385.12	653.05	439.44	213.61	3.057		
10,100.00	7,630.00	7,542.00	7,542.00	107.38	130.66	-90.00	772.15	5,385.12	607.01	403.13	203.87	2.977 SF		
10,200.00	7,630.00	7,542.00	7,542.00	107.10	130.66	-90.00	772.15	5,385.12	574.84	382.38	192.46	2.987		
10,300.00	7,630.00	7,542.00	7,542.00	106.84	130.66	-90.00	772.15	5,385.12	558.94	377.83	181.12	3.086 ES		
10,340.10	7,630.00	7,542.00	7,542.00	106.74	130.66	-90.00	772.15	5,385.12	557.50	380.14	177.36	3.143 CC		
10,400.00	7,630.00	7,542.00	7,542.00	106.59	130.66	-90.00	772.15	5,385.12	560.71	387.27	173.44	3.233		
10,500.00	7,630.00	7,542.00	7,542.00	106.35	130.66	-90.00	772.15	5,385.12	579.98	407.02	172.96	3.353		
10,600.00	7,630.00	7,542.00	7,542.00	106.13	130.66	-90.00	772.15	5,385.12	615.11	436.36	178.75	3.441		
10,700.00	7,630.00	7,542.00	7,542.00	105.92	130.66	-90.00	772.15	5,385.12	663.58	476.64	186.94	3.550		
10,800.00	7,630.00	7,542.00	7,542.00	105.72	130.66	-90.00	772.15	5,385.12	722.72	527.74	194.98	3.707		
10,900.00	7,630.00	7,542.00	7,542.00	105.54	130.66	-90.00	772.15	5,385.12	790.13	588.17	201.95	3.912		
11,000.00	7,630.00	7,542.00	7,542.00	105.37	130.66	-90.00	772.15	5,385.12	863.88	656.15	207.73	4.159		
11,100.00	7,630.00	7,542.00	7,542.00	105.21	130.66	-90.00	772.15	5,385.12	942.48	730.06	212.42	4.437		
11,200.00	7,630.00	7,542.00	7,542.00	105.06	130.66	-90.00	772.15	5,385.12	1,024.81	808.58	216.23	4.739		
11,300.00	7,630.00	7,542.00	7,542.00	104.93	130.66	-90.00	772.15	5,385.12	1,110.05	890.72	219.33	5.061		
11,400.00	7,630.00	7,542.00	7,542.00	104.82	130.66	-90.00	772.15	5,385.12	1,197.58	975.70	221.88	5.397		
11,500.00	7,630.00	7,542.00	7,542.00	104.72	130.66	-90.00	772.15	5,385.12	1,286.93	1,062.94	223.99	5.746		
11,600.00	7,630.00	7,542.00	7,542.00	104.63	130.66	-90.00	772.15	5,385.12	1,377.74	1,151.99	225.75	6.103		
11,700.00	7,630.00	7,542.00	7,542.00	104.55	130.66	-90.00	772.15	5,385.12	1,469.74	1,242.50	227.24	6.468		
11,800.00	7,630.00	7,542.00	7,542.00	104.50	130.66	-90.00	772.15	5,385.12	1,562.73	1,334.22	228.51	6.839		
11,900.00	7,630.00	7,542.00	7,542.00	104.45	130.66	-90.00	772.15	5,385.12	1,656.53	1,426.94	229.60	7.215		
12,000.00	7,630.00	7,542.00	7,542.00	104.43	130.66	-90.00	772.15	5,385.12	1,751.02	1,520.49	230.54	7.595		
12,100.00	7,630.00	7,542.00	7,542.00	104.42	130.66	-90.00	772.15	5,385.12	1,846.09	1,614.74	231.36	7.979		
12,200.00	7,630.00	7,542.00	7,542.00	104.42	130.66	-90.00	772.15	5,385.12	1,941.66	1,709.58	232.08	8.366		
12,300.00	7,630.00	7,542.00	7,542.00	104.45	130.66	-90.00	772.15	5,385.12	2,037.65	1,804.93	232.72	8.756		
12,400.00	7,630.00	7,542.00	7,542.00	104.49	130.66	-90.00	772.15	5,385.12	2,134.01	1,900.73	233.28	9.148		
12,500.00	7,630.00	7,542.00	7,542.00	104.55	130.66	-90.00	772.15	5,385.12	2,230.69	1,996.90	233.79	9.541		
12,600.00	7,630.00	7,542.00	7,542.00	104.63	130.66	-90.00	772.15	5,385.12	2,327.65	2,093.41	234.24	9.937		
12,700.00	7,630.00	7,542.00	7,542.00	104.73	130.66	-90.00	772.15	5,385.12	2,424.86	2,190.21	234.65	10.334		
12,800.00	7,630.00	7,542.00	7,542.00	104.85	130.66	-90.00	772.15	5,385.12	2,522.29	2,287.26	235.02	10.732		
12,900.00	7,630.00	7,542.00	7,542.00	104.99	130.66	-90.00	772.15	5,385.12	2,619.91	2,384.54	235.36	11.131		
13,000.00	7,630.00	7,542.00	7,542.00	105.15	130.66	-90.00	772.15	5,385.12	2,717.70	2,482.03	235.67	11.532		
13,100.00	7,630.00	7,542.00	7,542.00	105.34	130.66	-90.00	772.15	5,385.12	2,815.65	2,579.69	235.95	11.933		
13,200.00	7,630.00	7,542.00	7,542.00	105.56	130.66	-90.00	772.15	5,385.12	2,913.73	2,677.52	236.21	12.335		
13,300.00	7,630.00	7,542.00	7,542.00	105.80	130.66	-90.00	772.15	5,385.12	3,011.95	2,775.49	236.46	12.738		
13,400.00	7,630.00	7,542.00	7,542.00	106.06	130.66	-90.00	772.15	5,385.12	3,110.27	2,873.60	236.68	13.141		
13,500.00	7,630.00	7,542.00	7,542.00	106.36	130.66	-90.00	772.15	5,385.12	3,208.71	2,971.82	236.88	13.545		
13,600.00	7,630.00	7,542.00	7,542.00	106.68	130.66	-90.00	772.15	5,385.12	3,307.23	3,070.15	237.08	13.950		
13,700.00	7,630.00	7,542.00	7,542.00	107.03	130.66	-90.00	772.15	5,385.12	3,405.84	3,168.58	237.26	14.355		
13,800.00	7,630.00	7,542.00	7,542.00	107.42	130.66	-90.00	772.15	5,385.12	3,504.53	3,267.11	237.43	14.761		
13,900.00	7,630.00	7,542.00	7,542.00	107.83	130.66	-90.00	772.15	5,385.12	3,603.29	3,365.71	237.58	15.166		
14,000.00	7,630.00	7,542.00	7,542.00	108.28	130.66	-90.00	772.15	5,385.12	3,702.12	3,464.39	237.73	15.573		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,630.00	7,542.00	7,542.00	108.77	130.66	-90.00	772.15	5,385.12	3,801.01	3,563.14	237.87	15.979		
14,200.00	7,630.00	7,542.00	7,542.00	109.29	130.66	-90.00	772.15	5,385.12	3,899.96	3,661.95	238.00	16.386		
14,300.00	7,630.00	7,542.00	7,542.00	109.84	130.66	-90.00	772.15	5,385.12	3,998.95	3,760.83	238.13	16.793		
14,400.00	7,630.00	7,542.00	7,542.00	110.43	130.66	-90.00	772.15	5,385.12	4,098.00	3,859.75	238.25	17.201		
14,500.00	7,630.00	7,542.00	7,542.00	111.06	130.66	-90.00	772.15	5,385.12	4,197.09	3,958.73	238.36	17.608		
14,600.00	7,630.00	7,542.00	7,542.00	111.72	130.66	-90.00	772.15	5,385.12	4,296.23	4,057.76	238.47	18.016		
14,700.00	7,630.00	7,542.00	7,542.00	112.42	130.66	-90.00	772.15	5,385.12	4,395.40	4,156.83	238.57	18.424		
14,800.00	7,630.00	7,542.00	7,542.00	113.16	130.66	-90.00	772.15	5,385.12	4,494.61	4,255.95	238.67	18.832		
14,900.00	7,630.00	7,542.00	7,542.00	113.94	130.66	-90.00	772.15	5,385.12	4,593.86	4,355.10	238.76	19.241		
15,000.00	7,630.00	7,542.00	7,542.00	114.75	130.66	-90.00	772.15	5,385.12	4,693.13	4,454.29	238.85	19.649		
15,100.00	7,630.00	7,542.00	7,542.00	115.60	130.66	-90.00	772.15	5,385.12	4,792.44	4,553.51	238.93	20.058		
15,200.00	7,630.00	7,542.00	7,542.00	116.48	130.66	-90.00	772.15	5,385.12	4,891.77	4,652.76	239.02	20.466		
15,300.00	7,630.00	7,542.00	7,542.00	117.40	130.66	-90.00	772.15	5,385.12	4,991.14	4,752.04	239.09	20.875		
15,400.00	7,630.00	7,542.00	7,542.00	118.35	130.66	-90.00	772.15	5,385.12	5,090.52	4,851.35	239.17	21.284		
15,500.00	7,630.00	7,542.00	7,542.00	119.34	130.66	-90.00	772.15	5,385.12	5,189.93	4,950.69	239.24	21.693		
15,600.00	7,630.00	7,542.00	7,542.00	120.35	130.66	-90.00	772.15	5,385.12	5,289.36	5,050.05	239.31	22.102		
15,700.00	7,630.00	7,542.00	7,542.00	121.40	130.66	-90.00	772.15	5,385.12	5,388.82	5,149.43	239.38	22.511		
15,800.00	7,630.00	7,542.00	7,542.00	122.48	130.66	-90.00	772.15	5,385.12	5,488.29	5,248.84	239.45	22.920		
15,900.00	7,630.00	7,542.00	7,542.00	123.58	130.66	-90.00	772.15	5,385.12	5,587.78	5,348.27	239.51	23.330		
16,000.00	7,630.00	7,542.00	7,542.00	124.71	130.66	-90.00	772.15	5,385.12	5,687.29	5,447.72	239.58	23.739		
16,100.00	7,630.00	7,542.00	7,542.00	125.87	130.66	-90.00	772.15	5,385.12	5,786.82	5,547.18	239.64	24.148		
16,200.00	7,630.00	7,542.00	7,542.00	127.05	130.66	-90.00	772.15	5,385.12	5,886.36	5,646.67	239.70	24.558		
16,300.00	7,630.00	7,542.00	7,542.00	128.26	130.66	-90.00	772.15	5,385.12	5,985.92	5,746.17	239.75	24.967		
16,400.00	7,630.00	7,542.00	7,542.00	129.48	130.66	-90.00	772.15	5,385.12	6,085.49	5,845.68	239.81	25.376		
16,500.00	7,630.00	7,542.00	7,542.00	130.73	130.66	-90.00	772.15	5,385.12	6,185.08	5,945.22	239.86	25.786		
16,600.00	7,630.00	7,542.00	7,542.00	132.00	130.66	-90.00	772.15	5,385.12	6,284.68	6,044.76	239.92	26.195		
16,700.00	7,630.00	7,542.00	7,542.00	133.29	130.66	-90.00	772.15	5,385.12	6,384.29	6,144.32	239.97	26.605		
16,800.00	7,630.00	7,542.00	7,542.00	134.59	130.66	-90.00	772.15	5,385.12	6,483.91	6,243.89	240.02	27.014		
16,900.00	7,630.00	7,542.00	7,542.00	135.91	130.66	-90.00	772.15	5,385.12	6,583.55	6,343.48	240.07	27.423		
17,000.00	7,630.00	7,542.00	7,542.00	137.25	130.66	-90.00	772.15	5,385.12	6,683.20	6,443.08	240.12	27.833		
17,100.00	7,630.00	7,542.00	7,542.00	138.61	130.66	-90.00	772.15	5,385.12	6,782.85	6,542.69	240.17	28.242		
17,200.00	7,630.00	7,542.00	7,542.00	139.97	130.66	-90.00	772.15	5,385.12	6,882.52	6,642.31	240.21	28.652		
17,300.00	7,630.00	7,542.00	7,542.00	141.36	130.66	-90.00	772.15	5,385.12	6,982.19	6,741.93	240.26	29.061		
17,400.00	7,630.00	7,542.00	7,542.00	142.75	130.66	-90.00	772.15	5,385.12	7,081.88	6,841.57	240.31	29.470		
17,500.00	7,630.00	7,542.00	7,542.00	144.16	130.66	-90.00	772.15	5,385.12	7,181.57	6,941.22	240.35	29.880		
17,600.00	7,630.00	7,542.00	7,542.00	145.58	130.66	-90.00	772.15	5,385.12	7,281.28	7,040.88	240.39	30.289		
17,700.00	7,630.00	7,542.00	7,542.00	147.01	130.66	-90.00	772.15	5,385.12	7,380.99	7,140.55	240.44	30.698		
17,800.00	7,630.00	7,542.00	7,542.00	148.45	130.66	-90.00	772.15	5,385.12	7,480.71	7,240.22	240.48	31.107		
17,900.00	7,630.00	7,542.00	7,542.00	149.91	130.66	-90.00	772.15	5,385.12	7,580.43	7,339.91	240.52	31.517		
18,000.00	7,630.00	7,542.00	7,542.00	151.37	130.66	-90.00	772.15	5,385.12	7,680.16	7,439.60	240.56	31.926		
18,100.00	7,630.00	7,542.00	7,542.00	152.84	130.66	-90.00	772.15	5,385.12	7,779.90	7,539.30	240.61	32.335		
18,200.00	7,630.00	7,542.00	7,542.00	154.32	130.66	-90.00	772.15	5,385.12	7,879.65	7,639.00	240.65	32.744		
18,300.00	7,630.00	7,542.00	7,542.00	155.81	130.66	-90.00	772.15	5,385.12	7,979.40	7,738.72	240.69	33.153		
18,400.00	7,630.00	7,542.00	7,542.00	157.31	130.66	-90.00	772.15	5,385.12	8,079.16	7,838.43	240.73	33.562		
18,500.00	7,630.00	7,542.00	7,542.00	158.81	130.66	-90.00	772.15	5,385.12	8,178.92	7,938.16	240.77	33.970		
18,600.00	7,630.00	7,542.00	7,542.00	160.32	130.66	-90.00	772.15	5,385.12	8,278.70	8,037.89	240.80	34.379		
18,700.00	7,630.00	7,542.00	7,542.00	161.84	130.66	-90.00	772.15	5,385.12	8,378.47	8,137.63	240.84	34.788		
18,800.00	7,630.00	7,542.00	7,542.00	163.37	130.66	-90.00	772.15	5,385.12	8,478.25	8,237.37	240.88	35.197		
18,900.00	7,630.00	7,542.00	7,542.00	164.90	130.66	-90.00	772.15	5,385.12	8,578.04	8,337.12	240.92	35.605		
19,000.00	7,630.00	7,542.00	7,542.00	166.43	130.66	-90.00	772.15	5,385.12	8,677.83	8,436.87	240.96	36.014		
19,100.00	7,630.00	7,542.00	7,542.00	167.98	130.66	-90.00	772.15	5,385.12	8,777.62	8,536.63	241.00	36.422		
19,200.00	7,630.00	7,542.00	7,542.00	169.53	130.66	-90.00	772.15	5,385.12	8,877.43	8,636.39	241.03	36.831		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,300.00	7,630.00	7,542.00	7,542.00	171.08	130.66	-90.00	772.15	5,385.12	8,977.23	8,736.16	241.07	37.239	
19,400.00	7,630.00	7,542.00	7,542.00	172.64	130.66	-90.00	772.15	5,385.12	9,077.04	8,835.93	241.11	37.647	
19,500.00	7,630.00	7,542.00	7,542.00	174.21	130.66	-90.00	772.15	5,385.12	9,176.85	8,935.71	241.14	38.056	
19,518.56	7,630.00	7,542.00	7,542.00	174.50	130.66	-90.00	772.15	5,385.12	9,195.38	8,954.23	241.15	38.131	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	116.10	-1,438.77	2,936.84	3,270.83					
100.00	100.00	43.00	43.00	0.13	0.33	116.10	-1,438.77	2,936.84	3,270.33	3,269.87	0.46	7,038.363		
200.00	200.00	143.00	143.00	0.49	1.52	116.10	-1,438.77	2,936.84	3,270.33	3,268.32	2.01	1,625.950		
300.00	300.00	243.00	243.00	0.85	3.26	116.10	-1,438.77	2,936.84	3,270.33	3,266.22	4.12	794.708		
400.00	400.00	343.00	343.00	1.21	5.01	116.10	-1,438.77	2,936.84	3,270.33	3,264.11	6.22	525.866		
500.00	499.98	442.98	442.98	1.56	6.75	49.42	-1,438.77	2,936.84	3,269.19	3,260.88	8.32	393.036		
600.00	599.84	542.84	542.84	1.92	8.50	49.54	-1,438.77	2,936.84	3,265.79	3,255.38	10.42	313.565		
700.00	699.45	642.45	642.45	2.29	10.24	49.74	-1,438.77	2,936.84	3,260.13	3,247.62	12.51	260.501		
800.00	798.70	741.70	741.70	2.67	11.97	50.02	-1,438.77	2,936.84	3,252.25	3,237.63	14.62	222.485		
900.00	897.47	840.47	840.47	3.07	13.69	50.39	-1,438.77	2,936.84	3,242.16	3,225.44	16.73	193.845		
1,000.00	995.62	938.62	938.62	3.50	15.40	50.84	-1,438.77	2,936.84	3,229.92	3,211.08	18.84	171.440		
1,100.00	1,093.06	1,036.06	1,036.06	3.96	17.11	51.37	-1,438.77	2,936.84	3,215.57	3,194.61	20.96	153.390		
1,200.00	1,189.64	1,132.64	1,132.64	4.46	18.79	51.99	-1,438.77	2,936.84	3,199.18	3,176.08	23.10	138.501		
1,300.00	1,285.27	1,228.27	1,228.27	5.00	20.46	52.69	-1,438.77	2,936.84	3,180.82	3,155.57	25.25	125.981		
1,400.00	1,379.82	1,322.82	1,322.82	5.60	22.11	53.47	-1,438.77	2,936.84	3,160.56	3,133.15	27.42	115.283		
1,500.00	1,473.17	1,416.17	1,416.17	6.25	23.74	54.34	-1,438.77	2,936.84	3,138.51	3,108.90	29.60	106.018		
1,600.00	1,565.21	1,508.21	1,508.21	6.95	25.35	55.30	-1,438.77	2,936.84	3,114.75	3,082.93	31.82	97.901		
1,700.00	1,655.84	1,601.16	1,598.84	7.72	26.97	56.34	-1,438.77	2,936.84	3,089.40	3,055.31	34.09	90.614		
1,800.00	1,744.94	1,687.94	1,687.94	8.55	28.48	57.46	-1,438.77	2,936.84	3,062.59	3,026.27	36.32	84.316		
1,900.00	1,832.39	1,775.39	1,775.39	9.45	30.01	58.66	-1,438.77	2,936.84	3,034.45	2,995.82	38.63	78.561		
2,000.00	1,918.11	1,861.11	1,861.11	10.41	31.51	59.94	-1,438.77	2,936.84	3,005.12	2,964.16	40.96	73.359		
2,100.00	2,001.97	1,944.97	1,944.97	11.45	32.97	61.30	-1,438.77	2,936.84	2,974.76	2,931.42	43.34	68.632		
2,200.00	2,083.88	2,026.88	2,026.88	12.56	34.40	62.72	-1,438.77	2,936.84	2,943.54	2,897.77	45.77	64.317		
2,300.00	2,163.74	2,106.74	2,106.74	13.74	35.79	64.21	-1,438.77	2,936.84	2,911.64	2,863.40	48.23	60.365		
2,400.00	2,241.45	2,184.45	2,184.45	14.99	37.15	65.76	-1,438.77	2,936.84	2,879.24	2,828.49	50.75	56.734		
2,421.22	2,257.65	2,200.65	2,200.65	15.26	37.43	66.09	-1,438.77	2,936.84	2,872.32	2,821.03	51.29	56.001		
2,500.00	2,317.63	2,260.63	2,260.63	16.29	38.48	66.85	-1,438.77	2,936.84	2,846.96	2,793.65	53.31	53.402		
2,600.00	2,393.75	2,336.75	2,336.75	17.62	39.81	67.82	-1,438.77	2,936.84	2,815.77	2,759.86	55.91	50.360		
2,700.00	2,469.88	2,412.88	2,412.88	18.95	41.14	68.80	-1,438.77	2,936.84	2,785.74	2,727.19	58.55	47.580		
2,800.00	2,546.01	2,489.01	2,489.01	20.30	42.46	69.80	-1,438.77	2,936.84	2,756.91	2,695.69	61.22	45.035		
2,900.00	2,622.13	2,565.13	2,565.13	21.65	43.79	70.81	-1,438.77	2,936.84	2,729.32	2,665.40	63.91	42.702		
3,000.00	2,698.26	2,641.26	2,641.26	23.01	45.12	71.83	-1,438.77	2,936.84	2,702.99	2,636.36	66.64	40.562		
3,100.00	2,774.38	2,717.38	2,717.38	24.37	46.45	72.87	-1,438.77	2,936.84	2,677.99	2,608.60	69.39	38.596		
3,200.00	2,850.51	2,806.49	2,793.51	25.74	48.01	73.91	-1,438.77	2,936.84	2,654.33	2,581.95	72.38	36.672		
3,300.00	2,926.64	2,869.64	2,869.64	27.11	49.11	74.97	-1,438.77	2,936.84	2,632.05	2,557.11	74.94	35.122		
3,400.00	3,002.76	2,945.76	2,945.76	28.49	50.44	76.04	-1,438.77	2,936.84	2,611.20	2,533.46	77.74	33.588		
3,500.00	3,078.89	3,021.89	3,021.89	29.87	51.76	77.12	-1,438.77	2,936.84	2,591.80	2,511.24	80.56	32.173		
3,600.00	3,155.02	3,101.98	3,098.02	31.25	53.16	78.20	-1,438.77	2,936.84	2,573.89	2,490.44	83.45	30.843		
3,700.00	3,231.14	3,174.14	3,174.14	32.63	54.42	79.30	-1,438.77	2,936.84	2,557.50	2,471.28	86.21	29.664		
3,800.00	3,307.27	3,250.27	3,250.27	34.01	55.75	80.40	-1,438.77	2,936.84	2,542.66	2,453.60	89.05	28.553		
3,900.00	3,383.39	3,326.39	3,326.39	35.40	57.08	81.51	-1,438.77	2,936.84	2,529.39	2,437.50	91.89	27.527		
4,000.00	3,459.52	3,402.52	3,402.52	36.79	58.41	82.63	-1,438.77	2,936.84	2,517.72	2,423.00	94.72	26.580		
4,100.00	3,535.65	3,478.65	3,478.65	38.18	59.74	83.76	-1,438.77	2,936.84	2,507.68	2,410.13	97.55	25.706		
4,200.00	3,611.77	3,554.77	3,554.77	39.57	61.07	84.88	-1,438.77	2,936.84	2,499.28	2,398.90	100.37	24.900		
4,300.00	3,687.90	3,630.90	3,630.90	40.96	62.39	86.02	-1,438.77	2,936.84	2,492.54	2,389.35	103.18	24.157		
4,400.00	3,764.02	3,707.02	3,707.02	42.35	63.72	87.15	-1,438.77	2,936.84	2,487.47	2,381.49	105.97	23.472		
4,500.00	3,840.15	3,783.15	3,783.15	43.74	65.05	88.29	-1,438.77	2,936.84	2,484.08	2,375.33	108.75	22.842		
4,600.00	3,916.28	3,859.28	3,859.28	45.13	66.38	89.43	-1,438.77	2,936.84	2,482.38	2,370.88	111.51	22.263		
4,650.18	3,954.48	3,902.52	3,897.48	45.83	67.13	90.00	-1,438.77	2,936.84	2,482.17	2,369.20	112.97	21.973		
4,700.00	3,992.40	3,935.40	3,935.40	46.53	67.71	90.57	-1,438.77	2,936.84	2,482.38	2,368.14	114.24	21.730		
4,800.00	4,068.53	4,011.53	4,011.53	47.92	69.04	91.71	-1,438.77	2,936.84	2,484.07	2,367.13	116.94	21.242		
4,900.00	4,144.66	4,087.66	4,087.66	49.32	70.37	92.84	-1,438.77	2,936.84	2,487.45	2,367.83	119.62	20.795		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,220.78	4,163.78	4,163.78	50.71	71.69	93.98	-1,438.77	2,936.84	2,492.51	2,370.25	122.26	20.387		
5,100.00	4,296.91	4,239.91	4,239.91	52.11	73.02	95.11	-1,438.77	2,936.84	2,499.25	2,374.38	124.87	20.015		
5,200.00	4,373.03	4,316.03	4,316.03	53.51	74.35	96.24	-1,438.77	2,936.84	2,507.64	2,380.20	127.45	19.676		
5,300.00	4,449.16	4,407.84	4,392.16	54.90	75.95	97.36	-1,438.77	2,936.84	2,517.68	2,387.42	130.26	19.328		
5,400.00	4,525.29	4,468.29	4,468.29	56.30	77.01	98.48	-1,438.77	2,936.84	2,529.34	2,396.86	132.49	19.091		
5,500.00	4,601.41	4,544.41	4,544.41	57.70	78.34	99.59	-1,438.77	2,936.84	2,542.60	2,407.66	134.95	18.841		
5,600.00	4,677.54	4,620.54	4,620.54	59.10	79.67	100.70	-1,438.77	2,936.84	2,557.44	2,420.07	137.37	18.617		
5,700.00	4,753.66	4,703.34	4,696.66	60.49	81.11	101.79	-1,438.77	2,936.84	2,573.83	2,433.96	139.87	18.402		
5,800.00	4,829.79	4,772.79	4,772.79	61.89	82.32	102.88	-1,438.77	2,936.84	2,591.73	2,449.64	142.10	18.239		
5,900.00	4,905.92	4,848.92	4,848.92	63.29	83.65	103.96	-1,438.77	2,936.84	2,611.13	2,466.73	144.40	18.083		
6,000.00	4,982.04	4,925.04	4,925.04	64.69	84.98	105.03	-1,438.77	2,936.84	2,631.97	2,485.31	146.66	17.946		
6,100.00	5,058.17	5,001.17	5,001.17	66.09	86.31	106.08	-1,438.77	2,936.84	2,654.24	2,505.36	148.88	17.828		
6,200.00	5,134.30	5,077.30	5,077.30	67.49	87.64	107.13	-1,438.77	2,936.84	2,677.90	2,526.83	151.07	17.727		
6,300.00	5,210.42	5,153.42	5,153.42	68.89	88.97	108.16	-1,438.77	2,936.84	2,702.90	2,549.69	153.21	17.642		
6,400.00	5,286.55	5,229.55	5,229.55	70.29	90.30	109.19	-1,438.77	2,936.84	2,729.22	2,573.90	155.32	17.572		
6,500.00	5,362.67	5,305.67	5,305.67	71.69	91.62	110.20	-1,438.77	2,936.84	2,756.81	2,599.41	157.39	17.516		
6,600.00	5,438.80	5,381.80	5,381.80	73.09	92.95	111.19	-1,438.77	2,936.84	2,785.63	2,626.20	159.43	17.473		
6,700.00	5,514.93	5,457.93	5,457.93	74.49	94.28	112.18	-1,438.77	2,936.84	2,815.66	2,654.22	161.43	17.442		
6,800.00	5,591.05	5,534.05	5,534.05	75.89	95.61	113.15	-1,438.77	2,936.84	2,846.84	2,683.44	163.40	17.422		
6,900.00	5,667.18	5,610.18	5,610.18	77.29	96.94	114.11	-1,438.77	2,936.84	2,879.15	2,713.80	165.34	17.413		
7,000.00	5,743.30	5,686.30	5,686.30	78.69	98.27	115.05	-1,438.77	2,936.84	2,912.54	2,745.29	167.26	17.414		
7,100.00	5,819.43	5,762.43	5,762.43	80.09	99.60	115.98	-1,438.77	2,936.84	2,946.99	2,777.85	169.14	17.423		
7,200.00	5,895.56	5,838.56	5,838.56	81.49	100.92	116.89	-1,438.77	2,936.84	2,982.44	2,811.45	170.99	17.442		
7,300.00	5,971.68	5,914.68	5,914.68	82.90	102.25	117.79	-1,438.77	2,936.84	3,018.87	2,846.05	172.83	17.468		
7,400.00	6,047.81	6,009.19	5,990.81	84.30	103.90	118.67	-1,438.77	2,936.84	3,056.24	2,881.29	174.95	17.469		
7,500.00	6,123.94	6,066.94	6,066.94	85.70	104.91	119.54	-1,438.77	2,936.84	3,094.52	2,918.11	176.42	17.541		
7,600.00	6,200.06	6,143.06	6,143.06	87.10	106.24	120.40	-1,438.77	2,936.84	3,133.68	2,955.50	178.18	17.587		
7,700.00	6,276.19	6,219.19	6,219.19	88.50	107.57	121.24	-1,438.77	2,936.84	3,173.68	2,993.75	179.93	17.639		
7,800.00	6,352.31	6,304.69	6,295.31	89.90	109.06	122.06	-1,438.77	2,936.84	3,214.48	3,032.67	181.82	17.680		
7,900.00	6,428.44	6,371.44	6,371.44	91.31	110.23	122.87	-1,438.77	2,936.84	3,256.07	3,072.71	183.36	17.758		
8,000.00	6,504.57	6,447.57	6,447.57	92.71	111.55	123.67	-1,438.77	2,936.84	3,298.41	3,113.35	185.05	17.824		
8,100.00	6,580.69	6,523.69	6,523.69	94.11	112.88	124.45	-1,438.77	2,936.84	3,341.47	3,154.74	186.73	17.894		
8,200.00	6,656.82	6,600.18	6,598.82	95.51	114.22	125.22	-1,438.77	2,936.84	3,385.22	3,196.82	188.40	17.968		
8,300.00	6,732.95	6,675.95	6,675.95	96.91	115.54	125.97	-1,438.77	2,936.84	3,429.64	3,239.59	190.05	18.046		
8,400.00	6,809.07	6,752.07	6,752.07	98.32	116.87	126.71	-1,438.77	2,936.84	3,474.71	3,283.02	191.69	18.127		
8,500.00	6,885.20	6,828.20	6,828.20	99.72	118.20	127.44	-1,438.77	2,936.84	3,520.39	3,327.07	193.32	18.210		
8,600.00	6,961.32	6,904.32	6,904.32	101.12	119.53	128.15	-1,438.77	2,936.84	3,566.67	3,371.73	194.94	18.296		
8,700.00	7,037.45	6,980.45	6,980.45	102.52	120.85	128.85	-1,438.77	2,936.84	3,613.51	3,416.96	196.55	18.385		
8,732.15	7,061.92	7,004.92	7,004.92	102.97	121.28	129.07	-1,438.77	2,936.84	3,628.69	3,431.63	197.07	18.414		
8,750.00	7,075.57	7,018.57	7,018.57	103.22	121.52	126.85	-1,438.77	2,936.84	3,636.91	3,439.56	197.35	18.428		
8,800.00	7,114.27	7,057.27	7,057.27	103.91	122.20	120.46	-1,438.77	2,936.84	3,657.55	3,459.38	198.17	18.457		
8,850.00	7,153.47	7,103.53	7,096.47	104.58	123.00	113.94	-1,438.77	2,936.84	3,674.56	3,475.44	199.12	18.454		
8,900.00	7,192.85	7,135.85	7,135.85	105.21	123.57	107.45	-1,438.77	2,936.84	3,687.86	3,488.04	199.82	18.456		
8,950.00	7,232.12	7,175.12	7,175.12	105.80	124.25	101.18	-1,438.77	2,936.84	3,697.38	3,496.75	200.64	18.428		
9,000.00	7,270.99	7,213.99	7,213.99	106.35	124.93	95.31	-1,438.77	2,936.84	3,703.10	3,501.67	201.43	18.384		
9,050.00	7,309.16	7,252.16	7,252.16	106.85	125.60	90.00	-1,438.77	2,936.84	3,705.00	3,502.80	202.20	18.323		
9,100.00	7,346.32	7,289.32	7,289.32	107.30	126.25	85.33	-1,438.77	2,936.84	3,703.11	3,500.18	202.93	18.248		
9,150.00	7,382.22	7,325.22	7,325.22	107.69	126.87	81.36	-1,438.77	2,936.84	3,697.45	3,493.85	203.61	18.160		
9,200.00	7,416.56	7,359.56	7,359.56	108.02	127.47	78.09	-1,438.77	2,936.84	3,688.11	3,483.88	204.23	18.058		
9,250.00	7,449.09	7,407.91	7,392.09	108.29	128.32	75.51	-1,438.77	2,936.84	3,675.17	3,470.10	205.07	17.921		
9,300.00	7,479.56	7,422.56	7,422.56	108.51	128.57	73.61	-1,438.77	2,936.84	3,658.74	3,453.45	205.29	17.822		
9,350.00	7,507.74	7,450.74	7,450.74	108.68	129.06	72.34	-1,438.77	2,936.84	3,638.96	3,433.24	205.72	17.689		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,476.41	7,476.41	108.79	129.51	71.70	-1,438.77	2,936.84	3,615.98	3,409.91	206.07	17.547		
9,450.00	7,556.39	7,500.61	7,499.39	108.86	129.93	71.69	-1,438.77	2,936.84	3,589.97	3,383.61	206.37	17.396		
9,500.00	7,576.48	7,519.48	7,519.48	108.88	130.26	72.31	-1,438.77	2,936.84	3,561.12	3,354.58	206.54	17.242		
9,550.00	7,593.55	7,536.55	7,536.55	108.86	130.56	73.58	-1,438.77	2,936.84	3,529.63	3,322.98	206.66	17.080		
9,600.00	7,607.46	7,550.46	7,550.46	108.80	130.80	75.57	-1,438.77	2,936.84	3,495.72	3,289.03	206.69	16.913		
9,650.00	7,618.11	7,561.11	7,561.11	108.71	130.99	78.32	-1,438.77	2,936.84	3,459.62	3,252.96	206.66	16.741		
9,700.00	7,625.41	7,568.41	7,568.41	108.59	131.12	81.94	-1,438.77	2,936.84	3,421.57	3,215.02	206.55	16.565		
9,750.00	7,629.30	7,572.30	7,572.30	108.45	131.18	86.53	-1,438.77	2,936.84	3,381.81	3,175.44	206.37	16.387		
9,781.81	7,630.00	7,573.00	7,573.00	108.35	131.20	90.00	-1,438.77	2,936.84	3,355.76	3,149.53	206.23	16.272		
9,800.00	7,630.00	7,573.00	7,573.00	108.29	131.20	90.00	-1,438.77	2,936.84	3,340.71	3,134.57	206.14	16.206		
9,900.00	7,630.00	7,573.00	7,573.00	107.97	131.20	90.00	-1,438.77	2,936.84	3,258.60	3,052.98	205.62	15.848		
10,000.00	7,630.00	7,573.00	7,573.00	107.67	131.20	90.00	-1,438.77	2,936.84	3,177.52	2,972.45	205.07	15.495		
10,100.00	7,630.00	7,573.00	7,573.00	107.38	131.20	90.00	-1,438.77	2,936.84	3,097.55	2,893.06	204.49	15.148		
10,200.00	7,630.00	7,573.00	7,573.00	107.10	131.20	90.00	-1,438.77	2,936.84	3,018.77	2,814.89	203.88	14.807		
10,300.00	7,630.00	7,573.00	7,573.00	106.84	131.20	90.00	-1,438.77	2,936.84	2,941.28	2,738.05	203.22	14.473		
10,400.00	7,630.00	7,573.00	7,573.00	106.59	131.20	90.00	-1,438.77	2,936.84	2,865.18	2,662.65	202.53	14.147		
10,500.00	7,630.00	7,573.00	7,573.00	106.35	131.20	90.00	-1,438.77	2,936.84	2,790.59	2,588.79	201.80	13.829		
10,600.00	7,630.00	7,573.00	7,573.00	106.13	131.20	90.00	-1,438.77	2,936.84	2,717.64	2,516.61	201.02	13.519		
10,700.00	7,630.00	7,573.00	7,573.00	105.92	131.20	90.00	-1,438.77	2,936.84	2,646.45	2,446.24	200.21	13.218		
10,800.00	7,630.00	7,573.00	7,573.00	105.72	131.20	90.00	-1,438.77	2,936.84	2,577.18	2,377.82	199.35	12.928		
10,900.00	7,630.00	7,573.00	7,573.00	105.54	131.20	90.00	-1,438.77	2,936.84	2,509.98	2,311.52	198.46	12.647		
11,000.00	7,630.00	7,573.00	7,573.00	105.37	131.20	90.00	-1,438.77	2,936.84	2,445.02	2,247.50	197.52	12.378		
11,100.00	7,630.00	7,573.00	7,573.00	105.21	131.20	90.00	-1,438.77	2,936.84	2,382.50	2,185.94	196.56	12.121		
11,200.00	7,630.00	7,573.00	7,573.00	105.06	131.20	90.00	-1,438.77	2,936.84	2,322.59	2,127.03	195.56	11.877		
11,300.00	7,630.00	7,573.00	7,573.00	104.93	131.20	90.00	-1,438.77	2,936.84	2,265.52	2,070.97	194.55	11.645		
11,400.00	7,630.00	7,573.00	7,573.00	104.82	131.20	90.00	-1,438.77	2,936.84	2,211.50	2,017.98	193.52	11.428		
11,500.00	7,630.00	7,573.00	7,573.00	104.72	131.20	90.00	-1,438.77	2,936.84	2,160.76	1,968.25	192.51	11.224		
11,600.00	7,630.00	7,573.00	7,573.00	104.63	131.20	90.00	-1,438.77	2,936.84	2,113.54	1,922.02	191.51	11.036		
11,700.00	7,630.00	7,573.00	7,573.00	104.55	131.20	90.00	-1,438.77	2,936.84	2,070.07	1,879.50	190.57	10.863		
11,800.00	7,630.00	7,573.00	7,573.00	104.50	131.20	90.00	-1,438.77	2,936.84	2,030.60	1,840.91	189.69	10.705		
11,900.00	7,630.00	7,573.00	7,573.00	104.45	131.20	90.00	-1,438.77	2,936.84	1,995.37	1,806.46	188.90	10.563		
12,000.00	7,630.00	7,573.00	7,573.00	104.43	131.20	90.00	-1,438.77	2,936.84	1,964.59	1,776.35	188.25	10.436		
12,100.00	7,630.00	7,573.00	7,573.00	104.42	131.20	90.00	-1,438.77	2,936.84	1,938.50	1,750.75	187.74	10.325		
12,200.00	7,630.00	7,573.00	7,573.00	104.42	131.20	90.00	-1,438.77	2,936.84	1,917.27	1,729.85	187.42	10.230		
12,300.00	7,630.00	7,573.00	7,573.00	104.45	131.20	90.00	-1,438.77	2,936.84	1,901.07	1,713.77	187.30	10.150		
12,400.00	7,630.00	7,573.00	7,573.00	104.49	131.20	90.00	-1,438.77	2,936.84	1,890.03	1,702.64	187.39	10.086		
12,500.00	7,630.00	7,573.00	7,573.00	104.55	131.20	90.00	-1,438.77	2,936.84	1,884.24	1,696.54	187.70	10.038		
12,559.26	7,630.00	7,573.00	7,573.00	104.59	131.20	90.00	-1,438.77	2,936.84	1,883.31	1,695.32	187.99	10.018 CC, ES		
12,600.00	7,630.00	7,573.00	7,573.00	104.63	131.20	90.00	-1,438.77	2,936.84	1,883.75	1,695.52	188.23	10.008		
12,700.00	7,630.00	7,573.00	7,573.00	104.73	131.20	90.00	-1,438.77	2,936.84	1,888.56	1,699.61	188.96	9.995 SF		
12,800.00	7,630.00	7,573.00	7,573.00	104.85	131.20	90.00	-1,438.77	2,936.84	1,898.64	1,708.77	189.86	10.000		
12,900.00	7,630.00	7,573.00	7,573.00	104.99	131.20	90.00	-1,438.77	2,936.84	1,913.89	1,722.97	190.92	10.025		
13,000.00	7,630.00	7,573.00	7,573.00	105.15	131.20	90.00	-1,438.77	2,936.84	1,934.20	1,742.10	192.10	10.069		
13,100.00	7,630.00	7,573.00	7,573.00	105.34	131.20	90.00	-1,438.77	2,936.84	1,959.41	1,766.05	193.36	10.134		
13,200.00	7,630.00	7,573.00	7,573.00	105.56	131.20	90.00	-1,438.77	2,936.84	1,989.33	1,794.65	194.67	10.219		
13,300.00	7,630.00	7,573.00	7,573.00	105.80	131.20	90.00	-1,438.77	2,936.84	2,023.75	1,827.73	196.02	10.324		
13,400.00	7,630.00	7,573.00	7,573.00	106.06	131.20	90.00	-1,438.77	2,936.84	2,062.45	1,865.09	197.36	10.450		
13,500.00	7,630.00	7,573.00	7,573.00	106.36	131.20	90.00	-1,438.77	2,936.84	2,105.20	1,906.51	198.68	10.596		
13,600.00	7,630.00	7,573.00	7,573.00	106.68	131.20	90.00	-1,438.77	2,936.84	2,151.75	1,951.77	199.97	10.760		
13,700.00	7,630.00	7,573.00	7,573.00	107.03	131.20	90.00	-1,438.77	2,936.84	2,201.85	2,000.64	201.21	10.943		
13,800.00	7,630.00	7,573.00	7,573.00	107.42	131.20	90.00	-1,438.77	2,936.84	2,255.28	2,052.89	202.40	11.143		
13,900.00	7,630.00	7,573.00	7,573.00	107.83	131.20	90.00	-1,438.77	2,936.84	2,311.81	2,108.29	203.52	11.359		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,573.00	7,573.00	108.28	131.20	90.00	-1,438.77	2,936.84	2,371.20	2,166.62	204.58	11.591		
14,100.00	7,630.00	7,573.00	7,573.00	108.77	131.20	90.00	-1,438.77	2,936.84	2,433.26	2,227.69	205.57	11.836		
14,200.00	7,630.00	7,573.00	7,573.00	109.29	131.20	90.00	-1,438.77	2,936.84	2,497.78	2,291.28	206.50	12.096		
14,300.00	7,630.00	7,573.00	7,573.00	109.84	131.20	90.00	-1,438.77	2,936.84	2,564.58	2,357.21	207.37	12.367		
14,400.00	7,630.00	7,573.00	7,573.00	110.43	131.20	90.00	-1,438.77	2,936.84	2,633.48	2,425.31	208.17	12.651		
14,500.00	7,630.00	7,573.00	7,573.00	111.06	131.20	90.00	-1,438.77	2,936.84	2,704.32	2,495.41	208.91	12.945		
14,600.00	7,630.00	7,573.00	7,573.00	111.72	131.20	90.00	-1,438.77	2,936.84	2,776.96	2,567.36	209.60	13.249		
14,700.00	7,630.00	7,573.00	7,573.00	112.42	131.20	90.00	-1,438.77	2,936.84	2,851.25	2,641.01	210.24	13.562		
14,800.00	7,630.00	7,573.00	7,573.00	113.16	131.20	90.00	-1,438.77	2,936.84	2,927.08	2,716.25	210.83	13.883		
14,900.00	7,630.00	7,573.00	7,573.00	113.94	131.20	90.00	-1,438.77	2,936.84	3,004.32	2,792.94	211.38	14.213		
15,000.00	7,630.00	7,573.00	7,573.00	114.75	131.20	90.00	-1,438.77	2,936.84	3,082.87	2,870.98	211.89	14.550		
15,100.00	7,630.00	7,573.00	7,573.00	115.60	131.20	90.00	-1,438.77	2,936.84	3,162.63	2,950.28	212.36	14.893		
15,200.00	7,630.00	7,573.00	7,573.00	116.48	131.20	90.00	-1,438.77	2,936.84	3,243.52	3,030.72	212.79	15.243		
15,300.00	7,630.00	7,573.00	7,573.00	117.40	131.20	90.00	-1,438.77	2,936.84	3,325.44	3,112.25	213.19	15.598		
15,400.00	7,630.00	7,573.00	7,573.00	118.35	131.20	90.00	-1,438.77	2,936.84	3,408.33	3,194.76	213.57	15.959		
15,500.00	7,630.00	7,573.00	7,573.00	119.34	131.20	90.00	-1,438.77	2,936.84	3,492.11	3,278.20	213.91	16.325		
15,600.00	7,630.00	7,573.00	7,573.00	120.35	131.20	90.00	-1,438.77	2,936.84	3,576.73	3,362.50	214.23	16.696		
15,700.00	7,630.00	7,573.00	7,573.00	121.40	131.20	90.00	-1,438.77	2,936.84	3,662.12	3,447.59	214.53	17.070		
15,800.00	7,630.00	7,573.00	7,573.00	122.48	131.20	90.00	-1,438.77	2,936.84	3,748.24	3,533.43	214.81	17.449		
15,900.00	7,630.00	7,573.00	7,573.00	123.58	131.20	90.00	-1,438.77	2,936.84	3,835.03	3,619.96	215.07	17.832		
16,000.00	7,630.00	7,573.00	7,573.00	124.71	131.20	90.00	-1,438.77	2,936.84	3,922.45	3,707.14	215.31	18.218		
16,100.00	7,630.00	7,573.00	7,573.00	125.87	131.20	90.00	-1,438.77	2,936.84	4,010.45	3,794.92	215.53	18.607		
16,200.00	7,630.00	7,573.00	7,573.00	127.05	131.20	90.00	-1,438.77	2,936.84	4,099.01	3,883.26	215.75	18.999		
16,300.00	7,630.00	7,573.00	7,573.00	128.26	131.20	90.00	-1,438.77	2,936.84	4,188.08	3,972.14	215.94	19.394		
16,400.00	7,630.00	7,573.00	7,573.00	129.48	131.20	90.00	-1,438.77	2,936.84	4,277.64	4,061.51	216.13	19.792		
16,500.00	7,630.00	7,573.00	7,573.00	130.73	131.20	90.00	-1,438.77	2,936.84	4,367.65	4,151.34	216.30	20.192		
16,600.00	7,630.00	7,573.00	7,573.00	132.00	131.20	90.00	-1,438.77	2,936.84	4,458.08	4,241.61	216.47	20.595		
16,700.00	7,630.00	7,573.00	7,573.00	133.29	131.20	90.00	-1,438.77	2,936.84	4,548.91	4,332.30	216.62	21.000		
16,800.00	7,630.00	7,573.00	7,573.00	134.59	131.20	90.00	-1,438.77	2,936.84	4,640.13	4,423.36	216.76	21.406		
16,900.00	7,630.00	7,573.00	7,573.00	135.91	131.20	90.00	-1,438.77	2,936.84	4,731.69	4,514.79	216.90	21.815		
17,000.00	7,630.00	7,573.00	7,573.00	137.25	131.20	90.00	-1,438.77	2,936.84	4,823.60	4,606.56	217.03	22.225		
17,100.00	7,630.00	7,573.00	7,573.00	138.61	131.20	90.00	-1,438.77	2,936.84	4,915.81	4,698.66	217.15	22.638		
17,200.00	7,630.00	7,573.00	7,573.00	139.97	131.20	90.00	-1,438.77	2,936.84	5,008.33	4,791.06	217.27	23.051		
17,300.00	7,630.00	7,573.00	7,573.00	141.36	131.20	90.00	-1,438.77	2,936.84	5,101.13	4,883.75	217.38	23.466		
17,400.00	7,630.00	7,573.00	7,573.00	142.75	131.20	90.00	-1,438.77	2,936.84	5,194.20	4,976.71	217.48	23.883		
17,500.00	7,630.00	7,573.00	7,573.00	144.16	131.20	90.00	-1,438.77	2,936.84	5,287.52	5,069.93	217.58	24.301		
17,600.00	7,630.00	7,573.00	7,573.00	145.58	131.20	90.00	-1,438.77	2,936.84	5,381.07	5,163.40	217.68	24.720		
17,700.00	7,630.00	7,573.00	7,573.00	147.01	131.20	90.00	-1,438.77	2,936.84	5,474.86	5,257.09	217.77	25.141		
17,800.00	7,630.00	7,573.00	7,573.00	148.45	131.20	90.00	-1,438.77	2,936.84	5,568.87	5,351.01	217.86	25.562		
17,900.00	7,630.00	7,573.00	7,573.00	149.91	131.20	90.00	-1,438.77	2,936.84	5,663.07	5,445.14	217.94	25.985		
18,000.00	7,630.00	7,573.00	7,573.00	151.37	131.20	90.00	-1,438.77	2,936.84	5,757.48	5,539.46	218.02	26.408		
18,100.00	7,630.00	7,573.00	7,573.00	152.84	131.20	90.00	-1,438.77	2,936.84	5,852.07	5,633.97	218.10	26.833		
18,200.00	7,630.00	7,573.00	7,573.00	154.32	131.20	90.00	-1,438.77	2,936.84	5,946.84	5,728.67	218.17	27.258		
18,300.00	7,630.00	7,573.00	7,573.00	155.81	131.20	90.00	-1,438.77	2,936.84	6,041.77	5,823.53	218.24	27.684		
18,400.00	7,630.00	7,573.00	7,573.00	157.31	131.20	90.00	-1,438.77	2,936.84	6,136.87	5,918.56	218.31	28.111		
18,500.00	7,630.00	7,573.00	7,573.00	158.81	131.20	90.00	-1,438.77	2,936.84	6,232.12	6,013.74	218.37	28.539		
18,600.00	7,630.00	7,573.00	7,573.00	160.32	131.20	90.00	-1,438.77	2,936.84	6,327.52	6,109.08	218.44	28.967		
18,700.00	7,630.00	7,573.00	7,573.00	161.84	131.20	90.00	-1,438.77	2,936.84	6,423.05	6,204.55	218.50	29.396		
18,800.00	7,630.00	7,573.00	7,573.00	163.37	131.20	90.00	-1,438.77	2,936.84	6,518.72	6,300.16	218.56	29.826		
18,900.00	7,630.00	7,573.00	7,573.00	164.90	131.20	90.00	-1,438.77	2,936.84	6,614.52	6,395.90	218.62	30.256		
19,000.00	7,630.00	7,573.00	7,573.00	166.43	131.20	90.00	-1,438.77	2,936.84	6,710.44	6,491.77	218.67	30.687		
19,100.00	7,630.00	7,573.00	7,573.00	167.98	131.20	90.00	-1,438.77	2,936.84	6,806.48	6,587.75	218.73	31.118		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	7,630.00	7,573.00	7,573.00	169.53	131.20	90.00	-1,438.77	2,936.84	6,902.63	6,683.85	218.78	31.550	
19,300.00	7,630.00	7,573.00	7,573.00	171.08	131.20	90.00	-1,438.77	2,936.84	6,998.89	6,780.06	218.83	31.983	
19,400.00	7,630.00	7,573.00	7,573.00	172.64	131.20	90.00	-1,438.77	2,936.84	7,095.26	6,876.37	218.89	32.415	
19,500.00	7,630.00	7,573.00	7,573.00	174.21	131.20	90.00	-1,438.77	2,936.84	7,191.72	6,972.78	218.94	32.848	
19,518.56	7,630.00	7,573.00	7,573.00	174.50	131.20	90.00	-1,438.77	2,936.84	7,209.63	6,990.69	218.95	32.929	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	108.75	-1,434.94	4,227.72	4,464.75					
100.00	100.00	64.00	64.00	0.13	0.49	108.75	-1,434.94	4,227.72	4,464.60	4,463.98	0.62	7,197.176		
200.00	200.00	164.00	164.00	0.49	1.88	108.75	-1,434.94	4,227.72	4,464.60	4,462.24	2.37	1,884.492		
300.00	300.00	264.00	264.00	0.85	3.62	108.75	-1,434.94	4,227.72	4,464.60	4,460.13	4.47	998.139		
400.00	400.00	364.00	364.00	1.21	5.37	108.75	-1,434.94	4,227.72	4,464.60	4,458.03	6.58	678.849		
500.00	499.98	463.98	463.98	1.56	7.11	42.06	-1,434.94	4,227.72	4,463.31	4,454.63	8.68	514.465		
600.00	599.84	563.84	563.84	1.92	8.85	42.15	-1,434.94	4,227.72	4,459.42	4,448.65	10.77	413.946		
700.00	699.45	663.45	663.45	2.29	10.59	42.32	-1,434.94	4,227.72	4,452.96	4,440.09	12.87	345.940		
800.00	798.70	762.70	762.70	2.67	12.33	42.54	-1,434.94	4,227.72	4,443.93	4,428.96	14.97	296.803		
900.00	897.47	861.47	861.47	3.07	14.05	42.84	-1,434.94	4,227.72	4,432.37	4,415.29	17.08	259.575		
1,000.00	995.62	959.62	959.62	3.50	15.76	43.20	-1,434.94	4,227.72	4,418.30	4,399.12	19.18	230.341		
1,100.00	1,093.06	1,057.06	1,057.06	3.96	17.46	43.63	-1,434.94	4,227.72	4,401.76	4,380.46	21.29	206.729		
1,200.00	1,189.64	1,153.64	1,153.64	4.46	19.15	44.12	-1,434.94	4,227.72	4,382.79	4,359.38	23.41	187.222		
1,300.00	1,285.27	1,249.27	1,249.27	5.00	20.82	44.69	-1,434.94	4,227.72	4,361.45	4,335.92	25.53	170.803		
1,400.00	1,379.82	1,343.82	1,343.82	5.60	22.47	45.33	-1,434.94	4,227.72	4,337.80	4,310.13	27.67	156.766		
1,500.00	1,473.17	1,437.17	1,437.17	6.25	24.10	46.04	-1,434.94	4,227.72	4,311.90	4,282.08	29.82	144.606		
1,600.00	1,565.21	1,529.21	1,529.21	6.95	25.70	46.83	-1,434.94	4,227.72	4,283.82	4,251.84	31.98	133.951		
1,700.00	1,655.84	1,619.84	1,619.84	7.72	27.29	47.69	-1,434.94	4,227.72	4,253.65	4,219.49	34.16	124.525		
1,800.00	1,744.94	1,708.94	1,708.94	8.55	28.84	48.63	-1,434.94	4,227.72	4,221.47	4,185.11	36.36	116.112		
1,900.00	1,832.39	1,803.61	1,796.39	9.45	30.49	49.64	-1,434.94	4,227.72	4,187.37	4,148.67	38.70	108.196		
2,000.00	1,918.11	1,882.11	1,882.11	10.41	31.86	50.73	-1,434.94	4,227.72	4,151.46	4,110.65	40.82	101.706		
2,100.00	2,001.97	1,965.97	1,965.97	11.45	33.33	51.90	-1,434.94	4,227.72	4,113.85	4,070.76	43.09	95.478		
2,200.00	2,083.88	2,047.88	2,047.88	12.56	34.76	53.14	-1,434.94	4,227.72	4,074.65	4,029.27	45.38	89.781		
2,300.00	2,163.74	2,127.74	2,127.74	13.74	36.15	54.46	-1,434.94	4,227.72	4,033.99	3,986.28	47.71	84.548		
2,400.00	2,241.45	2,205.45	2,205.45	14.99	37.51	55.85	-1,434.94	4,227.72	3,992.00	3,941.93	50.07	79.721		
2,421.22	2,257.65	2,221.65	2,221.65	15.26	37.79	56.16	-1,434.94	4,227.72	3,982.93	3,932.35	50.58	78.744		
2,500.00	2,317.63	2,281.63	2,281.63	16.29	38.84	56.67	-1,434.94	4,227.72	3,949.35	3,896.88	52.47	75.269		
2,600.00	2,393.75	2,357.75	2,357.75	17.62	40.16	57.34	-1,434.94	4,227.72	3,907.27	3,852.37	54.90	71.170		
2,700.00	2,469.88	2,433.88	2,433.88	18.95	41.49	58.01	-1,434.94	4,227.72	3,865.82	3,808.46	57.36	67.390		
2,800.00	2,546.01	2,510.01	2,510.01	20.30	42.82	58.70	-1,434.94	4,227.72	3,825.02	3,765.16	59.86	63.899		
2,900.00	2,622.13	2,586.13	2,586.13	21.65	44.15	59.40	-1,434.94	4,227.72	3,784.89	3,722.51	62.39	60.670		
3,000.00	2,698.26	2,662.26	2,662.26	23.01	45.48	60.10	-1,434.94	4,227.72	3,745.46	3,680.52	64.94	57.676		
3,100.00	2,774.38	2,738.38	2,738.38	24.37	46.81	60.82	-1,434.94	4,227.72	3,706.74	3,639.22	67.52	54.898		
3,200.00	2,850.51	2,814.51	2,814.51	25.74	48.14	61.54	-1,434.94	4,227.72	3,668.75	3,598.62	70.13	52.315		
3,300.00	2,926.64	2,909.36	2,890.64	27.11	49.79	62.28	-1,434.94	4,227.72	3,631.53	3,558.44	73.09	49.686		
3,400.00	3,002.76	2,966.76	2,966.76	28.49	50.79	63.03	-1,434.94	4,227.72	3,595.09	3,519.67	75.42	47.667		
3,500.00	3,078.89	3,042.89	3,042.89	29.87	52.12	63.78	-1,434.94	4,227.72	3,559.46	3,481.36	78.10	45.574		
3,600.00	3,155.02	3,119.02	3,119.02	31.25	53.45	64.55	-1,434.94	4,227.72	3,524.67	3,443.86	80.81	43.617		
3,700.00	3,231.14	3,204.86	3,195.14	32.63	54.95	65.33	-1,434.94	4,227.72	3,490.73	3,407.02	83.71	41.701		
3,800.00	3,307.27	3,271.27	3,271.27	34.01	56.11	66.11	-1,434.94	4,227.72	3,457.67	3,371.38	86.29	40.071		
3,900.00	3,383.39	3,347.39	3,347.39	35.40	57.44	66.91	-1,434.94	4,227.72	3,425.52	3,336.46	89.06	38.463		
4,000.00	3,459.52	3,423.52	3,423.52	36.79	58.77	67.72	-1,434.94	4,227.72	3,394.31	3,302.46	91.85	36.954		
4,100.00	3,535.65	3,500.35	3,499.65	38.18	60.11	68.53	-1,434.94	4,227.72	3,364.06	3,269.38	94.68	35.533		
4,200.00	3,611.77	3,575.77	3,575.77	39.57	61.42	69.35	-1,434.94	4,227.72	3,334.79	3,237.30	97.49	34.206		
4,300.00	3,687.90	3,651.90	3,651.90	40.96	62.75	70.19	-1,434.94	4,227.72	3,306.54	3,206.20	100.34	32.954		
4,400.00	3,764.02	3,728.02	3,728.02	42.35	64.08	71.03	-1,434.94	4,227.72	3,279.32	3,176.13	103.20	31.777		
4,500.00	3,840.15	3,804.15	3,804.15	43.74	65.41	71.88	-1,434.94	4,227.72	3,253.17	3,147.10	106.07	30.669		
4,600.00	3,916.28	3,880.28	3,880.28	45.13	66.74	72.61	-1,434.94	4,227.72	3,228.12	3,119.15	108.96	29.626		
4,700.00	3,992.40	3,956.40	3,956.40	46.53	68.07	73.74	-1,434.94	4,227.72	3,204.17	3,092.31	111.86	28.644		
4,800.00	4,068.53	4,032.53	4,032.53	47.92	69.39	74.48	-1,434.94	4,227.72	3,181.37	3,066.61	114.77	27.720		
4,900.00	4,144.66	4,108.66	4,108.66	49.32	70.72	75.36	-1,434.94	4,227.72	3,159.74	3,042.06	117.69	26.849		
5,000.00	4,220.78	4,184.78	4,184.78	50.71	72.05	76.25	-1,434.94	4,227.72	3,139.30	3,018.69	120.61	26.029		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,260.91	4,260.91	52.11	73.38	77.15	-1,434.94	4,227.72	3,120.07	2,996.53	123.53	25.257		
5,200.00	4,373.03	4,337.03	4,337.03	53.51	74.71	78.05	-1,434.94	4,227.72	3,102.08	2,975.61	126.46	24.530		
5,300.00	4,449.16	4,413.16	4,413.16	54.90	76.04	78.96	-1,434.94	4,227.72	3,085.34	2,955.95	129.39	23.845		
5,400.00	4,525.29	4,489.29	4,489.29	56.30	77.37	79.87	-1,434.94	4,227.72	3,069.89	2,937.57	132.31	23.202		
5,500.00	4,601.41	4,565.41	4,565.41	57.70	78.70	80.79	-1,434.94	4,227.72	3,055.73	2,920.49	135.23	22.596		
5,600.00	4,677.54	4,641.54	4,641.54	59.10	80.02	81.72	-1,434.94	4,227.72	3,042.89	2,904.74	138.15	22.026		
5,700.00	4,753.66	4,717.66	4,717.66	60.49	81.35	82.65	-1,434.94	4,227.72	3,031.38	2,890.33	141.05	21.491		
5,800.00	4,829.79	4,806.21	4,793.79	61.89	82.90	83.58	-1,434.94	4,227.72	3,021.22	2,877.06	144.16	20.957		
5,900.00	4,905.92	4,869.92	4,869.92	63.29	84.01	84.52	-1,434.94	4,227.72	3,012.42	2,865.60	146.82	20.518		
6,000.00	4,982.04	4,946.04	4,946.04	64.69	85.34	85.46	-1,434.94	4,227.72	3,005.00	2,855.31	149.68	20.076		
6,100.00	5,058.17	5,022.17	5,022.17	66.09	86.67	86.40	-1,434.94	4,227.72	2,998.96	2,846.43	152.53	19.662		
6,200.00	5,134.30	5,101.70	5,098.30	67.49	88.06	87.34	-1,434.94	4,227.72	2,994.31	2,838.90	155.41	19.267		
6,300.00	5,210.42	5,174.42	5,174.42	68.89	89.32	88.29	-1,434.94	4,227.72	2,991.06	2,832.91	158.15	18.913		
6,400.00	5,286.55	5,250.55	5,250.55	70.29	90.65	89.23	-1,434.94	4,227.72	2,989.21	2,828.29	160.92	18.575		
6,481.24	5,348.40	5,312.40	5,312.40	71.43	91.73	90.00	-1,434.94	4,227.72	2,988.75	2,825.59	163.16	18.318		
6,500.00	5,362.67	5,326.67	5,326.67	71.69	91.98	90.18	-1,434.94	4,227.72	2,988.77	2,825.10	163.67	18.261		
6,600.00	5,438.80	5,402.80	5,402.80	73.09	93.31	91.12	-1,434.94	4,227.72	2,989.74	2,823.35	166.39	17.968		
6,700.00	5,514.93	5,478.93	5,478.93	74.49	94.64	92.07	-1,434.94	4,227.72	2,992.11	2,823.04	169.08	17.697		
6,800.00	5,591.05	5,555.05	5,555.05	75.89	95.97	93.01	-1,434.94	4,227.72	2,995.89	2,824.15	171.73	17.445		
6,900.00	5,667.18	5,631.18	5,631.18	77.29	97.30	93.96	-1,434.94	4,227.72	3,001.06	2,826.70	174.36	17.212		
7,000.00	5,743.30	5,707.30	5,707.30	78.69	98.63	94.90	-1,434.94	4,227.72	3,007.62	2,830.68	176.94	16.998		
7,100.00	5,819.43	5,783.43	5,783.43	80.09	99.95	95.84	-1,434.94	4,227.72	3,015.56	2,836.06	179.50	16.800		
7,200.00	5,895.56	5,859.56	5,859.56	81.49	101.28	96.77	-1,434.94	4,227.72	3,024.87	2,842.86	182.01	16.619		
7,300.00	5,971.68	5,935.68	5,935.68	82.90	102.61	97.70	-1,434.94	4,227.72	3,035.54	2,851.05	184.49	16.454		
7,400.00	6,047.81	6,011.81	6,011.81	84.30	103.94	98.63	-1,434.94	4,227.72	3,047.55	2,860.62	186.93	16.303		
7,500.00	6,123.94	6,087.94	6,087.94	85.70	105.27	99.55	-1,434.94	4,227.72	3,060.89	2,871.56	189.33	16.167		
7,600.00	6,200.06	6,164.06	6,164.06	87.10	106.60	100.47	-1,434.94	4,227.72	3,075.53	2,883.84	191.69	16.044		
7,700.00	6,276.19	6,240.19	6,240.19	88.50	107.93	101.38	-1,434.94	4,227.72	3,091.47	2,897.46	194.01	15.934		
7,800.00	6,352.31	6,316.31	6,316.31	89.90	109.25	102.29	-1,434.94	4,227.72	3,108.68	2,912.38	196.30	15.836		
7,900.00	6,428.44	6,407.56	6,392.44	91.31	110.85	103.19	-1,434.94	4,227.72	3,127.14	2,928.33	198.81	15.729		
8,000.00	6,504.57	6,468.57	6,468.57	92.71	111.91	104.08	-1,434.94	4,227.72	3,146.82	2,946.07	200.75	15.675		
8,100.00	6,580.69	6,544.69	6,544.69	94.11	113.24	104.97	-1,434.94	4,227.72	3,167.72	2,964.79	202.93	15.610		
8,200.00	6,656.82	6,620.82	6,620.82	95.51	114.57	105.85	-1,434.94	4,227.72	3,189.79	2,984.73	205.06	15.555		
8,300.00	6,732.95	6,703.06	6,696.95	96.91	116.00	106.72	-1,434.94	4,227.72	3,213.02	3,005.76	207.26	15.502		
8,400.00	6,809.07	6,773.07	6,773.07	98.32	117.23	107.58	-1,434.94	4,227.72	3,237.39	3,028.17	209.22	15.474		
8,500.00	6,885.20	6,849.20	6,849.20	99.72	118.55	108.44	-1,434.94	4,227.72	3,262.86	3,051.61	211.25	15.446		
8,600.00	6,961.32	6,925.32	6,925.32	101.12	119.88	109.29	-1,434.94	4,227.72	3,289.41	3,076.17	213.24	15.426		
8,700.00	7,037.45	7,001.45	7,001.45	102.52	121.21	110.13	-1,434.94	4,227.72	3,317.02	3,101.81	215.21	15.413		
8,732.15	7,061.92	7,025.92	7,025.92	102.97	121.64	110.39	-1,434.94	4,227.72	3,326.11	3,110.28	215.83	15.411		
8,750.00	7,075.57	7,039.57	7,039.57	103.22	121.88	108.50	-1,434.94	4,227.72	3,330.94	3,114.76	216.18	15.408		
8,800.00	7,114.27	7,078.27	7,078.27	103.91	122.55	102.92	-1,434.94	4,227.72	3,341.77	3,124.61	217.16	15.389		
8,850.00	7,153.47	7,117.47	7,117.47	104.58	123.24	97.04	-1,434.94	4,227.72	3,348.58	3,130.44	218.15	15.350		
8,900.00	7,192.85	7,156.85	7,156.85	105.21	123.92	91.06	-1,434.94	4,227.72	3,351.34	3,132.20	219.14	15.293		
8,950.00	7,232.12	7,203.88	7,196.12	105.80	124.75	85.17	-1,434.94	4,227.72	3,350.03	3,129.78	220.25	15.210		
9,000.00	7,270.99	7,234.99	7,234.99	106.35	125.29	79.57	-1,434.94	4,227.72	3,344.66	3,123.59	221.06	15.130		
9,050.00	7,309.16	7,273.16	7,273.16	106.85	125.95	74.44	-1,434.94	4,227.72	3,335.27	3,113.29	221.98	15.025		
9,100.00	7,346.32	7,310.32	7,310.32	107.30	126.60	69.86	-1,434.94	4,227.72	3,321.94	3,099.08	222.86	14.906		
9,150.00	7,382.22	7,346.22	7,346.22	107.69	127.23	65.90	-1,434.94	4,227.72	3,304.75	3,081.06	223.69	14.774		
9,200.00	7,416.56	7,380.56	7,380.56	108.02	127.83	62.58	-1,434.94	4,227.72	3,283.82	3,059.36	224.47	14.629		
9,250.00	7,449.09	7,413.09	7,413.09	108.29	128.40	59.88	-1,434.94	4,227.72	3,259.30	3,034.12	225.18	14.474		
9,300.00	7,479.56	7,443.56	7,443.56	108.51	128.93	57.79	-1,434.94	4,227.72	3,231.35	3,005.52	225.83	14.309		
9,350.00	7,507.74	7,471.74	7,471.74	108.68	129.42	56.30	-1,434.94	4,227.72	3,200.16	2,973.75	226.41	14.135		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,502.59	7,497.41	108.79	129.96	55.41	-1,434.94	4,227.72	3,165.93	2,938.93	227.00	13.947		
9,450.00	7,556.39	7,520.39	7,520.39	108.86	130.27	55.15	-1,434.94	4,227.72	3,128.90	2,901.55	227.35	13.763		
9,500.00	7,576.48	7,540.48	7,540.48	108.88	130.62	55.60	-1,434.94	4,227.72	3,089.32	2,861.60	227.71	13.567		
9,550.00	7,593.55	7,557.55	7,557.55	108.86	130.92	56.89	-1,434.94	4,227.72	3,047.44	2,819.44	228.00	13.366		
9,600.00	7,607.46	7,571.46	7,571.46	108.80	131.16	59.26	-1,434.94	4,227.72	3,003.56	2,775.34	228.22	13.161		
9,650.00	7,618.11	7,582.11	7,582.11	108.71	131.35	63.19	-1,434.94	4,227.72	2,957.97	2,729.60	228.36	12.953		
9,700.00	7,625.41	7,589.41	7,589.41	108.59	131.47	69.54	-1,434.94	4,227.72	2,910.98	2,682.53	228.45	12.743		
9,750.00	7,629.30	7,606.70	7,593.30	108.45	131.78	79.98	-1,434.94	4,227.72	2,862.91	2,634.21	228.70	12.518		
9,781.81	7,630.00	7,606.00	7,594.00	108.35	131.76	90.00	-1,434.94	4,227.72	2,831.93	2,603.27	228.66	12.385		
9,800.00	7,630.00	7,606.00	7,594.00	108.29	131.76	90.00	-1,434.94	4,227.72	2,814.14	2,585.50	228.64	12.308		
9,900.00	7,630.00	7,606.00	7,594.00	107.97	131.76	90.00	-1,434.94	4,227.72	2,716.46	2,487.92	228.54	11.886		
10,000.00	7,630.00	7,606.00	7,594.00	107.67	131.76	90.00	-1,434.94	4,227.72	2,618.96	2,390.53	228.43	11.465		
10,100.00	7,630.00	7,606.00	7,594.00	107.38	131.76	90.00	-1,434.94	4,227.72	2,521.66	2,293.35	228.31	11.045		
10,200.00	7,630.00	7,606.00	7,594.00	107.10	131.76	90.00	-1,434.94	4,227.72	2,424.57	2,196.40	228.17	10.626		
10,300.00	7,630.00	7,606.00	7,594.00	106.84	131.76	90.00	-1,434.94	4,227.72	2,327.73	2,099.71	228.02	10.209		
10,400.00	7,630.00	7,606.00	7,594.00	106.59	131.76	90.00	-1,434.94	4,227.72	2,231.17	2,003.32	227.84	9.793		
10,500.00	7,630.00	7,606.00	7,594.00	106.35	131.76	90.00	-1,434.94	4,227.72	2,134.92	1,907.28	227.64	9.378		
10,600.00	7,630.00	7,606.00	7,594.00	106.13	131.76	90.00	-1,434.94	4,227.72	2,039.04	1,811.63	227.41	8.966		
10,700.00	7,630.00	7,606.00	7,594.00	105.92	131.76	90.00	-1,434.94	4,227.72	1,943.57	1,716.42	227.15	8.556		
10,800.00	7,630.00	7,606.00	7,594.00	105.72	131.76	90.00	-1,434.94	4,227.72	1,848.58	1,621.74	226.84	8.149		
10,900.00	7,630.00	7,606.00	7,594.00	105.54	131.76	90.00	-1,434.94	4,227.72	1,754.15	1,527.66	226.48	7.745		
11,000.00	7,630.00	7,606.00	7,594.00	105.37	131.76	90.00	-1,434.94	4,227.72	1,660.37	1,434.31	226.06	7.345		
11,100.00	7,630.00	7,606.00	7,594.00	105.21	131.76	90.00	-1,434.94	4,227.72	1,567.36	1,341.79	225.56	6.949		
11,200.00	7,630.00	7,606.00	7,594.00	105.06	131.76	90.00	-1,434.94	4,227.72	1,475.26	1,250.30	224.96	6.558		
11,300.00	7,630.00	7,606.00	7,594.00	104.93	131.76	90.00	-1,434.94	4,227.72	1,384.26	1,160.02	224.24	6.173		
11,400.00	7,630.00	7,606.00	7,594.00	104.82	131.76	90.00	-1,434.94	4,227.72	1,294.59	1,071.22	223.37	5.796		
11,500.00	7,630.00	7,606.00	7,594.00	104.72	131.76	90.00	-1,434.94	4,227.72	1,206.54	984.25	222.30	5.428		
11,600.00	7,630.00	7,606.00	7,594.00	104.63	131.76	90.00	-1,434.94	4,227.72	1,120.51	899.54	220.97	5.071		
11,700.00	7,630.00	7,606.00	7,594.00	104.55	131.76	90.00	-1,434.94	4,227.72	1,036.98	817.66	219.31	4.728		
11,800.00	7,630.00	7,606.00	7,594.00	104.50	131.76	90.00	-1,434.94	4,227.72	956.61	739.37	217.24	4.404		
11,900.00	7,630.00	7,606.00	7,594.00	104.45	131.76	90.00	-1,434.94	4,227.72	880.28	665.65	214.63	4.101		
12,000.00	7,630.00	7,606.00	7,594.00	104.43	131.76	90.00	-1,434.94	4,227.72	809.12	597.76	211.36	3.828		
12,100.00	7,630.00	7,606.00	7,594.00	104.42	131.76	90.00	-1,434.94	4,227.72	744.62	537.28	207.34	3.591		
12,200.00	7,630.00	7,606.00	7,594.00	104.42	131.76	90.00	-1,434.94	4,227.72	688.65	486.08	202.58	3.399		
12,300.00	7,630.00	7,606.00	7,594.00	104.45	131.76	90.00	-1,434.94	4,227.72	643.45	446.10	197.36	3.260		
12,400.00	7,630.00	7,606.00	7,594.00	104.49	131.76	90.00	-1,434.94	4,227.72	611.40	418.96	192.44	3.177		
12,500.00	7,630.00	7,606.00	7,594.00	104.55	131.76	90.00	-1,434.94	4,227.72	594.64	405.52	189.12	3.144		
12,551.07	7,630.00	7,606.00	7,594.00	104.58	131.76	90.00	-1,434.94	4,227.72	592.45	403.97	188.48	3.143 CC, ES, SF		
12,600.00	7,630.00	7,606.00	7,594.00	104.63	131.76	90.00	-1,434.94	4,227.72	594.46	405.84	188.63	3.152		
12,700.00	7,630.00	7,606.00	7,594.00	104.73	131.76	90.00	-1,434.94	4,227.72	610.88	419.78	191.10	3.197		
12,800.00	7,630.00	7,606.00	7,594.00	104.85	131.76	90.00	-1,434.94	4,227.72	642.62	447.12	195.50	3.287		
12,900.00	7,630.00	7,606.00	7,594.00	104.99	131.76	90.00	-1,434.94	4,227.72	687.56	487.07	200.49	3.429		
13,000.00	7,630.00	7,606.00	7,594.00	105.15	131.76	90.00	-1,434.94	4,227.72	743.32	538.11	205.22	3.622		
13,100.00	7,630.00	7,606.00	7,594.00	105.34	131.76	90.00	-1,434.94	4,227.72	807.66	598.36	209.30	3.859		
13,200.00	7,630.00	7,606.00	7,594.00	105.56	131.76	90.00	-1,434.94	4,227.72	878.69	666.02	212.67	4.132		
13,300.00	7,630.00	7,606.00	7,594.00	105.80	131.76	90.00	-1,434.94	4,227.72	954.93	739.52	215.41	4.433		
13,400.00	7,630.00	7,606.00	7,594.00	106.06	131.76	90.00	-1,434.94	4,227.72	1,035.21	817.61	217.61	4.757		
13,500.00	7,630.00	7,606.00	7,594.00	106.36	131.76	90.00	-1,434.94	4,227.72	1,118.68	899.30	219.39	5.099		
13,600.00	7,630.00	7,606.00	7,594.00	106.68	131.76	90.00	-1,434.94	4,227.72	1,204.67	983.85	220.83	5.455		
13,700.00	7,630.00	7,606.00	7,594.00	107.03	131.76	90.00	-1,434.94	4,227.72	1,292.68	1,070.68	222.01	5.823		
13,800.00	7,630.00	7,606.00	7,594.00	107.42	131.76	90.00	-1,434.94	4,227.72	1,382.32	1,159.34	222.98	6.199		
13,900.00	7,630.00	7,606.00	7,594.00	107.83	131.76	90.00	-1,434.94	4,227.72	1,473.29	1,249.51	223.78	6.584		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
14,000.00	7,630.00	7,606.00	7,594.00	108.28	131.76	90.00	-1,434.94	4,227.72	1,565.37	1,340.91	224.46	6.974		
14,100.00	7,630.00	7,606.00	7,594.00	108.77	131.76	90.00	-1,434.94	4,227.72	1,658.36	1,433.33	225.04	7.369		
14,200.00	7,630.00	7,606.00	7,594.00	109.29	131.76	90.00	-1,434.94	4,227.72	1,752.13	1,526.60	225.53	7.769		
14,300.00	7,630.00	7,606.00	7,594.00	109.84	131.76	90.00	-1,434.94	4,227.72	1,846.55	1,620.60	225.95	8.173		
14,400.00	7,630.00	7,606.00	7,594.00	110.43	131.76	90.00	-1,434.94	4,227.72	1,941.53	1,715.22	226.31	8.579		
14,500.00	7,630.00	7,606.00	7,594.00	111.06	131.76	90.00	-1,434.94	4,227.72	2,036.99	1,810.36	226.63	8.988		
14,600.00	7,630.00	7,606.00	7,594.00	111.72	131.76	90.00	-1,434.94	4,227.72	2,132.86	1,905.95	226.91	9.400		
14,700.00	7,630.00	7,606.00	7,594.00	112.42	131.76	90.00	-1,434.94	4,227.72	2,229.10	2,001.95	227.15	9.813		
14,800.00	7,630.00	7,606.00	7,594.00	113.16	131.76	90.00	-1,434.94	4,227.72	2,325.65	2,098.28	227.37	10.228		
14,900.00	7,630.00	7,606.00	7,594.00	113.94	131.76	90.00	-1,434.94	4,227.72	2,422.49	2,194.92	227.57	10.645		
15,000.00	7,630.00	7,606.00	7,594.00	114.75	131.76	90.00	-1,434.94	4,227.72	2,519.57	2,291.83	227.74	11.063		
15,100.00	7,630.00	7,606.00	7,594.00	115.60	131.76	90.00	-1,434.94	4,227.72	2,616.87	2,388.97	227.90	11.482		
15,200.00	7,630.00	7,606.00	7,594.00	116.48	131.76	90.00	-1,434.94	4,227.72	2,714.37	2,486.33	228.04	11.903		
15,300.00	7,630.00	7,606.00	7,594.00	117.40	131.76	90.00	-1,434.94	4,227.72	2,812.04	2,583.87	228.18	12.324		
15,400.00	7,630.00	7,606.00	7,594.00	118.35	131.76	90.00	-1,434.94	4,227.72	2,909.88	2,681.58	228.30	12.746		
15,500.00	7,630.00	7,606.00	7,594.00	119.34	131.76	90.00	-1,434.94	4,227.72	3,007.85	2,779.44	228.41	13.169		
15,600.00	7,630.00	7,606.00	7,594.00	120.35	131.76	90.00	-1,434.94	4,227.72	3,105.95	2,877.45	228.51	13.592		
15,700.00	7,630.00	7,606.00	7,594.00	121.40	131.76	90.00	-1,434.94	4,227.72	3,204.17	2,975.57	228.60	14.016		
15,800.00	7,630.00	7,606.00	7,594.00	122.48	131.76	90.00	-1,434.94	4,227.72	3,302.50	3,073.81	228.69	14.441		
15,900.00	7,630.00	7,606.00	7,594.00	123.58	131.76	90.00	-1,434.94	4,227.72	3,400.93	3,172.16	228.77	14.866		
16,000.00	7,630.00	7,606.00	7,594.00	124.71	131.76	90.00	-1,434.94	4,227.72	3,499.44	3,270.59	228.85	15.292		
16,100.00	7,630.00	7,606.00	7,594.00	125.87	131.76	90.00	-1,434.94	4,227.72	3,598.04	3,369.12	228.92	15.718		
16,200.00	7,630.00	7,606.00	7,594.00	127.05	131.76	90.00	-1,434.94	4,227.72	3,696.71	3,467.72	228.99	16.144		
16,300.00	7,630.00	7,606.00	7,594.00	128.26	131.76	90.00	-1,434.94	4,227.72	3,795.45	3,566.40	229.05	16.570		
16,400.00	7,630.00	7,606.00	7,594.00	129.48	131.76	90.00	-1,434.94	4,227.72	3,894.26	3,665.15	229.11	16.997		
16,500.00	7,630.00	7,606.00	7,594.00	130.73	131.76	90.00	-1,434.94	4,227.72	3,993.12	3,763.95	229.17	17.424		
16,600.00	7,630.00	7,606.00	7,594.00	132.00	131.76	90.00	-1,434.94	4,227.72	4,092.04	3,862.82	229.22	17.852		
16,700.00	7,630.00	7,606.00	7,594.00	133.29	131.76	90.00	-1,434.94	4,227.72	4,191.01	3,961.74	229.28	18.279		
16,800.00	7,630.00	7,606.00	7,594.00	134.59	131.76	90.00	-1,434.94	4,227.72	4,290.03	4,060.71	229.33	18.707		
16,900.00	7,630.00	7,606.00	7,594.00	135.91	131.76	90.00	-1,434.94	4,227.72	4,389.10	4,159.72	229.37	19.135		
17,000.00	7,630.00	7,606.00	7,594.00	137.25	131.76	90.00	-1,434.94	4,227.72	4,488.20	4,258.78	229.42	19.563		
17,100.00	7,630.00	7,606.00	7,594.00	138.61	131.76	90.00	-1,434.94	4,227.72	4,587.34	4,357.88	229.47	19.991		
17,200.00	7,630.00	7,606.00	7,594.00	139.97	131.76	90.00	-1,434.94	4,227.72	4,686.52	4,457.02	229.51	20.420		
17,300.00	7,630.00	7,606.00	7,594.00	141.36	131.76	90.00	-1,434.94	4,227.72	4,785.74	4,556.19	229.55	20.848		
17,400.00	7,630.00	7,606.00	7,594.00	142.75	131.76	90.00	-1,434.94	4,227.72	4,884.99	4,655.39	229.59	21.277		
17,500.00	7,630.00	7,606.00	7,594.00	144.16	131.76	90.00	-1,434.94	4,227.72	4,984.26	4,754.63	229.63	21.705		
17,600.00	7,630.00	7,606.00	7,594.00	145.58	131.76	90.00	-1,434.94	4,227.72	5,083.57	4,853.90	229.67	22.134		
17,700.00	7,630.00	7,606.00	7,594.00	147.01	131.76	90.00	-1,434.94	4,227.72	5,182.90	4,953.19	229.71	22.563		
17,800.00	7,630.00	7,606.00	7,594.00	148.45	131.76	90.00	-1,434.94	4,227.72	5,282.26	5,052.51	229.75	22.992		
17,900.00	7,630.00	7,606.00	7,594.00	149.91	131.76	90.00	-1,434.94	4,227.72	5,381.64	5,151.85	229.78	23.421		
18,000.00	7,630.00	7,606.00	7,594.00	151.37	131.76	90.00	-1,434.94	4,227.72	5,481.04	5,251.22	229.82	23.850		
18,100.00	7,630.00	7,606.00	7,594.00	152.84	131.76	90.00	-1,434.94	4,227.72	5,580.46	5,350.61	229.85	24.278		
18,200.00	7,630.00	7,606.00	7,594.00	154.32	131.76	90.00	-1,434.94	4,227.72	5,679.91	5,450.02	229.89	24.707		
18,300.00	7,630.00	7,606.00	7,594.00	155.81	131.76	90.00	-1,434.94	4,227.72	5,779.37	5,549.45	229.92	25.136		
18,400.00	7,630.00	7,606.00	7,594.00	157.31	131.76	90.00	-1,434.94	4,227.72	5,878.86	5,648.90	229.96	25.565		
18,500.00	7,630.00	7,606.00	7,594.00	158.81	131.76	90.00	-1,434.94	4,227.72	5,978.35	5,748.37	229.99	25.994		
18,600.00	7,630.00	7,606.00	7,594.00	160.32	131.76	90.00	-1,434.94	4,227.72	6,077.87	5,847.85	230.02	26.423		
18,700.00	7,630.00	7,606.00	7,594.00	161.84	131.76	90.00	-1,434.94	4,227.72	6,177.40	5,947.35	230.05	26.852		
18,800.00	7,630.00	7,606.00	7,594.00	163.37	131.76	90.00	-1,434.94	4,227.72	6,276.95	6,046.86	230.09	27.281		
18,900.00	7,630.00	7,606.00	7,594.00	164.90	131.76	90.00	-1,434.94	4,227.72	6,376.51	6,146.39	230.12	27.710		
19,000.00	7,630.00	7,606.00	7,594.00	166.43	131.76	90.00	-1,434.94	4,227.72	6,476.08	6,245.93	230.15	28.139		
19,100.00	7,630.00	7,606.00	7,594.00	167.98	131.76	90.00	-1,434.94	4,227.72	6,575.67	6,345.49	230.18	28.567		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,606.00	7,594.00	169.53	131.76	90.00	-1,434.94	4,227.72	6,675.27	6,445.06	230.21	28.996	
19,300.00	7,630.00	7,606.00	7,594.00	171.08	131.76	90.00	-1,434.94	4,227.72	6,774.88	6,544.64	230.24	29.425	
19,400.00	7,630.00	7,606.00	7,594.00	172.64	131.76	90.00	-1,434.94	4,227.72	6,874.50	6,644.23	230.28	29.853	
19,500.00	7,630.00	7,606.00	7,594.00	174.21	131.76	90.00	-1,434.94	4,227.72	6,974.14	6,743.83	230.31	30.282	
19,518.56	7,630.00	7,606.00	7,594.00	174.50	131.76	90.00	-1,434.94	4,227.72	6,992.63	6,762.32	230.31	30.362	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	124.13	-3,055.97	4,508.04	5,446.41					
100.00	100.00	55.00	55.00	0.13	0.42	124.13	-3,055.97	4,508.04	5,446.22	5,445.67	0.56	9,781.343		
200.00	200.00	155.00	155.00	0.49	1.73	124.13	-3,055.97	4,508.04	5,446.22	5,444.00	2.22	2,452.397		
300.00	300.00	255.00	255.00	0.85	3.47	124.13	-3,055.97	4,508.04	5,446.22	5,441.90	4.32	1,259.366		
400.00	400.00	355.00	355.00	1.21	5.22	124.13	-3,055.97	4,508.04	5,446.22	5,439.80	6.43	847.216		
500.00	499.98	454.98	454.98	1.56	6.96	57.44	-3,055.97	4,508.04	5,445.28	5,436.76	8.53	638.577		
600.00	599.84	554.84	554.84	1.92	8.71	57.53	-3,055.97	4,508.04	5,442.47	5,431.84	10.62	512.261		
700.00	699.45	654.45	654.45	2.29	10.44	57.69	-3,055.97	4,508.04	5,437.79	5,425.06	12.73	427.328		
800.00	798.70	753.70	753.70	2.67	12.18	57.91	-3,055.97	4,508.04	5,431.26	5,416.43	14.83	366.219		
900.00	897.47	852.47	852.47	3.07	13.90	58.19	-3,055.97	4,508.04	5,422.90	5,405.96	16.94	320.063		
1,000.00	995.62	950.62	950.62	3.50	15.61	58.53	-3,055.97	4,508.04	5,412.76	5,393.69	19.07	283.902		
1,100.00	1,093.06	1,048.06	1,048.06	3.96	17.31	58.94	-3,055.97	4,508.04	5,400.86	5,379.66	21.20	254.751		
1,200.00	1,189.64	1,144.64	1,144.64	4.46	19.00	59.40	-3,055.97	4,508.04	5,387.26	5,363.91	23.35	230.707		
1,300.00	1,285.27	1,240.27	1,240.27	5.00	20.67	59.93	-3,055.97	4,508.04	5,372.00	5,346.48	25.52	210.500		
1,400.00	1,379.82	1,334.82	1,334.82	5.60	22.32	60.52	-3,055.97	4,508.04	5,355.14	5,327.43	27.71	193.253		
1,500.00	1,473.17	1,428.17	1,428.17	6.25	23.95	61.16	-3,055.97	4,508.04	5,336.76	5,306.83	29.92	178.338		
1,600.00	1,565.21	1,520.21	1,520.21	6.95	25.56	61.87	-3,055.97	4,508.04	5,316.91	5,284.75	32.17	165.296		
1,700.00	1,655.84	1,610.84	1,610.84	7.72	27.14	62.62	-3,055.97	4,508.04	5,295.69	5,261.25	34.44	153.784		
1,800.00	1,744.94	1,700.06	1,699.94	8.55	28.69	63.44	-3,055.97	4,508.04	5,273.17	5,236.43	36.74	143.530		
1,900.00	1,832.39	1,787.39	1,787.39	9.45	30.22	64.30	-3,055.97	4,508.04	5,249.46	5,210.39	39.07	134.356		
2,000.00	1,918.11	1,873.11	1,873.11	10.41	31.71	65.22	-3,055.97	4,508.04	5,224.64	5,183.19	41.44	126.076		
2,100.00	2,001.97	1,956.97	1,956.97	11.45	33.18	66.18	-3,055.97	4,508.04	5,198.81	5,154.97	43.85	118.571		
2,200.00	2,083.88	2,038.88	2,038.88	12.56	34.61	67.18	-3,055.97	4,508.04	5,172.10	5,125.81	46.29	111.736		
2,300.00	2,163.74	2,118.74	2,118.74	13.74	36.00	68.22	-3,055.97	4,508.04	5,144.61	5,095.84	48.77	105.486		
2,400.00	2,241.45	2,203.55	2,196.45	14.99	37.48	69.30	-3,055.97	4,508.04	5,116.46	5,065.05	51.42	99.513		
2,421.22	2,257.65	2,212.65	2,212.65	15.26	37.64	69.53	-3,055.97	4,508.04	5,110.42	5,058.59	51.83	98.598		
2,500.00	2,317.63	2,272.63	2,272.63	16.29	38.69	69.96	-3,055.97	4,508.04	5,088.14	5,034.29	53.85	94.493		
2,600.00	2,393.75	2,348.75	2,348.75	17.62	40.02	70.51	-3,055.97	4,508.04	5,060.46	5,004.02	56.43	89.676		
2,700.00	2,469.88	2,424.88	2,424.88	18.95	41.34	71.06	-3,055.97	4,508.04	5,033.46	4,974.42	59.04	85.258		
2,800.00	2,546.01	2,501.01	2,501.01	20.30	42.67	71.61	-3,055.97	4,508.04	5,007.15	4,945.49	61.67	81.198		
2,900.00	2,622.13	2,577.13	2,577.13	21.65	44.00	72.17	-3,055.97	4,508.04	4,981.56	4,917.24	64.31	77.457		
3,000.00	2,698.26	2,653.26	2,653.26	23.01	45.33	72.73	-3,055.97	4,508.04	4,956.67	4,889.69	66.98	74.004		
3,100.00	2,774.38	2,729.38	2,729.38	24.37	46.66	73.29	-3,055.97	4,508.04	4,932.52	4,862.86	69.66	70.809		
3,200.00	2,850.51	2,805.51	2,805.51	25.74	47.99	73.86	-3,055.97	4,508.04	4,909.10	4,836.75	72.35	67.848		
3,300.00	2,926.64	2,881.64	2,881.64	27.11	49.32	74.43	-3,055.97	4,508.04	4,886.43	4,811.37	75.06	65.097		
3,400.00	3,002.76	2,957.76	2,957.76	28.49	50.65	75.00	-3,055.97	4,508.04	4,864.52	4,786.74	77.78	62.539		
3,500.00	3,078.89	3,033.89	3,033.89	29.87	51.97	75.58	-3,055.97	4,508.04	4,843.38	4,762.86	80.52	60.154		
3,600.00	3,155.02	3,110.02	3,110.02	31.25	53.30	76.16	-3,055.97	4,508.04	4,823.02	4,739.76	83.26	57.928		
3,700.00	3,231.14	3,186.14	3,186.14	32.63	54.63	76.74	-3,055.97	4,508.04	4,803.44	4,717.43	86.01	55.848		
3,800.00	3,307.27	3,262.27	3,262.27	34.01	55.96	77.33	-3,055.97	4,508.04	4,784.67	4,695.90	88.77	53.900		
3,900.00	3,383.39	3,338.39	3,338.39	35.40	57.29	77.91	-3,055.97	4,508.04	4,766.70	4,675.17	91.54	52.074		
4,000.00	3,459.52	3,414.52	3,414.52	36.79	58.62	78.50	-3,055.97	4,508.04	4,749.56	4,655.24	94.31	50.360		
4,100.00	3,535.65	3,509.35	3,490.65	38.18	60.27	79.10	-3,055.97	4,508.04	4,733.23	4,635.81	97.42	48.587		
4,200.00	3,611.77	3,566.77	3,566.77	39.57	61.27	79.69	-3,055.97	4,508.04	4,717.75	4,617.87	99.88	47.235		
4,300.00	3,687.90	3,642.90	3,642.90	40.96	62.60	80.29	-3,055.97	4,508.04	4,703.10	4,600.43	102.67	45.809		
4,400.00	3,764.02	3,719.02	3,719.02	42.35	63.93	80.89	-3,055.97	4,508.04	4,689.31	4,583.85	105.46	44.465		
4,500.00	3,840.15	3,804.85	3,795.15	43.74	65.43	81.49	-3,055.97	4,508.04	4,676.37	4,567.95	108.42	43.130		
4,600.00	3,916.28	3,871.28	3,871.28	45.13	66.59	82.10	-3,055.97	4,508.04	4,664.30	4,553.25	111.05	42.001		
4,700.00	3,992.40	3,947.40	3,947.40	46.53	67.92	82.70	-3,055.97	4,508.04	4,653.11	4,539.26	113.85	40.871		
4,800.00	4,068.53	4,023.53	4,023.53	47.92	69.25	83.31	-3,055.97	4,508.04	4,642.79	4,526.14	116.65	39.802		
4,900.00	4,144.66	4,100.34	4,099.66	49.32	70.59	83.92	-3,055.97	4,508.04	4,633.36	4,513.90	119.45	38.788		
5,000.00	4,220.78	4,175.78	4,175.78	50.71	71.90	84.53	-3,055.97	4,508.04	4,624.81	4,502.58	122.24	37.835		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,251.91	4,251.91	52.11	73.23	85.14	-3,055.97	4,508.04	4,617.17	4,492.14	125.03	36.929		
5,200.00	4,373.03	4,328.03	4,328.03	53.51	74.56	85.75	-3,055.97	4,508.04	4,610.42	4,482.60	127.82	36.071		
5,300.00	4,449.16	4,404.16	4,404.16	54.90	75.89	86.37	-3,055.97	4,508.04	4,604.57	4,473.97	130.60	35.257		
5,400.00	4,525.29	4,480.29	4,480.29	56.30	77.22	86.98	-3,055.97	4,508.04	4,599.63	4,466.26	133.38	34.486		
5,500.00	4,601.41	4,556.41	4,556.41	57.70	78.55	87.59	-3,055.97	4,508.04	4,595.60	4,459.46	136.15	33.755		
5,600.00	4,677.54	4,632.54	4,632.54	59.10	79.88	88.21	-3,055.97	4,508.04	4,592.49	4,453.58	138.91	33.061		
5,700.00	4,753.66	4,708.66	4,708.66	60.49	81.20	88.83	-3,055.97	4,508.04	4,590.28	4,448.62	141.67	32.402		
5,800.00	4,829.79	4,784.79	4,784.79	61.89	82.53	89.44	-3,055.97	4,508.04	4,589.00	4,444.58	144.41	31.777		
5,890.52	4,898.70	4,853.70	4,853.70	63.16	83.74	90.00	-3,055.97	4,508.04	4,588.62	4,441.73	146.89	31.238		
5,900.00	4,905.92	4,860.92	4,860.92	63.29	83.86	90.06	-3,055.97	4,508.04	4,588.63	4,441.47	147.15	31.183		
6,000.00	4,982.04	4,937.04	4,937.04	64.69	85.19	90.67	-3,055.97	4,508.04	4,589.17	4,439.29	149.88	30.619		
6,100.00	5,058.17	5,013.17	5,013.17	66.09	86.52	91.29	-3,055.97	4,508.04	4,590.63	4,438.04	152.59	30.084		
6,200.00	5,134.30	5,089.30	5,089.30	67.49	87.85	91.91	-3,055.97	4,508.04	4,593.01	4,437.71	155.30	29.575		
6,300.00	5,210.42	5,165.42	5,165.42	68.89	89.18	92.52	-3,055.97	4,508.04	4,596.30	4,438.31	157.99	29.092		
6,400.00	5,286.55	5,241.55	5,241.55	70.29	90.50	93.14	-3,055.97	4,508.04	4,600.50	4,439.83	160.67	28.634		
6,500.00	5,362.67	5,317.67	5,317.67	71.69	91.83	93.75	-3,055.97	4,508.04	4,605.61	4,442.28	163.33	28.198		
6,600.00	5,438.80	5,406.20	5,393.80	73.09	93.38	94.36	-3,055.97	4,508.04	4,611.63	4,445.43	166.20	27.748		
6,700.00	5,514.93	5,469.93	5,469.93	74.49	94.49	94.98	-3,055.97	4,508.04	4,618.55	4,449.93	168.62	27.391		
6,800.00	5,591.05	5,546.05	5,546.05	75.89	95.82	95.59	-3,055.97	4,508.04	4,626.37	4,455.13	171.23	27.018		
6,900.00	5,667.18	5,622.18	5,622.18	77.29	97.15	96.20	-3,055.97	4,508.04	4,635.08	4,461.24	173.84	26.663		
7,000.00	5,743.30	5,701.70	5,689.30	78.69	98.54	96.81	-3,055.97	4,508.04	4,644.68	4,468.20	176.48	26.318		
7,100.00	5,819.43	5,774.43	5,774.43	80.09	99.81	97.41	-3,055.97	4,508.04	4,655.16	4,476.17	178.99	26.008		
7,200.00	5,895.56	5,850.56	5,850.56	81.49	101.13	98.02	-3,055.97	4,508.04	4,666.53	4,484.99	181.54	25.705		
7,300.00	5,971.68	5,926.68	5,926.68	82.90	102.46	98.62	-3,055.97	4,508.04	4,678.76	4,494.69	184.07	25.418		
7,400.00	6,047.81	6,002.81	6,002.81	84.30	103.79	99.22	-3,055.97	4,508.04	4,691.86	4,505.27	186.59	25.146		
7,500.00	6,123.94	6,078.94	6,078.94	85.70	105.12	99.82	-3,055.97	4,508.04	4,705.81	4,516.73	189.08	24.887		
7,600.00	6,200.06	6,155.06	6,155.06	87.10	106.45	100.42	-3,055.97	4,508.04	4,720.62	4,529.06	191.56	24.643		
7,700.00	6,276.19	6,231.19	6,231.19	88.50	107.78	101.02	-3,055.97	4,508.04	4,736.26	4,542.25	194.02	24.411		
7,800.00	6,352.31	6,307.31	6,307.31	89.90	109.11	101.61	-3,055.97	4,508.04	4,752.74	4,556.29	196.46	24.192		
7,900.00	6,428.44	6,383.44	6,383.44	91.31	110.43	102.20	-3,055.97	4,508.04	4,770.05	4,571.17	198.88	23.985		
8,000.00	6,504.57	6,459.57	6,459.57	92.71	111.76	102.79	-3,055.97	4,508.04	4,788.17	4,586.89	201.28	23.789		
8,100.00	6,580.69	6,535.69	6,535.69	94.11	113.09	103.37	-3,055.97	4,508.04	4,807.10	4,603.44	203.66	23.604		
8,200.00	6,656.82	6,611.82	6,611.82	95.51	114.42	103.95	-3,055.97	4,508.04	4,826.82	4,620.80	206.02	23.429		
8,300.00	6,732.95	6,687.95	6,687.95	96.91	115.75	104.53	-3,055.97	4,508.04	4,847.33	4,638.97	208.36	23.264		
8,400.00	6,809.07	6,764.07	6,764.07	98.32	117.08	105.11	-3,055.97	4,508.04	4,868.62	4,657.94	210.68	23.109		
8,500.00	6,885.20	6,840.20	6,840.20	99.72	118.41	105.68	-3,055.97	4,508.04	4,890.67	4,677.69	212.98	22.963		
8,600.00	6,961.32	6,916.32	6,916.32	101.12	119.74	106.25	-3,055.97	4,508.04	4,913.48	4,698.22	215.26	22.825		
8,700.00	7,037.45	7,007.55	6,992.45	102.52	121.33	106.82	-3,055.97	4,508.04	4,937.04	4,719.25	217.79	22.669		
8,732.15	7,061.92	7,016.92	7,016.92	102.97	121.49	107.00	-3,055.97	4,508.04	4,944.77	4,726.52	218.25	22.656		
8,750.00	7,075.57	7,030.57	7,030.57	103.22	121.73	105.09	-3,055.97	4,508.04	4,948.83	4,730.17	218.65	22.633		
8,800.00	7,114.27	7,069.27	7,069.27	103.91	122.40	99.44	-3,055.97	4,508.04	4,957.41	4,737.62	219.79	22.555		
8,850.00	7,153.47	7,108.47	7,108.47	104.58	123.09	93.46	-3,055.97	4,508.04	4,961.86	4,740.91	220.95	22.457		
8,900.00	7,192.85	7,147.85	7,147.85	105.21	123.78	87.36	-3,055.97	4,508.04	4,962.14	4,740.04	222.10	22.342		
8,950.00	7,232.12	7,187.12	7,187.12	105.80	124.46	81.32	-3,055.97	4,508.04	4,958.25	4,735.02	223.23	22.211		
9,000.00	7,270.99	7,225.99	7,225.99	106.35	125.14	75.55	-3,055.97	4,508.04	4,950.23	4,725.88	224.35	22.065		
9,050.00	7,309.16	7,264.16	7,264.16	106.85	125.81	70.21	-3,055.97	4,508.04	4,938.11	4,712.68	225.43	21.905		
9,100.00	7,346.32	7,301.32	7,301.32	107.30	126.45	65.40	-3,055.97	4,508.04	4,921.99	4,695.52	226.47	21.733		
9,150.00	7,382.22	7,337.22	7,337.22	107.69	127.08	61.15	-3,055.97	4,508.04	4,901.98	4,674.52	227.46	21.551		
9,200.00	7,416.56	7,371.56	7,371.56	108.02	127.68	57.50	-3,055.97	4,508.04	4,878.20	4,649.81	228.39	21.359		
9,250.00	7,449.09	7,404.09	7,404.09	108.29	128.25	54.40	-3,055.97	4,508.04	4,850.83	4,621.57	229.26	21.159		
9,300.00	7,479.56	7,434.56	7,434.56	108.51	128.78	51.85	-3,055.97	4,508.04	4,820.06	4,590.00	230.06	20.952		
9,350.00	7,507.74	7,462.74	7,462.74	108.68	129.27	49.81	-3,055.97	4,508.04	4,786.08	4,555.30	230.78	20.739		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,488.41	7,488.41	108.79	129.72	48.25	-3,055.97	4,508.04	4,749.15	4,517.72	231.43	20.521		
9,450.00	7,556.39	7,511.39	7,511.39	108.86	130.12	47.19	-3,055.97	4,508.04	4,709.51	4,477.51	232.00	20.300		
9,500.00	7,576.48	7,531.48	7,531.48	108.88	130.47	46.64	-3,055.97	4,508.04	4,667.45	4,434.96	232.48	20.077		
9,550.00	7,593.55	7,548.55	7,548.55	108.86	130.77	46.70	-3,055.97	4,508.04	4,623.26	4,390.37	232.89	19.852		
9,600.00	7,607.46	7,562.46	7,562.46	108.80	131.01	47.56	-3,055.97	4,508.04	4,577.25	4,344.04	233.22	19.627		
9,650.00	7,618.11	7,573.11	7,573.11	108.71	131.20	49.72	-3,055.97	4,508.04	4,529.76	4,296.30	233.46	19.403		
9,700.00	7,625.41	7,580.41	7,580.41	108.59	131.33	54.51	-3,055.97	4,508.04	4,481.14	4,247.50	233.63	19.180		
9,750.00	7,629.30	7,584.30	7,584.30	108.45	131.39	67.14	-3,055.97	4,508.04	4,431.72	4,198.00	233.73	18.961		
9,781.81	7,630.00	7,585.00	7,585.00	108.35	131.41	90.00	-3,055.97	4,508.04	4,400.05	4,166.30	233.75	18.824		
9,800.00	7,630.00	7,585.00	7,585.00	108.29	131.41	90.00	-3,055.97	4,508.04	4,381.90	4,148.14	233.75	18.746		
9,900.00	7,630.00	7,585.00	7,585.00	107.97	131.41	90.00	-3,055.97	4,508.04	4,282.15	4,048.37	233.78	18.317		
10,000.00	7,630.00	7,585.00	7,585.00	107.67	131.41	90.00	-3,055.97	4,508.04	4,182.41	3,948.61	233.81	17.888		
10,100.00	7,630.00	7,585.00	7,585.00	107.38	131.41	90.00	-3,055.97	4,508.04	4,082.69	3,848.85	233.83	17.460		
10,200.00	7,630.00	7,585.00	7,585.00	107.10	131.41	90.00	-3,055.97	4,508.04	3,982.98	3,749.11	233.86	17.031		
10,300.00	7,630.00	7,585.00	7,585.00	106.84	131.41	90.00	-3,055.97	4,508.04	3,883.28	3,649.39	233.90	16.603		
10,400.00	7,630.00	7,585.00	7,585.00	106.59	131.41	90.00	-3,055.97	4,508.04	3,783.60	3,549.67	233.93	16.174		
10,500.00	7,630.00	7,585.00	7,585.00	106.35	131.41	90.00	-3,055.97	4,508.04	3,683.94	3,449.97	233.96	15.746		
10,600.00	7,630.00	7,585.00	7,585.00	106.13	131.41	90.00	-3,055.97	4,508.04	3,584.30	3,350.29	234.00	15.317		
10,700.00	7,630.00	7,585.00	7,585.00	105.92	131.41	90.00	-3,055.97	4,508.04	3,484.67	3,250.63	234.04	14.889		
10,800.00	7,630.00	7,585.00	7,585.00	105.72	131.41	90.00	-3,055.97	4,508.04	3,385.07	3,150.99	234.08	14.461		
10,900.00	7,630.00	7,585.00	7,585.00	105.54	131.41	90.00	-3,055.97	4,508.04	3,285.50	3,051.37	234.13	14.033		
11,000.00	7,630.00	7,585.00	7,585.00	105.37	131.41	90.00	-3,055.97	4,508.04	3,185.95	2,951.77	234.17	13.605		
11,100.00	7,630.00	7,585.00	7,585.00	105.21	131.41	90.00	-3,055.97	4,508.04	3,086.43	2,852.20	234.22	13.177		
11,200.00	7,630.00	7,585.00	7,585.00	105.06	131.41	90.00	-3,055.97	4,508.04	2,986.94	2,752.66	234.28	12.750		
11,300.00	7,630.00	7,585.00	7,585.00	104.93	131.41	90.00	-3,055.97	4,508.04	2,887.48	2,653.15	234.33	12.322		
11,400.00	7,630.00	7,585.00	7,585.00	104.82	131.41	90.00	-3,055.97	4,508.04	2,788.07	2,553.68	234.39	11.895		
11,500.00	7,630.00	7,585.00	7,585.00	104.72	131.41	90.00	-3,055.97	4,508.04	2,688.70	2,454.24	234.46	11.468		
11,600.00	7,630.00	7,585.00	7,585.00	104.63	131.41	90.00	-3,055.97	4,508.04	2,589.38	2,354.85	234.52	11.041		
11,700.00	7,630.00	7,585.00	7,585.00	104.55	131.41	90.00	-3,055.97	4,508.04	2,490.11	2,255.51	234.59	10.615		
11,800.00	7,630.00	7,585.00	7,585.00	104.50	131.41	90.00	-3,055.97	4,508.04	2,390.90	2,156.23	234.67	10.188		
11,900.00	7,630.00	7,585.00	7,585.00	104.45	131.41	90.00	-3,055.97	4,508.04	2,291.76	2,057.01	234.75	9.762		
12,000.00	7,630.00	7,585.00	7,585.00	104.43	131.41	90.00	-3,055.97	4,508.04	2,192.70	1,957.86	234.84	9.337		
12,100.00	7,630.00	7,585.00	7,585.00	104.42	131.41	90.00	-3,055.97	4,508.04	2,093.73	1,858.80	234.93	8.912		
12,200.00	7,630.00	7,585.00	7,585.00	104.42	131.41	90.00	-3,055.97	4,508.04	1,994.87	1,759.83	235.03	8.488		
12,300.00	7,630.00	7,585.00	7,585.00	104.45	131.41	90.00	-3,055.97	4,508.04	1,896.12	1,660.98	235.14	8.064		
12,400.00	7,630.00	7,585.00	7,585.00	104.49	131.41	90.00	-3,055.97	4,508.04	1,797.51	1,562.25	235.25	7.641		
12,500.00	7,630.00	7,585.00	7,585.00	104.55	131.41	90.00	-3,055.97	4,508.04	1,699.06	1,463.68	235.37	7.219		
12,600.00	7,630.00	7,585.00	7,585.00	104.63	131.41	90.00	-3,055.97	4,508.04	1,600.80	1,365.30	235.50	6.797		
12,700.00	7,630.00	7,585.00	7,585.00	104.73	131.41	90.00	-3,055.97	4,508.04	1,502.78	1,267.13	235.64	6.377		
12,800.00	7,630.00	7,585.00	7,585.00	104.85	131.41	90.00	-3,055.97	4,508.04	1,405.03	1,169.24	235.79	5.959		
12,900.00	7,630.00	7,585.00	7,585.00	104.99	131.41	90.00	-3,055.97	4,508.04	1,307.62	1,071.68	235.94	5.542		
13,000.00	7,630.00	7,585.00	7,585.00	105.15	131.41	90.00	-3,055.97	4,508.04	1,210.64	974.54	236.10	5.128		
13,100.00	7,630.00	7,585.00	7,585.00	105.34	131.41	90.00	-3,055.97	4,508.04	1,114.19	877.93	236.26	4.716		
13,200.00	7,630.00	7,585.00	7,585.00	105.56	131.41	90.00	-3,055.97	4,508.04	1,018.42	782.01	236.41	4.308		
13,300.00	7,630.00	7,585.00	7,585.00	105.80	131.41	90.00	-3,055.97	4,508.04	923.55	687.02	236.53	3.905		
13,400.00	7,630.00	7,585.00	7,585.00	106.06	131.41	90.00	-3,055.97	4,508.04	829.89	593.29	236.60	3.508		
13,500.00	7,630.00	7,585.00	7,585.00	106.36	131.41	90.00	-3,055.97	4,508.04	737.90	501.34	236.56	3.119		
13,600.00	7,630.00	7,585.00	7,585.00	106.68	131.41	90.00	-3,055.97	4,508.04	648.27	411.98	236.29	2.744		
13,700.00	7,630.00	7,585.00	7,585.00	107.03	131.41	90.00	-3,055.97	4,508.04	562.17	326.58	235.59	2.386		
13,800.00	7,630.00	7,585.00	7,585.00	107.42	131.41	90.00	-3,055.97	4,508.04	481.46	247.43	234.03	2.057		
13,900.00	7,630.00	7,585.00	7,585.00	107.83	131.41	90.00	-3,055.97	4,508.04	409.35	178.52	230.83	1.773		
14,000.00	7,630.00	7,585.00	7,585.00	108.28	131.41	90.00	-3,055.97	4,508.04	351.20	126.40	224.80	1.562		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,630.00	7,585.00	7,585.00	108.77	131.41	90.00	-3,055.97	4,508.04	314.81	99.40	215.41	1.461	Level 3, SF	
14,171.15	7,630.00	7,585.00	7,585.00	109.13	131.41	90.00	-3,055.97	4,508.04	306.67	98.36	208.31	1.472	Level 3, CC, ES	
14,200.00	7,630.00	7,585.00	7,585.00	109.29	131.41	90.00	-3,055.97	4,508.04	308.02	102.05	205.97	1.495	Level 3	
14,300.00	7,630.00	7,585.00	7,585.00	109.84	131.41	90.00	-3,055.97	4,508.04	332.64	130.08	202.56	1.642		
14,400.00	7,630.00	7,585.00	7,585.00	110.43	131.41	90.00	-3,055.97	4,508.04	382.64	177.44	205.21	1.865		
14,500.00	7,630.00	7,585.00	7,585.00	111.06	131.41	90.00	-3,055.97	4,508.04	449.65	239.95	209.70	2.144		
14,600.00	7,630.00	7,585.00	7,585.00	111.72	131.41	90.00	-3,055.97	4,508.04	527.21	313.43	213.78	2.466		
14,700.00	7,630.00	7,585.00	7,585.00	112.42	131.41	90.00	-3,055.97	4,508.04	611.33	394.33	217.00	2.817		
14,800.00	7,630.00	7,585.00	7,585.00	113.16	131.41	90.00	-3,055.97	4,508.04	699.64	480.18	219.46	3.188		
14,900.00	7,630.00	7,585.00	7,585.00	113.94	131.41	90.00	-3,055.97	4,508.04	790.74	569.40	221.34	3.573		
15,000.00	7,630.00	7,585.00	7,585.00	114.75	131.41	90.00	-3,055.97	4,508.04	883.76	660.96	222.80	3.967		
15,100.00	7,630.00	7,585.00	7,585.00	115.60	131.41	90.00	-3,055.97	4,508.04	978.16	754.20	223.97	4.367		
15,200.00	7,630.00	7,585.00	7,585.00	116.48	131.41	90.00	-3,055.97	4,508.04	1,073.58	848.67	224.91	4.773		
15,300.00	7,630.00	7,585.00	7,585.00	117.40	131.41	90.00	-3,055.97	4,508.04	1,169.76	944.08	225.68	5.183		
15,400.00	7,630.00	7,585.00	7,585.00	118.35	131.41	90.00	-3,055.97	4,508.04	1,266.54	1,040.21	226.32	5.596		
15,500.00	7,630.00	7,585.00	7,585.00	119.34	131.41	90.00	-3,055.97	4,508.04	1,363.77	1,136.91	226.86	6.011		
15,600.00	7,630.00	7,585.00	7,585.00	120.35	131.41	90.00	-3,055.97	4,508.04	1,461.39	1,234.06	227.33	6.429		
15,700.00	7,630.00	7,585.00	7,585.00	121.40	131.41	90.00	-3,055.97	4,508.04	1,559.30	1,331.57	227.73	6.847		
15,800.00	7,630.00	7,585.00	7,585.00	122.48	131.41	90.00	-3,055.97	4,508.04	1,657.46	1,429.38	228.08	7.267		
15,900.00	7,630.00	7,585.00	7,585.00	123.58	131.41	90.00	-3,055.97	4,508.04	1,755.84	1,527.44	228.39	7.688		
16,000.00	7,630.00	7,585.00	7,585.00	124.71	131.41	90.00	-3,055.97	4,508.04	1,854.38	1,625.71	228.67	8.110		
16,100.00	7,630.00	7,585.00	7,585.00	125.87	131.41	90.00	-3,055.97	4,508.04	1,953.07	1,724.16	228.91	8.532		
16,200.00	7,630.00	7,585.00	7,585.00	127.05	131.41	90.00	-3,055.97	4,508.04	2,051.89	1,822.76	229.13	8.955		
16,300.00	7,630.00	7,585.00	7,585.00	128.26	131.41	90.00	-3,055.97	4,508.04	2,150.82	1,921.49	229.34	9.378		
16,400.00	7,630.00	7,585.00	7,585.00	129.48	131.41	90.00	-3,055.97	4,508.04	2,249.85	2,020.33	229.52	9.802		
16,500.00	7,630.00	7,585.00	7,585.00	130.73	131.41	90.00	-3,055.97	4,508.04	2,348.95	2,119.27	229.69	10.227		
16,600.00	7,630.00	7,585.00	7,585.00	132.00	131.41	90.00	-3,055.97	4,508.04	2,448.13	2,218.29	229.84	10.651		
16,700.00	7,630.00	7,585.00	7,585.00	133.29	131.41	90.00	-3,055.97	4,508.04	2,547.37	2,317.39	229.98	11.076		
16,800.00	7,630.00	7,585.00	7,585.00	134.59	131.41	90.00	-3,055.97	4,508.04	2,646.67	2,416.56	230.12	11.501		
16,900.00	7,630.00	7,585.00	7,585.00	135.91	131.41	90.00	-3,055.97	4,508.04	2,746.03	2,515.79	230.24	11.927		
17,000.00	7,630.00	7,585.00	7,585.00	137.25	131.41	90.00	-3,055.97	4,508.04	2,845.42	2,615.07	230.35	12.352		
17,100.00	7,630.00	7,585.00	7,585.00	138.61	131.41	90.00	-3,055.97	4,508.04	2,944.86	2,714.40	230.46	12.778		
17,200.00	7,630.00	7,585.00	7,585.00	139.97	131.41	90.00	-3,055.97	4,508.04	3,044.33	2,813.77	230.57	13.204		
17,300.00	7,630.00	7,585.00	7,585.00	141.36	131.41	90.00	-3,055.97	4,508.04	3,143.84	2,913.18	230.66	13.630		
17,400.00	7,630.00	7,585.00	7,585.00	142.75	131.41	90.00	-3,055.97	4,508.04	3,243.38	3,012.63	230.75	14.056		
17,500.00	7,630.00	7,585.00	7,585.00	144.16	131.41	90.00	-3,055.97	4,508.04	3,342.94	3,112.10	230.84	14.482		
17,600.00	7,630.00	7,585.00	7,585.00	145.58	131.41	90.00	-3,055.97	4,508.04	3,442.53	3,211.61	230.92	14.908		
17,700.00	7,630.00	7,585.00	7,585.00	147.01	131.41	90.00	-3,055.97	4,508.04	3,542.15	3,311.15	231.00	15.334		
17,800.00	7,630.00	7,585.00	7,585.00	148.45	131.41	90.00	-3,055.97	4,508.04	3,641.78	3,410.71	231.08	15.760		
17,900.00	7,630.00	7,585.00	7,585.00	149.91	131.41	90.00	-3,055.97	4,508.04	3,741.44	3,510.29	231.15	16.186		
18,000.00	7,630.00	7,585.00	7,585.00	151.37	131.41	90.00	-3,055.97	4,508.04	3,841.11	3,609.89	231.22	16.612		
18,100.00	7,630.00	7,585.00	7,585.00	152.84	131.41	90.00	-3,055.97	4,508.04	3,940.80	3,709.51	231.29	17.039		
18,200.00	7,630.00	7,585.00	7,585.00	154.32	131.41	90.00	-3,055.97	4,508.04	4,040.50	3,809.15	231.35	17.465		
18,300.00	7,630.00	7,585.00	7,585.00	155.81	131.41	90.00	-3,055.97	4,508.04	4,140.22	3,908.81	231.41	17.891		
18,400.00	7,630.00	7,585.00	7,585.00	157.31	131.41	90.00	-3,055.97	4,508.04	4,239.95	4,008.48	231.48	18.317		
18,500.00	7,630.00	7,585.00	7,585.00	158.81	131.41	90.00	-3,055.97	4,508.04	4,339.70	4,108.16	231.53	18.743		
18,600.00	7,630.00	7,585.00	7,585.00	160.32	131.41	90.00	-3,055.97	4,508.04	4,439.45	4,207.86	231.59	19.169		
18,700.00	7,630.00	7,585.00	7,585.00	161.84	131.41	90.00	-3,055.97	4,508.04	4,539.22	4,307.57	231.65	19.595		
18,800.00	7,630.00	7,585.00	7,585.00	163.37	131.41	90.00	-3,055.97	4,508.04	4,639.00	4,407.29	231.70	20.021		
18,900.00	7,630.00	7,585.00	7,585.00	164.90	131.41	90.00	-3,055.97	4,508.04	4,738.78	4,507.03	231.75	20.447		
19,000.00	7,630.00	7,585.00	7,585.00	166.43	131.41	90.00	-3,055.97	4,508.04	4,838.58	4,606.77	231.81	20.873		
19,100.00	7,630.00	7,585.00	7,585.00	167.98	131.41	90.00	-3,055.97	4,508.04	4,938.38	4,706.52	231.86	21.299		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	7,585.00	7,585.00	169.53	131.41	90.00	-3,055.97	4,508.04	5,038.19	4,806.28	231.91	21.725	
19,300.00	7,630.00	7,585.00	7,585.00	171.08	131.41	90.00	-3,055.97	4,508.04	5,138.01	4,906.05	231.96	22.151	
19,400.00	7,630.00	7,585.00	7,585.00	172.64	131.41	90.00	-3,055.97	4,508.04	5,237.83	5,005.83	232.00	22.576	
19,500.00	7,630.00	7,585.00	7,585.00	174.21	131.41	90.00	-3,055.97	4,508.04	5,337.66	5,105.61	232.05	23.002	
19,518.56	7,630.00	7,585.00	7,585.00	174.50	131.41	90.00	-3,055.97	4,508.04	5,356.20	5,124.14	232.06	23.081	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	105.13	-1,580.32	5,843.47	6,053.62					
100.00	100.00	47.00	47.00	0.13	0.36	105.13	-1,580.32	5,843.47	6,053.39	6,052.89	0.50	N/A		
200.00	200.00	147.00	147.00	0.49	1.59	105.13	-1,580.32	5,843.47	6,053.39	6,051.31	2.08	2,908.677		
300.00	300.00	247.00	247.00	0.85	3.33	105.13	-1,580.32	5,843.47	6,053.39	6,049.21	4.18	1,446.466		
400.00	400.00	347.00	347.00	1.21	5.08	105.13	-1,580.32	5,843.47	6,053.39	6,047.10	6.29	962.574		
500.00	499.98	446.98	446.98	1.56	6.82	38.44	-1,580.32	5,843.47	6,052.02	6,043.63	8.39	721.537		
600.00	599.84	546.84	546.84	1.92	8.57	38.52	-1,580.32	5,843.47	6,047.92	6,037.44	10.49	576.812		
700.00	699.45	646.45	646.45	2.29	10.31	38.65	-1,580.32	5,843.47	6,041.10	6,028.52	12.58	480.067		
800.00	798.70	745.70	745.70	2.67	12.04	38.85	-1,580.32	5,843.47	6,031.57	6,016.88	14.68	410.776		
900.00	897.47	844.47	844.47	3.07	13.76	39.09	-1,580.32	5,843.47	6,019.35	6,002.56	16.78	358.640		
1,000.00	995.62	942.62	942.62	3.50	15.47	39.40	-1,580.32	5,843.47	6,004.46	5,985.57	18.89	317.934		
1,100.00	1,093.06	1,040.06	1,040.06	3.96	17.18	39.76	-1,580.32	5,843.47	5,986.94	5,965.95	20.99	285.221		
1,200.00	1,189.64	1,136.64	1,136.64	4.46	18.86	40.18	-1,580.32	5,843.47	5,966.83	5,943.73	23.10	258.318		
1,300.00	1,285.27	1,232.27	1,232.27	5.00	20.53	40.66	-1,580.32	5,843.47	5,944.16	5,918.95	25.21	235.768		
1,400.00	1,379.82	1,326.82	1,326.82	5.60	22.18	41.21	-1,580.32	5,843.47	5,918.98	5,891.65	27.33	216.565		
1,500.00	1,473.17	1,420.17	1,420.17	6.25	23.81	41.81	-1,580.32	5,843.47	5,891.35	5,861.90	29.46	199.991		
1,600.00	1,565.21	1,512.21	1,512.21	6.95	25.42	42.48	-1,580.32	5,843.47	5,861.33	5,829.74	31.59	185.520		
1,700.00	1,655.84	1,602.84	1,602.84	7.72	27.00	43.21	-1,580.32	5,843.47	5,828.98	5,795.24	33.74	172.759		
1,800.00	1,744.94	1,708.06	1,691.94	8.55	28.83	44.02	-1,580.32	5,843.47	5,794.37	5,758.19	36.18	160.152		
1,900.00	1,832.39	1,779.39	1,779.39	9.45	30.08	44.89	-1,580.32	5,843.47	5,757.58	5,719.51	38.07	151.233		
2,000.00	1,918.11	1,865.11	1,865.11	10.41	31.57	45.83	-1,580.32	5,843.47	5,718.68	5,678.42	40.26	142.051		
2,100.00	2,001.97	1,948.97	1,948.97	11.45	33.04	46.84	-1,580.32	5,843.47	5,677.76	5,635.30	42.46	133.716		
2,200.00	2,083.88	2,030.88	2,030.88	12.56	34.47	47.93	-1,580.32	5,843.47	5,634.92	5,590.24	44.68	126.109		
2,300.00	2,163.74	2,110.74	2,110.74	13.74	35.86	49.09	-1,580.32	5,843.47	5,590.25	5,543.33	46.92	119.134		
2,400.00	2,241.45	2,188.45	2,188.45	14.99	37.22	50.32	-1,580.32	5,843.47	5,543.85	5,494.67	49.19	112.711		
2,421.22	2,257.65	2,204.65	2,204.65	15.26	37.50	50.59	-1,580.32	5,843.47	5,533.80	5,484.13	49.67	111.410		
2,500.00	2,317.63	2,264.63	2,264.63	16.29	38.55	50.94	-1,580.32	5,843.47	5,496.43	5,444.96	51.47	106.786		
2,600.00	2,393.75	2,340.75	2,340.75	17.62	39.88	51.40	-1,580.32	5,843.47	5,449.32	5,395.54	53.78	101.319		
2,700.00	2,469.88	2,416.88	2,416.88	18.95	41.21	51.86	-1,580.32	5,843.47	5,402.58	5,346.46	56.12	96.262		
2,800.00	2,546.01	2,506.99	2,493.01	20.30	42.78	52.33	-1,580.32	5,843.47	5,356.22	5,297.48	58.73	91.196		
2,900.00	2,622.13	2,569.13	2,569.13	21.65	43.86	52.81	-1,580.32	5,843.47	5,310.24	5,249.36	60.88	87.228		
3,000.00	2,698.26	2,645.26	2,645.26	23.01	45.19	53.29	-1,580.32	5,843.47	5,264.66	5,201.37	63.29	83.183		
3,100.00	2,774.38	2,721.38	2,721.38	24.37	46.52	53.77	-1,580.32	5,843.47	5,219.49	5,153.76	65.72	79.416		
3,200.00	2,850.51	2,802.49	2,797.51	25.74	47.94	54.26	-1,580.32	5,843.47	5,174.73	5,106.47	68.27	75.802		
3,300.00	2,926.64	2,873.64	2,873.64	27.11	49.18	54.76	-1,580.32	5,843.47	5,130.41	5,059.75	70.66	72.612		
3,400.00	3,002.76	2,949.76	2,949.76	28.49	50.51	55.27	-1,580.32	5,843.47	5,086.52	5,013.37	73.15	69.533		
3,500.00	3,078.89	3,025.89	3,025.89	29.87	51.83	55.78	-1,580.32	5,843.47	5,043.09	4,967.42	75.67	66.647		
3,600.00	3,155.02	3,102.02	3,102.02	31.25	53.16	56.30	-1,580.32	5,843.47	5,000.12	4,921.92	78.21	63.935		
3,700.00	3,231.14	3,178.14	3,178.14	32.63	54.49	56.82	-1,580.32	5,843.47	4,957.63	4,876.87	80.76	61.386		
3,800.00	3,307.27	3,254.27	3,254.27	34.01	55.82	57.35	-1,580.32	5,843.47	4,915.62	4,832.29	83.34	58.984		
3,900.00	3,383.39	3,330.39	3,330.39	35.40	57.15	57.89	-1,580.32	5,843.47	4,874.12	4,788.19	85.93	56.720		
4,000.00	3,459.52	3,406.52	3,406.52	36.79	58.48	58.43	-1,580.32	5,843.47	4,833.13	4,744.58	88.55	54.583		
4,100.00	3,535.65	3,482.65	3,482.65	38.18	59.81	58.98	-1,580.32	5,843.47	4,792.66	4,701.48	91.18	52.563		
4,200.00	3,611.77	3,558.77	3,558.77	39.57	61.13	59.53	-1,580.32	5,843.47	4,752.74	4,658.91	93.83	50.652		
4,300.00	3,687.90	3,634.90	3,634.90	40.96	62.46	60.10	-1,580.32	5,843.47	4,713.37	4,616.87	96.50	48.842		
4,400.00	3,764.02	3,711.02	3,711.02	42.35	63.79	60.66	-1,580.32	5,843.47	4,674.57	4,575.38	99.19	47.127		
4,500.00	3,840.15	3,787.15	3,787.15	43.74	65.12	61.24	-1,580.32	5,843.47	4,636.35	4,534.45	101.90	45.500		
4,600.00	3,916.28	3,863.28	3,863.28	45.13	66.45	61.82	-1,580.32	5,843.47	4,598.73	4,494.10	104.62	43.955		
4,700.00	3,992.40	3,939.40	3,939.40	46.53	67.78	62.41	-1,580.32	5,843.47	4,561.72	4,454.35	107.37	42.487		
4,800.00	4,068.53	4,015.53	4,015.53	47.92	69.11	63.00	-1,580.32	5,843.47	4,525.33	4,415.20	110.13	41.092		
4,900.00	4,144.66	4,108.34	4,091.66	49.32	70.73	63.60	-1,580.32	5,843.47	4,489.59	4,376.39	113.20	39.662		
5,000.00	4,220.78	4,167.78	4,167.78	50.71	71.76	64.21	-1,580.32	5,843.47	4,454.50	4,338.80	115.70	38.500		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,243.91	4,243.91	52.11	73.09	64.82	-1,580.32	5,843.47	4,420.09	4,301.58	118.51	37.297		
5,200.00	4,373.03	4,320.03	4,320.03	53.51	74.42	65.44	-1,580.32	5,843.47	4,386.36	4,265.02	121.34	36.150		
5,300.00	4,449.16	4,403.84	4,396.16	54.90	75.88	66.07	-1,580.32	5,843.47	4,353.34	4,229.03	124.32	35.018		
5,400.00	4,525.29	4,472.29	4,472.29	56.30	77.08	66.70	-1,580.32	5,843.47	4,321.05	4,194.00	127.04	34.013		
5,500.00	4,601.41	4,548.41	4,548.41	57.70	78.41	67.33	-1,580.32	5,843.47	4,289.48	4,159.57	129.91	33.018		
5,600.00	4,677.54	4,624.54	4,624.54	59.10	79.74	67.98	-1,580.32	5,843.47	4,258.68	4,125.88	132.80	32.068		
5,700.00	4,753.66	4,700.66	4,700.66	60.49	81.06	68.63	-1,580.32	5,843.47	4,228.64	4,092.94	135.70	31.162		
5,800.00	4,829.79	4,776.79	4,776.79	61.89	82.39	69.28	-1,580.32	5,843.47	4,199.39	4,060.77	138.61	30.296		
5,900.00	4,905.92	4,852.92	4,852.92	63.29	83.72	69.94	-1,580.32	5,843.47	4,170.94	4,029.40	141.54	29.469		
6,000.00	4,982.04	4,929.04	4,929.04	64.69	85.05	70.61	-1,580.32	5,843.47	4,143.31	3,998.84	144.47	28.679		
6,100.00	5,058.17	5,005.17	5,005.17	66.09	86.38	71.28	-1,580.32	5,843.47	4,116.51	3,969.10	147.42	27.924		
6,200.00	5,134.30	5,081.30	5,081.30	67.49	87.71	71.96	-1,580.32	5,843.47	4,090.57	3,940.20	150.37	27.203		
6,300.00	5,210.42	5,157.42	5,157.42	68.89	89.04	72.64	-1,580.32	5,843.47	4,065.50	3,912.17	153.33	26.514		
6,400.00	5,286.55	5,233.55	5,233.55	70.29	90.37	73.33	-1,580.32	5,843.47	4,041.32	3,885.01	156.30	25.855		
6,500.00	5,362.67	5,309.67	5,309.67	71.69	91.69	74.02	-1,580.32	5,843.47	4,018.03	3,858.75	159.28	25.226		
6,600.00	5,438.80	5,385.80	5,385.80	73.09	93.02	74.72	-1,580.32	5,843.47	3,995.66	3,833.40	162.26	24.625		
6,700.00	5,514.93	5,461.93	5,461.93	74.49	94.35	75.42	-1,580.32	5,843.47	3,974.22	3,808.98	165.24	24.051		
6,800.00	5,591.05	5,538.05	5,538.05	75.89	95.68	76.13	-1,580.32	5,843.47	3,953.74	3,785.51	168.23	23.502		
6,900.00	5,667.18	5,614.18	5,614.18	77.29	97.01	76.84	-1,580.32	5,843.47	3,934.21	3,762.99	171.22	22.978		
7,000.00	5,743.30	5,709.70	5,690.30	78.69	98.68	77.55	-1,580.32	5,843.47	3,915.66	3,741.12	174.54	22.434		
7,100.00	5,819.43	5,766.43	5,766.43	80.09	99.67	78.27	-1,580.32	5,843.47	3,898.10	3,720.91	177.19	22.000		
7,200.00	5,895.56	5,842.56	5,842.56	81.49	100.99	78.99	-1,580.32	5,843.47	3,881.54	3,701.37	180.17	21.544		
7,300.00	5,971.68	5,918.68	5,918.68	82.90	102.32	79.72	-1,580.32	5,843.47	3,866.00	3,682.86	183.14	21.109		
7,400.00	6,047.81	6,005.19	5,994.81	84.30	103.83	80.45	-1,580.32	5,843.47	3,851.49	3,665.20	186.29	20.674		
7,500.00	6,123.94	6,070.94	6,070.94	85.70	104.98	81.18	-1,580.32	5,843.47	3,838.02	3,648.95	189.08	20.299		
7,600.00	6,200.06	6,147.06	6,147.06	87.10	106.31	81.92	-1,580.32	5,843.47	3,825.61	3,633.58	192.03	19.922		
7,700.00	6,276.19	6,223.19	6,223.19	88.50	107.64	82.66	-1,580.32	5,843.47	3,814.25	3,619.28	194.97	19.563		
7,800.00	6,352.31	6,300.69	6,299.31	89.90	108.99	83.40	-1,580.32	5,843.47	3,803.97	3,606.05	197.92	19.220		
7,900.00	6,428.44	6,375.44	6,375.44	91.31	110.30	84.14	-1,580.32	5,843.47	3,794.76	3,593.95	200.81	18.897		
8,000.00	6,504.57	6,451.57	6,451.57	92.71	111.62	84.89	-1,580.32	5,843.47	3,786.65	3,582.94	203.71	18.588		
8,100.00	6,580.69	6,527.69	6,527.69	94.11	112.95	85.63	-1,580.32	5,843.47	3,779.63	3,573.04	206.59	18.295		
8,200.00	6,656.82	6,603.82	6,603.82	95.51	114.28	86.38	-1,580.32	5,843.47	3,773.71	3,564.25	209.46	18.017		
8,300.00	6,732.95	6,679.95	6,679.95	96.91	115.61	87.13	-1,580.32	5,843.47	3,768.90	3,556.60	212.30	17.753		
8,400.00	6,809.07	6,756.07	6,756.07	98.32	116.94	87.88	-1,580.32	5,843.47	3,765.20	3,550.08	215.12	17.503		
8,500.00	6,885.20	6,832.20	6,832.20	99.72	118.27	88.63	-1,580.32	5,843.47	3,762.61	3,544.69	217.92	17.266		
8,600.00	6,961.32	6,908.32	6,908.32	101.12	119.60	89.39	-1,580.32	5,843.47	3,761.14	3,540.44	220.70	17.042		
8,681.58	7,023.43	6,970.43	6,970.43	102.26	120.68	90.00	-1,580.32	5,843.47	3,760.77	3,537.83	222.94	16.869		
8,700.00	7,037.45	6,984.45	6,984.45	102.52	120.92	90.14	-1,580.32	5,843.47	3,760.79	3,537.34	223.45	16.831		
8,732.15	7,061.92	7,008.92	7,008.92	102.97	121.35	90.38	-1,580.32	5,843.47	3,760.91	3,536.59	224.33	16.765		
8,750.00	7,075.57	7,022.57	7,022.57	103.22	121.59	88.49	-1,580.32	5,843.47	3,760.76	3,535.95	224.81	16.729		
8,800.00	7,114.27	7,061.27	7,061.27	103.91	122.27	82.82	-1,580.32	5,843.47	3,757.72	3,531.55	226.17	16.615		
8,850.00	7,153.47	7,100.47	7,100.47	104.58	122.95	76.72	-1,580.32	5,843.47	3,750.79	3,523.28	227.51	16.486		
8,900.00	7,192.85	7,139.85	7,139.85	105.21	123.64	70.37	-1,580.32	5,843.47	3,740.00	3,511.18	228.82	16.345		
8,950.00	7,232.12	7,179.12	7,179.12	105.80	124.32	63.96	-1,580.32	5,843.47	3,725.39	3,495.30	230.09	16.191		
9,000.00	7,270.99	7,217.99	7,217.99	106.35	125.00	57.67	-1,580.32	5,843.47	3,707.04	3,475.73	231.31	16.026		
9,050.00	7,309.16	7,256.16	7,256.16	106.85	125.67	51.63	-1,580.32	5,843.47	3,685.05	3,452.59	232.47	15.852		
9,100.00	7,346.32	7,306.68	7,293.32	107.30	126.55	45.92	-1,580.32	5,843.47	3,659.56	3,425.76	233.79	15.653		
9,150.00	7,382.22	7,329.22	7,329.22	107.69	126.94	40.53	-1,580.32	5,843.47	3,630.71	3,396.13	234.58	15.478		
9,200.00	7,416.56	7,363.56	7,363.56	108.02	127.54	35.41	-1,580.32	5,843.47	3,598.69	3,363.18	235.51	15.280		
9,250.00	7,449.09	7,403.91	7,396.09	108.29	128.25	30.46	-1,580.32	5,843.47	3,563.72	3,327.22	236.50	15.069		
9,300.00	7,479.56	7,426.56	7,426.56	108.51	128.64	25.50	-1,580.32	5,843.47	3,526.03	3,288.90	237.12	14.870		
9,350.00	7,507.74	7,454.74	7,454.74	108.68	129.13	20.31	-1,580.32	5,843.47	3,485.87	3,248.08	237.79	14.660		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,400.00	7,533.41	7,480.41	7,480.41	108.79	129.58	14.58	-1,580.32	5,843.47	3,443.54	3,205.18	238.36	14.447		
9,450.00	7,556.39	7,503.39	7,503.39	108.86	129.98	7.80	-1,580.32	5,843.47	3,399.33	3,160.50	238.83	14.233		
9,500.00	7,576.48	7,523.48	7,523.48	108.88	130.33	-0.73	-1,580.32	5,843.47	3,353.58	3,114.37	239.21	14.019		
9,550.00	7,593.55	7,540.55	7,540.55	108.86	130.63	-12.04	-1,580.32	5,843.47	3,306.63	3,067.15	239.49	13.807		
9,600.00	7,607.46	7,554.46	7,554.46	108.80	130.87	-27.21	-1,580.32	5,843.47	3,258.85	3,019.18	239.67	13.597		
9,650.00	7,618.11	7,565.11	7,565.11	108.71	131.06	-46.07	-1,580.32	5,843.47	3,210.60	2,970.85	239.75	13.391		
9,700.00	7,625.41	7,572.41	7,572.41	108.59	131.19	-65.63	-1,580.32	5,843.47	3,162.27	2,922.54	239.74	13.191		
9,750.00	7,629.30	7,576.30	7,576.30	108.45	131.25	-81.98	-1,580.32	5,843.47	3,114.27	2,874.64	239.63	12.996		
9,781.81	7,630.00	7,577.00	7,577.00	108.35	131.27	-90.00	-1,580.32	5,843.47	3,084.09	2,844.58	239.51	12.877		
9,800.00	7,630.00	7,577.00	7,577.00	108.29	131.27	-90.00	-1,580.32	5,843.47	3,066.93	2,827.50	239.43	12.809		
9,900.00	7,630.00	7,577.00	7,577.00	107.97	131.27	-90.00	-1,580.32	5,843.47	2,972.85	2,733.87	238.98	12.440		
10,000.00	7,630.00	7,577.00	7,577.00	107.67	131.27	-90.00	-1,580.32	5,843.47	2,879.18	2,640.68	238.50	12.072		
10,100.00	7,630.00	7,577.00	7,577.00	107.38	131.27	-90.00	-1,580.32	5,843.47	2,785.94	2,547.97	237.97	11.707		
10,200.00	7,630.00	7,577.00	7,577.00	107.10	131.27	-90.00	-1,580.32	5,843.47	2,693.19	2,455.80	237.39	11.345		
10,300.00	7,630.00	7,577.00	7,577.00	106.84	131.27	-90.00	-1,580.32	5,843.47	2,600.97	2,364.22	236.75	10.986		
10,400.00	7,630.00	7,577.00	7,577.00	106.59	131.27	-90.00	-1,580.32	5,843.47	2,509.35	2,273.30	236.05	10.630		
10,500.00	7,630.00	7,577.00	7,577.00	106.35	131.27	-90.00	-1,580.32	5,843.47	2,418.40	2,183.11	235.29	10.279		
10,600.00	7,630.00	7,577.00	7,577.00	106.13	131.27	-90.00	-1,580.32	5,843.47	2,328.19	2,093.75	234.44	9.931		
10,700.00	7,630.00	7,577.00	7,577.00	105.92	131.27	-90.00	-1,580.32	5,843.47	2,238.80	2,005.30	233.50	9.588		
10,800.00	7,630.00	7,577.00	7,577.00	105.72	131.27	-90.00	-1,580.32	5,843.47	2,150.36	1,917.90	232.46	9.250		
10,900.00	7,630.00	7,577.00	7,577.00	105.54	131.27	-90.00	-1,580.32	5,843.47	2,062.97	1,831.67	231.30	8.919		
11,000.00	7,630.00	7,577.00	7,577.00	105.37	131.27	-90.00	-1,580.32	5,843.47	1,976.77	1,746.77	230.00	8.595		
11,100.00	7,630.00	7,577.00	7,577.00	105.21	131.27	-90.00	-1,580.32	5,843.47	1,891.94	1,663.39	228.55	8.278		
11,200.00	7,630.00	7,577.00	7,577.00	105.06	131.27	-90.00	-1,580.32	5,843.47	1,808.66	1,581.73	226.93	7.970		
11,300.00	7,630.00	7,577.00	7,577.00	104.93	131.27	-90.00	-1,580.32	5,843.47	1,727.15	1,502.05	225.10	7.673		
11,400.00	7,630.00	7,577.00	7,577.00	104.82	131.27	-90.00	-1,580.32	5,843.47	1,647.67	1,424.63	223.04	7.387		
11,500.00	7,630.00	7,577.00	7,577.00	104.72	131.27	-90.00	-1,580.32	5,843.47	1,570.55	1,349.82	220.73	7.115		
11,600.00	7,630.00	7,577.00	7,577.00	104.63	131.27	-90.00	-1,580.32	5,843.47	1,496.14	1,278.00	218.14	6.859		
11,700.00	7,630.00	7,577.00	7,577.00	104.55	131.27	-90.00	-1,580.32	5,843.47	1,424.86	1,209.62	215.24	6.620		
11,800.00	7,630.00	7,577.00	7,577.00	104.50	131.27	-90.00	-1,580.32	5,843.47	1,357.21	1,145.19	212.02	6.401		
11,900.00	7,630.00	7,577.00	7,577.00	104.45	131.27	-90.00	-1,580.32	5,843.47	1,293.76	1,085.27	208.49	6.205		
12,000.00	7,630.00	7,577.00	7,577.00	104.43	131.27	-90.00	-1,580.32	5,843.47	1,235.16	1,030.47	204.69	6.034		
12,100.00	7,630.00	7,577.00	7,577.00	104.42	131.27	-90.00	-1,580.32	5,843.47	1,182.12	981.41	200.71	5.890		
12,200.00	7,630.00	7,577.00	7,577.00	104.42	131.27	-90.00	-1,580.32	5,843.47	1,135.44	938.68	196.75	5.771		
12,300.00	7,630.00	7,577.00	7,577.00	104.45	131.27	-90.00	-1,580.32	5,843.47	1,095.91	902.81	193.09	5.676		
12,400.00	7,630.00	7,577.00	7,577.00	104.49	131.27	-90.00	-1,580.32	5,843.47	1,064.33	874.20	190.14	5.598		
12,500.00	7,630.00	7,577.00	7,577.00	104.55	131.27	-90.00	-1,580.32	5,843.47	1,041.44	853.09	188.36	5.529		
12,600.00	7,630.00	7,577.00	7,577.00	104.63	131.27	-90.00	-1,580.32	5,843.47	1,027.82	839.68	188.14	5.463		
12,691.01	7,630.00	7,577.00	7,577.00	104.72	131.27	-90.00	-1,580.32	5,843.47	1,023.78	834.34	189.44	5.404 CC		
12,700.00	7,630.00	7,577.00	7,577.00	104.73	131.27	-90.00	-1,580.32	5,843.47	1,023.82	834.17	189.64	5.399 ES		
12,800.00	7,630.00	7,577.00	7,577.00	104.85	131.27	-90.00	-1,580.32	5,843.47	1,029.56	836.86	192.70	5.343		
12,900.00	7,630.00	7,577.00	7,577.00	104.99	131.27	-90.00	-1,580.32	5,843.47	1,044.89	847.99	196.90	5.307		
13,000.00	7,630.00	7,577.00	7,577.00	105.15	131.27	-90.00	-1,580.32	5,843.47	1,069.39	867.65	201.74	5.301 SF		
13,100.00	7,630.00	7,577.00	7,577.00	105.34	131.27	-90.00	-1,580.32	5,843.47	1,102.45	895.68	206.77	5.332		
13,200.00	7,630.00	7,577.00	7,577.00	105.56	131.27	-90.00	-1,580.32	5,843.47	1,143.32	931.65	211.68	5.401		
13,300.00	7,630.00	7,577.00	7,577.00	105.80	131.27	-90.00	-1,580.32	5,843.47	1,191.21	974.96	216.25	5.508		
13,400.00	7,630.00	7,577.00	7,577.00	106.06	131.27	-90.00	-1,580.32	5,843.47	1,245.31	1,024.91	220.40	5.650		
13,500.00	7,630.00	7,577.00	7,577.00	106.36	131.27	-90.00	-1,580.32	5,843.47	1,304.83	1,080.76	224.07	5.823		
13,600.00	7,630.00	7,577.00	7,577.00	106.68	131.27	-90.00	-1,580.32	5,843.47	1,369.08	1,141.79	227.29	6.023		
13,700.00	7,630.00	7,577.00	7,577.00	107.03	131.27	-90.00	-1,580.32	5,843.47	1,437.42	1,207.34	230.08	6.247		
13,800.00	7,630.00	7,577.00	7,577.00	107.42	131.27	-90.00	-1,580.32	5,843.47	1,509.30	1,276.80	232.49	6.492		
13,900.00	7,630.00	7,577.00	7,577.00	107.83	131.27	-90.00	-1,580.32	5,843.47	1,584.23	1,349.66	234.57	6.754		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,577.00	7,577.00	108.28	131.27	-90.00	-1,580.32	5,843.47	1,661.80	1,425.44	236.36	7.031		
14,100.00	7,630.00	7,577.00	7,577.00	108.77	131.27	-90.00	-1,580.32	5,843.47	1,741.66	1,503.76	237.90	7.321		
14,200.00	7,630.00	7,577.00	7,577.00	109.29	131.27	-90.00	-1,580.32	5,843.47	1,823.50	1,584.28	239.23	7.622		
14,300.00	7,630.00	7,577.00	7,577.00	109.84	131.27	-90.00	-1,580.32	5,843.47	1,907.08	1,666.71	240.37	7.934		
14,400.00	7,630.00	7,577.00	7,577.00	110.43	131.27	-90.00	-1,580.32	5,843.47	1,992.18	1,750.81	241.37	8.254		
14,500.00	7,630.00	7,577.00	7,577.00	111.06	131.27	-90.00	-1,580.32	5,843.47	2,078.60	1,836.36	242.23	8.581		
14,600.00	7,630.00	7,577.00	7,577.00	111.72	131.27	-90.00	-1,580.32	5,843.47	2,166.19	1,923.20	242.99	8.915		
14,700.00	7,630.00	7,577.00	7,577.00	112.42	131.27	-90.00	-1,580.32	5,843.47	2,254.81	2,011.16	243.65	9.254		
14,800.00	7,630.00	7,577.00	7,577.00	113.16	131.27	-90.00	-1,580.32	5,843.47	2,344.35	2,100.12	244.23	9.599		
14,900.00	7,630.00	7,577.00	7,577.00	113.94	131.27	-90.00	-1,580.32	5,843.47	2,434.70	2,189.96	244.73	9.948		
15,000.00	7,630.00	7,577.00	7,577.00	114.75	131.27	-90.00	-1,580.32	5,843.47	2,525.78	2,280.59	245.18	10.302		
15,100.00	7,630.00	7,577.00	7,577.00	115.60	131.27	-90.00	-1,580.32	5,843.47	2,617.51	2,371.93	245.58	10.658		
15,200.00	7,630.00	7,577.00	7,577.00	116.48	131.27	-90.00	-1,580.32	5,843.47	2,709.82	2,463.89	245.94	11.018		
15,300.00	7,630.00	7,577.00	7,577.00	117.40	131.27	-90.00	-1,580.32	5,843.47	2,802.67	2,556.42	246.25	11.381		
15,400.00	7,630.00	7,577.00	7,577.00	118.35	131.27	-90.00	-1,580.32	5,843.47	2,895.99	2,649.45	246.53	11.747		
15,500.00	7,630.00	7,577.00	7,577.00	119.34	131.27	-90.00	-1,580.32	5,843.47	2,989.74	2,742.95	246.79	12.115		
15,600.00	7,630.00	7,577.00	7,577.00	120.35	131.27	-90.00	-1,580.32	5,843.47	3,083.88	2,836.87	247.01	12.485		
15,700.00	7,630.00	7,577.00	7,577.00	121.40	131.27	-90.00	-1,580.32	5,843.47	3,178.39	2,931.17	247.22	12.857		
15,800.00	7,630.00	7,577.00	7,577.00	122.48	131.27	-90.00	-1,580.32	5,843.47	3,273.21	3,025.81	247.40	13.230		
15,900.00	7,630.00	7,577.00	7,577.00	123.58	131.27	-90.00	-1,580.32	5,843.47	3,368.34	3,120.77	247.57	13.606		
16,000.00	7,630.00	7,577.00	7,577.00	124.71	131.27	-90.00	-1,580.32	5,843.47	3,463.75	3,216.02	247.72	13.982		
16,100.00	7,630.00	7,577.00	7,577.00	125.87	131.27	-90.00	-1,580.32	5,843.47	3,559.40	3,311.54	247.86	14.360		
16,200.00	7,630.00	7,577.00	7,577.00	127.05	131.27	-90.00	-1,580.32	5,843.47	3,655.29	3,407.30	247.99	14.740		
16,300.00	7,630.00	7,577.00	7,577.00	128.26	131.27	-90.00	-1,580.32	5,843.47	3,751.39	3,503.29	248.10	15.120		
16,400.00	7,630.00	7,577.00	7,577.00	129.48	131.27	-90.00	-1,580.32	5,843.47	3,847.69	3,599.48	248.21	15.502		
16,500.00	7,630.00	7,577.00	7,577.00	130.73	131.27	-90.00	-1,580.32	5,843.47	3,944.18	3,695.87	248.31	15.884		
16,600.00	7,630.00	7,577.00	7,577.00	132.00	131.27	-90.00	-1,580.32	5,843.47	4,040.83	3,792.43	248.40	16.268		
16,700.00	7,630.00	7,577.00	7,577.00	133.29	131.27	-90.00	-1,580.32	5,843.47	4,137.65	3,889.17	248.48	16.652		
16,800.00	7,630.00	7,577.00	7,577.00	134.59	131.27	-90.00	-1,580.32	5,843.47	4,234.61	3,986.05	248.56	17.037		
16,900.00	7,630.00	7,577.00	7,577.00	135.91	131.27	-90.00	-1,580.32	5,843.47	4,331.71	4,083.08	248.63	17.422		
17,000.00	7,630.00	7,577.00	7,577.00	137.25	131.27	-90.00	-1,580.32	5,843.47	4,428.94	4,180.24	248.70	17.809		
17,100.00	7,630.00	7,577.00	7,577.00	138.61	131.27	-90.00	-1,580.32	5,843.47	4,526.29	4,277.53	248.76	18.196		
17,200.00	7,630.00	7,577.00	7,577.00	139.97	131.27	-90.00	-1,580.32	5,843.47	4,623.75	4,374.94	248.82	18.583		
17,300.00	7,630.00	7,577.00	7,577.00	141.36	131.27	-90.00	-1,580.32	5,843.47	4,721.32	4,472.45	248.87	18.971		
17,400.00	7,630.00	7,577.00	7,577.00	142.75	131.27	-90.00	-1,580.32	5,843.47	4,818.99	4,570.07	248.92	19.360		
17,500.00	7,630.00	7,577.00	7,577.00	144.16	131.27	-90.00	-1,580.32	5,843.47	4,916.76	4,667.79	248.97	19.748		
17,600.00	7,630.00	7,577.00	7,577.00	145.58	131.27	-90.00	-1,580.32	5,843.47	5,014.61	4,765.59	249.01	20.138		
17,700.00	7,630.00	7,577.00	7,577.00	147.01	131.27	-90.00	-1,580.32	5,843.47	5,112.54	4,863.48	249.06	20.528		
17,800.00	7,630.00	7,577.00	7,577.00	148.45	131.27	-90.00	-1,580.32	5,843.47	5,210.56	4,961.46	249.10	20.918		
17,900.00	7,630.00	7,577.00	7,577.00	149.91	131.27	-90.00	-1,580.32	5,843.47	5,308.64	5,059.51	249.14	21.308		
18,000.00	7,630.00	7,577.00	7,577.00	151.37	131.27	-90.00	-1,580.32	5,843.47	5,406.80	5,157.63	249.17	21.699		
18,100.00	7,630.00	7,577.00	7,577.00	152.84	131.27	-90.00	-1,580.32	5,843.47	5,505.02	5,255.81	249.21	22.090		
18,200.00	7,630.00	7,577.00	7,577.00	154.32	131.27	-90.00	-1,580.32	5,843.47	5,603.31	5,354.07	249.24	22.481		
18,300.00	7,630.00	7,577.00	7,577.00	155.81	131.27	-90.00	-1,580.32	5,843.47	5,701.66	5,452.38	249.28	22.873		
18,400.00	7,630.00	7,577.00	7,577.00	157.31	131.27	-90.00	-1,580.32	5,843.47	5,800.06	5,550.75	249.31	23.265		
18,500.00	7,630.00	7,577.00	7,577.00	158.81	131.27	-90.00	-1,580.32	5,843.47	5,898.51	5,649.18	249.34	23.657		
18,600.00	7,630.00	7,577.00	7,577.00	160.32	131.27	-90.00	-1,580.32	5,843.47	5,997.02	5,747.65	249.37	24.049		
18,700.00	7,630.00	7,577.00	7,577.00	161.84	131.27	-90.00	-1,580.32	5,843.47	6,095.58	5,846.18	249.40	24.441		
18,800.00	7,630.00	7,577.00	7,577.00	163.37	131.27	-90.00	-1,580.32	5,843.47	6,194.18	5,944.76	249.42	24.834		
18,900.00	7,630.00	7,577.00	7,577.00	164.90	131.27	-90.00	-1,580.32	5,843.47	6,292.83	6,043.38	249.45	25.227		
19,000.00	7,630.00	7,577.00	7,577.00	166.43	131.27	-90.00	-1,580.32	5,843.47	6,391.52	6,142.04	249.48	25.620		
19,100.00	7,630.00	7,577.00	7,577.00	167.98	131.27	-90.00	-1,580.32	5,843.47	6,490.24	6,240.74	249.50	26.013		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
19,200.00	7,630.00	7,577.00	7,577.00	169.53	131.27	-90.00	-1,580.32	5,843.47	6,589.01	6,339.48	249.53	26.406	
19,300.00	7,630.00	7,577.00	7,577.00	171.08	131.27	-90.00	-1,580.32	5,843.47	6,687.81	6,438.26	249.55	26.799	
19,400.00	7,630.00	7,577.00	7,577.00	172.64	131.27	-90.00	-1,580.32	5,843.47	6,786.65	6,537.08	249.58	27.193	
19,500.00	7,630.00	7,577.00	7,577.00	174.21	131.27	-90.00	-1,580.32	5,843.47	6,885.53	6,635.93	249.60	27.586	
19,518.56	7,630.00	7,577.00	7,577.00	174.50	131.27	-90.00	-1,580.32	5,843.47	6,903.88	6,654.28	249.60	27.659	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	115.12	-2,506.46	5,346.63	5,905.17					
100.00	100.00	53.00	53.00	0.13	0.41	115.12	-2,506.46	5,346.63	5,904.98	5,904.44	0.54	N/A		
200.00	200.00	153.00	153.00	0.49	1.69	115.12	-2,506.46	5,346.63	5,904.98	5,902.79	2.19	2,701.433		
300.00	300.00	253.00	253.00	0.85	3.44	115.12	-2,506.46	5,346.63	5,904.98	5,900.69	4.29	1,376.558		
400.00	400.00	353.00	353.00	1.21	5.18	115.12	-2,506.46	5,346.63	5,904.98	5,898.59	6.39	923.595		
500.00	499.98	452.98	452.98	1.56	6.93	48.42	-2,506.46	5,346.63	5,903.82	5,895.33	8.49	695.194		
600.00	599.84	552.84	552.84	1.92	8.67	48.51	-2,506.46	5,346.63	5,900.35	5,889.76	10.59	557.185		
700.00	699.45	652.45	652.45	2.29	10.41	48.66	-2,506.46	5,346.63	5,894.57	5,881.88	12.69	464.531		
800.00	798.70	751.70	751.70	2.67	12.14	48.87	-2,506.46	5,346.63	5,886.50	5,871.71	14.79	397.954		
900.00	897.47	850.47	850.47	3.07	13.87	49.14	-2,506.46	5,346.63	5,876.17	5,859.27	16.90	347.729		
1,000.00	995.62	948.62	948.62	3.50	15.58	49.48	-2,506.46	5,346.63	5,863.60	5,844.58	19.01	308.423		
1,100.00	1,093.06	1,046.06	1,046.06	3.96	17.28	49.87	-2,506.46	5,346.63	5,848.82	5,827.69	21.13	276.772		
1,200.00	1,189.64	1,142.64	1,142.64	4.46	18.97	50.32	-2,506.46	5,346.63	5,831.88	5,808.61	23.26	250.691		
1,300.00	1,285.27	1,238.27	1,238.27	5.00	20.63	50.84	-2,506.46	5,346.63	5,812.82	5,787.41	25.41	228.793		
1,400.00	1,379.82	1,332.82	1,332.82	5.60	22.28	51.42	-2,506.46	5,346.63	5,791.70	5,764.13	27.56	210.116		
1,500.00	1,473.17	1,426.17	1,426.17	6.25	23.91	52.06	-2,506.46	5,346.63	5,768.57	5,738.83	29.74	193.973		
1,600.00	1,565.21	1,518.21	1,518.21	6.95	25.52	52.76	-2,506.46	5,346.63	5,743.50	5,711.57	31.93	179.863		
1,700.00	1,655.84	1,608.84	1,608.84	7.72	27.10	53.53	-2,506.46	5,346.63	5,716.57	5,682.42	34.15	167.409		
1,800.00	1,744.94	1,702.06	1,697.94	8.55	28.73	54.36	-2,506.46	5,346.63	5,687.84	5,651.38	36.46	156.014		
1,900.00	1,832.39	1,785.39	1,785.39	9.45	30.18	55.25	-2,506.46	5,346.63	5,657.40	5,618.75	38.65	146.382		
2,000.00	1,918.11	1,871.11	1,871.11	10.41	31.68	56.20	-2,506.46	5,346.63	5,625.35	5,584.41	40.94	137.411		
2,100.00	2,001.97	1,954.97	1,954.97	11.45	33.14	57.21	-2,506.46	5,346.63	5,591.76	5,548.51	43.26	129.270		
2,200.00	2,083.88	2,036.88	2,036.88	12.56	34.57	58.27	-2,506.46	5,346.63	5,556.75	5,511.15	45.60	121.846		
2,300.00	2,163.74	2,116.74	2,116.74	13.74	35.97	59.40	-2,506.46	5,346.63	5,520.42	5,472.43	47.98	115.046		
2,400.00	2,241.45	2,205.55	2,194.45	14.99	37.52	60.58	-2,506.46	5,346.63	5,482.88	5,432.28	50.59	108.377		
2,421.22	2,257.65	2,210.65	2,210.65	15.26	37.61	60.83	-2,506.46	5,346.63	5,474.76	5,423.85	50.91	107.531		
2,500.00	2,317.63	2,270.63	2,270.63	16.29	38.65	61.22	-2,506.46	5,346.63	5,444.71	5,391.87	52.84	103.041		
2,600.00	2,393.75	2,346.75	2,346.75	17.62	39.98	61.71	-2,506.46	5,346.63	5,407.03	5,351.71	55.31	97.753		
2,700.00	2,469.88	2,422.88	2,422.88	18.95	41.31	62.21	-2,506.46	5,346.63	5,369.86	5,312.04	57.81	92.885		
2,800.00	2,546.01	2,500.99	2,499.01	20.30	42.67	62.72	-2,506.46	5,346.63	5,333.21	5,272.84	60.37	88.342		
2,900.00	2,622.13	2,575.13	2,575.13	21.65	43.97	63.22	-2,506.46	5,346.63	5,297.11	5,234.23	62.88	84.241		
3,000.00	2,698.26	2,651.26	2,651.26	23.01	45.30	63.74	-2,506.46	5,346.63	5,261.56	5,196.12	65.45	80.394		
3,100.00	2,774.38	2,727.38	2,727.38	24.37	46.62	64.25	-2,506.46	5,346.63	5,226.58	5,158.54	68.03	76.823		
3,200.00	2,850.51	2,803.51	2,803.51	25.74	47.95	64.78	-2,506.46	5,346.63	5,192.17	5,121.53	70.64	73.503		
3,300.00	2,926.64	2,879.64	2,879.64	27.11	49.28	65.30	-2,506.46	5,346.63	5,158.34	5,085.08	73.26	70.409		
3,400.00	3,002.76	2,955.76	2,955.76	28.49	50.61	65.83	-2,506.46	5,346.63	5,125.11	5,049.21	75.90	67.522		
3,500.00	3,078.89	3,031.89	3,031.89	29.87	51.94	66.37	-2,506.46	5,346.63	5,092.49	5,013.93	78.56	64.823		
3,600.00	3,155.02	3,108.02	3,108.02	31.25	53.27	66.91	-2,506.46	5,346.63	5,060.49	4,979.26	81.23	62.296		
3,700.00	3,231.14	3,184.14	3,184.14	32.63	54.60	67.45	-2,506.46	5,346.63	5,029.12	4,945.20	83.92	59.927		
3,800.00	3,307.27	3,260.27	3,260.27	34.01	55.93	68.00	-2,506.46	5,346.63	4,998.40	4,911.77	86.62	57.702		
3,900.00	3,383.39	3,336.39	3,336.39	35.40	57.25	68.55	-2,506.46	5,346.63	4,968.33	4,878.99	89.34	55.610		
4,000.00	3,459.52	3,412.52	3,412.52	36.79	58.58	69.11	-2,506.46	5,346.63	4,938.93	4,846.86	92.07	53.642		
4,100.00	3,535.65	3,488.65	3,488.65	38.18	59.91	69.67	-2,506.46	5,346.63	4,910.22	4,815.40	94.82	51.786		
4,200.00	3,611.77	3,564.77	3,564.77	39.57	61.24	70.24	-2,506.46	5,346.63	4,882.19	4,784.62	97.57	50.036		
4,300.00	3,687.90	3,640.90	3,640.90	40.96	62.57	70.81	-2,506.46	5,346.63	4,854.87	4,754.53	100.34	48.383		
4,400.00	3,764.02	3,717.02	3,717.02	42.35	63.90	71.38	-2,506.46	5,346.63	4,828.26	4,725.14	103.12	46.820		
4,500.00	3,840.15	3,806.85	3,793.15	43.74	65.46	71.96	-2,506.46	5,346.63	4,802.39	4,696.23	106.15	45.240		
4,600.00	3,916.28	3,869.28	3,869.28	45.13	66.55	72.54	-2,506.46	5,346.63	4,777.25	4,668.54	108.72	43.943		
4,700.00	3,992.40	3,945.40	3,945.40	46.53	67.88	73.12	-2,506.46	5,346.63	4,752.87	4,641.34	111.53	42.616		
4,800.00	4,068.53	4,021.53	4,021.53	47.92	69.21	73.71	-2,506.46	5,346.63	4,729.25	4,614.90	114.35	41.359		
4,900.00	4,144.66	4,102.34	4,097.66	49.32	70.62	74.30	-2,506.46	5,346.63	4,706.40	4,589.14	117.26	40.138		
5,000.00	4,220.78	4,173.78	4,173.78	50.71	71.87	74.90	-2,506.46	5,346.63	4,684.34	4,564.33	120.01	39.033		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,296.91	4,249.91	4,249.91	52.11	73.20	75.50	-2,506.46	5,346.63	4,663.08	4,540.22	122.85	37.957		
5,200.00	4,373.03	4,326.03	4,326.03	53.51	74.53	76.10	-2,506.46	5,346.63	4,642.62	4,516.92	125.70	36.934		
5,300.00	4,449.16	4,402.16	4,402.16	54.90	75.85	76.71	-2,506.46	5,346.63	4,622.99	4,494.43	128.55	35.961		
5,400.00	4,525.29	4,478.29	4,478.29	56.30	77.18	77.31	-2,506.46	5,346.63	4,604.18	4,472.77	131.41	35.036		
5,500.00	4,601.41	4,554.41	4,554.41	57.70	78.51	77.93	-2,506.46	5,346.63	4,586.22	4,451.94	134.27	34.156		
5,600.00	4,677.54	4,630.54	4,630.54	59.10	79.84	78.54	-2,506.46	5,346.63	4,569.10	4,431.96	137.14	33.318		
5,700.00	4,753.66	4,706.66	4,706.66	60.49	81.17	79.16	-2,506.46	5,346.63	4,552.84	4,412.84	140.00	32.520		
5,800.00	4,829.79	4,782.79	4,782.79	61.89	82.50	79.77	-2,506.46	5,346.63	4,537.46	4,394.59	142.87	31.759		
5,900.00	4,905.92	4,858.92	4,858.92	63.29	83.83	80.40	-2,506.46	5,346.63	4,522.94	4,377.21	145.74	31.035		
6,000.00	4,982.04	4,935.04	4,935.04	64.69	85.16	81.02	-2,506.46	5,346.63	4,509.32	4,360.72	148.60	30.345		
6,100.00	5,058.17	5,011.17	5,011.17	66.09	86.48	81.65	-2,506.46	5,346.63	4,496.59	4,345.12	151.46	29.687		
6,200.00	5,134.30	5,087.30	5,087.30	67.49	87.81	82.27	-2,506.46	5,346.63	4,484.76	4,330.44	154.32	29.061		
6,300.00	5,210.42	5,163.42	5,163.42	68.89	89.14	82.90	-2,506.46	5,346.63	4,473.84	4,316.66	157.18	28.463		
6,400.00	5,286.55	5,239.55	5,239.55	70.29	90.47	83.54	-2,506.46	5,346.63	4,463.83	4,303.80	160.03	27.893		
6,500.00	5,362.67	5,315.67	5,315.67	71.69	91.80	84.17	-2,506.46	5,346.63	4,454.75	4,291.87	162.88	27.350		
6,600.00	5,438.80	5,408.20	5,391.80	73.09	93.41	84.80	-2,506.46	5,346.63	4,446.59	4,280.59	166.00	26.787		
6,700.00	5,514.93	5,467.93	5,467.93	74.49	94.46	85.44	-2,506.46	5,346.63	4,439.37	4,270.82	168.54	26.339		
6,800.00	5,591.05	5,544.05	5,544.05	75.89	95.78	86.08	-2,506.46	5,346.63	4,433.08	4,261.71	171.37	25.869		
6,900.00	5,667.18	5,620.18	5,620.18	77.29	97.11	86.72	-2,506.46	5,346.63	4,427.73	4,253.56	174.18	25.421		
7,000.00	5,743.30	5,703.70	5,696.30	78.69	98.57	87.35	-2,506.46	5,346.63	4,423.33	4,246.23	177.11	24.976		
7,100.00	5,819.43	5,772.43	5,772.43	80.09	99.77	87.99	-2,506.46	5,346.63	4,419.88	4,240.11	179.77	24.587		
7,200.00	5,895.56	5,848.56	5,848.56	81.49	101.10	88.63	-2,506.46	5,346.63	4,417.37	4,234.83	182.54	24.199		
7,300.00	5,971.68	5,924.68	5,924.68	82.90	102.43	89.27	-2,506.46	5,346.63	4,415.81	4,230.51	185.30	23.830		
7,400.00	6,047.81	6,000.81	6,000.81	84.30	103.76	89.91	-2,506.46	5,346.63	4,415.21	4,227.16	188.05	23.479		
7,413.37	6,057.99	6,010.99	6,010.99	84.48	103.93	90.00	-2,506.46	5,346.63	4,415.20	4,226.79	188.42	23.433		
7,500.00	6,123.94	6,076.94	6,076.94	85.70	105.09	90.55	-2,506.46	5,346.63	4,415.56	4,224.78	190.78	23.144		
7,600.00	6,200.06	6,153.06	6,153.06	87.10	106.41	91.20	-2,506.46	5,346.63	4,416.86	4,223.36	193.50	22.826		
7,700.00	6,276.19	6,229.19	6,229.19	88.50	107.74	91.84	-2,506.46	5,346.63	4,419.11	4,222.92	196.20	22.524		
7,800.00	6,352.31	6,305.31	6,305.31	89.90	109.07	92.48	-2,506.46	5,346.63	4,422.31	4,223.44	198.88	22.236		
7,900.00	6,428.44	6,381.44	6,381.44	91.31	110.40	93.11	-2,506.46	5,346.63	4,426.46	4,224.92	201.54	21.963		
8,000.00	6,504.57	6,457.57	6,457.57	92.71	111.73	93.75	-2,506.46	5,346.63	4,431.56	4,227.37	204.18	21.704		
8,100.00	6,580.69	6,533.69	6,533.69	94.11	113.06	94.39	-2,506.46	5,346.63	4,437.60	4,230.79	206.81	21.457		
8,200.00	6,656.82	6,609.82	6,609.82	95.51	114.39	95.03	-2,506.46	5,346.63	4,444.57	4,235.16	209.41	21.224		
8,300.00	6,732.95	6,685.95	6,685.95	96.91	115.71	95.66	-2,506.46	5,346.63	4,452.48	4,240.48	212.00	21.003		
8,400.00	6,809.07	6,762.07	6,762.07	98.32	117.04	96.29	-2,506.46	5,346.63	4,461.31	4,246.76	214.56	20.793		
8,500.00	6,885.20	6,838.20	6,838.20	99.72	118.37	96.93	-2,506.46	5,346.63	4,471.07	4,253.98	217.10	20.595		
8,600.00	6,961.32	6,914.32	6,914.32	101.12	119.70	97.56	-2,506.46	5,346.63	4,481.75	4,262.13	219.62	20.407		
8,700.00	7,037.45	7,009.55	6,990.45	102.52	121.36	98.19	-2,506.46	5,346.63	4,493.34	4,270.89	222.44	20.200		
8,732.15	7,061.92	7,014.92	7,014.92	102.97	121.46	98.39	-2,506.46	5,346.63	4,497.25	4,274.35	222.91	20.175		
8,750.00	7,075.57	7,028.57	7,028.57	103.22	121.69	96.51	-2,506.46	5,346.63	4,499.20	4,275.85	223.35	20.144		
8,800.00	7,114.27	7,067.27	7,067.27	103.91	122.37	90.92	-2,506.46	5,346.63	4,501.88	4,277.29	224.60	20.044		
8,850.00	7,153.47	7,106.47	7,106.47	104.58	123.05	84.95	-2,506.46	5,346.63	4,500.48	4,274.64	225.84	19.928		
8,900.00	7,192.85	7,145.85	7,145.85	105.21	123.74	78.78	-2,506.46	5,346.63	4,495.00	4,267.92	227.07	19.795		
8,950.00	7,232.12	7,185.12	7,185.12	105.80	124.43	72.62	-2,506.46	5,346.63	4,485.45	4,257.17	228.28	19.649		
9,000.00	7,270.99	7,223.99	7,223.99	106.35	125.11	66.67	-2,506.46	5,346.63	4,471.89	4,242.44	229.45	19.489		
9,050.00	7,309.16	7,262.16	7,262.16	106.85	125.77	61.06	-2,506.46	5,346.63	4,454.41	4,223.83	230.58	19.318		
9,100.00	7,346.32	7,300.68	7,299.32	107.30	126.44	55.89	-2,506.46	5,346.63	4,433.12	4,201.44	231.68	19.135		
9,150.00	7,382.22	7,335.22	7,335.22	107.69	127.05	51.19	-2,506.46	5,346.63	4,408.14	4,175.47	232.67	18.946		
9,200.00	7,416.56	7,369.56	7,369.56	108.02	127.65	46.94	-2,506.46	5,346.63	4,379.65	4,146.03	233.62	18.747		
9,250.00	7,449.09	7,402.09	7,402.09	108.29	128.21	43.10	-2,506.46	5,346.63	4,347.83	4,113.34	234.49	18.542		
9,300.00	7,479.56	7,432.56	7,432.56	108.51	128.75	39.58	-2,506.46	5,346.63	4,312.90	4,077.62	235.29	18.330		
9,350.00	7,507.74	7,460.74	7,460.74	108.68	129.24	36.29	-2,506.46	5,346.63	4,275.10	4,039.10	236.00	18.115		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,533.41	7,486.41	7,486.41	108.79	129.69	33.10	-2,506.46	5,346.63	4,234.70	3,998.07	236.63	17.896		
9,450.00	7,556.39	7,509.39	7,509.39	108.86	130.09	29.80	-2,506.46	5,346.63	4,191.96	3,954.79	237.17	17.675		
9,500.00	7,576.48	7,529.48	7,529.48	108.88	130.44	26.09	-2,506.46	5,346.63	4,147.21	3,909.58	237.63	17.452		
9,550.00	7,593.55	7,546.55	7,546.55	108.86	130.73	21.43	-2,506.46	5,346.63	4,100.76	3,862.76	238.00	17.230		
9,600.00	7,607.46	7,560.46	7,560.46	108.80	130.98	14.60	-2,506.46	5,346.63	4,052.95	3,814.67	238.29	17.009		
9,650.00	7,618.11	7,571.11	7,571.11	108.71	131.16	2.58	-2,506.46	5,346.63	4,004.15	3,765.66	238.49	16.790		
9,700.00	7,625.41	7,578.41	7,578.41	108.59	131.29	-22.79	-2,506.46	5,346.63	3,954.71	3,716.11	238.60	16.574		
9,750.00	7,629.30	7,582.30	7,582.30	108.45	131.36	-66.89	-2,506.46	5,346.63	3,905.02	3,666.38	238.64	16.364		
9,781.81	7,630.00	7,583.00	7,583.00	108.35	131.37	-90.00	-2,506.46	5,346.63	3,873.45	3,634.83	238.62	16.233		
9,800.00	7,630.00	7,583.00	7,583.00	108.29	131.37	-90.00	-2,506.46	5,346.63	3,855.43	3,616.83	238.60	16.159		
9,900.00	7,630.00	7,583.00	7,583.00	107.97	131.37	-90.00	-2,506.46	5,346.63	3,756.40	3,517.91	238.49	15.751		
10,000.00	7,630.00	7,583.00	7,583.00	107.67	131.37	-90.00	-2,506.46	5,346.63	3,657.43	3,419.06	238.37	15.344		
10,100.00	7,630.00	7,583.00	7,583.00	107.38	131.37	-90.00	-2,506.46	5,346.63	3,558.51	3,320.27	238.24	14.936		
10,200.00	7,630.00	7,583.00	7,583.00	107.10	131.37	-90.00	-2,506.46	5,346.63	3,459.66	3,221.55	238.11	14.530		
10,300.00	7,630.00	7,583.00	7,583.00	106.84	131.37	-90.00	-2,506.46	5,346.63	3,360.88	3,122.91	237.97	14.123		
10,400.00	7,630.00	7,583.00	7,583.00	106.59	131.37	-90.00	-2,506.46	5,346.63	3,262.17	3,024.35	237.81	13.717		
10,500.00	7,630.00	7,583.00	7,583.00	106.35	131.37	-90.00	-2,506.46	5,346.63	3,163.54	2,925.89	237.65	13.312		
10,600.00	7,630.00	7,583.00	7,583.00	106.13	131.37	-90.00	-2,506.46	5,346.63	3,065.00	2,827.52	237.48	12.907		
10,700.00	7,630.00	7,583.00	7,583.00	105.92	131.37	-90.00	-2,506.46	5,346.63	2,966.55	2,729.27	237.29	12.502		
10,800.00	7,630.00	7,583.00	7,583.00	105.72	131.37	-90.00	-2,506.46	5,346.63	2,868.22	2,631.13	237.09	12.098		
10,900.00	7,630.00	7,583.00	7,583.00	105.54	131.37	-90.00	-2,506.46	5,346.63	2,770.00	2,533.14	236.87	11.694		
11,000.00	7,630.00	7,583.00	7,583.00	105.37	131.37	-90.00	-2,506.46	5,346.63	2,671.92	2,435.29	236.63	11.292		
11,100.00	7,630.00	7,583.00	7,583.00	105.21	131.37	-90.00	-2,506.46	5,346.63	2,573.98	2,337.62	236.37	10.890		
11,200.00	7,630.00	7,583.00	7,583.00	105.06	131.37	-90.00	-2,506.46	5,346.63	2,476.21	2,240.13	236.08	10.489		
11,300.00	7,630.00	7,583.00	7,583.00	104.93	131.37	-90.00	-2,506.46	5,346.63	2,378.63	2,142.86	235.77	10.089		
11,400.00	7,630.00	7,583.00	7,583.00	104.82	131.37	-90.00	-2,506.46	5,346.63	2,281.25	2,045.82	235.43	9.690		
11,500.00	7,630.00	7,583.00	7,583.00	104.72	131.37	-90.00	-2,506.46	5,346.63	2,184.11	1,949.06	235.05	9.292		
11,600.00	7,630.00	7,583.00	7,583.00	104.63	131.37	-90.00	-2,506.46	5,346.63	2,087.24	1,852.62	234.63	8.896		
11,700.00	7,630.00	7,583.00	7,583.00	104.55	131.37	-90.00	-2,506.46	5,346.63	1,990.68	1,756.53	234.15	8.502		
11,800.00	7,630.00	7,583.00	7,583.00	104.50	131.37	-90.00	-2,506.46	5,346.63	1,894.48	1,660.86	233.62	8.109		
11,900.00	7,630.00	7,583.00	7,583.00	104.45	131.37	-90.00	-2,506.46	5,346.63	1,798.69	1,565.67	233.03	7.719		
12,000.00	7,630.00	7,583.00	7,583.00	104.43	131.37	-90.00	-2,506.46	5,346.63	1,703.39	1,471.04	232.35	7.331		
12,100.00	7,630.00	7,583.00	7,583.00	104.42	131.37	-90.00	-2,506.46	5,346.63	1,608.65	1,377.08	231.57	6.947		
12,200.00	7,630.00	7,583.00	7,583.00	104.42	131.37	-90.00	-2,506.46	5,346.63	1,514.60	1,283.92	230.68	6.566		
12,300.00	7,630.00	7,583.00	7,583.00	104.45	131.37	-90.00	-2,506.46	5,346.63	1,421.35	1,191.72	229.64	6.190		
12,400.00	7,630.00	7,583.00	7,583.00	104.49	131.37	-90.00	-2,506.46	5,346.63	1,329.09	1,100.67	228.42	5.819		
12,500.00	7,630.00	7,583.00	7,583.00	104.55	131.37	-90.00	-2,506.46	5,346.63	1,238.03	1,011.04	226.99	5.454		
12,600.00	7,630.00	7,583.00	7,583.00	104.63	131.37	-90.00	-2,506.46	5,346.63	1,148.46	923.16	225.29	5.098		
12,700.00	7,630.00	7,583.00	7,583.00	104.73	131.37	-90.00	-2,506.46	5,346.63	1,060.75	837.49	223.26	4.751		
12,800.00	7,630.00	7,583.00	7,583.00	104.85	131.37	-90.00	-2,506.46	5,346.63	975.41	754.60	220.81	4.417		
12,900.00	7,630.00	7,583.00	7,583.00	104.99	131.37	-90.00	-2,506.46	5,346.63	893.12	675.27	217.85	4.100		
13,000.00	7,630.00	7,583.00	7,583.00	105.15	131.37	-90.00	-2,506.46	5,346.63	814.80	600.51	214.30	3.802		
13,100.00	7,630.00	7,583.00	7,583.00	105.34	131.37	-90.00	-2,506.46	5,346.63	741.71	531.61	210.10	3.530		
13,200.00	7,630.00	7,583.00	7,583.00	105.56	131.37	-90.00	-2,506.46	5,346.63	675.56	470.17	205.39	3.289		
13,300.00	7,630.00	7,583.00	7,583.00	105.80	131.37	-90.00	-2,506.46	5,346.63	618.56	417.93	200.62	3.083		
13,400.00	7,630.00	7,583.00	7,583.00	106.06	131.37	-90.00	-2,506.46	5,346.63	573.46	376.49	196.97	2.911		
13,500.00	7,630.00	7,583.00	7,583.00	106.36	131.37	-90.00	-2,506.46	5,346.63	543.22	347.02	196.20	2.769		
13,600.00	7,630.00	7,583.00	7,583.00	106.68	131.37	-90.00	-2,506.46	5,346.63	530.40	330.77	199.63	2.657		
13,618.81	7,630.00	7,583.00	7,583.00	106.74	131.37	-90.00	-2,506.46	5,346.63	530.07	329.34	200.73	2.641 CC, ES		
13,700.00	7,630.00	7,583.00	7,583.00	107.03	131.37	-90.00	-2,506.46	5,346.63	536.25	329.67	206.58	2.596 SF		
13,800.00	7,630.00	7,583.00	7,583.00	107.42	131.37	-90.00	-2,506.46	5,346.63	560.18	345.31	214.87	2.607		
13,900.00	7,630.00	7,583.00	7,583.00	107.83	131.37	-90.00	-2,506.46	5,346.63	600.03	377.46	222.57	2.696		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,630.00	7,583.00	7,583.00	108.28	131.37	-90.00	-2,506.46	5,346.63	652.90	424.10	228.80	2.854		
14,100.00	7,630.00	7,583.00	7,583.00	108.77	131.37	-90.00	-2,506.46	5,346.63	715.90	482.41	233.49	3.066		
14,200.00	7,630.00	7,583.00	7,583.00	109.29	131.37	-90.00	-2,506.46	5,346.63	786.61	549.73	236.88	3.321		
14,300.00	7,630.00	7,583.00	7,583.00	109.84	131.37	-90.00	-2,506.46	5,346.63	863.13	623.83	239.30	3.607		
14,400.00	7,630.00	7,583.00	7,583.00	110.43	131.37	-90.00	-2,506.46	5,346.63	944.05	703.04	241.01	3.917		
14,500.00	7,630.00	7,583.00	7,583.00	111.06	131.37	-90.00	-2,506.46	5,346.63	1,028.33	786.10	242.23	4.245		
14,600.00	7,630.00	7,583.00	7,583.00	111.72	131.37	-90.00	-2,506.46	5,346.63	1,115.21	872.12	243.09	4.588		
14,700.00	7,630.00	7,583.00	7,583.00	112.42	131.37	-90.00	-2,506.46	5,346.63	1,204.13	960.42	243.71	4.941		
14,800.00	7,630.00	7,583.00	7,583.00	113.16	131.37	-90.00	-2,506.46	5,346.63	1,294.67	1,050.52	244.15	5.303		
14,900.00	7,630.00	7,583.00	7,583.00	113.94	131.37	-90.00	-2,506.46	5,346.63	1,386.51	1,142.05	244.46	5.672		
15,000.00	7,630.00	7,583.00	7,583.00	114.75	131.37	-90.00	-2,506.46	5,346.63	1,479.41	1,234.73	244.68	6.046		
15,100.00	7,630.00	7,583.00	7,583.00	115.60	131.37	-90.00	-2,506.46	5,346.63	1,573.18	1,328.34	244.84	6.425		
15,200.00	7,630.00	7,583.00	7,583.00	116.48	131.37	-90.00	-2,506.46	5,346.63	1,667.67	1,422.73	244.94	6.808		
15,300.00	7,630.00	7,583.00	7,583.00	117.40	131.37	-90.00	-2,506.46	5,346.63	1,762.77	1,517.76	245.01	7.195		
15,400.00	7,630.00	7,583.00	7,583.00	118.35	131.37	-90.00	-2,506.46	5,346.63	1,858.38	1,613.33	245.05	7.584		
15,500.00	7,630.00	7,583.00	7,583.00	119.34	131.37	-90.00	-2,506.46	5,346.63	1,954.44	1,709.37	245.07	7.975		
15,600.00	7,630.00	7,583.00	7,583.00	120.35	131.37	-90.00	-2,506.46	5,346.63	2,050.87	1,805.79	245.08	8.368		
15,700.00	7,630.00	7,583.00	7,583.00	121.40	131.37	-90.00	-2,506.46	5,346.63	2,147.63	1,902.55	245.07	8.763		
15,800.00	7,630.00	7,583.00	7,583.00	122.48	131.37	-90.00	-2,506.46	5,346.63	2,244.67	1,999.61	245.06	9.160		
15,900.00	7,630.00	7,583.00	7,583.00	123.58	131.37	-90.00	-2,506.46	5,346.63	2,341.96	2,096.92	245.04	9.557		
16,000.00	7,630.00	7,583.00	7,583.00	124.71	131.37	-90.00	-2,506.46	5,346.63	2,439.47	2,194.45	245.02	9.956		
16,100.00	7,630.00	7,583.00	7,583.00	125.87	131.37	-90.00	-2,506.46	5,346.63	2,537.17	2,292.18	244.99	10.356		
16,200.00	7,630.00	7,583.00	7,583.00	127.05	131.37	-90.00	-2,506.46	5,346.63	2,635.05	2,390.09	244.97	10.757		
16,300.00	7,630.00	7,583.00	7,583.00	128.26	131.37	-90.00	-2,506.46	5,346.63	2,733.08	2,488.14	244.94	11.158		
16,400.00	7,630.00	7,583.00	7,583.00	129.48	131.37	-90.00	-2,506.46	5,346.63	2,831.25	2,586.34	244.91	11.561		
16,500.00	7,630.00	7,583.00	7,583.00	130.73	131.37	-90.00	-2,506.46	5,346.63	2,929.54	2,684.66	244.88	11.963		
16,600.00	7,630.00	7,583.00	7,583.00	132.00	131.37	-90.00	-2,506.46	5,346.63	3,027.94	2,783.10	244.85	12.367		
16,700.00	7,630.00	7,583.00	7,583.00	133.29	131.37	-90.00	-2,506.46	5,346.63	3,126.45	2,881.63	244.82	12.771		
16,800.00	7,630.00	7,583.00	7,583.00	134.59	131.37	-90.00	-2,506.46	5,346.63	3,225.04	2,980.26	244.79	13.175		
16,900.00	7,630.00	7,583.00	7,583.00	135.91	131.37	-90.00	-2,506.46	5,346.63	3,323.73	3,078.96	244.76	13.579		
17,000.00	7,630.00	7,583.00	7,583.00	137.25	131.37	-90.00	-2,506.46	5,346.63	3,422.48	3,177.75	244.73	13.984		
17,100.00	7,630.00	7,583.00	7,583.00	138.61	131.37	-90.00	-2,506.46	5,346.63	3,521.31	3,276.60	244.71	14.390		
17,200.00	7,630.00	7,583.00	7,583.00	139.97	131.37	-90.00	-2,506.46	5,346.63	3,620.20	3,375.52	244.68	14.795		
17,300.00	7,630.00	7,583.00	7,583.00	141.36	131.37	-90.00	-2,506.46	5,346.63	3,719.15	3,474.49	244.66	15.201		
17,400.00	7,630.00	7,583.00	7,583.00	142.75	131.37	-90.00	-2,506.46	5,346.63	3,818.16	3,573.52	244.64	15.607		
17,500.00	7,630.00	7,583.00	7,583.00	144.16	131.37	-90.00	-2,506.46	5,346.63	3,917.22	3,672.60	244.62	16.014		
17,600.00	7,630.00	7,583.00	7,583.00	145.58	131.37	-90.00	-2,506.46	5,346.63	4,016.32	3,771.72	244.60	16.420		
17,700.00	7,630.00	7,583.00	7,583.00	147.01	131.37	-90.00	-2,506.46	5,346.63	4,115.46	3,870.89	244.58	16.827		
17,800.00	7,630.00	7,583.00	7,583.00	148.45	131.37	-90.00	-2,506.46	5,346.63	4,214.65	3,970.09	244.56	17.234		
17,900.00	7,630.00	7,583.00	7,583.00	149.91	131.37	-90.00	-2,506.46	5,346.63	4,313.88	4,069.33	244.54	17.641		
18,000.00	7,630.00	7,583.00	7,583.00	151.37	131.37	-90.00	-2,506.46	5,346.63	4,413.14	4,168.61	244.53	18.048		
18,100.00	7,630.00	7,583.00	7,583.00	152.84	131.37	-90.00	-2,506.46	5,346.63	4,512.43	4,267.92	244.51	18.455		
18,200.00	7,630.00	7,583.00	7,583.00	154.32	131.37	-90.00	-2,506.46	5,346.63	4,611.75	4,367.25	244.50	18.862		
18,300.00	7,630.00	7,583.00	7,583.00	155.81	131.37	-90.00	-2,506.46	5,346.63	4,711.10	4,466.62	244.48	19.270		
18,400.00	7,630.00	7,583.00	7,583.00	157.31	131.37	-90.00	-2,506.46	5,346.63	4,810.48	4,566.01	244.47	19.677		
18,500.00	7,630.00	7,583.00	7,583.00	158.81	131.37	-90.00	-2,506.46	5,346.63	4,909.88	4,665.42	244.46	20.084		
18,600.00	7,630.00	7,583.00	7,583.00	160.32	131.37	-90.00	-2,506.46	5,346.63	5,009.31	4,764.86	244.45	20.492		
18,700.00	7,630.00	7,583.00	7,583.00	161.84	131.37	-90.00	-2,506.46	5,346.63	5,108.76	4,864.32	244.44	20.900		
18,800.00	7,630.00	7,583.00	7,583.00	163.37	131.37	-90.00	-2,506.46	5,346.63	5,208.23	4,963.79	244.44	21.307		
18,900.00	7,630.00	7,583.00	7,583.00	164.90	131.37	-90.00	-2,506.46	5,346.63	5,307.72	5,063.29	244.43	21.715		
19,000.00	7,630.00	7,583.00	7,583.00	166.43	131.37	-90.00	-2,506.46	5,346.63	5,407.23	5,162.81	244.42	22.122		
19,100.00	7,630.00	7,583.00	7,583.00	167.98	131.37	-90.00	-2,506.46	5,346.63	5,506.76	5,262.34	244.42	22.530		

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,583.00	7,583.00	169.53	131.37	-90.00	-2,506.46	5,346.63	5,606.30	5,361.89	244.41	22.938	
19,300.00	7,630.00	7,583.00	7,583.00	171.08	131.37	-90.00	-2,506.46	5,346.63	5,705.86	5,461.45	244.41	23.345	
19,400.00	7,630.00	7,583.00	7,583.00	172.64	131.37	-90.00	-2,506.46	5,346.63	5,805.44	5,561.03	244.41	23.753	
19,500.00	7,630.00	7,583.00	7,583.00	174.21	131.37	-90.00	-2,506.46	5,346.63	5,905.02	5,660.62	244.41	24.161	
19,518.56	7,630.00	7,583.00	7,583.00	174.50	131.37	-90.00	-2,506.46	5,346.63	5,923.51	5,679.11	244.41	24.236	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	143.93	-4,237.21	3,087.00	5,242.53					
100.00	100.00	75.00	75.00	0.13	0.62	143.93	-4,237.21	3,087.00	5,242.47	5,241.71	0.76	6,932.639		
200.00	200.00	175.00	175.00	0.49	2.14	143.93	-4,237.21	3,087.00	5,242.47	5,239.84	2.63	1,992.632		
300.00	300.00	275.00	275.00	0.85	3.88	143.93	-4,237.21	3,087.00	5,242.47	5,237.74	4.73	1,107.238		
400.00	400.00	375.00	375.00	1.21	5.63	143.93	-4,237.21	3,087.00	5,242.47	5,235.63	6.84	766.608		
500.00	499.98	474.98	474.98	1.56	7.37	77.23	-4,237.21	3,087.00	5,242.08	5,233.15	8.94	586.531		
600.00	599.84	574.84	574.84	1.92	9.12	77.30	-4,237.21	3,087.00	5,240.93	5,229.89	11.03	474.943		
700.00	699.45	674.45	674.45	2.29	10.86	77.43	-4,237.21	3,087.00	5,239.02	5,225.88	13.14	398.780		
800.00	798.70	773.70	773.70	2.67	12.59	77.62	-4,237.21	3,087.00	5,236.36	5,221.12	15.25	343.402		
900.00	897.47	872.47	872.47	3.07	14.31	77.85	-4,237.21	3,087.00	5,233.00	5,215.63	17.37	301.248		
1,000.00	995.62	970.62	970.62	3.50	16.02	78.13	-4,237.21	3,087.00	5,228.96	5,209.45	19.51	268.025		
1,100.00	1,093.06	1,068.06	1,068.06	3.96	17.72	78.45	-4,237.21	3,087.00	5,224.28	5,202.61	21.67	241.117		
1,200.00	1,189.64	1,164.64	1,164.64	4.46	19.41	78.83	-4,237.21	3,087.00	5,219.01	5,195.16	23.85	218.845		
1,300.00	1,285.27	1,260.27	1,260.27	5.00	21.08	79.24	-4,237.21	3,087.00	5,213.20	5,187.15	26.06	200.079		
1,400.00	1,379.82	1,354.82	1,354.82	5.60	22.73	79.70	-4,237.21	3,087.00	5,206.92	5,178.63	28.29	184.034		
1,500.00	1,473.17	1,448.17	1,448.17	6.25	24.36	80.20	-4,237.21	3,087.00	5,200.24	5,169.67	30.56	170.146		
1,600.00	1,565.21	1,540.21	1,540.21	6.95	25.97	80.73	-4,237.21	3,087.00	5,193.22	5,160.35	32.87	158.000		
1,700.00	1,655.84	1,630.84	1,630.84	7.72	27.55	81.29	-4,237.21	3,087.00	5,185.95	5,150.74	35.21	147.286		
1,800.00	1,744.94	1,719.94	1,719.94	8.55	29.10	81.88	-4,237.21	3,087.00	5,178.52	5,140.93	37.59	137.763		
1,900.00	1,832.39	1,807.39	1,807.39	9.45	30.63	82.50	-4,237.21	3,087.00	5,171.00	5,130.99	40.01	129.246		
2,000.00	1,918.11	1,906.89	1,893.11	10.41	32.37	83.13	-4,237.21	3,087.00	5,163.51	5,120.80	42.71	120.902		
2,100.00	2,001.97	1,976.97	1,976.97	11.45	33.59	83.78	-4,237.21	3,087.00	5,156.13	5,111.17	44.97	114.667		
2,200.00	2,083.88	2,058.88	2,058.88	12.56	35.02	84.45	-4,237.21	3,087.00	5,148.98	5,101.47	47.50	108.390		
2,300.00	2,163.74	2,138.74	2,138.74	13.74	36.41	85.12	-4,237.21	3,087.00	5,142.14	5,092.06	50.08	102.677		
2,400.00	2,241.45	2,216.45	2,216.45	14.99	37.77	85.79	-4,237.21	3,087.00	5,135.74	5,083.05	52.70	97.461		
2,421.22	2,257.65	2,232.65	2,232.65	15.26	38.05	85.93	-4,237.21	3,087.00	5,134.45	5,081.20	53.25	96.414		
2,500.00	2,317.63	2,307.37	2,292.63	16.29	39.35	86.37	-4,237.21	3,087.00	5,129.95	5,074.36	55.60	92.271		
2,600.00	2,393.75	2,368.75	2,368.75	17.62	40.43	86.92	-4,237.21	3,087.00	5,124.97	5,066.97	58.00	88.360		
2,700.00	2,469.88	2,444.88	2,444.88	18.95	41.75	87.47	-4,237.21	3,087.00	5,120.80	5,060.13	60.67	84.398		
2,800.00	2,546.01	2,521.01	2,521.01	20.30	43.08	88.02	-4,237.21	3,087.00	5,117.46	5,054.10	63.36	80.771		
2,900.00	2,622.13	2,602.87	2,597.13	21.65	44.51	88.58	-4,237.21	3,087.00	5,114.93	5,048.78	66.15	77.326		
3,000.00	2,698.26	2,673.26	2,673.26	23.01	45.74	89.13	-4,237.21	3,087.00	5,113.22	5,044.48	68.74	74.382		
3,100.00	2,774.38	2,749.38	2,749.38	24.37	47.07	89.68	-4,237.21	3,087.00	5,112.34	5,040.90	71.44	71.561		
3,157.58	2,818.22	2,806.78	2,793.22	25.16	48.07	90.00	-4,237.21	3,087.00	5,112.20	5,038.97	73.23	69.808		
3,200.00	2,850.51	2,825.51	2,825.51	25.74	48.40	90.23	-4,237.21	3,087.00	5,112.27	5,038.13	74.14	68.954		
3,300.00	2,926.64	2,901.64	2,901.64	27.11	49.73	90.79	-4,237.21	3,087.00	5,113.03	5,036.19	76.84	66.541		
3,400.00	3,002.76	2,977.76	2,977.76	28.49	51.06	91.34	-4,237.21	3,087.00	5,114.62	5,035.08	79.54	64.302		
3,500.00	3,078.89	3,053.89	3,053.89	29.87	52.38	91.89	-4,237.21	3,087.00	5,117.02	5,034.78	82.24	62.222		
3,600.00	3,155.02	3,130.02	3,130.02	31.25	53.71	92.45	-4,237.21	3,087.00	5,120.24	5,035.31	84.93	60.285		
3,700.00	3,231.14	3,206.14	3,206.14	32.63	55.04	93.00	-4,237.21	3,087.00	5,124.29	5,036.66	87.63	58.479		
3,800.00	3,307.27	3,282.27	3,282.27	34.01	56.37	93.55	-4,237.21	3,087.00	5,129.15	5,038.83	90.31	56.793		
3,900.00	3,383.39	3,358.39	3,358.39	35.40	57.70	94.10	-4,237.21	3,087.00	5,134.82	5,041.82	93.00	55.216		
4,000.00	3,459.52	3,434.52	3,434.52	36.79	59.03	94.65	-4,237.21	3,087.00	5,141.30	5,045.63	95.67	53.739		
4,100.00	3,535.65	3,510.65	3,510.65	38.18	60.36	95.20	-4,237.21	3,087.00	5,148.60	5,050.26	98.34	52.354		
4,200.00	3,611.77	3,586.77	3,586.77	39.57	61.68	95.75	-4,237.21	3,087.00	5,156.70	5,055.69	101.00	51.054		
4,300.00	3,687.90	3,662.90	3,662.90	40.96	63.01	96.30	-4,237.21	3,087.00	5,165.60	5,061.94	103.66	49.833		
4,400.00	3,764.02	3,739.02	3,739.02	42.35	64.34	96.84	-4,237.21	3,087.00	5,175.29	5,068.99	106.31	48.683		
4,500.00	3,840.15	3,815.15	3,815.15	43.74	65.67	97.39	-4,237.21	3,087.00	5,185.78	5,076.84	108.94	47.601		
4,600.00	3,916.28	3,908.72	3,891.28	45.13	67.30	97.93	-4,237.21	3,087.00	5,197.06	5,085.19	111.88	46.454		
4,700.00	3,992.40	3,967.40	3,967.40	46.53	68.33	98.47	-4,237.21	3,087.00	5,209.12	5,094.93	114.19	45.618		
4,800.00	4,068.53	4,043.53	4,043.53	47.92	69.66	99.01	-4,237.21	3,087.00	5,221.96	5,105.16	116.80	44.710		
4,900.00	4,144.66	4,119.66	4,119.66	49.32	70.99	99.55	-4,237.21	3,087.00	5,235.57	5,116.18	119.39	43.851		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,204.22	4,195.78	50.71	72.46	100.09	-4,237.21	3,087.00	5,249.95	5,127.82	122.13	42.988		
5,100.00	4,296.91	4,271.91	4,271.91	52.11	73.64	100.62	-4,237.21	3,087.00	5,265.08	5,140.53	124.55	42.272		
5,200.00	4,373.03	4,348.03	4,348.03	53.51	74.97	101.16	-4,237.21	3,087.00	5,280.97	5,153.85	127.12	41.544		
5,300.00	4,449.16	4,424.16	4,424.16	54.90	76.30	101.69	-4,237.21	3,087.00	5,297.60	5,167.94	129.67	40.856		
5,400.00	4,525.29	4,500.29	4,500.29	56.30	77.63	102.22	-4,237.21	3,087.00	5,314.98	5,182.77	132.20	40.203		
5,500.00	4,601.41	4,576.41	4,576.41	57.70	78.96	102.75	-4,237.21	3,087.00	5,333.08	5,198.35	134.73	39.584		
5,600.00	4,677.54	4,652.54	4,652.54	59.10	80.29	103.27	-4,237.21	3,087.00	5,351.91	5,214.67	137.24	38.997		
5,700.00	4,753.66	4,728.66	4,728.66	60.49	81.61	103.79	-4,237.21	3,087.00	5,371.46	5,231.72	139.74	38.439		
5,800.00	4,829.79	4,804.79	4,804.79	61.89	82.94	104.31	-4,237.21	3,087.00	5,391.71	5,249.49	142.22	37.910		
5,900.00	4,905.92	4,880.92	4,880.92	63.29	84.27	104.83	-4,237.21	3,087.00	5,412.67	5,267.97	144.69	37.408		
6,000.00	4,982.04	4,957.04	4,957.04	64.69	85.60	105.35	-4,237.21	3,087.00	5,434.32	5,287.17	147.15	36.930		
6,100.00	5,058.17	5,033.17	5,033.17	66.09	86.93	105.86	-4,237.21	3,087.00	5,456.65	5,307.06	149.60	36.476		
6,200.00	5,134.30	5,050.00	5,050.00	67.49	87.22	105.97	-4,237.21	3,087.00	5,479.98	5,329.03	150.95	36.302		
6,300.00	5,210.42	5,050.00	5,050.00	68.89	87.22	105.97	-4,237.21	3,087.00	5,505.01	5,353.04	151.97	36.225		
6,400.00	5,286.55	5,050.00	5,050.00	70.29	87.22	105.97	-4,237.21	3,087.00	5,531.73	5,378.79	152.94	36.170		
6,500.00	5,362.67	5,050.00	5,050.00	71.69	87.22	105.97	-4,237.21	3,087.00	5,560.11	5,406.25	153.86	36.136		
6,600.00	5,438.80	5,050.00	5,050.00	73.09	87.22	105.97	-4,237.21	3,087.00	5,590.15	5,435.40	154.75	36.124		
6,700.00	5,514.93	5,050.00	5,050.00	74.49	87.22	105.97	-4,237.21	3,087.00	5,621.80	5,466.21	155.59	36.133		
6,800.00	5,591.05	5,050.00	5,050.00	75.89	87.22	105.97	-4,237.21	3,087.00	5,655.04	5,498.66	156.38	36.161		
6,900.00	5,667.18	5,050.00	5,050.00	77.29	87.22	105.97	-4,237.21	3,087.00	5,689.85	5,532.71	157.14	36.209		
7,000.00	5,743.30	5,050.00	5,050.00	78.69	87.22	105.97	-4,237.21	3,087.00	5,726.19	5,568.34	157.85	36.276		
7,100.00	5,819.43	5,050.00	5,050.00	80.09	87.22	105.97	-4,237.21	3,087.00	5,764.04	5,605.51	158.53	36.360		
7,200.00	5,895.56	5,050.00	5,050.00	81.49	87.22	105.97	-4,237.21	3,087.00	5,803.37	5,644.20	159.16	36.462		
7,300.00	5,971.68	5,050.00	5,050.00	82.90	87.22	105.97	-4,237.21	3,087.00	5,844.14	5,684.38	159.76	36.581		
7,400.00	6,047.81	5,050.00	5,050.00	84.30	87.22	105.97	-4,237.21	3,087.00	5,886.33	5,726.01	160.32	36.716		
7,500.00	6,123.94	5,050.00	5,050.00	85.70	87.22	105.97	-4,237.21	3,087.00	5,929.90	5,769.06	160.84	36.867		
7,600.00	6,200.06	5,050.00	5,050.00	87.10	87.22	105.97	-4,237.21	3,087.00	5,974.83	5,813.50	161.33	37.034		
7,700.00	6,276.19	5,050.00	5,050.00	88.50	87.22	105.97	-4,237.21	3,087.00	6,021.09	5,859.30	161.79	37.216		
7,800.00	6,352.31	5,050.00	5,050.00	89.90	87.22	105.97	-4,237.21	3,087.00	6,068.64	5,906.42	162.21	37.412		
7,900.00	6,428.44	5,050.00	5,050.00	91.31	87.22	105.97	-4,237.21	3,087.00	6,117.45	5,954.85	162.61	37.621		
8,000.00	6,504.57	5,050.00	5,050.00	92.71	87.22	105.97	-4,237.21	3,087.00	6,167.51	6,004.54	162.97	37.845		
8,100.00	6,580.69	5,050.00	5,050.00	94.11	87.22	105.97	-4,237.21	3,087.00	6,218.76	6,055.46	163.30	38.082		
8,200.00	6,656.82	5,050.00	5,050.00	95.51	87.22	105.97	-4,237.21	3,087.00	6,271.20	6,107.59	163.61	38.331		
8,300.00	6,732.95	5,050.00	5,050.00	96.91	87.22	105.97	-4,237.21	3,087.00	6,324.78	6,160.89	163.89	38.592		
8,400.00	6,809.07	5,050.00	5,050.00	98.32	87.22	105.97	-4,237.21	3,087.00	6,379.47	6,215.33	164.14	38.866		
8,500.00	6,885.20	5,050.00	5,050.00	99.72	87.22	105.97	-4,237.21	3,087.00	6,435.26	6,270.89	164.37	39.151		
8,600.00	6,961.32	5,050.00	5,050.00	101.12	87.22	105.97	-4,237.21	3,087.00	6,492.11	6,327.53	164.58	39.447		
8,700.00	7,037.45	5,050.00	5,050.00	102.52	87.22	105.97	-4,237.21	3,087.00	6,549.99	6,385.22	164.76	39.754		
8,732.15	7,061.92	5,050.00	5,050.00	102.97	87.22	105.97	-4,237.21	3,087.00	6,568.81	6,403.99	164.82	39.855		
8,750.00	7,075.57	5,050.00	5,050.00	103.22	87.22	104.00	-4,237.21	3,087.00	6,579.08	6,414.23	164.85	39.910		
8,800.00	7,114.27	5,050.00	5,050.00	103.91	87.22	98.18	-4,237.21	3,087.00	6,605.55	6,440.62	164.93	40.050		
8,850.00	7,153.47	5,050.00	5,050.00	104.58	87.22	92.01	-4,237.21	3,087.00	6,628.53	6,463.52	165.01	40.170		
8,900.00	7,192.85	5,050.00	5,050.00	105.21	87.22	85.70	-4,237.21	3,087.00	6,647.86	6,482.78	165.08	40.270		
8,950.00	7,232.12	5,050.00	5,050.00	105.80	87.22	79.44	-4,237.21	3,087.00	6,663.44	6,498.30	165.14	40.350		
9,000.00	7,270.99	5,050.00	5,050.00	106.35	87.22	73.43	-4,237.21	3,087.00	6,675.18	6,509.99	165.19	40.410		
9,050.00	7,309.16	5,050.00	5,050.00	106.85	87.22	67.82	-4,237.21	3,087.00	6,683.00	6,517.79	165.21	40.451		
9,100.00	7,346.32	5,050.00	5,050.00	107.30	87.22	62.72	-4,237.21	3,087.00	6,686.86	6,521.64	165.21	40.475		
9,150.00	7,382.22	5,050.00	5,050.00	107.69	87.22	58.15	-4,237.21	3,087.00	6,686.73	6,521.55	165.19	40.480		
9,200.00	7,416.56	5,050.00	5,050.00	108.02	87.22	54.13	-4,237.21	3,087.00	6,682.63	6,517.49	165.14	40.468		
9,250.00	7,449.09	5,050.00	5,050.00	108.29	87.22	50.63	-4,237.21	3,087.00	6,674.57	6,509.51	165.06	40.438		
9,300.00	7,479.56	5,050.00	5,050.00	108.51	87.22	47.60	-4,237.21	3,087.00	6,662.59	6,497.64	164.95	40.391		
9,350.00	7,507.74	5,050.00	5,050.00	108.68	87.22	45.00	-4,237.21	3,087.00	6,646.78	6,481.96	164.82	40.327		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,400.00	7,533.41	5,050.00	5,050.00	108.79	87.22	42.77	-4,237.21	3,087.00	6,627.22	6,462.55	164.67	40.246		
9,450.00	7,556.39	5,050.00	5,050.00	108.86	87.22	40.88	-4,237.21	3,087.00	6,604.02	6,439.53	164.49	40.148		
9,500.00	7,576.48	5,050.00	5,050.00	108.88	87.22	39.28	-4,237.21	3,087.00	6,577.34	6,413.04	164.30	40.033		
9,550.00	7,593.55	5,050.00	5,050.00	108.86	87.22	37.94	-4,237.21	3,087.00	6,547.32	6,383.23	164.09	39.901		
9,600.00	7,607.46	5,050.00	5,050.00	108.80	87.22	36.81	-4,237.21	3,087.00	6,514.16	6,350.29	163.87	39.751		
9,650.00	7,618.11	5,050.00	5,050.00	108.71	87.22	35.87	-4,237.21	3,087.00	6,478.06	6,314.41	163.65	39.585		
9,700.00	7,625.41	5,050.00	5,050.00	108.59	87.22	35.09	-4,237.21	3,087.00	6,439.25	6,275.82	163.43	39.401		
9,750.00	7,629.30	5,050.00	5,050.00	108.45	87.22	34.41	-4,237.21	3,087.00	6,397.97	6,234.76	163.21	39.201		
9,781.81	7,630.00	5,050.00	5,050.00	108.35	87.22	34.01	-4,237.21	3,087.00	6,370.56	6,207.48	163.08	39.065		
9,800.00	7,630.00	5,050.00	5,050.00	108.29	87.22	34.01	-4,237.21	3,087.00	6,354.64	6,191.64	163.00	38.985		
9,900.00	7,630.00	5,050.00	5,050.00	107.97	87.22	34.01	-4,237.21	3,087.00	6,267.38	6,104.80	162.58	38.549		
10,000.00	7,630.00	5,050.00	5,050.00	107.67	87.22	34.01	-4,237.21	3,087.00	6,180.50	6,018.36	162.14	38.118		
10,100.00	7,630.00	5,050.00	5,050.00	107.38	87.22	34.01	-4,237.21	3,087.00	6,094.03	5,932.34	161.69	37.690		
10,200.00	7,630.00	5,050.00	5,050.00	107.10	87.22	34.01	-4,237.21	3,087.00	6,007.97	5,846.75	161.22	37.266		
10,300.00	7,630.00	5,050.00	5,050.00	106.84	87.22	34.01	-4,237.21	3,087.00	5,922.35	5,761.62	160.73	36.846		
10,400.00	7,630.00	5,050.00	5,050.00	106.59	87.22	34.01	-4,237.21	3,087.00	5,837.19	5,676.97	160.23	36.431		
10,500.00	7,630.00	5,050.00	5,050.00	106.35	87.22	34.01	-4,237.21	3,087.00	5,752.51	5,592.81	159.70	36.020		
10,600.00	7,630.00	5,050.00	5,050.00	106.13	87.22	34.01	-4,237.21	3,087.00	5,668.33	5,509.17	159.16	35.614		
10,700.00	7,630.00	5,050.00	5,050.00	105.92	87.22	34.01	-4,237.21	3,087.00	5,584.67	5,426.08	158.59	35.214		
10,800.00	7,630.00	5,050.00	5,050.00	105.72	87.22	34.01	-4,237.21	3,087.00	5,501.55	5,343.55	158.01	34.818		
10,900.00	7,630.00	5,050.00	5,050.00	105.54	87.22	34.01	-4,237.21	3,087.00	5,419.01	5,261.61	157.40	34.428		
11,000.00	7,630.00	5,050.00	5,050.00	105.37	87.22	34.01	-4,237.21	3,087.00	5,337.06	5,180.29	156.77	34.044		
11,100.00	7,630.00	5,050.00	5,050.00	105.21	87.22	34.01	-4,237.21	3,087.00	5,255.74	5,099.62	156.11	33.666		
11,200.00	7,630.00	5,050.00	5,050.00	105.06	87.22	34.01	-4,237.21	3,087.00	5,175.07	5,019.64	155.43	33.294		
11,300.00	7,630.00	5,050.00	5,050.00	104.93	87.22	34.01	-4,237.21	3,087.00	5,095.09	4,940.36	154.73	32.929		
11,400.00	7,630.00	5,050.00	5,050.00	104.82	87.22	34.01	-4,237.21	3,087.00	5,015.82	4,861.83	154.00	32.571		
11,500.00	7,630.00	5,050.00	5,050.00	104.72	87.22	34.01	-4,237.21	3,087.00	4,937.31	4,784.08	153.24	32.220		
11,600.00	7,630.00	5,050.00	5,050.00	104.63	87.22	34.01	-4,237.21	3,087.00	4,859.59	4,707.14	152.45	31.877		
11,700.00	7,630.00	5,050.00	5,050.00	104.55	87.22	34.01	-4,237.21	3,087.00	4,782.70	4,631.07	151.63	31.543		
11,800.00	7,630.00	5,050.00	5,050.00	104.50	87.22	34.01	-4,237.21	3,087.00	4,706.67	4,555.89	150.78	31.216		
11,900.00	7,630.00	5,050.00	5,050.00	104.45	87.22	34.01	-4,237.21	3,087.00	4,631.56	4,481.66	149.90	30.899		
12,000.00	7,630.00	5,050.00	5,050.00	104.43	87.22	34.01	-4,237.21	3,087.00	4,557.40	4,408.42	148.98	30.590		
12,100.00	7,630.00	5,050.00	5,050.00	104.42	87.22	34.01	-4,237.21	3,087.00	4,484.24	4,336.21	148.04	30.292		
12,200.00	7,630.00	5,050.00	5,050.00	104.42	87.22	34.01	-4,237.21	3,087.00	4,412.14	4,265.09	147.06	30.003		
12,300.00	7,630.00	5,050.00	5,050.00	104.45	87.22	34.01	-4,237.21	3,087.00	4,341.15	4,195.10	146.04	29.725		
12,400.00	7,630.00	5,050.00	5,050.00	104.49	87.22	34.01	-4,237.21	3,087.00	4,271.31	4,126.32	145.00	29.458		
12,500.00	7,630.00	5,050.00	5,050.00	104.55	87.22	34.01	-4,237.21	3,087.00	4,202.70	4,058.79	143.92	29.203		
12,600.00	7,630.00	5,050.00	5,050.00	104.63	87.22	34.01	-4,237.21	3,087.00	4,135.37	3,992.57	142.80	28.959		
12,700.00	7,630.00	5,050.00	5,050.00	104.73	87.22	34.01	-4,237.21	3,087.00	4,069.38	3,927.72	141.65	28.728		
12,800.00	7,630.00	5,050.00	5,050.00	104.85	87.22	34.01	-4,237.21	3,087.00	4,004.80	3,864.32	140.47	28.509		
12,900.00	7,630.00	5,050.00	5,050.00	104.99	87.22	34.01	-4,237.21	3,087.00	3,941.69	3,802.43	139.27	28.303		
13,000.00	7,630.00	5,050.00	5,050.00	105.15	87.22	34.01	-4,237.21	3,087.00	3,880.14	3,742.12	138.03	28.111		
13,100.00	7,630.00	5,050.00	5,050.00	105.34	87.22	34.01	-4,237.21	3,087.00	3,820.22	3,683.46	136.76	27.933		
13,200.00	7,630.00	5,050.00	5,050.00	105.56	87.22	34.01	-4,237.21	3,087.00	3,762.00	3,626.52	135.48	27.769		
13,300.00	7,630.00	5,050.00	5,050.00	105.80	87.22	34.01	-4,237.21	3,087.00	3,705.56	3,571.39	134.17	27.618		
13,400.00	7,630.00	5,050.00	5,050.00	106.06	87.22	34.01	-4,237.21	3,087.00	3,651.00	3,518.14	132.85	27.482		
13,500.00	7,630.00	5,050.00	5,050.00	106.36	87.22	34.01	-4,237.21	3,087.00	3,598.38	3,466.86	131.52	27.359		
13,600.00	7,630.00	5,050.00	5,050.00	106.68	87.22	34.01	-4,237.21	3,087.00	3,547.80	3,417.61	130.19	27.251		
13,700.00	7,630.00	5,050.00	5,050.00	107.03	87.22	34.01	-4,237.21	3,087.00	3,499.35	3,370.49	128.87	27.155		
13,800.00	7,630.00	5,050.00	5,050.00	107.42	87.22	34.01	-4,237.21	3,087.00	3,453.12	3,325.57	127.55	27.072		
13,900.00	7,630.00	5,050.00	5,050.00	107.83	87.22	34.01	-4,237.21	3,087.00	3,409.19	3,282.93	126.26	27.000		
14,000.00	7,630.00	5,050.00	5,050.00	108.28	87.22	34.01	-4,237.21	3,087.00	3,367.66	3,242.66	125.01	26.940		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,050.00	5,050.00	108.77	87.22	34.01	-4,237.21	3,087.00	3,328.62	3,204.82	123.80	26.888		
14,200.00	7,630.00	5,050.00	5,050.00	109.29	87.22	34.01	-4,237.21	3,087.00	3,292.16	3,169.51	122.64	26.843		
14,300.00	7,630.00	5,050.00	5,050.00	109.84	87.22	34.01	-4,237.21	3,087.00	3,258.35	3,136.79	121.56	26.805		
14,400.00	7,630.00	5,050.00	5,050.00	110.43	87.22	34.01	-4,237.21	3,087.00	3,227.29	3,106.73	120.56	26.770		
14,500.00	7,630.00	5,050.00	5,050.00	111.06	87.22	34.01	-4,237.21	3,087.00	3,199.06	3,079.40	119.65	26.736		
14,600.00	7,630.00	5,050.00	5,050.00	111.72	87.22	34.01	-4,237.21	3,087.00	3,173.73	3,054.87	118.86	26.701		
14,700.00	7,630.00	5,050.00	5,050.00	112.42	87.22	34.01	-4,237.21	3,087.00	3,151.37	3,033.17	118.19	26.663		
14,800.00	7,630.00	5,050.00	5,050.00	113.16	87.22	34.01	-4,237.21	3,087.00	3,132.04	3,014.38	117.66	26.619		
14,900.00	7,630.00	5,050.00	5,050.00	113.94	87.22	34.01	-4,237.21	3,087.00	3,115.80	2,998.53	117.28	26.568		
15,000.00	7,630.00	5,050.00	5,050.00	114.75	87.22	34.01	-4,237.21	3,087.00	3,102.71	2,985.66	117.05	26.508		
15,100.00	7,630.00	5,050.00	5,050.00	115.60	87.22	34.01	-4,237.21	3,087.00	3,092.79	2,975.81	116.98	26.438		
15,200.00	7,630.00	5,050.00	5,050.00	116.48	87.22	34.01	-4,237.21	3,087.00	3,086.09	2,969.00	117.09	26.357		
15,300.00	7,630.00	5,050.00	5,050.00	117.40	87.22	34.01	-4,237.21	3,087.00	3,082.61	2,965.25	117.36	26.265		
15,357.18	7,630.00	5,050.00	5,050.00	117.94	87.22	34.01	-4,237.21	3,087.00	3,082.08	2,964.48	117.60	26.209 CC, ES		
15,400.00	7,630.00	5,050.00	5,050.00	118.35	87.22	34.01	-4,237.21	3,087.00	3,082.38	2,964.57	117.81	26.164		
15,500.00	7,630.00	5,050.00	5,050.00	119.34	87.22	34.01	-4,237.21	3,087.00	3,085.39	2,966.97	118.42	26.055		
15,600.00	7,630.00	5,050.00	5,050.00	120.35	87.22	34.01	-4,237.21	3,087.00	3,091.63	2,972.44	119.19	25.939		
15,700.00	7,630.00	5,050.00	5,050.00	121.40	87.22	34.01	-4,237.21	3,087.00	3,101.09	2,980.98	120.11	25.819		
15,800.00	7,630.00	5,050.00	5,050.00	122.48	87.22	34.01	-4,237.21	3,087.00	3,113.73	2,992.56	121.17	25.698		
15,900.00	7,630.00	5,050.00	5,050.00	123.58	87.22	34.01	-4,237.21	3,087.00	3,129.52	3,007.17	122.35	25.578		
16,000.00	7,630.00	5,050.00	5,050.00	124.71	87.22	34.01	-4,237.21	3,087.00	3,148.40	3,024.76	123.65	25.463		
16,100.00	7,630.00	5,050.00	5,050.00	125.87	87.22	34.01	-4,237.21	3,087.00	3,170.33	3,045.30	125.04	25.355		
16,200.00	7,630.00	5,050.00	5,050.00	127.05	87.22	34.01	-4,237.21	3,087.00	3,195.24	3,068.74	126.51	25.257		
16,300.00	7,630.00	5,050.00	5,050.00	128.26	87.22	34.01	-4,237.21	3,087.00	3,223.06	3,095.02	128.04	25.172		
16,400.00	7,630.00	5,050.00	5,050.00	129.48	87.22	34.01	-4,237.21	3,087.00	3,253.72	3,124.09	129.63	25.101		
16,500.00	7,630.00	5,050.00	5,050.00	130.73	87.22	34.01	-4,237.21	3,087.00	3,287.14	3,155.89	131.25	25.045		
16,600.00	7,630.00	5,050.00	5,050.00	132.00	87.22	34.01	-4,237.21	3,087.00	3,323.23	3,190.34	132.89	25.007		
16,700.00	7,630.00	5,050.00	5,050.00	133.29	87.22	34.01	-4,237.21	3,087.00	3,361.90	3,227.36	134.54	24.987		
16,800.00	7,630.00	5,050.00	5,050.00	134.59	87.22	34.01	-4,237.21	3,087.00	3,403.08	3,266.89	136.20	24.987 SF		
16,900.00	7,630.00	5,050.00	5,050.00	135.91	87.22	34.01	-4,237.21	3,087.00	3,446.67	3,308.83	137.84	25.005		
17,000.00	7,630.00	5,050.00	5,050.00	137.25	87.22	34.01	-4,237.21	3,087.00	3,492.58	3,353.12	139.46	25.043		
17,100.00	7,630.00	5,050.00	5,050.00	138.61	87.22	34.01	-4,237.21	3,087.00	3,540.71	3,399.65	141.06	25.101		
17,200.00	7,630.00	5,050.00	5,050.00	139.97	87.22	34.01	-4,237.21	3,087.00	3,590.99	3,448.37	142.62	25.178		
17,300.00	7,630.00	5,050.00	5,050.00	141.36	87.22	34.01	-4,237.21	3,087.00	3,643.32	3,499.17	144.15	25.274		
17,400.00	7,630.00	5,050.00	5,050.00	142.75	87.22	34.01	-4,237.21	3,087.00	3,697.61	3,551.97	145.64	25.388		
17,500.00	7,630.00	5,050.00	5,050.00	144.16	87.22	34.01	-4,237.21	3,087.00	3,753.79	3,606.70	147.09	25.520		
17,600.00	7,630.00	5,050.00	5,050.00	145.58	87.22	34.01	-4,237.21	3,087.00	3,811.75	3,663.26	148.49	25.670		
17,700.00	7,630.00	5,050.00	5,050.00	147.01	87.22	34.01	-4,237.21	3,087.00	3,871.44	3,721.59	149.84	25.836		
17,800.00	7,630.00	5,050.00	5,050.00	148.45	87.22	34.01	-4,237.21	3,087.00	3,932.76	3,781.61	151.15	26.019		
17,900.00	7,630.00	5,050.00	5,050.00	149.91	87.22	34.01	-4,237.21	3,087.00	3,995.64	3,843.24	152.41	26.217		
18,000.00	7,630.00	5,050.00	5,050.00	151.37	87.22	34.01	-4,237.21	3,087.00	4,060.02	3,906.40	153.62	26.429		
18,100.00	7,630.00	5,050.00	5,050.00	152.84	87.22	34.01	-4,237.21	3,087.00	4,125.81	3,971.03	154.78	26.656		
18,200.00	7,630.00	5,050.00	5,050.00	154.32	87.22	34.01	-4,237.21	3,087.00	4,192.95	4,037.06	155.90	26.896		
18,300.00	7,630.00	5,050.00	5,050.00	155.81	87.22	34.01	-4,237.21	3,087.00	4,261.39	4,104.42	156.96	27.149		
18,400.00	7,630.00	5,050.00	5,050.00	157.31	87.22	34.01	-4,237.21	3,087.00	4,331.05	4,173.06	157.99	27.414		
18,500.00	7,630.00	5,050.00	5,050.00	158.81	87.22	34.01	-4,237.21	3,087.00	4,401.88	4,242.91	158.97	27.690		
18,600.00	7,630.00	5,050.00	5,050.00	160.32	87.22	34.01	-4,237.21	3,087.00	4,473.83	4,313.92	159.91	27.977		
18,700.00	7,630.00	5,050.00	5,050.00	161.84	87.22	34.01	-4,237.21	3,087.00	4,546.83	4,386.03	160.81	28.275		
18,800.00	7,630.00	5,050.00	5,050.00	163.37	87.22	34.01	-4,237.21	3,087.00	4,620.85	4,459.18	161.67	28.583		
18,900.00	7,630.00	5,050.00	5,050.00	164.90	87.22	34.01	-4,237.21	3,087.00	4,695.83	4,533.34	162.49	28.900		
19,000.00	7,630.00	5,050.00	5,050.00	166.43	87.22	34.01	-4,237.21	3,087.00	4,771.73	4,608.45	163.27	29.226		
19,100.00	7,630.00	5,050.00	5,050.00	167.98	87.22	34.01	-4,237.21	3,087.00	4,848.50	4,684.48	164.02	29.560		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	5,050.00	5,050.00	169.53	87.22	34.01	-4,237.21	3,087.00	4,926.10	4,761.36	164.74	29.902	
19,300.00	7,630.00	5,050.00	5,050.00	171.08	87.22	34.01	-4,237.21	3,087.00	5,004.51	4,839.08	165.43	30.252	
19,400.00	7,630.00	5,050.00	5,050.00	172.64	87.22	34.01	-4,237.21	3,087.00	5,083.66	4,917.58	166.08	30.609	
19,500.00	7,630.00	5,050.00	5,050.00	174.21	87.22	34.01	-4,237.21	3,087.00	5,163.55	4,996.84	166.71	30.973	
19,518.56	7,630.00	5,050.00	5,050.00	174.50	87.22	34.01	-4,237.21	3,087.00	5,178.45	5,011.63	166.82	31.042	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	157.35	-4,237.34	1,767.96	4,591.43					
100.00	100.00	77.00	77.00	0.13	0.63	157.35	-4,237.34	1,767.96	4,591.37	4,590.61	0.77	5,993.474		
200.00	200.00	177.00	177.00	0.49	2.16	157.35	-4,237.34	1,767.96	4,591.37	4,588.72	2.66	1,727.960		
300.00	300.00	277.00	277.00	0.85	3.91	157.35	-4,237.34	1,767.96	4,591.37	4,586.61	4.76	964.390		
400.00	400.00	377.00	377.00	1.21	5.65	157.35	-4,237.34	1,767.96	4,591.37	4,584.51	6.86	668.837		
500.00	499.98	476.98	476.98	1.56	7.40	90.65	-4,237.34	1,767.96	4,591.39	4,582.43	8.96	512.219		
600.00	599.84	576.84	576.84	1.92	9.14	90.71	-4,237.34	1,767.96	4,591.46	4,580.40	11.06	415.084		
700.00	699.45	676.45	676.45	2.29	10.88	90.82	-4,237.34	1,767.96	4,591.57	4,578.41	13.17	348.765		
800.00	798.70	775.70	775.70	2.67	12.61	90.97	-4,237.34	1,767.96	4,591.76	4,576.49	15.28	300.549		
900.00	897.47	874.47	874.47	3.07	14.34	91.15	-4,237.34	1,767.96	4,592.06	4,574.65	17.40	263.861		
1,000.00	995.62	972.62	972.62	3.50	16.05	91.38	-4,237.34	1,767.96	4,592.49	4,572.94	19.55	234.964		
1,100.00	1,093.06	1,070.06	1,070.06	3.96	17.75	91.64	-4,237.34	1,767.96	4,593.10	4,571.39	21.71	211.582		
1,200.00	1,189.64	1,166.64	1,166.64	4.46	19.44	91.93	-4,237.34	1,767.96	4,593.93	4,570.04	23.90	192.251		
1,300.00	1,285.27	1,262.27	1,262.27	5.00	21.11	92.26	-4,237.34	1,767.96	4,595.05	4,568.94	26.11	175.987		
1,400.00	1,379.82	1,356.82	1,356.82	5.60	22.76	92.61	-4,237.34	1,767.96	4,596.52	4,568.16	28.36	162.105		
1,500.00	1,473.17	1,450.17	1,450.17	6.25	24.39	92.99	-4,237.34	1,767.96	4,598.39	4,567.76	30.63	150.115		
1,600.00	1,565.21	1,542.21	1,542.21	6.95	25.99	93.39	-4,237.34	1,767.96	4,600.76	4,567.82	32.94	139.654		
1,700.00	1,655.84	1,632.84	1,632.84	7.72	27.57	93.81	-4,237.34	1,767.96	4,603.69	4,568.40	35.29	130.451		
1,800.00	1,744.94	1,721.94	1,721.94	8.55	29.13	94.24	-4,237.34	1,767.96	4,607.27	4,569.59	37.67	122.296		
1,900.00	1,832.39	1,809.39	1,809.39	9.45	30.65	94.68	-4,237.34	1,767.96	4,611.58	4,571.49	40.09	115.027		
2,000.00	1,918.11	1,904.89	1,895.11	10.41	32.32	95.13	-4,237.34	1,767.96	4,616.71	4,574.00	42.72	108.080		
2,100.00	2,001.97	1,978.97	1,978.97	11.45	33.61	95.57	-4,237.34	1,767.96	4,622.76	4,577.72	45.03	102.653		
2,200.00	2,083.88	2,060.88	2,060.88	12.56	35.04	96.01	-4,237.34	1,767.96	4,629.81	4,582.26	47.55	97.360		
2,300.00	2,163.74	2,140.74	2,140.74	13.74	36.44	96.44	-4,237.34	1,767.96	4,637.96	4,587.85	50.11	92.564		
2,400.00	2,241.45	2,218.45	2,218.45	14.99	37.79	96.86	-4,237.34	1,767.96	4,647.30	4,594.61	52.69	88.208		
2,421.22	2,257.65	2,234.65	2,234.65	15.26	38.08	96.94	-4,237.34	1,767.96	4,649.44	4,596.21	53.24	87.337		
2,500.00	2,317.63	2,305.37	2,294.63	16.29	39.31	97.42	-4,237.34	1,767.96	4,657.78	4,602.31	55.47	83.966		
2,600.00	2,393.75	2,370.75	2,370.75	17.62	40.45	98.02	-4,237.34	1,767.96	4,669.15	4,611.26	57.89	80.651		
2,700.00	2,469.88	2,446.88	2,446.88	18.95	41.78	98.63	-4,237.34	1,767.96	4,681.40	4,620.89	60.50	77.373		
2,800.00	2,546.01	2,523.01	2,523.01	20.30	43.11	99.23	-4,237.34	1,767.96	4,694.50	4,631.38	63.12	74.378		
2,900.00	2,622.13	2,600.87	2,599.13	21.65	44.47	99.83	-4,237.34	1,767.96	4,708.46	4,642.71	65.76	71.604		
3,000.00	2,698.26	2,675.26	2,675.26	23.01	45.77	100.42	-4,237.34	1,767.96	4,723.27	4,654.94	68.33	69.121		
3,100.00	2,774.38	2,751.38	2,751.38	24.37	47.10	101.02	-4,237.34	1,767.96	4,738.93	4,667.99	70.93	66.807		
3,200.00	2,850.51	2,827.51	2,827.51	25.74	48.42	101.61	-4,237.34	1,767.96	4,755.41	4,681.88	73.53	64.674		
3,300.00	2,926.64	2,903.64	2,903.64	27.11	49.75	102.20	-4,237.34	1,767.96	4,772.72	4,696.60	76.12	62.703		
3,400.00	3,002.76	2,979.76	2,979.76	28.49	51.08	102.79	-4,237.34	1,767.96	4,790.84	4,712.15	78.69	60.879		
3,500.00	3,078.89	3,055.89	3,055.89	29.87	52.41	103.37	-4,237.34	1,767.96	4,809.77	4,728.51	81.26	59.187		
3,600.00	3,155.02	3,132.02	3,132.02	31.25	53.74	103.95	-4,237.34	1,767.96	4,829.50	4,745.68	83.82	57.616		
3,700.00	3,231.14	3,208.14	3,208.14	32.63	55.07	104.53	-4,237.34	1,767.96	4,850.01	4,763.64	86.37	56.153		
3,800.00	3,307.27	3,284.27	3,284.27	34.01	56.40	105.11	-4,237.34	1,767.96	4,871.30	4,782.40	88.91	54.790		
3,900.00	3,383.39	3,360.39	3,360.39	35.40	57.72	105.68	-4,237.34	1,767.96	4,893.36	4,801.93	91.43	53.518		
4,000.00	3,459.52	3,436.52	3,436.52	36.79	59.05	106.25	-4,237.34	1,767.96	4,916.17	4,822.23	93.95	52.330		
4,100.00	3,535.65	3,512.65	3,512.65	38.18	60.38	106.82	-4,237.34	1,767.96	4,939.73	4,843.29	96.45	51.217		
4,200.00	3,611.77	3,588.77	3,588.77	39.57	61.71	107.38	-4,237.34	1,767.96	4,964.03	4,865.09	98.93	50.175		
4,300.00	3,687.90	3,664.90	3,664.90	40.96	63.04	107.94	-4,237.34	1,767.96	4,989.05	4,887.64	101.41	49.197		
4,400.00	3,764.02	3,741.02	3,741.02	42.35	64.37	108.50	-4,237.34	1,767.96	5,014.78	4,910.91	103.87	48.279		
4,500.00	3,840.15	3,817.15	3,817.15	43.74	65.70	109.05	-4,237.34	1,767.96	5,041.22	4,934.90	106.32	47.416		
4,600.00	3,916.28	3,893.28	3,893.28	45.13	67.26	109.60	-4,237.34	1,767.96	5,068.34	4,959.36	108.99	46.504		
4,700.00	3,992.40	3,969.40	3,969.40	46.53	68.35	110.14	-4,237.34	1,767.96	5,096.15	4,984.98	111.17	45.840		
4,800.00	4,068.53	4,045.53	4,045.53	47.92	69.68	110.68	-4,237.34	1,767.96	5,124.63	5,011.05	113.58	45.120		
4,900.00	4,144.66	4,121.66	4,121.66	49.32	71.01	111.22	-4,237.34	1,767.96	5,153.77	5,037.80	115.97	44.440		
5,000.00	4,220.78	4,202.22	4,197.78	50.71	72.42	111.75	-4,237.34	1,767.96	5,183.55	5,065.12	118.43	43.770		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,273.91	4,273.91	52.11	73.67	112.28	-4,237.34	1,767.96	5,213.97	5,093.26	120.71	43.193		
5,200.00	4,373.03	4,350.03	4,350.03	53.51	75.00	112.81	-4,237.34	1,767.96	5,245.02	5,121.95	123.06	42.621		
5,300.00	4,449.16	4,426.16	4,426.16	54.90	76.33	113.33	-4,237.34	1,767.96	5,276.68	5,151.28	125.40	42.079		
5,400.00	4,525.29	4,502.29	4,502.29	56.30	77.65	113.85	-4,237.34	1,767.96	5,308.94	5,181.22	127.72	41.567		
5,500.00	4,601.41	4,578.41	4,578.41	57.70	78.98	114.36	-4,237.34	1,767.96	5,341.79	5,211.76	130.03	41.081		
5,600.00	4,677.54	4,654.54	4,654.54	59.10	80.31	114.87	-4,237.34	1,767.96	5,375.23	5,242.91	132.32	40.622		
5,700.00	4,753.66	4,730.66	4,730.66	60.49	81.64	115.37	-4,237.34	1,767.96	5,409.24	5,274.63	134.60	40.186		
5,800.00	4,829.79	4,806.79	4,806.79	61.89	82.97	115.88	-4,237.34	1,767.96	5,443.81	5,306.93	136.87	39.773		
5,900.00	4,905.92	4,882.92	4,882.92	63.29	84.30	116.37	-4,237.34	1,767.96	5,478.92	5,339.80	139.13	39.381		
6,000.00	4,982.04	4,959.04	4,959.04	64.69	85.63	116.86	-4,237.34	1,767.96	5,514.58	5,373.21	141.37	39.009		
6,100.00	5,058.17	5,035.17	5,035.17	66.09	86.96	117.35	-4,237.34	1,767.96	5,550.76	5,407.17	143.59	38.656		
6,200.00	5,134.30	5,111.30	5,111.30	67.49	88.28	117.84	-4,237.34	1,767.96	5,587.46	5,441.66	145.81	38.321		
6,300.00	5,210.42	5,187.42	5,187.42	68.89	89.61	118.32	-4,237.34	1,767.96	5,624.67	5,476.67	148.01	38.002		
6,400.00	5,286.55	5,263.55	5,263.55	70.29	90.94	118.79	-4,237.34	1,767.96	5,662.38	5,512.19	150.20	37.700		
6,500.00	5,362.67	5,339.67	5,339.67	71.69	92.27	119.26	-4,237.34	1,767.96	5,700.58	5,548.21	152.37	37.412		
6,600.00	5,438.80	5,415.80	5,415.80	73.09	93.60	119.73	-4,237.34	1,767.96	5,739.26	5,584.72	154.54	37.138		
6,700.00	5,514.93	5,450.00	5,450.00	74.49	94.20	119.94	-4,237.34	1,767.96	5,778.55	5,622.63	155.92	37.062		
6,800.00	5,591.05	5,450.00	5,450.00	75.89	94.20	119.94	-4,237.34	1,767.96	5,819.20	5,662.57	156.63	37.151		
6,900.00	5,667.18	5,450.00	5,450.00	77.29	94.20	119.94	-4,237.34	1,767.96	5,861.27	5,703.96	157.31	37.259		
7,000.00	5,743.30	5,450.00	5,450.00	78.69	94.20	119.94	-4,237.34	1,767.96	5,904.74	5,746.79	157.95	37.383		
7,100.00	5,819.43	5,450.00	5,450.00	80.09	94.20	119.94	-4,237.34	1,767.96	5,949.57	5,791.02	158.55	37.524		
7,200.00	5,895.56	5,450.00	5,450.00	81.49	94.20	119.94	-4,237.34	1,767.96	5,995.74	5,836.62	159.12	37.681		
7,300.00	5,971.68	5,450.00	5,450.00	82.90	94.20	119.94	-4,237.34	1,767.96	6,043.20	5,883.55	159.65	37.853		
7,400.00	6,047.81	5,450.00	5,450.00	84.30	94.20	119.94	-4,237.34	1,767.96	6,091.94	5,931.79	160.14	38.040		
7,500.00	6,123.94	5,450.00	5,450.00	85.70	94.20	119.94	-4,237.34	1,767.96	6,141.92	5,981.31	160.61	38.242		
7,600.00	6,200.06	5,450.00	5,450.00	87.10	94.20	119.94	-4,237.34	1,767.96	6,193.11	6,032.07	161.04	38.457		
7,700.00	6,276.19	5,450.00	5,450.00	88.50	94.20	119.94	-4,237.34	1,767.96	6,245.48	6,084.04	161.44	38.685		
7,800.00	6,352.31	5,450.00	5,450.00	89.90	94.20	119.94	-4,237.34	1,767.96	6,299.01	6,137.19	161.82	38.927		
7,900.00	6,428.44	5,450.00	5,450.00	91.31	94.20	119.94	-4,237.34	1,767.96	6,353.65	6,191.49	162.16	39.181		
8,000.00	6,504.57	5,450.00	5,450.00	92.71	94.20	119.94	-4,237.34	1,767.96	6,409.39	6,246.91	162.48	39.447		
8,100.00	6,580.69	5,450.00	5,450.00	94.11	94.20	119.94	-4,237.34	1,767.96	6,466.20	6,303.43	162.77	39.725		
8,200.00	6,656.82	5,450.00	5,450.00	95.51	94.20	119.94	-4,237.34	1,767.96	6,524.05	6,361.01	163.04	40.014		
8,300.00	6,732.95	5,450.00	5,450.00	96.91	94.20	119.94	-4,237.34	1,767.96	6,582.91	6,419.62	163.29	40.315		
8,400.00	6,809.07	5,450.00	5,450.00	98.32	94.20	119.94	-4,237.34	1,767.96	6,642.75	6,479.24	163.51	40.626		
8,500.00	6,885.20	5,450.00	5,450.00	99.72	94.20	119.94	-4,237.34	1,767.96	6,703.55	6,539.83	163.71	40.947		
8,600.00	6,961.32	5,450.00	5,450.00	101.12	94.20	119.94	-4,237.34	1,767.96	6,765.28	6,601.38	163.90	41.278		
8,700.00	7,037.45	5,450.00	5,450.00	102.52	94.20	119.94	-4,237.34	1,767.96	6,827.91	6,663.85	164.06	41.619		
8,732.15	7,061.92	5,450.00	5,450.00	102.97	94.20	119.94	-4,237.34	1,767.96	6,848.24	6,684.13	164.11	41.730		
8,750.00	7,075.57	5,450.00	5,450.00	103.22	94.20	117.63	-4,237.34	1,767.96	6,859.35	6,695.22	164.13	41.791		
8,800.00	7,114.27	5,450.00	5,450.00	103.91	94.20	111.01	-4,237.34	1,767.96	6,888.31	6,724.09	164.22	41.947		
8,850.00	7,153.47	5,450.00	5,450.00	104.58	94.20	104.21	-4,237.34	1,767.96	6,913.93	6,749.63	164.30	42.080		
8,900.00	7,192.85	5,450.00	5,450.00	105.21	94.20	97.39	-4,237.34	1,767.96	6,936.06	6,771.67	164.39	42.192		
8,950.00	7,232.12	5,450.00	5,450.00	105.80	94.20	90.75	-4,237.34	1,767.96	6,954.57	6,790.09	164.48	42.282		
9,000.00	7,270.99	5,450.00	5,450.00	106.35	94.20	84.45	-4,237.34	1,767.96	6,969.34	6,804.77	164.56	42.350		
9,050.00	7,309.16	5,450.00	5,450.00	106.85	94.20	78.64	-4,237.34	1,767.96	6,980.28	6,815.64	164.64	42.398		
9,100.00	7,346.32	5,450.00	5,450.00	107.30	94.20	73.41	-4,237.34	1,767.96	6,987.33	6,822.64	164.69	42.426		
9,150.00	7,382.22	5,450.00	5,450.00	107.69	94.20	68.80	-4,237.34	1,767.96	6,990.45	6,825.71	164.73	42.435		
9,200.00	7,416.56	5,450.00	5,450.00	108.02	94.20	64.81	-4,237.34	1,767.96	6,989.61	6,824.86	164.76	42.424		
9,250.00	7,449.09	5,450.00	5,450.00	108.29	94.20	61.40	-4,237.34	1,767.96	6,984.83	6,820.08	164.76	42.395		
9,300.00	7,479.56	5,450.00	5,450.00	108.51	94.20	58.55	-4,237.34	1,767.96	6,976.14	6,811.40	164.73	42.348		
9,350.00	7,507.74	5,450.00	5,450.00	108.68	94.20	56.21	-4,237.34	1,767.96	6,963.57	6,798.88	164.69	42.283		
9,400.00	7,533.41	5,450.00	5,450.00	108.79	94.20	54.34	-4,237.34	1,767.96	6,947.22	6,782.59	164.62	42.201		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	5,450.00	5,450.00	108.86	94.20	52.92	-4,237.34	1,767.96	6,927.17	6,762.63	164.54	42.101		
9,500.00	7,576.48	5,450.00	5,450.00	108.88	94.20	51.91	-4,237.34	1,767.96	6,903.55	6,739.11	164.43	41.983		
9,550.00	7,593.55	5,450.00	5,450.00	108.86	94.20	51.32	-4,237.34	1,767.96	6,876.50	6,712.18	164.32	41.849		
9,600.00	7,607.46	5,450.00	5,450.00	108.80	94.20	51.14	-4,237.34	1,767.96	6,846.18	6,682.00	164.19	41.697		
9,650.00	7,618.11	5,450.00	5,450.00	108.71	94.20	51.39	-4,237.34	1,767.96	6,812.80	6,648.75	164.05	41.529		
9,700.00	7,625.41	5,450.00	5,450.00	108.59	94.20	52.14	-4,237.34	1,767.96	6,776.55	6,612.64	163.91	41.343		
9,750.00	7,629.30	5,450.00	5,450.00	108.45	94.20	53.46	-4,237.34	1,767.96	6,737.68	6,573.90	163.77	41.140		
9,781.81	7,630.00	5,450.00	5,450.00	108.35	94.20	54.67	-4,237.34	1,767.96	6,711.69	6,548.00	163.69	41.003		
9,800.00	7,630.00	5,450.00	5,450.00	108.29	94.20	54.67	-4,237.34	1,767.96	6,696.57	6,532.93	163.64	40.922		
9,900.00	7,630.00	5,450.00	5,450.00	107.97	94.20	54.67	-4,237.34	1,767.96	6,613.75	6,450.38	163.37	40.483		
10,000.00	7,630.00	5,450.00	5,450.00	107.67	94.20	54.67	-4,237.34	1,767.96	6,531.41	6,368.32	163.09	40.047		
10,100.00	7,630.00	5,450.00	5,450.00	107.38	94.20	54.67	-4,237.34	1,767.96	6,449.58	6,286.77	162.81	39.614		
10,200.00	7,630.00	5,450.00	5,450.00	107.10	94.20	54.67	-4,237.34	1,767.96	6,368.26	6,205.73	162.52	39.184		
10,300.00	7,630.00	5,450.00	5,450.00	106.84	94.20	54.67	-4,237.34	1,767.96	6,287.47	6,125.25	162.23	38.757		
10,400.00	7,630.00	5,450.00	5,450.00	106.59	94.20	54.67	-4,237.34	1,767.96	6,207.25	6,045.33	161.93	38.334		
10,500.00	7,630.00	5,450.00	5,450.00	106.35	94.20	54.67	-4,237.34	1,767.96	6,127.61	5,965.99	161.62	37.914		
10,600.00	7,630.00	5,450.00	5,450.00	106.13	94.20	54.67	-4,237.34	1,767.96	6,048.58	5,887.27	161.30	37.498		
10,700.00	7,630.00	5,450.00	5,450.00	105.92	94.20	54.67	-4,237.34	1,767.96	5,970.17	5,809.18	160.98	37.085		
10,800.00	7,630.00	5,450.00	5,450.00	105.72	94.20	54.67	-4,237.34	1,767.96	5,892.42	5,731.76	160.66	36.677		
10,900.00	7,630.00	5,450.00	5,450.00	105.54	94.20	54.67	-4,237.34	1,767.96	5,815.34	5,655.02	160.33	36.272		
11,000.00	7,630.00	5,450.00	5,450.00	105.37	94.20	54.67	-4,237.34	1,767.96	5,738.98	5,578.99	159.99	35.871		
11,100.00	7,630.00	5,450.00	5,450.00	105.21	94.20	54.67	-4,237.34	1,767.96	5,663.35	5,503.70	159.64	35.475		
11,200.00	7,630.00	5,450.00	5,450.00	105.06	94.20	54.67	-4,237.34	1,767.96	5,588.48	5,429.19	159.29	35.083		
11,300.00	7,630.00	5,450.00	5,450.00	104.93	94.20	54.67	-4,237.34	1,767.96	5,514.42	5,355.48	158.94	34.695		
11,400.00	7,630.00	5,450.00	5,450.00	104.82	94.20	54.67	-4,237.34	1,767.96	5,441.18	5,282.60	158.58	34.312		
11,500.00	7,630.00	5,450.00	5,450.00	104.72	94.20	54.67	-4,237.34	1,767.96	5,368.81	5,210.60	158.21	33.934		
11,600.00	7,630.00	5,450.00	5,450.00	104.63	94.20	54.67	-4,237.34	1,767.96	5,297.34	5,139.49	157.84	33.561		
11,700.00	7,630.00	5,450.00	5,450.00	104.55	94.20	54.67	-4,237.34	1,767.96	5,226.80	5,069.33	157.47	33.193		
11,800.00	7,630.00	5,450.00	5,450.00	104.50	94.20	54.67	-4,237.34	1,767.96	5,157.23	5,000.14	157.09	32.830		
11,900.00	7,630.00	5,450.00	5,450.00	104.45	94.20	54.67	-4,237.34	1,767.96	5,088.68	4,931.97	156.71	32.472		
12,000.00	7,630.00	5,450.00	5,450.00	104.43	94.20	54.67	-4,237.34	1,767.96	5,021.19	4,864.86	156.33	32.120		
12,100.00	7,630.00	5,450.00	5,450.00	104.42	94.20	54.67	-4,237.34	1,767.96	4,954.80	4,798.85	155.94	31.773		
12,200.00	7,630.00	5,450.00	5,450.00	104.42	94.20	54.67	-4,237.34	1,767.96	4,889.55	4,733.99	155.56	31.433		
12,300.00	7,630.00	5,450.00	5,450.00	104.45	94.20	54.67	-4,237.34	1,767.96	4,825.48	4,670.31	155.17	31.098		
12,400.00	7,630.00	5,450.00	5,450.00	104.49	94.20	54.67	-4,237.34	1,767.96	4,762.66	4,607.88	154.79	30.769		
12,500.00	7,630.00	5,450.00	5,450.00	104.55	94.20	54.67	-4,237.34	1,767.96	4,701.13	4,546.72	154.40	30.447		
12,600.00	7,630.00	5,450.00	5,450.00	104.63	94.20	54.67	-4,237.34	1,767.96	4,640.93	4,486.91	154.03	30.131		
12,700.00	7,630.00	5,450.00	5,450.00	104.73	94.20	54.67	-4,237.34	1,767.96	4,582.13	4,428.47	153.65	29.821		
12,800.00	7,630.00	5,450.00	5,450.00	104.85	94.20	54.67	-4,237.34	1,767.96	4,524.77	4,371.48	153.29	29.518		
12,900.00	7,630.00	5,450.00	5,450.00	104.99	94.20	54.67	-4,237.34	1,767.96	4,468.91	4,315.98	152.93	29.222		
13,000.00	7,630.00	5,450.00	5,450.00	105.15	94.20	54.67	-4,237.34	1,767.96	4,414.62	4,262.03	152.58	28.933		
13,100.00	7,630.00	5,450.00	5,450.00	105.34	94.20	54.67	-4,237.34	1,767.96	4,361.94	4,209.69	152.25	28.650		
13,200.00	7,630.00	5,450.00	5,450.00	105.56	94.20	54.67	-4,237.34	1,767.96	4,310.93	4,159.01	151.93	28.375		
13,300.00	7,630.00	5,450.00	5,450.00	105.80	94.20	54.67	-4,237.34	1,767.96	4,261.67	4,110.04	151.62	28.107		
13,400.00	7,630.00	5,450.00	5,450.00	106.06	94.20	54.67	-4,237.34	1,767.96	4,214.20	4,062.86	151.34	27.846		
13,500.00	7,630.00	5,450.00	5,450.00	106.36	94.20	54.67	-4,237.34	1,767.96	4,168.58	4,017.51	151.08	27.593		
13,600.00	7,630.00	5,450.00	5,450.00	106.68	94.20	54.67	-4,237.34	1,767.96	4,124.89	3,974.06	150.84	27.347		
13,700.00	7,630.00	5,450.00	5,450.00	107.03	94.20	54.67	-4,237.34	1,767.96	4,083.18	3,932.56	150.62	27.109		
13,800.00	7,630.00	5,450.00	5,450.00	107.42	94.20	54.67	-4,237.34	1,767.96	4,043.52	3,893.08	150.44	26.879		
13,900.00	7,630.00	5,450.00	5,450.00	107.83	94.20	54.67	-4,237.34	1,767.96	4,005.96	3,855.67	150.28	26.656		
14,000.00	7,630.00	5,450.00	5,450.00	108.28	94.20	54.67	-4,237.34	1,767.96	3,970.56	3,820.40	150.16	26.442		
14,100.00	7,630.00	5,450.00	5,450.00	108.77	94.20	54.67	-4,237.34	1,767.96	3,937.38	3,787.31	150.08	26.236		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,630.00	5,450.00	5,450.00	109.29	94.20	54.67	-4,237.34	1,767.96	3,906.49	3,756.46	150.03	26.038		
14,300.00	7,630.00	5,450.00	5,450.00	109.84	94.20	54.67	-4,237.34	1,767.96	3,877.92	3,727.90	150.02	25.849		
14,400.00	7,630.00	5,450.00	5,450.00	110.43	94.20	54.67	-4,237.34	1,767.96	3,851.74	3,701.69	150.06	25.669		
14,500.00	7,630.00	5,450.00	5,450.00	111.06	94.20	54.67	-4,237.34	1,767.96	3,828.00	3,677.87	150.13	25.497		
14,600.00	7,630.00	5,450.00	5,450.00	111.72	94.20	54.67	-4,237.34	1,767.96	3,806.73	3,656.48	150.25	25.335		
14,700.00	7,630.00	5,450.00	5,450.00	112.42	94.20	54.67	-4,237.34	1,767.96	3,787.99	3,637.57	150.42	25.182		
14,800.00	7,630.00	5,450.00	5,450.00	113.16	94.20	54.67	-4,237.34	1,767.96	3,771.81	3,621.17	150.64	25.039		
14,900.00	7,630.00	5,450.00	5,450.00	113.94	94.20	54.67	-4,237.34	1,767.96	3,758.21	3,607.32	150.89	24.906		
15,000.00	7,630.00	5,450.00	5,450.00	114.75	94.20	54.67	-4,237.34	1,767.96	3,747.24	3,596.04	151.20	24.783		
15,100.00	7,630.00	5,450.00	5,450.00	115.60	94.20	54.67	-4,237.34	1,767.96	3,738.91	3,587.36	151.55	24.671		
15,200.00	7,630.00	5,450.00	5,450.00	116.48	94.20	54.67	-4,237.34	1,767.96	3,733.25	3,581.30	151.94	24.570		
15,300.00	7,630.00	5,450.00	5,450.00	117.40	94.20	54.67	-4,237.34	1,767.96	3,730.25	3,577.87	152.38	24.480		
15,361.76	7,630.00	5,450.00	5,450.00	117.98	94.20	54.67	-4,237.34	1,767.96	3,729.74	3,577.07	152.67	24.430 CC, ES		
15,400.00	7,630.00	5,450.00	5,450.00	118.35	94.20	54.67	-4,237.34	1,767.96	3,729.94	3,577.08	152.86	24.401		
15,500.00	7,630.00	5,450.00	5,450.00	119.34	94.20	54.67	-4,237.34	1,767.96	3,732.30	3,578.92	153.38	24.334		
15,600.00	7,630.00	5,450.00	5,450.00	120.35	94.20	54.67	-4,237.34	1,767.96	3,737.34	3,583.41	153.93	24.280		
15,700.00	7,630.00	5,450.00	5,450.00	121.40	94.20	54.67	-4,237.34	1,767.96	3,745.05	3,590.53	154.51	24.238		
15,800.00	7,630.00	5,450.00	5,450.00	122.48	94.20	54.67	-4,237.34	1,767.96	3,755.40	3,600.27	155.13	24.208		
15,900.00	7,630.00	5,450.00	5,450.00	123.58	94.20	54.67	-4,237.34	1,767.96	3,768.38	3,612.61	155.77	24.192		
16,000.00	7,630.00	5,450.00	5,450.00	124.71	94.20	54.67	-4,237.34	1,767.96	3,783.95	3,627.52	156.44	24.188 SF		
16,100.00	7,630.00	5,450.00	5,450.00	125.87	94.20	54.67	-4,237.34	1,767.96	3,802.10	3,644.98	157.12	24.198		
16,200.00	7,630.00	5,450.00	5,450.00	127.05	94.20	54.67	-4,237.34	1,767.96	3,822.77	3,664.95	157.82	24.222		
16,300.00	7,630.00	5,450.00	5,450.00	128.26	94.20	54.67	-4,237.34	1,767.96	3,845.94	3,687.40	158.54	24.259		
16,400.00	7,630.00	5,450.00	5,450.00	129.48	94.20	54.67	-4,237.34	1,767.96	3,871.55	3,712.29	159.26	24.309		
16,500.00	7,630.00	5,450.00	5,450.00	130.73	94.20	54.67	-4,237.34	1,767.96	3,899.56	3,739.56	160.00	24.373		
16,600.00	7,630.00	5,450.00	5,450.00	132.00	94.20	54.67	-4,237.34	1,767.96	3,929.91	3,769.18	160.73	24.450		
16,700.00	7,630.00	5,450.00	5,450.00	133.29	94.20	54.67	-4,237.34	1,767.96	3,962.56	3,801.09	161.47	24.541		
16,800.00	7,630.00	5,450.00	5,450.00	134.59	94.20	54.67	-4,237.34	1,767.96	3,997.44	3,835.24	162.20	24.645		
16,900.00	7,630.00	5,450.00	5,450.00	135.91	94.20	54.67	-4,237.34	1,767.96	4,034.50	3,871.57	162.92	24.763		
17,000.00	7,630.00	5,450.00	5,450.00	137.25	94.20	54.67	-4,237.34	1,767.96	4,073.67	3,910.03	163.64	24.893		
17,100.00	7,630.00	5,450.00	5,450.00	138.61	94.20	54.67	-4,237.34	1,767.96	4,114.91	3,950.55	164.35	25.037		
17,200.00	7,630.00	5,450.00	5,450.00	139.97	94.20	54.67	-4,237.34	1,767.96	4,158.14	3,993.08	165.05	25.193		
17,300.00	7,630.00	5,450.00	5,450.00	141.36	94.20	54.67	-4,237.34	1,767.96	4,203.30	4,037.56	165.74	25.361		
17,400.00	7,630.00	5,450.00	5,450.00	142.75	94.20	54.67	-4,237.34	1,767.96	4,250.34	4,083.93	166.41	25.541		
17,500.00	7,630.00	5,450.00	5,450.00	144.16	94.20	54.67	-4,237.34	1,767.96	4,299.19	4,132.12	167.07	25.733		
17,600.00	7,630.00	5,450.00	5,450.00	145.58	94.20	54.67	-4,237.34	1,767.96	4,349.79	4,182.08	167.71	25.937		
17,700.00	7,630.00	5,450.00	5,450.00	147.01	94.20	54.67	-4,237.34	1,767.96	4,402.08	4,233.75	168.33	26.151		
17,800.00	7,630.00	5,450.00	5,450.00	148.45	94.20	54.67	-4,237.34	1,767.96	4,456.01	4,287.07	168.94	26.377		
17,900.00	7,630.00	5,450.00	5,450.00	149.91	94.20	54.67	-4,237.34	1,767.96	4,511.50	4,341.98	169.52	26.613		
18,000.00	7,630.00	5,450.00	5,450.00	151.37	94.20	54.67	-4,237.34	1,767.96	4,568.51	4,398.42	170.09	26.859		
18,100.00	7,630.00	5,450.00	5,450.00	152.84	94.20	54.67	-4,237.34	1,767.96	4,626.98	4,456.34	170.64	27.115		
18,200.00	7,630.00	5,450.00	5,450.00	154.32	94.20	54.67	-4,237.34	1,767.96	4,686.85	4,515.68	171.17	27.381		
18,300.00	7,630.00	5,450.00	5,450.00	155.81	94.20	54.67	-4,237.34	1,767.96	4,748.08	4,576.39	171.68	27.656		
18,400.00	7,630.00	5,450.00	5,450.00	157.31	94.20	54.67	-4,237.34	1,767.96	4,810.60	4,638.42	172.18	27.940		
18,500.00	7,630.00	5,450.00	5,450.00	158.81	94.20	54.67	-4,237.34	1,767.96	4,874.38	4,701.72	172.65	28.232		
18,600.00	7,630.00	5,450.00	5,450.00	160.32	94.20	54.67	-4,237.34	1,767.96	4,939.35	4,766.24	173.11	28.533		
18,700.00	7,630.00	5,450.00	5,450.00	161.84	94.20	54.67	-4,237.34	1,767.96	5,005.48	4,831.93	173.55	28.841		
18,800.00	7,630.00	5,450.00	5,450.00	163.37	94.20	54.67	-4,237.34	1,767.96	5,072.72	4,898.74	173.98	29.157		
18,900.00	7,630.00	5,450.00	5,450.00	164.90	94.20	54.67	-4,237.34	1,767.96	5,141.02	4,966.64	174.38	29.481		
19,000.00	7,630.00	5,450.00	5,450.00	166.43	94.20	54.67	-4,237.34	1,767.96	5,210.35	5,035.58	174.78	29.812		
19,100.00	7,630.00	5,450.00	5,450.00	167.98	94.20	54.67	-4,237.34	1,767.96	5,280.67	5,105.51	175.15	30.149		
19,200.00	7,630.00	5,450.00	5,450.00	169.53	94.20	54.67	-4,237.34	1,767.96	5,351.92	5,176.41	175.51	30.493		

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	5,450.00	5,450.00	171.08	94.20	54.67	-4,237.34	1,767.96	5,424.09	5,248.23	175.86	30.844	
19,400.00	7,630.00	5,450.00	5,450.00	172.64	94.20	54.67	-4,237.34	1,767.96	5,497.12	5,320.93	176.19	31.200	
19,500.00	7,630.00	5,450.00	5,450.00	174.21	94.20	54.67	-4,237.34	1,767.96	5,571.00	5,394.49	176.51	31.562	
19,518.56	7,630.00	5,450.00	5,450.00	174.50	94.20	54.67	-4,237.34	1,767.96	5,584.80	5,408.23	176.57	31.630	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	155.36	-4,568.82	2,095.65	5,026.51					
100.00	100.00	72.68	72.68	0.13	0.12	155.36	-4,569.04	2,095.52	5,026.71	5,026.46	0.25	N/A		
200.00	200.00	168.22	168.21	0.49	0.40	155.37	-4,569.81	2,095.08	5,027.24	5,026.34	0.90	5,599.895		
300.00	300.00	288.08	288.08	0.85	0.83	155.38	-4,570.50	2,094.57	5,027.60	5,025.92	1.69	2,982.614		
400.00	400.00	382.97	382.97	1.21	1.17	155.38	-4,570.70	2,094.46	5,027.74	5,025.36	2.38	2,110.574		
500.00	499.98	484.98	484.97	1.56	1.54	88.67	-4,570.94	2,094.46	5,027.92	5,024.82	3.10	1,622.122		
600.00	599.84	616.15	616.14	1.92	2.00	88.77	-4,571.18	2,093.78	5,027.77	5,023.85	3.92	1,283.048		
700.00	699.45	780.50	780.47	2.29	2.57	88.97	-4,569.78	2,091.83	5,026.21	5,021.36	4.85	1,036.142		
800.00	798.70	874.28	874.24	2.67	2.89	89.14	-4,568.48	2,090.77	5,024.28	5,018.72	5.55	904.482		
900.00	897.47	973.53	973.47	3.07	3.24	89.36	-4,567.18	2,089.82	5,022.45	5,016.15	6.30	797.110		
1,000.00	995.62	1,106.76	1,106.67	3.50	3.70	89.70	-4,564.96	2,088.49	5,020.35	5,013.16	7.19	697.859		
1,100.00	1,093.06	1,177.03	1,176.93	3.96	3.95	89.92	-4,563.75	2,087.73	5,018.19	5,010.29	7.90	634.942		
1,200.00	1,189.64	1,265.35	1,265.23	4.46	4.26	90.22	-4,562.51	2,086.91	5,016.50	5,007.79	8.72	575.588		
1,300.00	1,285.27	1,351.29	1,351.17	5.00	4.56	90.54	-4,561.33	2,086.26	5,015.08	5,005.51	9.56	524.325		
1,400.00	1,379.82	1,430.22	1,430.09	5.60	4.84	90.85	-4,560.55	2,085.49	5,014.14	5,003.70	10.44	480.285		
1,500.00	1,473.17	1,507.54	1,507.40	6.25	5.12	91.18	-4,560.03	2,084.81	5,013.80	5,002.44	11.36	441.198		
1,506.61	1,479.29	1,513.24	1,513.10	6.29	5.14	91.21	-4,560.00	2,084.76	5,013.80	5,002.37	11.43	438.617		
1,600.00	1,565.21	1,593.17	1,593.03	6.95	5.42	91.57	-4,559.62	2,084.13	5,014.02	5,001.64	12.38	405.150		
1,700.00	1,655.84	1,690.65	1,690.51	7.72	5.77	92.03	-4,559.18	2,083.31	5,014.67	5,001.18	13.49	371.716		
1,800.00	1,744.94	1,763.86	1,763.71	8.55	6.03	92.39	-4,558.90	2,082.64	5,015.89	5,001.31	14.58	343.974		
1,900.00	1,832.39	1,841.76	1,841.62	9.45	6.31	92.79	-4,558.86	2,081.98	5,017.98	5,002.22	15.76	318.484		
2,000.00	1,918.11	1,926.94	1,926.78	10.41	6.61	93.24	-4,558.93	2,081.03	5,020.79	5,003.76	17.02	294.949		
2,100.00	2,001.97	2,012.61	2,012.45	11.45	6.92	93.71	-4,559.00	2,080.07	5,024.37	5,006.01	18.36	273.668		
2,200.00	2,083.88	2,113.08	2,112.91	12.56	7.28	94.29	-4,558.91	2,078.72	5,028.63	5,008.81	19.82	253.734		
2,300.00	2,163.74	2,188.40	2,188.23	13.74	7.55	94.71	-4,558.74	2,077.74	5,033.75	5,012.49	21.26	236.811		
2,400.00	2,241.45	2,271.82	2,271.64	14.99	7.85	95.19	-4,558.49	2,076.71	5,039.89	5,017.09	22.79	221.129		
2,421.22	2,257.65	2,289.46	2,289.27	15.26	7.91	95.30	-4,558.43	2,076.47	5,041.32	5,018.19	23.13	218.003		
2,500.00	2,317.63	2,347.24	2,347.05	16.29	8.12	95.73	-4,558.23	2,075.65	5,046.99	5,022.64	24.35	207.297		
2,600.00	2,393.75	2,422.99	2,422.79	17.62	8.39	96.29	-4,557.99	2,074.63	5,054.99	5,029.07	25.91	195.064		
2,700.00	2,469.88	2,510.84	2,510.64	18.95	8.71	96.94	-4,557.51	2,073.67	5,063.70	5,036.17	27.53	183.925		
2,800.00	2,546.01	2,591.06	2,590.85	20.30	8.99	97.53	-4,556.93	2,072.85	5,073.13	5,044.00	29.12	174.199		
2,900.00	2,622.13	2,691.94	2,691.72	21.65	9.35	98.28	-4,555.95	2,071.62	5,083.16	5,052.37	30.79	165.100		
3,000.00	2,698.26	2,758.47	2,758.23	23.01	9.59	98.77	-4,555.20	2,070.63	5,093.86	5,061.53	32.33	157.561		
3,100.00	2,774.38	2,823.77	2,823.52	24.37	9.82	99.25	-4,554.65	2,069.58	5,105.55	5,071.69	33.86	150.773		
3,200.00	2,850.51	2,892.51	2,892.25	25.74	10.07	99.75	-4,554.22	2,068.17	5,118.18	5,082.77	35.40	144.566		
3,300.00	2,926.64	2,961.67	2,961.39	27.11	10.32	100.27	-4,553.92	2,066.54	5,131.72	5,094.77	36.94	138.919		
3,400.00	3,002.76	3,029.50	3,029.20	28.49	10.56	100.77	-4,553.70	2,064.97	5,146.16	5,107.69	38.47	133.787		
3,500.00	3,078.89	3,095.59	3,095.28	29.87	10.80	101.25	-4,553.58	2,063.50	5,161.53	5,121.56	39.98	129.117		
3,600.00	3,155.02	3,185.26	3,184.92	31.25	11.12	101.91	-4,553.38	2,061.50	5,177.68	5,136.11	41.57	124.568		
3,700.00	3,231.14	3,258.79	3,258.43	32.63	11.39	102.44	-4,553.09	2,059.86	5,194.49	5,151.41	43.09	120.562		
3,800.00	3,307.27	3,329.15	3,328.78	34.01	11.64	102.95	-4,552.84	2,058.50	5,212.16	5,167.57	44.59	116.904		
3,900.00	3,383.39	3,399.27	3,398.89	35.40	11.89	103.46	-4,552.67	2,057.05	5,230.67	5,184.59	46.07	113.530		
4,000.00	3,459.52	3,464.31	3,463.91	36.79	12.13	103.93	-4,552.61	2,055.67	5,250.05	5,202.52	47.53	110.457		
4,100.00	3,535.65	3,536.61	3,536.20	38.18	12.39	104.45	-4,552.65	2,054.26	5,270.31	5,221.31	49.00	107.549		
4,200.00	3,611.77	3,615.12	3,614.69	39.57	12.67	105.01	-4,552.62	2,052.85	5,291.28	5,240.79	50.49	104.799		
4,300.00	3,687.90	3,683.56	3,683.12	40.96	12.91	105.49	-4,552.64	2,051.57	5,313.02	5,261.09	51.92	102.321		
4,400.00	3,764.02	3,765.21	3,764.76	42.35	13.21	106.07	-4,552.68	2,049.95	5,335.51	5,282.11	53.40	99.919		
4,500.00	3,840.15	3,843.08	3,842.61	43.74	13.49	106.61	-4,552.61	2,048.42	5,358.61	5,303.77	54.85	97.704		
4,600.00	3,916.28	3,915.07	3,914.59	45.13	13.74	107.12	-4,552.56	2,047.08	5,382.46	5,326.20	56.26	95.676		
4,700.00	3,992.40	3,985.41	3,984.92	46.53	14.00	107.60	-4,552.56	2,045.83	5,407.05	5,349.41	57.65	93.792		
4,800.00	4,068.53	4,082.69	4,082.19	47.92	14.35	108.27	-4,552.45	2,044.19	5,432.26	5,373.13	59.13	91.864		
4,900.00	4,144.66	4,185.59	4,185.08	49.32	14.71	108.97	-4,551.81	2,042.85	5,457.77	5,397.14	60.63	90.023		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,285.17	4,284.65	50.71	15.07	109.64	-4,550.74	2,042.23	5,483.58	5,421.49	62.09	88.317		
5,100.00	4,296.91	4,352.73	4,352.20	52.11	15.30	110.09	-4,549.90	2,042.10	5,509.90	5,446.48	63.42	86.884		
5,200.00	4,373.03	4,415.33	4,414.79	53.51	15.52	110.50	-4,549.28	2,042.06	5,537.03	5,472.32	64.71	85.566		
5,300.00	4,449.16	4,479.79	4,479.25	54.90	15.75	110.92	-4,548.79	2,041.98	5,564.96	5,498.96	66.00	84.319		
5,400.00	4,525.29	4,549.02	4,548.48	56.30	15.99	111.37	-4,548.38	2,041.74	5,593.64	5,526.34	67.29	83.122		
5,500.00	4,601.41	4,629.20	4,628.66	57.70	16.28	111.89	-4,547.94	2,041.14	5,622.97	5,554.35	68.62	81.944		
5,600.00	4,677.54	4,737.63	4,737.07	59.10	16.66	112.60	-4,546.88	2,039.54	5,652.64	5,582.60	70.04	80.702		
5,700.00	4,753.66	4,841.63	4,841.04	60.49	17.04	113.27	-4,545.19	2,037.68	5,682.42	5,610.99	71.43	79.549		
5,800.00	4,829.79	4,922.46	4,921.85	61.89	17.33	113.79	-4,543.65	2,036.22	5,712.61	5,639.89	72.72	78.558		
5,900.00	4,905.92	4,993.81	4,993.17	63.29	17.58	114.25	-4,542.31	2,034.93	5,743.41	5,669.45	73.95	77.662		
6,000.00	4,982.04	5,055.78	5,055.12	64.69	17.80	114.64	-4,541.23	2,033.78	5,774.89	5,699.75	75.14	76.856		
6,100.00	5,058.17	5,117.58	5,116.90	66.09	18.03	115.03	-4,540.30	2,032.57	5,807.14	5,730.83	76.31	76.100		
6,200.00	5,134.30	5,181.57	5,180.87	67.49	18.26	115.44	-4,539.46	2,031.21	5,840.10	5,762.63	77.47	75.381		
6,300.00	5,210.42	5,254.36	5,253.63	68.89	18.52	115.89	-4,538.59	2,029.59	5,873.72	5,795.06	78.66	74.672		
6,400.00	5,286.55	5,336.45	5,335.70	70.29	18.81	116.40	-4,537.59	2,027.80	5,907.87	5,828.00	79.87	73.967		
6,500.00	5,362.67	5,422.36	5,421.58	71.69	19.12	116.93	-4,536.35	2,025.88	5,942.39	5,861.31	81.08	73.287		
6,600.00	5,438.80	5,497.60	5,496.79	73.09	19.39	117.40	-4,535.21	2,024.13	5,977.40	5,895.16	82.24	72.682		
6,700.00	5,514.93	5,568.88	5,568.05	74.49	19.65	117.83	-4,534.17	2,022.60	6,012.96	5,929.59	83.37	72.125		
6,800.00	5,591.05	5,640.69	5,639.84	75.89	19.91	118.26	-4,533.23	2,021.36	6,049.06	5,964.57	84.49	71.597		
6,900.00	5,667.18	5,710.85	5,709.98	77.29	20.16	118.68	-4,532.37	2,020.21	6,085.71	6,000.12	85.59	71.105		
7,000.00	5,743.30	5,772.34	5,771.46	78.69	20.38	119.04	-4,531.76	2,019.36	6,122.97	6,036.33	86.64	70.672		
7,100.00	5,819.43	5,844.98	5,844.10	80.09	20.64	119.46	-4,531.22	2,018.59	6,160.83	6,073.10	87.73	70.227		
7,200.00	5,895.56	5,945.73	5,944.83	81.49	21.00	120.04	-4,530.30	2,017.41	6,199.06	6,110.14	88.92	69.712		
7,300.00	5,971.68	6,000.00	6,000.00	82.90	21.36	120.63	-4,529.46	2,016.22	6,236.88	6,142.31	90.11	69.267		
7,400.00	6,047.81	6,157.94	6,156.98	84.30	21.75	121.24	-4,528.66	2,015.77	6,274.86	6,183.55	91.32	68.716		
7,500.00	6,123.94	6,200.00	6,199.03	85.70	22.16	121.88	-4,527.93	2,014.98	6,313.66	6,221.43	92.53	68.269		
7,600.00	6,200.06	6,261.64	6,260.64	87.10	22.63	122.57	-4,527.28	2,014.24	6,353.17	6,259.97	93.74	67.822		
7,700.00	6,276.19	6,300.00	6,299.99	88.50	23.15	123.31	-4,526.70	2,013.64	6,393.36	6,299.29	94.94	67.375		
7,800.00	6,352.31	6,353.01	6,351.98	89.90	23.72	124.10	-4,526.18	2,013.17	6,434.28	6,339.29	96.14	66.928		
7,900.00	6,428.44	6,548.76	6,547.66	91.31	24.35	124.94	-4,525.72	2,012.82	6,475.38	6,378.87	97.34	66.481		
8,000.00	6,504.57	6,739.40	6,738.23	92.71	25.03	125.82	-4,525.31	2,012.57	6,515.73	6,417.75	98.54	66.034		
8,100.00	6,580.69	6,800.00	6,798.79	94.11	25.76	126.74	-4,524.94	2,012.32	6,555.30	6,456.38	99.74	65.587		
8,200.00	6,656.82	6,842.76	6,841.53	95.51	26.53	127.70	-4,524.61	2,012.07	6,595.57	6,495.81	100.94	65.140		
8,300.00	6,732.95	6,874.06	6,872.82	96.91	27.34	128.70	-4,524.32	2,011.82	6,636.77	6,536.22	102.14	64.693		
8,400.00	6,809.07	6,913.88	6,912.63	98.32	28.19	129.74	-4,524.07	2,011.57	6,678.84	6,577.48	103.34	64.246		
8,500.00	6,885.20	6,994.99	6,993.72	99.72	29.08	130.82	-4,523.85	2,011.32	6,721.40	6,619.07	104.54	63.799		
8,600.00	6,961.32	7,089.62	7,088.32	101.12	29.99	131.94	-4,523.66	2,011.07	6,764.19	6,660.84	105.74	63.352		
8,700.00	7,037.45	7,139.21	7,137.90	102.52	30.94	133.10	-4,523.50	2,010.82	6,807.33	6,703.16	106.94	62.905		
8,732.15	7,061.92	7,153.24	7,151.93	102.97	31.92	134.29	-4,523.46	2,010.57	6,821.35	6,716.92	107.14	62.458		
8,750.00	7,075.57	7,161.04	7,159.73	103.22	32.94	135.50	-4,523.42	2,010.32	6,828.93	6,724.36	107.34	62.011		
8,800.00	7,114.27	7,183.07	7,181.76	103.91	33.99	136.74	-4,523.39	2,010.07	6,847.69	6,742.70	107.54	61.564		
8,850.00	7,153.47	7,200.00	7,198.69	104.58	35.08	138.00	-4,523.37	2,009.82	6,862.73	6,757.35	107.74	61.117		
8,900.00	7,192.85	7,233.23	7,231.91	105.21	36.20	139.29	-4,523.36	2,009.57	6,873.94	6,768.07	107.94	60.670		
8,950.00	7,232.12	7,259.85	7,258.54	105.80	37.35	140.60	-4,523.36	2,009.32	6,881.25	6,774.91	108.14	60.223		
9,000.00	7,270.99	7,286.05	7,284.74	106.35	38.53	141.94	-4,523.36	2,009.07	6,884.62	6,777.82	108.34	59.776		
9,050.00	7,309.16	7,326.06	7,324.73	106.85	39.74	143.30	-4,523.36	2,008.82	6,884.02	6,776.70	108.54	59.329		
9,100.00	7,346.32	7,381.67	7,380.34	107.30	40.98	144.68	-4,523.36	2,008.57	6,879.34	6,771.44	108.74	58.882		
9,150.00	7,382.22	7,421.89	7,420.55	107.69	42.25	146.08	-4,523.36	2,008.32	6,870.64	6,762.24	108.94	58.435		
9,200.00	7,416.56	7,453.52	7,452.18	108.02	43.54	147.50	-4,523.36	2,008.07	6,858.07	6,749.23	109.14	57.988		
9,250.00	7,449.09	7,483.26	7,481.91	108.29	44.85	148.94	-4,523.36	2,007.82	6,841.72	6,732.48	109.34	57.541		
9,300.00	7,479.56	7,500.00	7,498.64	108.51	46.18	150.40	-4,523.36	2,007.57	6,821.75	6,712.18	109.54	57.094		
9,350.00	7,507.74	7,526.21	7,524.85	108.68	47.53	151.88	-4,523.36	2,007.32	6,798.29	6,688.37	109.74	56.647		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,533.41	7,543.16	7,541.79	108.79	26.65	67.61	-4,500.67	2,003.96	6,771.54	6,661.34	110.19	61.452		
9,450.00	7,556.39	7,558.48	7,557.11	108.86	26.70	67.44	-4,500.56	2,003.78	6,741.66	6,631.23	110.44	61.045		
9,500.00	7,576.48	7,572.03	7,570.66	108.88	26.75	67.96	-4,500.50	2,003.66	6,708.88	6,598.23	110.65	60.632		
9,550.00	7,593.55	7,583.68	7,582.31	108.86	26.79	69.23	-4,500.47	2,003.58	6,673.41	6,562.58	110.83	60.214		
9,600.00	7,607.46	7,600.00	7,598.63	108.80	26.85	71.45	-4,500.46	2,003.51	6,635.50	6,524.49	111.01	59.774		
9,650.00	7,618.11	7,602.35	7,600.98	108.71	26.86	74.54	-4,500.46	2,003.50	6,595.40	6,484.29	111.10	59.362		
9,700.00	7,625.41	7,618.89	7,617.52	108.59	26.92	79.14	-4,500.45	2,003.45	6,553.39	6,442.14	111.25	58.906		
9,750.00	7,629.30	7,627.44	7,626.08	108.45	26.95	85.25	-4,500.44	2,003.42	6,509.78	6,398.43	111.35	58.463		
9,781.81	7,630.00	7,628.83	7,627.46	108.35	26.95	90.07	-4,500.44	2,003.42	6,481.34	6,369.96	111.38	58.189		
9,800.00	7,630.00	7,628.73	7,627.36	108.29	26.95	90.07	-4,500.44	2,003.42	6,464.95	6,353.55	111.40	58.034		
9,900.00	7,630.00	7,628.23	7,626.86	107.97	26.95	90.06	-4,500.44	2,003.42	6,375.01	6,263.53	111.48	57.184		
10,000.00	7,630.00	7,627.75	7,626.38	107.67	26.95	90.05	-4,500.44	2,003.42	6,285.37	6,173.80	111.57	56.336		
10,100.00	7,630.00	7,627.30	7,625.93	107.38	26.95	90.04	-4,500.44	2,003.42	6,196.06	6,084.40	111.66	55.490		
10,200.00	7,630.00	7,626.86	7,625.49	107.10	26.94	90.03	-4,500.44	2,003.43	6,107.07	5,995.31	111.76	54.647		
10,300.00	7,630.00	7,626.44	7,625.07	106.84	26.94	90.02	-4,500.44	2,003.43	6,018.43	5,906.57	111.86	53.805		
10,400.00	7,630.00	7,626.04	7,624.67	106.59	26.94	90.01	-4,500.44	2,003.43	5,930.15	5,818.19	111.96	52.967		
10,500.00	7,630.00	7,625.66	7,624.29	106.35	26.94	90.01	-4,500.44	2,003.43	5,842.25	5,730.18	112.07	52.130		
10,600.00	7,630.00	7,625.29	7,623.92	106.13	26.94	90.00	-4,500.44	2,003.43	5,754.74	5,642.56	112.18	51.297		
10,700.00	7,630.00	7,624.94	7,623.57	105.92	26.94	89.99	-4,500.45	2,003.43	5,667.65	5,555.34	112.30	50.467		
10,800.00	7,630.00	7,624.60	7,623.23	105.72	26.94	89.98	-4,500.45	2,003.43	5,580.99	5,468.56	112.43	49.640		
10,900.00	7,630.00	7,624.27	7,622.90	105.54	26.94	89.98	-4,500.45	2,003.44	5,494.78	5,382.22	112.56	48.816		
11,000.00	7,630.00	7,623.96	7,622.59	105.37	26.93	89.97	-4,500.45	2,003.44	5,409.05	5,296.35	112.70	47.996		
11,100.00	7,630.00	7,623.65	7,622.29	105.21	26.93	89.96	-4,500.45	2,003.44	5,323.81	5,210.97	112.84	47.179		
11,200.00	7,630.00	7,623.36	7,621.99	105.06	26.93	89.96	-4,500.45	2,003.44	5,239.10	5,126.11	112.99	46.367		
11,300.00	7,630.00	7,623.08	7,621.71	104.93	26.93	89.95	-4,500.45	2,003.44	5,154.93	5,041.78	113.15	45.559		
11,400.00	7,630.00	7,622.81	7,621.44	104.82	26.93	89.95	-4,500.45	2,003.44	5,071.34	4,958.03	113.31	44.755		
11,500.00	7,630.00	7,622.55	7,621.18	104.72	26.93	89.94	-4,500.45	2,003.44	4,988.36	4,874.87	113.49	43.956		
11,600.00	7,630.00	7,622.29	7,620.93	104.63	26.93	89.94	-4,500.45	2,003.44	4,906.01	4,792.34	113.66	43.162		
11,700.00	7,630.00	7,622.05	7,620.68	104.55	26.93	89.93	-4,500.45	2,003.44	4,824.32	4,710.47	113.85	42.374		
11,800.00	7,630.00	7,621.81	7,620.44	104.50	26.93	89.93	-4,500.45	2,003.44	4,743.34	4,629.29	114.05	41.591		
11,900.00	7,630.00	7,621.58	7,620.21	104.45	26.93	89.92	-4,500.45	2,003.44	4,663.10	4,548.84	114.25	40.814		
12,000.00	7,630.00	7,621.36	7,619.99	104.43	26.93	89.92	-4,500.45	2,003.45	4,583.63	4,469.16	114.47	40.044		
12,100.00	7,630.00	7,621.15	7,619.78	104.42	26.92	89.91	-4,500.45	2,003.45	4,504.98	4,390.29	114.69	39.280		
12,200.00	7,630.00	7,620.94	7,619.57	104.42	26.92	89.91	-4,500.45	2,003.45	4,427.19	4,312.27	114.92	38.524		
12,300.00	7,630.00	7,620.74	7,619.37	104.45	26.92	89.91	-4,500.45	2,003.45	4,350.31	4,235.15	115.16	37.775		
12,400.00	7,630.00	7,620.54	7,619.17	104.49	26.92	89.90	-4,500.45	2,003.45	4,274.39	4,158.97	115.41	37.035		
12,500.00	7,630.00	7,620.35	7,618.98	104.55	26.92	89.90	-4,500.45	2,003.45	4,199.47	4,083.80	115.68	36.304		
12,600.00	7,630.00	7,620.16	7,618.79	104.63	26.92	89.89	-4,500.45	2,003.45	4,125.62	4,009.67	115.95	35.581		
12,700.00	7,630.00	7,619.98	7,618.61	104.73	26.92	89.89	-4,500.45	2,003.45	4,052.89	3,936.66	116.23	34.869		
12,800.00	7,630.00	7,619.81	7,618.44	104.85	26.92	89.89	-4,500.45	2,003.45	3,981.35	3,864.82	116.53	34.167		
12,900.00	7,630.00	7,619.64	7,618.27	104.99	26.92	89.88	-4,500.45	2,003.45	3,911.05	3,794.22	116.83	33.476		
13,000.00	7,630.00	7,619.47	7,618.10	105.15	26.92	89.88	-4,500.45	2,003.45	3,842.07	3,724.92	117.15	32.797		
13,100.00	7,630.00	7,619.31	7,617.94	105.34	26.92	89.88	-4,500.45	2,003.45	3,774.48	3,657.00	117.47	32.131		
13,200.00	7,630.00	7,619.16	7,617.79	105.56	26.92	89.87	-4,500.45	2,003.45	3,708.35	3,590.54	117.81	31.478		
13,300.00	7,630.00	7,619.00	7,617.63	105.80	26.92	89.87	-4,500.45	2,003.45	3,643.77	3,525.61	118.16	30.839		
13,400.00	7,630.00	7,619.13	7,617.77	106.06	26.92	89.87	-4,500.50	2,003.49	3,580.81	3,462.30	118.51	30.214		
13,500.00	7,630.00	7,619.60	7,618.23	106.36	26.92	89.88	-4,500.51	2,003.49	3,519.58	3,400.69	118.89	29.605		
13,600.00	7,630.00	7,620.09	7,618.72	106.68	26.92	89.89	-4,500.51	2,003.49	3,460.14	3,340.88	119.26	29.012		
13,700.00	7,630.00	7,620.59	7,619.22	107.03	26.92	89.90	-4,500.51	2,003.49	3,402.61	3,282.96	119.65	28.438		
13,800.00	7,630.00	7,618.30	7,616.93	107.42	26.91	89.86	-4,500.46	2,003.46	3,347.08	3,227.07	120.01	27.889		
13,900.00	7,630.00	7,618.17	7,616.80	107.83	26.91	89.85	-4,500.46	2,003.46	3,293.65	3,173.25	120.40	27.355		
14,000.00	7,630.00	7,618.04	7,616.67	108.28	26.91	89.85	-4,500.46	2,003.46	3,242.43	3,121.63	120.80	26.842		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,617.91	7,616.55	108.77	26.91	89.85	-4,500.46	2,003.46	3,193.51	3,072.32	121.19	26.351		
14,200.00	7,630.00	7,617.79	7,616.42	109.29	26.91	89.85	-4,500.46	2,003.46	3,147.02	3,025.43	121.58	25.884		
14,300.00	7,630.00	7,617.67	7,616.30	109.84	26.91	89.84	-4,500.46	2,003.46	3,103.05	2,981.08	121.97	25.441		
14,400.00	7,630.00	7,617.56	7,616.19	110.43	26.91	89.84	-4,500.46	2,003.46	3,061.71	2,939.36	122.35	25.023		
14,500.00	7,630.00	7,617.44	7,616.08	111.06	26.91	89.84	-4,500.46	2,003.46	3,023.12	2,900.39	122.73	24.633		
14,600.00	7,630.00	7,617.33	7,615.96	111.72	26.91	89.84	-4,500.46	2,003.46	2,987.38	2,864.29	123.09	24.270		
14,700.00	7,630.00	7,617.22	7,615.86	112.42	26.91	89.83	-4,500.46	2,003.46	2,954.60	2,831.16	123.44	23.936		
14,800.00	7,630.00	7,617.12	7,615.75	113.16	26.91	89.83	-4,500.46	2,003.46	2,924.86	2,801.10	123.77	23.632		
14,900.00	7,630.00	7,617.01	7,615.65	113.94	26.91	89.83	-4,500.46	2,003.46	2,898.28	2,774.20	124.07	23.360		
15,000.00	7,630.00	7,616.91	7,615.54	114.75	26.91	89.83	-4,500.46	2,003.46	2,874.92	2,750.57	124.36	23.119		
15,100.00	7,630.00	7,616.81	7,615.44	115.60	26.91	89.83	-4,500.46	2,003.46	2,854.89	2,730.27	124.61	22.910		
15,200.00	7,630.00	7,616.72	7,615.35	116.48	26.91	89.82	-4,500.46	2,003.46	2,838.23	2,713.39	124.84	22.735		
15,300.00	7,630.00	7,616.62	7,615.25	117.40	26.91	89.82	-4,500.46	2,003.46	2,825.02	2,699.99	125.03	22.595		
15,400.00	7,630.00	7,616.53	7,615.16	118.35	26.91	89.82	-4,500.46	2,003.46	2,815.30	2,690.11	125.19	22.488		
15,500.00	7,630.00	7,616.44	7,615.07	119.34	26.91	89.82	-4,500.46	2,003.46	2,809.11	2,683.80	125.31	22.417		
15,600.00	7,630.00	7,616.35	7,614.98	120.35	26.91	89.82	-4,500.46	2,003.46	2,806.47	2,681.08	125.40	22.381		
15,624.08	7,630.00	7,616.32	7,614.96	120.60	26.91	89.82	-4,500.46	2,003.46	2,806.37	2,680.96	125.41	22.377	CC, ES	
15,700.00	7,630.00	7,616.26	7,614.89	121.40	26.91	89.81	-4,500.46	2,003.46	2,807.40	2,681.95	125.44	22.380		
15,800.00	7,630.00	7,616.17	7,614.80	122.48	26.91	89.81	-4,500.46	2,003.46	2,811.88	2,686.43	125.45	22.414		
15,900.00	7,630.00	7,616.09	7,614.72	123.58	26.91	89.81	-4,500.46	2,003.46	2,819.90	2,694.48	125.42	22.483		
16,000.00	7,630.00	7,616.00	7,614.64	124.71	26.91	89.81	-4,500.46	2,003.46	2,831.44	2,706.08	125.36	22.587		
16,100.00	7,630.00	7,615.92	7,614.55	125.87	26.91	89.81	-4,500.46	2,003.46	2,846.44	2,721.18	125.26	22.725		
16,200.00	7,630.00	7,615.84	7,614.47	127.05	26.91	89.81	-4,500.46	2,003.46	2,864.86	2,739.74	125.12	22.897		
16,300.00	7,630.00	7,615.77	7,614.40	128.26	26.91	89.80	-4,500.46	2,003.46	2,886.62	2,761.67	124.95	23.101		
16,400.00	7,630.00	7,615.69	7,614.32	129.48	26.91	89.80	-4,500.46	2,003.46	2,911.66	2,786.90	124.76	23.338		
16,500.00	7,630.00	7,615.61	7,614.24	130.73	26.90	89.80	-4,500.46	2,003.46	2,939.89	2,815.35	124.54	23.607		
16,600.00	7,630.00	7,615.54	7,614.17	132.00	26.90	89.80	-4,500.46	2,003.46	2,971.22	2,846.93	124.29	23.905		
16,700.00	7,630.00	7,615.47	7,614.10	133.29	26.90	89.80	-4,500.46	2,003.46	3,005.55	2,881.52	124.03	24.233		
16,800.00	7,630.00	7,615.40	7,614.03	134.59	26.90	89.80	-4,500.46	2,003.46	3,042.78	2,919.04	123.74	24.589		
16,900.00	7,630.00	7,615.33	7,613.96	135.91	26.90	89.79	-4,500.46	2,003.46	3,082.81	2,959.36	123.45	24.973		
17,000.00	7,630.00	17,000.00	7,581.20	137.25	60.31	89.13	-4,500.58	2,003.72	3,125.52	2,969.21	156.31	19.995	SF	
17,100.00	7,630.00	17,100.00	7,580.49	138.61	60.67	89.11	-4,500.59	2,003.72	3,170.81	3,014.45	156.35	20.280		
17,200.00	7,630.00	17,200.00	7,579.79	139.97	61.03	89.10	-4,500.59	2,003.73	3,218.57	3,062.18	156.39	20.580		
17,300.00	7,630.00	17,300.00	7,579.09	141.36	61.38	89.08	-4,500.60	2,003.74	3,268.69	3,112.27	156.42	20.896		
17,400.00	7,630.00	17,400.00	7,578.39	142.75	61.74	89.07	-4,500.60	2,003.75	3,321.07	3,164.61	156.46	21.227		
17,500.00	7,630.00	17,500.00	7,577.69	144.16	62.09	89.05	-4,500.61	2,003.76	3,375.60	3,219.11	156.49	21.571		
17,600.00	7,630.00	17,600.00	7,576.99	145.58	62.45	89.04	-4,500.61	2,003.77	3,432.17	3,275.65	156.52	21.928		
17,700.00	7,630.00	17,700.00	7,576.29	147.01	62.81	89.03	-4,500.62	2,003.77	3,490.70	3,334.14	156.56	22.296		
17,800.00	7,630.00	17,800.00	7,575.59	148.45	63.16	89.01	-4,500.62	2,003.78	3,551.07	3,394.47	156.60	22.676		
17,900.00	7,630.00	17,900.00	7,574.89	149.91	63.52	89.00	-4,500.63	2,003.79	3,613.21	3,456.56	156.65	23.066		
18,000.00	7,630.00	18,000.00	7,574.19	151.37	63.87	88.98	-4,500.63	2,003.80	3,677.01	3,520.31	156.70	23.465		
18,100.00	7,630.00	18,100.00	7,573.49	152.84	64.23	88.97	-4,500.64	2,003.81	3,742.40	3,585.64	156.76	23.873		
18,200.00	7,630.00	18,200.00	7,572.79	154.32	64.59	88.95	-4,500.64	2,003.81	3,809.29	3,652.46	156.83	24.289		
18,300.00	7,630.00	7,614.46	7,613.09	155.81	26.90	89.78	-4,500.46	2,003.47	3,877.66	3,758.63	119.03	32.576		
18,400.00	7,630.00	7,614.41	7,613.04	157.31	26.90	89.78	-4,500.46	2,003.47	3,947.34	3,828.58	118.76	33.239		
18,500.00	7,630.00	7,614.35	7,612.98	158.81	26.90	89.78	-4,500.46	2,003.47	4,018.29	3,899.80	118.49	33.913		
18,600.00	7,630.00	7,614.30	7,612.93	160.32	26.90	89.77	-4,500.46	2,003.47	4,090.46	3,972.22	118.23	34.597		
18,700.00	7,630.00	7,614.25	7,612.88	161.84	26.90	89.77	-4,500.46	2,003.47	4,163.77	4,045.79	117.98	35.292		
18,800.00	7,630.00	7,614.20	7,612.83	163.37	26.90	89.77	-4,500.46	2,003.47	4,238.18	4,120.44	117.74	35.996		
18,900.00	7,630.00	7,614.15	7,612.78	164.90	26.90	89.77	-4,500.46	2,003.47	4,313.63	4,196.12	117.51	36.708		
19,000.00	7,630.00	7,614.10	7,612.73	166.43	26.90	89.77	-4,500.46	2,003.47	4,390.05	4,272.76	117.29	37.429		
19,100.00	7,630.00	7,614.05	7,612.68	167.98	26.90	89.77	-4,500.46	2,003.47	4,467.41	4,350.33	117.08	38.158		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	19,200.00	7,565.78	169.53	68.15	88.81	-4,500.69	2,003.90	4,545.56	4,387.56	158.00	28.769	
19,300.00	7,630.00	19,300.00	7,565.08	171.08	68.50	88.80	-4,500.70	2,003.91	4,624.64	4,466.47	158.17	29.239	
19,400.00	7,630.00	19,400.00	7,564.38	172.64	68.86	88.78	-4,500.70	2,003.91	4,704.51	4,546.17	158.34	29.711	
19,500.00	7,630.00	19,500.00	7,563.68	174.21	69.21	88.77	-4,500.71	2,003.92	4,785.14	4,626.62	158.52	30.186	
19,518.56	7,630.00	19,518.56	7,563.55	174.50	69.28	88.77	-4,500.71	2,003.92	4,800.19	4,641.63	158.56	30.274	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	18.00	18.00	0.00	0.14	163.76	-7,180.03	2,091.66	7,478.50					
100.00	100.00	118.00	118.00	0.13	1.09	163.76	-7,180.03	2,091.66	7,478.50	7,477.27	1.23	6,103.607		
200.00	200.00	218.00	218.00	0.49	2.84	163.76	-7,180.03	2,091.66	7,478.50	7,475.17	3.33	2,246.430		
300.00	300.00	318.00	318.00	0.85	4.58	163.76	-7,180.03	2,091.66	7,478.50	7,473.06	5.43	1,376.530		
400.00	400.00	418.00	418.00	1.21	6.33	163.76	-7,180.03	2,091.66	7,478.50	7,470.96	7.54	992.283		
500.00	499.98	517.98	517.98	1.56	8.07	97.04	-7,180.03	2,091.66	7,478.71	7,469.08	9.64	776.141		
600.00	599.84	617.84	617.84	1.92	9.81	97.07	-7,180.03	2,091.66	7,479.36	7,467.62	11.73	637.422		
700.00	699.45	717.45	717.45	2.29	11.55	97.11	-7,180.03	2,091.66	7,480.44	7,466.60	13.84	540.583		
800.00	798.70	816.70	816.70	2.67	13.29	97.18	-7,180.03	2,091.66	7,481.96	7,466.01	15.95	469.072		
900.00	897.47	915.47	915.47	3.07	15.01	97.25	-7,180.03	2,091.66	7,483.95	7,465.88	18.08	414.028		
1,000.00	995.62	1,013.62	1,013.62	3.50	16.72	97.35	-7,180.03	2,091.66	7,486.42	7,466.20	20.22	370.290		
1,100.00	1,093.06	1,111.06	1,111.06	3.96	18.42	97.45	-7,180.03	2,091.66	7,489.39	7,467.01	22.38	334.651		
1,200.00	1,189.64	1,207.64	1,207.64	4.46	20.11	97.57	-7,180.03	2,091.66	7,492.90	7,468.33	24.57	305.018		
1,300.00	1,285.27	1,303.27	1,303.27	5.00	21.78	97.71	-7,180.03	2,091.66	7,496.96	7,470.18	26.78	279.969		
1,400.00	1,379.82	1,402.18	1,397.82	5.60	23.50	97.85	-7,180.03	2,091.66	7,501.61	7,472.52	29.10	257.824		
1,500.00	1,473.17	1,508.83	1,491.17	6.25	25.37	98.00	-7,180.03	2,091.66	7,506.90	7,475.30	31.60	237.552		
1,600.00	1,565.21	1,583.21	1,583.21	6.95	26.66	98.15	-7,180.03	2,091.66	7,512.85	7,479.25	33.60	223.604		
1,700.00	1,655.84	1,673.84	1,673.84	7.72	28.25	98.31	-7,180.03	2,091.66	7,519.51	7,483.57	35.94	209.228		
1,800.00	1,744.94	1,762.94	1,762.94	8.55	29.80	98.47	-7,180.03	2,091.66	7,526.92	7,488.61	38.31	196.453		
1,900.00	1,832.39	1,850.39	1,850.39	9.45	31.33	98.62	-7,180.03	2,091.66	7,535.13	7,494.41	40.72	185.030		
2,000.00	1,918.11	1,936.11	1,936.11	10.41	32.82	98.78	-7,180.03	2,091.66	7,544.18	7,501.02	43.17	174.763		
2,100.00	2,001.97	2,019.97	2,019.97	11.45	34.29	98.92	-7,180.03	2,091.66	7,554.13	7,508.48	45.65	165.494		
2,200.00	2,083.88	2,101.88	2,101.88	12.56	35.72	99.06	-7,180.03	2,091.66	7,565.01	7,516.85	48.16	157.093		
2,300.00	2,163.74	2,181.74	2,181.74	13.74	37.11	99.19	-7,180.03	2,091.66	7,576.88	7,526.18	50.70	149.452		
2,400.00	2,241.45	2,259.45	2,259.45	14.99	38.47	99.30	-7,180.03	2,091.66	7,589.78	7,536.51	53.27	142.482		
2,421.22	2,257.65	2,275.65	2,275.65	15.26	38.75	99.32	-7,180.03	2,091.66	7,592.65	7,538.83	53.82	141.085		
2,500.00	2,317.63	2,335.63	2,335.63	16.29	39.80	99.61	-7,180.03	2,091.66	7,603.58	7,547.72	55.86	136.120		
2,600.00	2,393.75	2,411.75	2,411.75	17.62	41.12	99.98	-7,180.03	2,091.66	7,617.92	7,559.46	58.46	130.306		
2,700.00	2,469.88	2,487.88	2,487.88	18.95	42.45	100.35	-7,180.03	2,091.66	7,632.78	7,571.71	61.07	124.983		
2,800.00	2,546.01	2,564.01	2,564.01	20.30	43.78	100.72	-7,180.03	2,091.66	7,648.17	7,584.49	63.68	120.098		
2,900.00	2,622.13	2,640.13	2,640.13	21.65	45.11	101.08	-7,180.03	2,091.66	7,664.07	7,597.78	66.30	115.602		
3,000.00	2,698.26	2,716.26	2,716.26	23.01	46.44	101.45	-7,180.03	2,091.66	7,680.49	7,611.58	68.91	111.455		
3,100.00	2,774.38	2,807.62	2,792.38	24.37	48.03	101.82	-7,180.03	2,091.66	7,697.42	7,625.63	71.79	107.220		
3,200.00	2,850.51	2,868.51	2,868.51	25.74	49.10	102.18	-7,180.03	2,091.66	7,714.86	7,640.72	74.14	104.063		
3,300.00	2,926.64	2,944.64	2,944.64	27.11	50.42	102.55	-7,180.03	2,091.66	7,732.80	7,656.06	76.74	100.760		
3,400.00	3,002.76	3,020.76	3,020.76	28.49	51.75	102.91	-7,180.03	2,091.66	7,751.24	7,671.89	79.35	97.684		
3,500.00	3,078.89	3,103.11	3,096.89	29.87	53.19	103.27	-7,180.03	2,091.66	7,770.18	7,688.12	82.06	94.689		
3,600.00	3,155.02	3,173.02	3,173.02	31.25	54.41	103.63	-7,180.03	2,091.66	7,789.62	7,705.07	84.55	92.133		
3,700.00	3,231.14	3,249.14	3,249.14	32.63	55.74	103.99	-7,180.03	2,091.66	7,809.54	7,722.40	87.14	89.621		
3,800.00	3,307.27	3,325.27	3,325.27	34.01	57.07	104.35	-7,180.03	2,091.66	7,829.95	7,740.23	89.73	87.266		
3,900.00	3,383.39	3,401.39	3,401.39	35.40	58.40	104.70	-7,180.03	2,091.66	7,850.85	7,758.54	92.31	85.052		
4,000.00	3,459.52	3,477.52	3,477.52	36.79	59.73	105.06	-7,180.03	2,091.66	7,872.22	7,777.34	94.88	82.970		
4,100.00	3,535.65	3,553.65	3,553.65	38.18	61.05	105.41	-7,180.03	2,091.66	7,894.06	7,796.62	97.45	81.008		
4,200.00	3,611.77	3,629.77	3,629.77	39.57	62.38	105.77	-7,180.03	2,091.66	7,916.38	7,816.37	100.01	79.157		
4,300.00	3,687.90	3,705.90	3,705.90	40.96	63.71	106.12	-7,180.03	2,091.66	7,939.17	7,836.60	102.56	77.407		
4,400.00	3,764.02	3,782.02	3,782.02	42.35	65.04	106.47	-7,180.03	2,091.66	7,962.41	7,857.30	105.11	75.752		
4,500.00	3,840.15	3,858.15	3,858.15	43.74	66.37	106.82	-7,180.03	2,091.66	7,986.12	7,878.47	107.65	74.185		
4,600.00	3,916.28	3,934.28	3,934.28	45.13	67.70	107.17	-7,180.03	2,091.66	8,010.28	7,900.10	110.18	72.699		
4,700.00	3,992.40	4,010.40	4,010.40	46.53	69.03	107.52	-7,180.03	2,091.66	8,034.89	7,922.18	112.71	71.289		
4,800.00	4,068.53	4,086.53	4,086.53	47.92	70.35	107.86	-7,180.03	2,091.66	8,059.95	7,944.72	115.23	69.949		
4,900.00	4,144.66	4,162.66	4,162.66	49.32	71.68	108.21	-7,180.03	2,091.66	8,085.45	7,967.71	117.74	68.674		
5,000.00	4,220.78	4,238.78	4,238.78	50.71	73.01	108.55	-7,180.03	2,091.66	8,111.39	7,991.15	120.24	67.461		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,314.91	4,314.91	52.11	74.34	108.89	-7,180.03	2,091.66	8,137.76	8,015.03	122.73	66.305		
5,200.00	4,373.03	4,408.97	4,391.03	53.51	75.98	109.23	-7,180.03	2,091.66	8,164.56	8,039.03	125.53	65.040		
5,300.00	4,449.16	4,467.16	4,467.16	54.90	77.00	109.57	-7,180.03	2,091.66	8,191.79	8,064.10	127.70	64.151		
5,400.00	4,525.29	4,543.29	4,543.29	56.30	78.33	109.91	-7,180.03	2,091.66	8,219.44	8,089.28	130.17	63.146		
5,500.00	4,601.41	4,619.41	4,619.41	57.70	79.66	110.25	-7,180.03	2,091.66	8,247.51	8,114.88	132.63	62.186		
5,600.00	4,677.54	4,704.46	4,695.54	59.10	81.14	110.58	-7,180.03	2,091.66	8,275.99	8,140.75	135.24	61.197		
5,700.00	4,753.66	4,771.66	4,771.66	60.49	82.31	110.91	-7,180.03	2,091.66	8,304.88	8,167.35	137.52	60.389		
5,800.00	4,829.79	4,847.79	4,847.79	61.89	83.64	111.25	-7,180.03	2,091.66	8,334.17	8,194.21	139.96	59.547		
5,900.00	4,905.92	4,923.92	4,923.92	63.29	84.97	111.58	-7,180.03	2,091.66	8,363.86	8,221.47	142.39	58.740		
6,000.00	4,982.04	5,000.04	5,000.04	64.69	86.30	111.90	-7,180.03	2,091.66	8,393.95	8,249.14	144.81	57.967		
6,100.00	5,058.17	5,076.17	5,076.17	66.09	87.63	112.23	-7,180.03	2,091.66	8,424.43	8,277.21	147.22	57.224		
6,200.00	5,134.30	5,152.30	5,152.30	67.49	88.96	112.56	-7,180.03	2,091.66	8,455.30	8,305.68	149.62	56.512		
6,300.00	5,210.42	5,228.42	5,228.42	68.89	90.28	112.88	-7,180.03	2,091.66	8,486.55	8,334.54	152.01	55.828		
6,400.00	5,286.55	5,304.55	5,304.55	70.29	91.61	113.20	-7,180.03	2,091.66	8,518.18	8,363.78	154.40	55.170		
6,500.00	5,362.67	5,380.67	5,380.67	71.69	92.94	113.53	-7,180.03	2,091.66	8,550.18	8,393.41	156.77	54.538		
6,600.00	5,438.80	5,456.80	5,456.80	73.09	94.27	113.85	-7,180.03	2,091.66	8,582.56	8,423.42	159.14	53.930		
6,700.00	5,514.93	5,532.93	5,532.93	74.49	95.60	114.16	-7,180.03	2,091.66	8,615.30	8,453.80	161.50	53.345		
6,800.00	5,591.05	5,609.05	5,609.05	75.89	96.93	114.48	-7,180.03	2,091.66	8,648.40	8,484.55	163.85	52.781		
6,900.00	5,667.18	5,685.18	5,685.18	77.29	98.26	114.79	-7,180.03	2,091.66	8,681.87	8,515.67	166.20	52.238		
7,000.00	5,743.30	5,761.30	5,761.30	78.69	99.59	115.11	-7,180.03	2,091.66	8,715.68	8,547.15	168.53	51.716		
7,100.00	5,819.43	5,837.43	5,837.43	80.09	100.91	115.42	-7,180.03	2,091.66	8,749.85	8,578.99	170.86	51.211		
7,200.00	5,895.56	5,913.56	5,913.56	81.49	102.24	115.73	-7,180.03	2,091.66	8,784.36	8,611.19	173.18	50.725		
7,300.00	5,971.68	5,989.68	5,989.68	82.90	103.57	116.04	-7,180.03	2,091.66	8,819.21	8,643.73	175.48	50.256		
7,400.00	6,047.81	6,065.81	6,065.81	84.30	104.90	116.34	-7,180.03	2,091.66	8,854.40	8,676.62	177.79	49.804		
7,500.00	6,123.94	6,141.94	6,141.94	85.70	106.23	116.65	-7,180.03	2,091.66	8,889.93	8,709.85	180.08	49.367		
7,600.00	6,200.06	6,218.06	6,218.06	87.10	107.56	116.95	-7,180.03	2,091.66	8,925.78	8,743.42	182.36	48.945		
7,700.00	6,276.19	6,305.81	6,294.19	88.50	109.09	117.26	-7,180.03	2,091.66	8,961.96	8,777.12	184.84	48.484		
7,800.00	6,352.31	6,370.31	6,370.31	89.90	110.21	117.56	-7,180.03	2,091.66	8,998.47	8,811.56	186.91	48.144		
7,900.00	6,428.44	6,446.44	6,446.44	91.31	111.54	117.85	-7,180.03	2,091.66	9,035.29	8,846.12	189.17	47.763		
8,000.00	6,504.57	6,522.57	6,522.57	92.71	112.87	118.15	-7,180.03	2,091.66	9,072.42	8,881.00	191.42	47.395		
8,100.00	6,580.69	6,601.31	6,598.69	94.11	114.25	118.45	-7,180.03	2,091.66	9,109.86	8,916.15	193.71	47.028		
8,200.00	6,656.82	6,674.82	6,674.82	95.51	115.53	118.74	-7,180.03	2,091.66	9,147.62	8,951.71	195.90	46.695		
8,300.00	6,732.95	6,750.95	6,750.95	96.91	116.86	119.03	-7,180.03	2,091.66	9,185.67	8,987.54	198.13	46.361		
8,400.00	6,809.07	6,827.07	6,827.07	98.32	118.19	119.32	-7,180.03	2,091.66	9,224.02	9,023.67	200.35	46.039		
8,500.00	6,885.20	6,903.20	6,903.20	99.72	119.51	119.61	-7,180.03	2,091.66	9,262.67	9,060.10	202.57	45.726		
8,600.00	6,961.32	6,979.32	6,979.32	101.12	120.84	119.90	-7,180.03	2,091.66	9,301.61	9,096.83	204.77	45.424		
8,700.00	7,037.45	7,055.45	7,055.45	102.52	122.17	120.18	-7,180.03	2,091.66	9,340.83	9,133.86	206.97	45.131		
8,732.15	7,061.92	7,079.92	7,079.92	102.97	122.60	120.28	-7,180.03	2,091.66	9,353.51	9,145.83	207.68	45.039		
8,750.00	7,075.57	7,106.43	7,093.57	103.22	123.06	118.16	-7,180.03	2,091.66	9,360.30	9,152.01	208.30	44.938		
8,800.00	7,114.27	7,132.27	7,132.27	103.91	123.51	112.00	-7,180.03	2,091.66	9,376.68	9,167.48	209.20	44.822		
8,850.00	7,153.47	7,171.47	7,171.47	104.58	124.20	105.63	-7,180.03	2,091.66	9,389.05	9,178.70	210.35	44.635		
8,900.00	7,192.85	7,210.85	7,210.85	105.21	124.88	99.21	-7,180.03	2,091.66	9,397.33	9,185.81	211.52	44.427		
8,950.00	7,232.12	7,250.12	7,250.12	105.80	125.57	92.96	-7,180.03	2,091.66	9,401.47	9,188.77	212.70	44.201		
9,000.00	7,270.99	7,288.99	7,288.99	106.35	126.25	87.07	-7,180.03	2,091.66	9,401.44	9,187.58	213.86	44.960		
9,050.00	7,309.16	7,327.16	7,327.16	106.85	126.91	81.67	-7,180.03	2,091.66	9,397.26	9,182.25	215.01	43.706		
9,100.00	7,346.32	7,364.32	7,364.32	107.30	127.56	76.88	-7,180.03	2,091.66	9,388.95	9,172.82	216.13	43.442		
9,150.00	7,382.22	7,400.22	7,400.22	107.69	128.19	72.75	-7,180.03	2,091.66	9,376.59	9,159.38	217.20	43.170		
9,200.00	7,416.56	7,434.56	7,434.56	108.02	128.79	68.28	-7,180.03	2,091.66	9,360.26	9,142.03	218.23	42.892		
9,250.00	7,449.09	7,467.09	7,467.09	108.29	129.36	66.48	-7,180.03	2,091.66	9,340.10	9,120.90	219.20	42.610		
9,300.00	7,479.56	7,502.44	7,497.56	108.51	129.97	64.32	-7,180.03	2,091.66	9,316.25	9,096.06	220.19	42.310		
9,350.00	7,507.74	7,525.74	7,525.74	108.68	130.38	62.79	-7,180.03	2,091.66	9,288.88	9,067.94	220.94	42.043		
9,400.00	7,533.41	7,551.41	7,551.41	108.79	130.83	61.89	-7,180.03	2,091.66	9,258.20	9,036.50	221.70	41.760		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,450.00	7,556.39	7,574.39	7,574.39	108.86	131.23	61.65	-7,180.03	2,091.66	9,224.43	9,002.05	222.38	41.481		
9,500.00	7,576.48	7,605.52	7,594.48	108.88	131.77	62.13	-7,180.03	2,091.66	9,187.81	8,964.64	223.17	41.170		
9,550.00	7,593.55	7,611.55	7,611.55	108.86	131.88	63.43	-7,180.03	2,091.66	9,148.61	8,925.12	223.49	40.935		
9,600.00	7,607.46	7,625.46	7,625.46	108.80	132.12	65.75	-7,180.03	2,091.66	9,107.11	8,883.20	223.92	40.672		
9,650.00	7,618.11	7,636.11	7,636.11	108.71	132.31	69.39	-7,180.03	2,091.66	9,063.62	8,839.37	224.26	40.416		
9,700.00	7,625.41	7,643.41	7,643.41	108.59	132.43	74.86	-7,180.03	2,091.66	9,018.46	8,793.94	224.52	40.168		
9,750.00	7,629.30	7,647.30	7,647.30	108.45	132.50	82.97	-7,180.03	2,091.66	8,971.94	8,747.25	224.69	39.930		
9,781.81	7,630.00	7,648.00	7,648.00	108.35	132.51	90.00	-7,180.03	2,091.66	8,941.81	8,717.04	224.76	39.783		
9,800.00	7,630.00	7,648.00	7,648.00	108.29	132.51	90.00	-7,180.03	2,091.66	8,924.47	8,699.67	224.79	39.701		
9,900.00	7,630.00	7,648.00	7,648.00	107.97	132.51	90.00	-7,180.03	2,091.66	8,829.24	8,604.27	224.96	39.247		
10,000.00	7,630.00	7,648.00	7,648.00	107.67	132.51	90.00	-7,180.03	2,091.66	8,734.12	8,508.98	225.14	38.794		
10,100.00	7,630.00	7,648.00	7,648.00	107.38	132.51	90.00	-7,180.03	2,091.66	8,639.10	8,413.78	225.32	38.341		
10,200.00	7,630.00	7,648.00	7,648.00	107.10	132.51	90.00	-7,180.03	2,091.66	8,544.21	8,318.70	225.51	37.889		
10,300.00	7,630.00	7,648.00	7,648.00	106.84	132.51	90.00	-7,180.03	2,091.66	8,449.42	8,223.73	225.70	37.437		
10,400.00	7,630.00	7,648.00	7,648.00	106.59	132.51	90.00	-7,180.03	2,091.66	8,354.77	8,128.87	225.89	36.985		
10,500.00	7,630.00	7,648.00	7,648.00	106.35	132.51	90.00	-7,180.03	2,091.66	8,260.23	8,034.14	226.10	36.534		
10,600.00	7,630.00	7,648.00	7,648.00	106.13	132.51	90.00	-7,180.03	2,091.66	8,165.83	7,939.52	226.31	36.083		
10,700.00	7,630.00	7,648.00	7,648.00	105.92	132.51	90.00	-7,180.03	2,091.66	8,071.56	7,845.04	226.52	35.633		
10,800.00	7,630.00	7,648.00	7,648.00	105.72	132.51	90.00	-7,180.03	2,091.66	7,977.43	7,750.69	226.74	35.183		
10,900.00	7,630.00	7,648.00	7,648.00	105.54	132.51	90.00	-7,180.03	2,091.66	7,883.45	7,656.48	226.97	34.733		
11,000.00	7,630.00	7,648.00	7,648.00	105.37	132.51	90.00	-7,180.03	2,091.66	7,789.61	7,562.41	227.21	34.284		
11,100.00	7,630.00	7,648.00	7,648.00	105.21	132.51	90.00	-7,180.03	2,091.66	7,695.94	7,468.48	227.45	33.835		
11,200.00	7,630.00	7,648.00	7,648.00	105.06	132.51	90.00	-7,180.03	2,091.66	7,602.42	7,374.72	227.70	33.387		
11,300.00	7,630.00	7,648.00	7,648.00	104.93	132.51	90.00	-7,180.03	2,091.66	7,509.07	7,281.11	227.96	32.940		
11,400.00	7,630.00	7,648.00	7,648.00	104.82	132.51	90.00	-7,180.03	2,091.66	7,415.89	7,187.66	228.23	32.493		
11,500.00	7,630.00	7,648.00	7,648.00	104.72	132.51	90.00	-7,180.03	2,091.66	7,322.89	7,094.39	228.50	32.047		
11,600.00	7,630.00	7,648.00	7,648.00	104.63	132.51	90.00	-7,180.03	2,091.66	7,230.08	7,001.29	228.79	31.602		
11,700.00	7,630.00	7,648.00	7,648.00	104.55	132.51	90.00	-7,180.03	2,091.66	7,137.47	6,908.38	229.08	31.157		
11,800.00	7,630.00	7,648.00	7,648.00	104.50	132.51	90.00	-7,180.03	2,091.66	7,045.05	6,815.67	229.38	30.713		
11,900.00	7,630.00	7,648.00	7,648.00	104.45	132.51	90.00	-7,180.03	2,091.66	6,952.85	6,723.15	229.70	30.270		
12,000.00	7,630.00	7,648.00	7,648.00	104.43	132.51	90.00	-7,180.03	2,091.66	6,860.86	6,630.84	230.02	29.827		
12,100.00	7,630.00	7,648.00	7,648.00	104.42	132.51	90.00	-7,180.03	2,091.66	6,769.10	6,538.75	230.35	29.386		
12,200.00	7,630.00	7,648.00	7,648.00	104.42	132.51	90.00	-7,180.03	2,091.66	6,677.58	6,446.89	230.70	28.945		
12,300.00	7,630.00	7,648.00	7,648.00	104.45	132.51	90.00	-7,180.03	2,091.66	6,586.31	6,355.25	231.05	28.506		
12,400.00	7,630.00	7,648.00	7,648.00	104.49	132.51	90.00	-7,180.03	2,091.66	6,495.29	6,263.87	231.42	28.067		
12,500.00	7,630.00	7,648.00	7,648.00	104.55	132.51	90.00	-7,180.03	2,091.66	6,404.54	6,172.74	231.80	27.630		
12,600.00	7,630.00	7,648.00	7,648.00	104.63	132.51	90.00	-7,180.03	2,091.66	6,314.06	6,081.88	232.19	27.194		
12,700.00	7,630.00	7,648.00	7,648.00	104.73	132.51	90.00	-7,180.03	2,091.66	6,223.88	5,991.29	232.59	26.759		
12,800.00	7,630.00	7,648.00	7,648.00	104.85	132.51	90.00	-7,180.03	2,091.66	6,134.01	5,901.00	233.01	26.325		
12,900.00	7,630.00	7,648.00	7,648.00	104.99	132.51	90.00	-7,180.03	2,091.66	6,044.45	5,811.01	233.45	25.892		
13,000.00	7,630.00	7,648.00	7,648.00	105.15	132.51	90.00	-7,180.03	2,091.66	5,955.23	5,721.33	233.89	25.461		
13,100.00	7,630.00	7,648.00	7,648.00	105.34	132.51	90.00	-7,180.03	2,091.66	5,866.35	5,631.99	234.36	25.032		
13,200.00	7,630.00	7,648.00	7,648.00	105.56	132.51	90.00	-7,180.03	2,091.66	5,777.84	5,543.00	234.83	24.604		
13,300.00	7,630.00	7,648.00	7,648.00	105.80	132.51	90.00	-7,180.03	2,091.66	5,689.70	5,454.37	235.33	24.178		
13,400.00	7,630.00	7,648.00	7,648.00	106.06	132.51	90.00	-7,180.03	2,091.66	5,601.97	5,366.13	235.84	23.753		
13,500.00	7,630.00	7,648.00	7,648.00	106.36	132.51	90.00	-7,180.03	2,091.66	5,514.65	5,278.28	236.37	23.330		
13,600.00	7,630.00	7,648.00	7,648.00	106.68	132.51	90.00	-7,180.03	2,091.66	5,427.77	5,190.85	236.92	22.910		
13,700.00	7,630.00	7,648.00	7,648.00	107.03	132.51	90.00	-7,180.03	2,091.66	5,341.35	5,103.87	237.49	22.491		
13,800.00	7,630.00	7,648.00	7,648.00	107.42	132.51	90.00	-7,180.03	2,091.66	5,255.42	5,017.34	238.07	22.075		
13,900.00	7,630.00	7,648.00	7,648.00	107.83	132.51	90.00	-7,180.03	2,091.66	5,169.98	4,931.30	238.68	21.661		
14,000.00	7,630.00	7,648.00	7,648.00	108.28	132.51	90.00	-7,180.03	2,091.66	5,085.08	4,845.77	239.31	21.249		
14,100.00	7,630.00	7,648.00	7,648.00	108.77	132.51	90.00	-7,180.03	2,091.66	5,000.74	4,760.78	239.96	20.840		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,630.00	7,648.00	7,648.00	109.29	132.51	90.00	-7,180.03	2,091.66	4,916.98	4,676.35	240.63	20.434		
14,300.00	7,630.00	7,648.00	7,648.00	109.84	132.51	90.00	-7,180.03	2,091.66	4,833.84	4,592.52	241.33	20.030		
14,400.00	7,630.00	7,648.00	7,648.00	110.43	132.51	90.00	-7,180.03	2,091.66	4,751.36	4,509.31	242.05	19.630		
14,500.00	7,630.00	7,648.00	7,648.00	111.06	132.51	90.00	-7,180.03	2,091.66	4,669.55	4,426.76	242.79	19.233		
14,600.00	7,630.00	7,648.00	7,648.00	111.72	132.51	90.00	-7,180.03	2,091.66	4,588.47	4,344.91	243.55	18.840		
14,700.00	7,630.00	7,648.00	7,648.00	112.42	132.51	90.00	-7,180.03	2,091.66	4,508.15	4,263.80	244.35	18.450		
14,800.00	7,630.00	7,648.00	7,648.00	113.16	132.51	90.00	-7,180.03	2,091.66	4,428.62	4,183.46	245.17	18.064		
14,900.00	7,630.00	7,648.00	7,648.00	113.94	132.51	90.00	-7,180.03	2,091.66	4,349.95	4,103.94	246.01	17.682		
15,000.00	7,630.00	7,648.00	7,648.00	114.75	132.51	90.00	-7,180.03	2,091.66	4,272.16	4,025.28	246.88	17.305		
15,100.00	7,630.00	7,648.00	7,648.00	115.60	132.51	90.00	-7,180.03	2,091.66	4,195.32	3,947.54	247.78	16.932		
15,200.00	7,630.00	7,648.00	7,648.00	116.48	132.51	90.00	-7,180.03	2,091.66	4,119.47	3,870.77	248.70	16.564		
15,300.00	7,630.00	7,648.00	7,648.00	117.40	132.51	90.00	-7,180.03	2,091.66	4,044.67	3,795.02	249.65	16.201		
15,400.00	7,630.00	7,648.00	7,648.00	118.35	132.51	90.00	-7,180.03	2,091.66	3,970.98	3,720.36	250.62	15.844		
15,500.00	7,630.00	7,648.00	7,648.00	119.34	132.51	90.00	-7,180.03	2,091.66	3,898.47	3,646.84	251.63	15.493		
15,600.00	7,630.00	7,648.00	7,648.00	120.35	132.51	90.00	-7,180.03	2,091.66	3,827.19	3,574.54	252.65	15.148		
15,700.00	7,630.00	7,648.00	7,648.00	121.40	132.51	90.00	-7,180.03	2,091.66	3,757.22	3,503.52	253.70	14.810		
15,800.00	7,630.00	7,648.00	7,648.00	122.48	132.51	90.00	-7,180.03	2,091.66	3,688.64	3,433.86	254.77	14.478		
15,900.00	7,630.00	7,648.00	7,648.00	123.58	132.51	90.00	-7,180.03	2,091.66	3,621.51	3,365.65	255.86	14.154		
16,000.00	7,630.00	7,648.00	7,648.00	124.71	132.51	90.00	-7,180.03	2,091.66	3,555.94	3,298.96	256.97	13.838		
16,100.00	7,630.00	7,648.00	7,648.00	125.87	132.51	90.00	-7,180.03	2,091.66	3,491.99	3,233.89	258.10	13.530		
16,200.00	7,630.00	7,648.00	7,648.00	127.05	132.51	90.00	-7,180.03	2,091.66	3,429.78	3,170.54	259.24	13.230		
16,300.00	7,630.00	7,648.00	7,648.00	128.26	132.51	90.00	-7,180.03	2,091.66	3,369.38	3,108.99	260.39	12.940		
16,400.00	7,630.00	7,648.00	7,648.00	129.48	132.51	90.00	-7,180.03	2,091.66	3,310.89	3,049.36	261.54	12.659		
16,500.00	7,630.00	7,648.00	7,648.00	130.73	132.51	90.00	-7,180.03	2,091.66	3,254.44	2,991.75	262.69	12.389		
16,600.00	7,630.00	7,648.00	7,648.00	132.00	132.51	90.00	-7,180.03	2,091.66	3,200.11	2,936.28	263.83	12.129		
16,700.00	7,630.00	7,648.00	7,648.00	133.29	132.51	90.00	-7,180.03	2,091.66	3,148.02	2,883.05	264.96	11.881		
16,800.00	7,630.00	7,648.00	7,648.00	134.59	132.51	90.00	-7,180.03	2,091.66	3,098.28	2,832.20	266.08	11.644		
16,900.00	7,630.00	7,648.00	7,648.00	135.91	132.51	90.00	-7,180.03	2,091.66	3,051.01	2,783.85	267.16	11.420		
17,000.00	7,630.00	7,648.00	7,648.00	137.25	132.51	90.00	-7,180.03	2,091.66	3,006.33	2,738.11	268.22	11.209		
17,100.00	7,630.00	7,648.00	7,648.00	138.61	132.51	90.00	-7,180.03	2,091.66	2,964.35	2,695.12	269.22	11.011		
17,200.00	7,630.00	7,648.00	7,648.00	139.97	132.51	90.00	-7,180.03	2,091.66	2,925.18	2,655.00	270.18	10.827		
17,300.00	7,630.00	7,648.00	7,648.00	141.36	132.51	90.00	-7,180.03	2,091.66	2,888.95	2,617.87	271.07	10.657		
17,400.00	7,630.00	7,648.00	7,648.00	142.75	132.51	90.00	-7,180.03	2,091.66	2,855.76	2,583.86	271.90	10.503		
17,500.00	7,630.00	7,648.00	7,648.00	144.16	132.51	90.00	-7,180.03	2,091.66	2,825.72	2,553.08	272.64	10.364		
17,600.00	7,630.00	7,648.00	7,648.00	145.58	132.51	90.00	-7,180.03	2,091.66	2,798.93	2,525.64	273.29	10.242		
17,700.00	7,630.00	7,648.00	7,648.00	147.01	132.51	90.00	-7,180.03	2,091.66	2,775.49	2,501.65	273.84	10.135		
17,800.00	7,630.00	7,648.00	7,648.00	148.45	132.51	90.00	-7,180.03	2,091.66	2,755.48	2,481.19	274.29	10.046		
17,900.00	7,630.00	7,648.00	7,648.00	149.91	132.51	90.00	-7,180.03	2,091.66	2,738.98	2,464.36	274.62	9.974		
18,000.00	7,630.00	7,648.00	7,648.00	151.37	132.51	90.00	-7,180.03	2,091.66	2,726.05	2,451.21	274.83	9.919		
18,100.00	7,630.00	7,648.00	7,648.00	152.84	132.51	90.00	-7,180.03	2,091.66	2,716.74	2,441.82	274.92	9.882		
18,200.00	7,630.00	7,648.00	7,648.00	154.32	132.51	90.00	-7,180.03	2,091.66	2,711.09	2,436.21	274.88	9.863		
18,300.00	7,630.00	7,648.00	7,648.00	155.81	132.51	90.00	-7,180.03	2,091.66	2,709.12	2,434.41	274.71	9.862 ES, SF		
18,303.34	7,630.00	7,648.00	7,648.00	155.86	132.51	90.00	-7,180.03	2,091.66	2,709.12	2,434.41	274.71	9.862 CC		
18,400.00	7,630.00	7,648.00	7,648.00	157.31	132.51	90.00	-7,180.03	2,091.66	2,710.84	2,436.42	274.42	9.879		
18,500.00	7,630.00	7,648.00	7,648.00	158.81	132.51	90.00	-7,180.03	2,091.66	2,716.25	2,442.25	274.00	9.913		
18,600.00	7,630.00	7,648.00	7,648.00	160.32	132.51	90.00	-7,180.03	2,091.66	2,725.31	2,451.86	273.45	9.966		
18,700.00	7,630.00	7,648.00	7,648.00	161.84	132.51	90.00	-7,180.03	2,091.66	2,738.00	2,465.21	272.79	10.037		
18,800.00	7,630.00	7,648.00	7,648.00	163.37	132.51	90.00	-7,180.03	2,091.66	2,754.27	2,482.25	272.02	10.125		
18,900.00	7,630.00	7,648.00	7,648.00	164.90	132.51	90.00	-7,180.03	2,091.66	2,774.04	2,502.89	271.15	10.231		
19,000.00	7,630.00	7,648.00	7,648.00	166.43	132.51	90.00	-7,180.03	2,091.66	2,797.26	2,527.07	270.19	10.353		
19,100.00	7,630.00	7,648.00	7,648.00	167.98	132.51	90.00	-7,180.03	2,091.66	2,823.82	2,554.69	269.14	10.492		
19,200.00	7,630.00	7,648.00	7,648.00	169.53	132.51	90.00	-7,180.03	2,091.66	2,853.65	2,585.63	268.02	10.647		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	7,648.00	7,648.00	171.08	132.51	90.00	-7,180.03	2,091.66	2,886.63	2,619.79	266.84	10.818	
19,400.00	7,630.00	7,648.00	7,648.00	172.64	132.51	90.00	-7,180.03	2,091.66	2,922.67	2,657.06	265.61	11.004	
19,500.00	7,630.00	7,648.00	7,648.00	174.21	132.51	90.00	-7,180.03	2,091.66	2,961.64	2,697.31	264.33	11.204	
19,518.56	7,630.00	7,648.00	7,648.00	174.50	132.51	90.00	-7,180.03	2,091.66	2,969.19	2,705.10	264.09	11.243	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	140.47	-6,863.27	5,664.34	8,898.88					
100.00	100.00	69.00	69.00	0.13	0.54	140.47	-6,863.27	5,664.34	8,898.83	8,898.15	0.68	N/A		
200.00	200.00	169.00	169.00	0.49	1.99	140.47	-6,863.27	5,664.34	8,898.83	8,896.35	2.48	3,584.517		
300.00	300.00	269.00	269.00	0.85	3.74	140.47	-6,863.27	5,664.34	8,898.83	8,894.24	4.59	1,940.275		
400.00	400.00	369.00	369.00	1.21	5.48	140.47	-6,863.27	5,664.34	8,898.83	8,892.14	6.69	1,330.134		
500.00	499.98	468.98	468.98	1.56	7.23	73.76	-6,863.27	5,664.34	8,898.34	8,889.55	8.79	1,012.434		
600.00	599.84	568.84	568.84	1.92	8.97	73.82	-6,863.27	5,664.34	8,896.88	8,885.99	10.89	817.247		
700.00	699.45	668.45	668.45	2.29	10.71	73.92	-6,863.27	5,664.34	8,894.45	8,881.46	12.99	684.776		
800.00	798.70	767.70	767.70	2.67	12.44	74.06	-6,863.27	5,664.34	8,891.07	8,875.97	15.10	588.854		
900.00	897.47	866.47	866.47	3.07	14.16	74.24	-6,863.27	5,664.34	8,886.74	8,869.52	17.22	516.069		
1,000.00	995.62	964.62	964.62	3.50	15.88	74.46	-6,863.27	5,664.34	8,881.51	8,862.15	19.36	458.850		
1,100.00	1,093.06	1,062.06	1,062.06	3.96	17.58	74.71	-6,863.27	5,664.34	8,875.38	8,853.87	21.51	412.608		
1,200.00	1,189.64	1,158.64	1,158.64	4.46	19.26	75.01	-6,863.27	5,664.34	8,868.40	8,844.71	23.69	374.400		
1,300.00	1,285.27	1,254.27	1,254.27	5.00	20.93	75.33	-6,863.27	5,664.34	8,860.60	8,834.71	25.89	342.255		
1,400.00	1,379.82	1,348.82	1,348.82	5.60	22.58	75.69	-6,863.27	5,664.34	8,852.02	8,823.90	28.12	314.804		
1,500.00	1,473.17	1,442.17	1,442.17	6.25	24.21	76.09	-6,863.27	5,664.34	8,842.70	8,812.32	30.38	291.067		
1,600.00	1,565.21	1,534.21	1,534.21	6.95	25.82	76.51	-6,863.27	5,664.34	8,832.69	8,800.02	32.67	270.323		
1,700.00	1,655.84	1,624.84	1,624.84	7.72	27.40	76.96	-6,863.27	5,664.34	8,822.05	8,787.05	35.00	252.031		
1,800.00	1,744.94	1,713.94	1,713.94	8.55	28.95	77.44	-6,863.27	5,664.34	8,810.83	8,773.46	37.37	235.776		
1,900.00	1,832.39	1,801.39	1,801.39	9.45	30.48	77.94	-6,863.27	5,664.34	8,799.10	8,759.32	39.77	221.236		
2,000.00	1,918.11	1,887.11	1,887.11	10.41	31.98	78.46	-6,863.27	5,664.34	8,786.90	8,744.69	42.21	208.153		
2,100.00	2,001.97	1,970.97	1,970.97	11.45	33.44	79.01	-6,863.27	5,664.34	8,774.32	8,729.63	44.69	196.323		
2,200.00	2,083.88	2,052.88	2,052.88	12.56	34.87	79.57	-6,863.27	5,664.34	8,761.42	8,714.20	47.21	185.578		
2,300.00	2,163.74	2,132.74	2,132.74	13.74	36.26	80.14	-6,863.27	5,664.34	8,748.26	8,698.49	49.77	175.782		
2,400.00	2,241.45	2,210.45	2,210.45	14.99	37.62	80.73	-6,863.27	5,664.34	8,734.92	8,682.56	52.36	166.821		
2,421.22	2,257.65	2,226.65	2,226.65	15.26	37.90	80.85	-6,863.27	5,664.34	8,732.08	8,679.16	52.92	165.019		
2,500.00	2,317.63	2,286.63	2,286.63	16.29	38.95	81.11	-6,863.27	5,664.34	8,721.65	8,666.66	54.98	158.619		
2,600.00	2,393.75	2,362.75	2,362.75	17.62	40.28	81.43	-6,863.27	5,664.34	8,708.82	8,651.19	57.63	151.120		
2,700.00	2,469.88	2,438.88	2,438.88	18.95	41.61	81.75	-6,863.27	5,664.34	8,696.46	8,636.17	60.29	144.252		
2,800.00	2,546.01	2,515.01	2,515.01	20.30	42.94	82.08	-6,863.27	5,664.34	8,684.56	8,621.61	62.96	137.943		
2,900.00	2,622.13	2,608.87	2,591.13	21.65	44.57	82.40	-6,863.27	5,664.34	8,673.14	8,607.19	65.95	131.514		
3,000.00	2,698.26	2,667.26	2,667.26	23.01	45.59	82.73	-6,863.27	5,664.34	8,662.18	8,593.85	68.33	126.772		
3,100.00	2,774.38	2,743.38	2,743.38	24.37	46.92	83.05	-6,863.27	5,664.34	8,651.70	8,580.67	71.03	121.810		
3,200.00	2,850.51	2,819.51	2,819.51	25.74	48.25	83.38	-6,863.27	5,664.34	8,641.69	8,567.96	73.73	117.206		
3,300.00	2,926.64	2,904.36	2,895.64	27.11	49.73	83.71	-6,863.27	5,664.34	8,632.15	8,555.56	76.59	112.702		
3,400.00	3,002.76	2,971.76	2,971.76	28.49	50.91	84.03	-6,863.27	5,664.34	8,623.09	8,543.94	79.16	108.939		
3,500.00	3,078.89	3,047.89	3,047.89	29.87	52.24	84.36	-6,863.27	5,664.34	8,614.51	8,532.64	81.87	105.217		
3,600.00	3,155.02	3,124.02	3,124.02	31.25	53.56	84.69	-6,863.27	5,664.34	8,606.42	8,521.82	84.60	101.734		
3,700.00	3,231.14	3,200.14	3,200.14	32.63	54.89	85.02	-6,863.27	5,664.34	8,598.80	8,511.48	87.32	98.472		
3,800.00	3,307.27	3,276.27	3,276.27	34.01	56.22	85.35	-6,863.27	5,664.34	8,591.66	8,501.61	90.05	95.409		
3,900.00	3,383.39	3,352.39	3,352.39	35.40	57.55	85.68	-6,863.27	5,664.34	8,585.01	8,492.23	92.78	92.529		
4,000.00	3,459.52	3,428.52	3,428.52	36.79	58.88	86.01	-6,863.27	5,664.34	8,578.85	8,483.33	95.51	89.817		
4,100.00	3,535.65	3,504.65	3,504.65	38.18	60.21	86.34	-6,863.27	5,664.34	8,573.17	8,474.92	98.25	87.260		
4,200.00	3,611.77	3,580.77	3,580.77	39.57	61.54	86.67	-6,863.27	5,664.34	8,567.97	8,466.99	100.98	84.845		
4,300.00	3,687.90	3,656.90	3,656.90	40.96	62.86	87.00	-6,863.27	5,664.34	8,563.27	8,459.55	103.72	82.562		
4,400.00	3,764.02	3,733.02	3,733.02	42.35	64.19	87.33	-6,863.27	5,664.34	8,559.05	8,452.60	106.46	80.400		
4,500.00	3,840.15	3,809.15	3,809.15	43.74	65.52	87.66	-6,863.27	5,664.34	8,555.32	8,446.13	109.19	78.351		
4,600.00	3,916.28	3,885.28	3,885.28	45.13	66.85	87.99	-6,863.27	5,664.34	8,552.09	8,440.16	111.93	76.406		
4,700.00	3,992.40	3,961.40	3,961.40	46.53	68.18	88.32	-6,863.27	5,664.34	8,549.34	8,434.68	114.66	74.560		
4,800.00	4,068.53	4,037.53	4,037.53	47.92	69.51	88.65	-6,863.27	5,664.34	8,547.09	8,429.69	117.40	72.803		
4,900.00	4,144.66	4,113.66	4,113.66	49.32	70.84	88.98	-6,863.27	5,664.34	8,545.32	8,425.19	120.13	71.132		
5,000.00	4,220.78	4,189.78	4,189.78	50.71	72.17	89.31	-6,863.27	5,664.34	8,544.05	8,421.18	122.87	69.539		

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	4,265.91	4,265.91	52.11	73.49	89.64	-6,863.27	5,664.34	8,543.27	8,417.67	125.60	68.021		
5,200.00	4,373.03	4,342.03	4,342.03	53.51	74.82	89.97	-6,863.27	5,664.34	8,542.98	8,414.66	128.33	66.572		
5,208.48	4,379.49	4,348.49	4,348.49	53.62	74.94	90.00	-6,863.27	5,664.34	8,542.98	8,414.42	128.56	66.452		
5,300.00	4,449.16	4,418.16	4,418.16	54.90	76.15	90.30	-6,863.27	5,664.34	8,543.19	8,412.13	131.05	65.188		
5,400.00	4,525.29	4,505.71	4,494.29	56.30	77.68	90.63	-6,863.27	5,664.34	8,543.88	8,409.91	133.98	63.771		
5,500.00	4,601.41	4,570.41	4,570.41	57.70	78.81	90.97	-6,863.27	5,664.34	8,545.07	8,408.57	136.50	62.601		
5,600.00	4,677.54	4,646.54	4,646.54	59.10	80.14	91.30	-6,863.27	5,664.34	8,546.75	8,407.53	139.22	61.390		
5,700.00	4,753.66	4,722.66	4,722.66	60.49	81.47	91.63	-6,863.27	5,664.34	8,548.92	8,406.99	141.94	60.230		
5,800.00	4,829.79	4,801.21	4,798.79	61.89	82.84	91.96	-6,863.27	5,664.34	8,551.59	8,406.89	144.69	59.102		
5,900.00	4,905.92	4,874.92	4,874.92	63.29	84.12	92.29	-6,863.27	5,664.34	8,554.74	8,407.38	147.36	58.053		
6,000.00	4,982.04	4,951.04	4,951.04	64.69	85.45	92.62	-6,863.27	5,664.34	8,558.39	8,408.32	150.07	57.031		
6,100.00	5,058.17	5,027.17	5,027.17	66.09	86.78	92.95	-6,863.27	5,664.34	8,562.52	8,409.75	152.77	56.049		
6,200.00	5,134.30	5,042.00	5,042.00	67.49	87.04	93.01	-6,863.27	5,664.34	8,567.36	8,412.97	154.39	55.493		
6,300.00	5,210.42	5,042.00	5,042.00	68.89	87.04	93.01	-6,863.27	5,664.34	8,573.35	8,417.62	155.73	55.053		
6,400.00	5,286.55	5,042.00	5,042.00	70.29	87.04	93.01	-6,863.27	5,664.34	8,580.51	8,423.45	157.05	54.634		
6,500.00	5,362.67	5,042.00	5,042.00	71.69	87.04	93.01	-6,863.27	5,664.34	8,588.82	8,430.46	158.36	54.236		
6,600.00	5,438.80	5,042.00	5,042.00	73.09	87.04	93.01	-6,863.27	5,664.34	8,598.29	8,438.64	159.65	53.858		
6,700.00	5,514.93	5,042.00	5,042.00	74.49	87.04	93.01	-6,863.27	5,664.34	8,608.90	8,447.99	160.92	53.499		
6,800.00	5,591.05	5,042.00	5,042.00	75.89	87.04	93.01	-6,863.27	5,664.34	8,620.67	8,458.50	162.17	53.159		
6,900.00	5,667.18	5,042.00	5,042.00	77.29	87.04	93.01	-6,863.27	5,664.34	8,633.58	8,470.18	163.40	52.838		
7,000.00	5,743.30	5,042.00	5,042.00	78.69	87.04	93.01	-6,863.27	5,664.34	8,647.62	8,483.01	164.61	52.535		
7,100.00	5,819.43	5,042.00	5,042.00	80.09	87.04	93.01	-6,863.27	5,664.34	8,662.80	8,497.00	165.80	52.249		
7,200.00	5,895.56	5,042.00	5,042.00	81.49	87.04	93.01	-6,863.27	5,664.34	8,679.10	8,512.13	166.97	51.980		
7,300.00	5,971.68	5,042.00	5,042.00	82.90	87.04	93.01	-6,863.27	5,664.34	8,696.52	8,528.41	168.12	51.729		
7,400.00	6,047.81	5,042.00	5,042.00	84.30	87.04	93.01	-6,863.27	5,664.34	8,715.06	8,545.81	169.25	51.493		
7,500.00	6,123.94	5,042.00	5,042.00	85.70	87.04	93.01	-6,863.27	5,664.34	8,734.70	8,564.35	170.35	51.274		
7,600.00	6,200.06	5,042.00	5,042.00	87.10	87.04	93.01	-6,863.27	5,664.34	8,755.44	8,584.00	171.44	51.070		
7,700.00	6,276.19	5,042.00	5,042.00	88.50	87.04	93.01	-6,863.27	5,664.34	8,777.27	8,604.76	172.50	50.881		
7,800.00	6,352.31	5,042.00	5,042.00	89.90	87.04	93.01	-6,863.27	5,664.34	8,800.18	8,626.63	173.55	50.707		
7,900.00	6,428.44	5,042.00	5,042.00	91.31	87.04	93.01	-6,863.27	5,664.34	8,824.16	8,649.59	174.57	50.548		
8,000.00	6,504.57	5,042.00	5,042.00	92.71	87.04	93.01	-6,863.27	5,664.34	8,849.21	8,673.64	175.57	50.402		
8,100.00	6,580.69	5,042.00	5,042.00	94.11	87.04	93.01	-6,863.27	5,664.34	8,875.32	8,698.77	176.55	50.271		
8,200.00	6,656.82	5,042.00	5,042.00	95.51	87.04	93.01	-6,863.27	5,664.34	8,902.47	8,724.96	177.51	50.152		
8,300.00	6,732.95	5,042.00	5,042.00	96.91	87.04	93.01	-6,863.27	5,664.34	8,930.66	8,752.21	178.45	50.047		
8,400.00	6,809.07	5,042.00	5,042.00	98.32	87.04	93.01	-6,863.27	5,664.34	8,959.88	8,780.52	179.36	49.955		
8,500.00	6,885.20	5,042.00	5,042.00	99.72	87.04	93.01	-6,863.27	5,664.34	8,990.11	8,809.86	180.25	49.875		
8,600.00	6,961.32	5,042.00	5,042.00	101.12	87.04	93.01	-6,863.27	5,664.34	9,021.35	8,840.23	181.13	49.807		
8,700.00	7,037.45	5,042.00	5,042.00	102.52	87.04	93.01	-6,863.27	5,664.34	9,053.59	8,871.61	181.98	49.751		
8,732.15	7,061.92	5,042.00	5,042.00	102.97	87.04	93.01	-6,863.27	5,664.34	9,064.17	8,881.92	182.25	49.735		
8,750.00	7,075.57	5,042.00	5,042.00	103.22	87.04	91.15	-6,863.27	5,664.34	9,069.83	8,887.43	182.40	49.726		
8,800.00	7,114.27	5,042.00	5,042.00	103.91	87.04	85.56	-6,863.27	5,664.34	9,083.12	8,900.31	182.81	49.687		
8,850.00	7,153.47	5,042.00	5,042.00	104.58	87.04	79.54	-6,863.27	5,664.34	9,092.57	8,909.36	183.21	49.630		
8,900.00	7,192.85	5,042.00	5,042.00	105.21	87.04	73.29	-6,863.27	5,664.34	9,098.11	8,914.52	183.59	49.557		
8,950.00	7,232.12	5,042.00	5,042.00	105.80	87.04	67.02	-6,863.27	5,664.34	9,099.71	8,915.76	183.95	49.469		
9,000.00	7,270.99	5,042.00	5,042.00	106.35	87.04	60.91	-6,863.27	5,664.34	9,097.36	8,913.08	184.28	49.368		
9,050.00	7,309.16	5,042.00	5,042.00	106.85	87.04	55.12	-6,863.27	5,664.34	9,091.07	8,906.50	184.57	49.255		
9,100.00	7,346.32	5,042.00	5,042.00	107.30	87.04	49.74	-6,863.27	5,664.34	9,080.89	8,896.06	184.83	49.131		
9,150.00	7,382.22	5,042.00	5,042.00	107.69	87.04	44.80	-6,863.27	5,664.34	9,066.88	8,881.83	185.05	48.997		
9,200.00	7,416.56	5,042.00	5,042.00	108.02	87.04	40.28	-6,863.27	5,664.34	9,049.12	8,863.89	185.23	48.854		
9,250.00	7,449.09	5,042.00	5,042.00	108.29	87.04	36.15	-6,863.27	5,664.34	9,027.74	8,842.37	185.37	48.702		
9,300.00	7,479.56	5,042.00	5,042.00	108.51	87.04	32.33	-6,863.27	5,664.34	9,002.86	8,817.40	185.46	48.543		
9,350.00	7,507.74	5,042.00	5,042.00	108.68	87.04	28.75	-6,863.27	5,664.34	8,974.66	8,789.14	185.52	48.376		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,042.00	5,042.00	108.79	87.04	25.29	-6,863.27	5,664.34	8,943.31	8,757.77	185.54	48.202		
9,450.00	7,556.39	5,042.00	5,042.00	108.86	87.04	21.86	-6,863.27	5,664.34	8,909.02	8,723.49	185.52	48.021		
9,500.00	7,576.48	5,042.00	5,042.00	108.88	87.04	18.30	-6,863.27	5,664.34	8,872.02	8,686.54	185.48	47.833		
9,550.00	7,593.55	5,042.00	5,042.00	108.86	87.04	14.43	-6,863.27	5,664.34	8,832.55	8,647.15	185.41	47.639		
9,600.00	7,607.46	5,042.00	5,042.00	108.80	87.04	10.00	-6,863.27	5,664.34	8,790.90	8,605.59	185.31	47.439		
9,650.00	7,618.11	5,042.00	5,042.00	108.71	87.04	4.64	-6,863.27	5,664.34	8,747.34	8,562.15	185.19	47.233		
9,700.00	7,625.41	5,042.00	5,042.00	108.59	87.04	-2.20	-6,863.27	5,664.34	8,702.19	8,517.12	185.07	47.022		
9,750.00	7,629.30	5,042.00	5,042.00	108.45	87.04	-11.28	-6,863.27	5,664.34	8,655.75	8,470.83	184.93	46.806		
9,781.81	7,630.00	5,042.00	5,042.00	108.35	87.04	-18.64	-6,863.27	5,664.34	8,625.71	8,440.87	184.84	46.666		
9,800.00	7,630.00	5,042.00	5,042.00	108.29	87.04	-18.64	-6,863.27	5,664.34	8,608.43	8,423.64	184.79	46.585		
9,900.00	7,630.00	5,042.00	5,042.00	107.97	87.04	-18.64	-6,863.27	5,664.34	8,513.53	8,329.03	184.50	46.144		
10,000.00	7,630.00	5,042.00	5,042.00	107.67	87.04	-18.64	-6,863.27	5,664.34	8,418.74	8,234.54	184.20	45.704		
10,100.00	7,630.00	5,042.00	5,042.00	107.38	87.04	-18.64	-6,863.27	5,664.34	8,324.08	8,140.18	183.90	45.265		
10,200.00	7,630.00	5,042.00	5,042.00	107.10	87.04	-18.64	-6,863.27	5,664.34	8,229.54	8,045.96	183.59	44.827		
10,300.00	7,630.00	5,042.00	5,042.00	106.84	87.04	-18.64	-6,863.27	5,664.34	8,135.14	7,951.87	183.27	44.390		
10,400.00	7,630.00	5,042.00	5,042.00	106.59	87.04	-18.64	-6,863.27	5,664.34	8,040.87	7,857.93	182.94	43.954		
10,500.00	7,630.00	5,042.00	5,042.00	106.35	87.04	-18.64	-6,863.27	5,664.34	7,946.74	7,764.14	182.60	43.519		
10,600.00	7,630.00	5,042.00	5,042.00	106.13	87.04	-18.64	-6,863.27	5,664.34	7,852.76	7,670.50	182.26	43.085		
10,700.00	7,630.00	5,042.00	5,042.00	105.92	87.04	-18.64	-6,863.27	5,664.34	7,758.92	7,577.01	181.91	42.653		
10,800.00	7,630.00	5,042.00	5,042.00	105.72	87.04	-18.64	-6,863.27	5,664.34	7,665.24	7,483.70	181.55	42.222		
10,900.00	7,630.00	5,042.00	5,042.00	105.54	87.04	-18.64	-6,863.27	5,664.34	7,571.73	7,390.55	181.18	41.792		
11,000.00	7,630.00	5,042.00	5,042.00	105.37	87.04	-18.64	-6,863.27	5,664.34	7,478.38	7,297.58	180.79	41.364		
11,100.00	7,630.00	5,042.00	5,042.00	105.21	87.04	-18.64	-6,863.27	5,664.34	7,385.20	7,204.80	180.40	40.937		
11,200.00	7,630.00	5,042.00	5,042.00	105.06	87.04	-18.64	-6,863.27	5,664.34	7,292.21	7,112.21	180.00	40.512		
11,300.00	7,630.00	5,042.00	5,042.00	104.93	87.04	-18.64	-6,863.27	5,664.34	7,199.41	7,019.82	179.59	40.088		
11,400.00	7,630.00	5,042.00	5,042.00	104.82	87.04	-18.64	-6,863.27	5,664.34	7,106.79	6,927.63	179.17	39.666		
11,500.00	7,630.00	5,042.00	5,042.00	104.72	87.04	-18.64	-6,863.27	5,664.34	7,014.39	6,835.66	178.73	39.246		
11,600.00	7,630.00	5,042.00	5,042.00	104.63	87.04	-18.64	-6,863.27	5,664.34	6,922.19	6,743.91	178.28	38.827		
11,700.00	7,630.00	5,042.00	5,042.00	104.55	87.04	-18.64	-6,863.27	5,664.34	6,830.21	6,652.39	177.82	38.410		
11,800.00	7,630.00	5,042.00	5,042.00	104.50	87.04	-18.64	-6,863.27	5,664.34	6,738.46	6,561.12	177.35	37.996		
11,900.00	7,630.00	5,042.00	5,042.00	104.45	87.04	-18.64	-6,863.27	5,664.34	6,646.95	6,470.09	176.86	37.583		
12,000.00	7,630.00	5,042.00	5,042.00	104.43	87.04	-18.64	-6,863.27	5,664.34	6,555.69	6,379.33	176.36	37.172		
12,100.00	7,630.00	5,042.00	5,042.00	104.42	87.04	-18.64	-6,863.27	5,664.34	6,464.69	6,288.84	175.84	36.764		
12,200.00	7,630.00	5,042.00	5,042.00	104.42	87.04	-18.64	-6,863.27	5,664.34	6,373.95	6,198.64	175.31	36.358		
12,300.00	7,630.00	5,042.00	5,042.00	104.45	87.04	-18.64	-6,863.27	5,664.34	6,283.50	6,108.73	174.77	35.954		
12,400.00	7,630.00	5,042.00	5,042.00	104.49	87.04	-18.64	-6,863.27	5,664.34	6,193.34	6,019.14	174.20	35.552		
12,500.00	7,630.00	5,042.00	5,042.00	104.55	87.04	-18.64	-6,863.27	5,664.34	6,103.49	5,929.86	173.62	35.153		
12,600.00	7,630.00	5,042.00	5,042.00	104.63	87.04	-18.64	-6,863.27	5,664.34	6,013.96	5,840.93	173.03	34.757		
12,700.00	7,630.00	5,042.00	5,042.00	104.73	87.04	-18.64	-6,863.27	5,664.34	5,924.76	5,752.35	172.41	34.364		
12,800.00	7,630.00	5,042.00	5,042.00	104.85	87.04	-18.64	-6,863.27	5,664.34	5,835.91	5,664.13	171.78	33.973		
12,900.00	7,630.00	5,042.00	5,042.00	104.99	87.04	-18.64	-6,863.27	5,664.34	5,747.43	5,576.30	171.13	33.586		
13,000.00	7,630.00	5,042.00	5,042.00	105.15	87.04	-18.64	-6,863.27	5,664.34	5,659.33	5,488.88	170.45	33.202		
13,100.00	7,630.00	5,042.00	5,042.00	105.34	87.04	-18.64	-6,863.27	5,664.34	5,571.64	5,401.88	169.76	32.821		
13,200.00	7,630.00	5,042.00	5,042.00	105.56	87.04	-18.64	-6,863.27	5,664.34	5,484.36	5,315.32	169.05	32.443		
13,300.00	7,630.00	5,042.00	5,042.00	105.80	87.04	-18.64	-6,863.27	5,664.34	5,397.53	5,229.22	168.31	32.069		
13,400.00	7,630.00	5,042.00	5,042.00	106.06	87.04	-18.64	-6,863.27	5,664.34	5,311.16	5,143.61	167.55	31.699		
13,500.00	7,630.00	5,042.00	5,042.00	106.36	87.04	-18.64	-6,863.27	5,664.34	5,225.28	5,058.51	166.77	31.332		
13,600.00	7,630.00	5,042.00	5,042.00	106.68	87.04	-18.64	-6,863.27	5,664.34	5,139.90	4,973.94	165.97	30.970		
13,700.00	7,630.00	5,042.00	5,042.00	107.03	87.04	-18.64	-6,863.27	5,664.34	5,055.07	4,889.93	165.14	30.611		
13,800.00	7,630.00	5,042.00	5,042.00	107.42	87.04	-18.64	-6,863.27	5,664.34	4,970.79	4,806.51	164.28	30.258		
13,900.00	7,630.00	5,042.00	5,042.00	107.83	87.04	-18.64	-6,863.27	5,664.34	4,887.11	4,723.71	163.40	29.908		
14,000.00	7,630.00	5,042.00	5,042.00	108.28	87.04	-18.64	-6,863.27	5,664.34	4,804.06	4,641.56	162.50	29.563		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,042.00	5,042.00	108.77	87.04	-18.64	-6,863.27	5,664.34	4,721.66	4,560.09	161.57	29.223		
14,200.00	7,630.00	5,042.00	5,042.00	109.29	87.04	-18.64	-6,863.27	5,664.34	4,639.95	4,479.34	160.62	28.889		
14,300.00	7,630.00	5,042.00	5,042.00	109.84	87.04	-18.64	-6,863.27	5,664.34	4,558.98	4,399.34	159.63	28.559		
14,400.00	7,630.00	5,042.00	5,042.00	110.43	87.04	-18.64	-6,863.27	5,664.34	4,478.77	4,320.14	158.63	28.235		
14,500.00	7,630.00	5,042.00	5,042.00	111.06	87.04	-18.64	-6,863.27	5,664.34	4,399.37	4,241.78	157.59	27.916		
14,600.00	7,630.00	5,042.00	5,042.00	111.72	87.04	-18.64	-6,863.27	5,664.34	4,320.83	4,164.29	156.54	27.603		
14,700.00	7,630.00	5,042.00	5,042.00	112.42	87.04	-18.64	-6,863.27	5,664.34	4,243.19	4,087.73	155.46	27.295		
14,800.00	7,630.00	5,042.00	5,042.00	113.16	87.04	-18.64	-6,863.27	5,664.34	4,166.50	4,012.15	154.35	26.994		
14,900.00	7,630.00	5,042.00	5,042.00	113.94	87.04	-18.64	-6,863.27	5,664.34	4,090.82	3,937.60	153.22	26.698		
15,000.00	7,630.00	5,042.00	5,042.00	114.75	87.04	-18.64	-6,863.27	5,664.34	4,016.21	3,864.13	152.08	26.409		
15,100.00	7,630.00	5,042.00	5,042.00	115.60	87.04	-18.64	-6,863.27	5,664.34	3,942.72	3,791.80	150.91	26.126		
15,200.00	7,630.00	5,042.00	5,042.00	116.48	87.04	-18.64	-6,863.27	5,664.34	3,870.41	3,720.68	149.73	25.849		
15,300.00	7,630.00	5,042.00	5,042.00	117.40	87.04	-18.64	-6,863.27	5,664.34	3,799.37	3,650.83	148.54	25.578		
15,400.00	7,630.00	5,042.00	5,042.00	118.35	87.04	-18.64	-6,863.27	5,664.34	3,729.65	3,582.31	147.34	25.313		
15,500.00	7,630.00	5,042.00	5,042.00	119.34	87.04	-18.64	-6,863.27	5,664.34	3,661.34	3,515.20	146.13	25.054		
15,600.00	7,630.00	5,042.00	5,042.00	120.35	87.04	-18.64	-6,863.27	5,664.34	3,594.51	3,449.58	144.93	24.802		
15,700.00	7,630.00	5,042.00	5,042.00	121.40	87.04	-18.64	-6,863.27	5,664.34	3,529.25	3,385.52	143.73	24.554		
15,800.00	7,630.00	5,042.00	5,042.00	122.48	87.04	-18.64	-6,863.27	5,664.34	3,465.64	3,323.10	142.54	24.313		
15,900.00	7,630.00	5,042.00	5,042.00	123.58	87.04	-18.64	-6,863.27	5,664.34	3,403.79	3,262.41	141.38	24.076		
16,000.00	7,630.00	5,042.00	5,042.00	124.71	87.04	-18.64	-6,863.27	5,664.34	3,343.78	3,203.55	140.23	23.844		
16,100.00	7,630.00	5,042.00	5,042.00	125.87	87.04	-18.64	-6,863.27	5,664.34	3,285.72	3,146.59	139.13	23.617		
16,200.00	7,630.00	5,042.00	5,042.00	127.05	87.04	-18.64	-6,863.27	5,664.34	3,229.71	3,091.65	138.06	23.393		
16,300.00	7,630.00	5,042.00	5,042.00	128.26	87.04	-18.64	-6,863.27	5,664.34	3,175.87	3,038.82	137.05	23.173		
16,400.00	7,630.00	5,042.00	5,042.00	129.48	87.04	-18.64	-6,863.27	5,664.34	3,124.30	2,988.20	136.10	22.956		
16,500.00	7,630.00	5,042.00	5,042.00	130.73	87.04	-18.64	-6,863.27	5,664.34	3,075.12	2,939.89	135.23	22.741		
16,600.00	7,630.00	5,042.00	5,042.00	132.00	87.04	-18.64	-6,863.27	5,664.34	3,028.44	2,894.00	134.43	22.527		
16,700.00	7,630.00	5,042.00	5,042.00	133.29	87.04	-18.64	-6,863.27	5,664.34	2,984.38	2,850.64	133.74	22.315		
16,800.00	7,630.00	5,042.00	5,042.00	134.59	87.04	-18.64	-6,863.27	5,664.34	2,943.06	2,809.92	133.15	22.104		
16,900.00	7,630.00	5,042.00	5,042.00	135.91	87.04	-18.64	-6,863.27	5,664.34	2,904.60	2,771.92	132.68	21.892		
17,000.00	7,630.00	5,042.00	5,042.00	137.25	87.04	-18.64	-6,863.27	5,664.34	2,869.11	2,736.76	132.35	21.679		
17,100.00	7,630.00	5,042.00	5,042.00	138.61	87.04	-18.64	-6,863.27	5,664.34	2,836.71	2,704.54	132.17	21.463		
17,200.00	7,630.00	5,042.00	5,042.00	139.97	87.04	-18.64	-6,863.27	5,664.34	2,807.49	2,675.34	132.15	21.244		
17,300.00	7,630.00	5,042.00	5,042.00	141.36	87.04	-18.64	-6,863.27	5,664.34	2,781.56	2,649.24	132.33	21.020		
17,400.00	7,630.00	5,042.00	5,042.00	142.75	87.04	-18.64	-6,863.27	5,664.34	2,759.02	2,626.31	132.71	20.790		
17,500.00	7,630.00	5,042.00	5,042.00	144.16	87.04	-18.64	-6,863.27	5,664.34	2,739.94	2,606.63	133.31	20.553		
17,600.00	7,630.00	5,042.00	5,042.00	145.58	87.04	-18.64	-6,863.27	5,664.34	2,724.40	2,590.23	134.17	20.306		
17,700.00	7,630.00	5,042.00	5,042.00	147.01	87.04	-18.64	-6,863.27	5,664.34	2,712.47	2,577.17	135.29	20.049		
17,800.00	7,630.00	5,042.00	5,042.00	148.45	87.04	-18.64	-6,863.27	5,664.34	2,704.17	2,567.48	136.70	19.782		
17,900.00	7,630.00	5,042.00	5,042.00	149.91	87.04	-18.64	-6,863.27	5,664.34	2,699.57	2,561.18	138.39	19.507		
17,974.53	7,630.00	5,042.00	5,042.00	151.00	87.04	-18.64	-6,863.27	5,664.34	2,698.54	2,558.70	139.84	19.298 CC		
18,000.00	7,630.00	5,042.00	5,042.00	151.37	87.04	-18.64	-6,863.27	5,664.34	2,698.66	2,558.29	140.37	19.225 ES		
18,100.00	7,630.00	5,042.00	5,042.00	152.84	87.04	-18.64	-6,863.27	5,664.34	2,701.45	2,558.83	142.62	18.941		
18,200.00	7,630.00	5,042.00	5,042.00	154.32	87.04	-18.64	-6,863.27	5,664.34	2,707.94	2,562.81	145.13	18.659		
18,300.00	7,630.00	5,042.00	5,042.00	155.81	87.04	-18.64	-6,863.27	5,664.34	2,718.09	2,570.25	147.84	18.385		
18,400.00	7,630.00	5,042.00	5,042.00	157.31	87.04	-18.64	-6,863.27	5,664.34	2,731.87	2,581.14	150.73	18.124		
18,500.00	7,630.00	5,042.00	5,042.00	158.81	87.04	-18.64	-6,863.27	5,664.34	2,749.22	2,595.47	153.75	17.881		
18,600.00	7,630.00	5,042.00	5,042.00	160.32	87.04	-18.64	-6,863.27	5,664.34	2,770.07	2,613.22	156.85	17.660		
18,700.00	7,630.00	5,042.00	5,042.00	161.84	87.04	-18.64	-6,863.27	5,664.34	2,794.35	2,634.36	160.00	17.465		
18,800.00	7,630.00	5,042.00	5,042.00	163.37	87.04	-18.64	-6,863.27	5,664.34	2,821.97	2,658.83	163.14	17.298		
18,900.00	7,630.00	5,042.00	5,042.00	164.90	87.04	-18.64	-6,863.27	5,664.34	2,852.82	2,686.57	166.26	17.159		
19,000.00	7,630.00	5,042.00	5,042.00	166.43	87.04	-18.64	-6,863.27	5,664.34	2,886.81	2,717.50	169.31	17.050		
19,100.00	7,630.00	5,042.00	5,042.00	167.98	87.04	-18.64	-6,863.27	5,664.34	2,923.83	2,751.54	172.29	16.971		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	5,042.00	5,042.00	169.53	87.04	-18.64	-6,863.27	5,664.34	2,963.76	2,788.60	175.16	16.920	
19,300.00	7,630.00	5,042.00	5,042.00	171.08	87.04	-18.64	-6,863.27	5,664.34	3,006.49	2,828.56	177.93	16.897 SF	
19,400.00	7,630.00	5,042.00	5,042.00	172.64	87.04	-18.64	-6,863.27	5,664.34	3,051.90	2,871.33	180.57	16.901	
19,500.00	7,630.00	5,042.00	5,042.00	174.21	87.04	-18.64	-6,863.27	5,664.34	3,099.86	2,916.78	183.08	16.931	
19,518.56	7,630.00	5,042.00	5,042.00	174.50	87.04	-18.64	-6,863.27	5,664.34	3,109.04	2,925.50	183.54	16.940	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	145.32	-8,182.00	5,661.84	9,950.00					
100.00	100.00	67.00	67.00	0.13	0.55	145.32	-8,182.00	5,661.84	9,949.95	9,949.26	0.68	N/A		
200.00	200.00	167.00	167.00	0.49	1.99	145.32	-8,182.00	5,661.84	9,949.95	9,947.47	2.48	4,007.915		
300.00	300.00	267.00	267.00	0.85	3.74	145.32	-8,182.00	5,661.84	9,949.95	9,945.36	4.59	2,169.458		
400.00	400.00	367.00	367.00	1.21	5.48	145.32	-8,182.00	5,661.84	9,949.95	9,943.26	6.69	1,487.247		
500.00	499.98	466.98	466.98	1.56	7.23	78.61	-8,182.00	5,661.84	9,949.60	9,940.81	8.79	1,132.040		
600.00	599.84	566.84	566.84	1.92	8.97	78.66	-8,182.00	5,661.84	9,948.57	9,937.68	10.89	913.842		
700.00	699.45	666.45	666.45	2.29	10.71	78.74	-8,182.00	5,661.84	9,946.86	9,933.87	12.99	765.766		
800.00	798.70	765.70	765.70	2.67	12.44	78.86	-8,182.00	5,661.84	9,944.47	9,929.37	15.10	658.552		
900.00	897.47	864.47	864.47	3.07	14.16	79.00	-8,182.00	5,661.84	9,941.43	9,924.21	17.22	577.203		
1,000.00	995.62	962.62	962.62	3.50	15.88	79.18	-8,182.00	5,661.84	9,937.76	9,918.39	19.36	513.257		
1,100.00	1,093.06	1,060.06	1,060.06	3.96	17.58	79.39	-8,182.00	5,661.84	9,933.47	9,911.95	21.52	461.584		
1,200.00	1,189.64	1,156.64	1,156.64	4.46	19.26	79.63	-8,182.00	5,661.84	9,928.59	9,904.89	23.70	418.894		
1,300.00	1,285.27	1,252.27	1,252.27	5.00	20.93	79.89	-8,182.00	5,661.84	9,923.17	9,897.26	25.91	382.986		
1,400.00	1,379.82	1,346.82	1,346.82	5.60	22.58	80.19	-8,182.00	5,661.84	9,917.22	9,889.08	28.15	352.329		
1,500.00	1,473.17	1,440.17	1,440.17	6.25	24.21	80.51	-8,182.00	5,661.84	9,910.80	9,880.38	30.42	325.828		
1,600.00	1,565.21	1,532.21	1,532.21	6.95	25.82	80.85	-8,182.00	5,661.84	9,903.94	9,871.22	32.72	302.677		
1,700.00	1,655.84	1,622.84	1,622.84	7.72	27.40	81.21	-8,182.00	5,661.84	9,896.69	9,861.62	35.06	282.272		
1,800.00	1,744.94	1,711.94	1,711.94	8.55	28.95	81.59	-8,182.00	5,661.84	9,889.09	9,851.65	37.44	264.148		
1,900.00	1,832.39	1,800.61	1,799.39	9.45	30.50	81.99	-8,182.00	5,661.84	9,881.20	9,841.33	39.87	247.813		
2,000.00	1,918.11	1,885.11	1,885.11	10.41	31.98	82.41	-8,182.00	5,661.84	9,873.08	9,830.77	42.31	233.374		
2,100.00	2,001.97	1,968.97	1,968.97	11.45	33.44	82.84	-8,182.00	5,661.84	9,864.77	9,819.97	44.80	220.207		
2,200.00	2,083.88	2,050.88	2,050.88	12.56	34.87	83.28	-8,182.00	5,661.84	9,856.34	9,809.01	47.33	208.256		
2,300.00	2,163.74	2,130.74	2,130.74	13.74	36.26	83.73	-8,182.00	5,661.84	9,847.84	9,797.95	49.90	197.367		
2,400.00	2,241.45	2,208.45	2,208.45	14.99	37.62	84.18	-8,182.00	5,661.84	9,839.35	9,786.85	52.50	187.412		
2,421.22	2,257.65	2,224.65	2,224.65	15.26	37.90	84.28	-8,182.00	5,661.84	9,837.55	9,784.49	53.06	185.412		
2,500.00	2,317.63	2,284.63	2,284.63	16.29	38.95	84.50	-8,182.00	5,661.84	9,831.01	9,775.88	55.14	178.307		
2,600.00	2,393.75	2,360.75	2,360.75	17.62	40.28	84.79	-8,182.00	5,661.84	9,823.09	9,765.30	57.79	169.986		
2,700.00	2,469.88	2,436.88	2,436.88	18.95	41.61	85.08	-8,182.00	5,661.84	9,815.59	9,755.14	60.45	162.366		
2,800.00	2,546.01	2,513.01	2,513.01	20.30	42.94	85.37	-8,182.00	5,661.84	9,808.51	9,745.38	63.13	155.370		
2,900.00	2,622.13	2,589.13	2,589.13	21.65	44.26	85.65	-8,182.00	5,661.84	9,801.86	9,736.05	65.82	148.930		
3,000.00	2,698.26	2,665.26	2,665.26	23.01	45.59	85.94	-8,182.00	5,661.84	9,795.63	9,727.13	68.51	142.985		
3,100.00	2,774.38	2,741.38	2,741.38	24.37	46.92	86.23	-8,182.00	5,661.84	9,789.83	9,718.62	71.21	137.484		
3,200.00	2,850.51	2,817.51	2,817.51	25.74	48.25	86.52	-8,182.00	5,661.84	9,784.46	9,710.54	73.91	132.382		
3,300.00	2,926.64	2,906.36	2,893.64	27.11	49.80	86.81	-8,182.00	5,661.84	9,779.51	9,702.67	76.84	127.269		
3,400.00	3,002.76	2,969.76	2,969.76	28.49	50.91	87.10	-8,182.00	5,661.84	9,774.99	9,695.65	79.33	123.218		
3,500.00	3,078.89	3,045.89	3,045.89	29.87	52.24	87.39	-8,182.00	5,661.84	9,770.89	9,688.85	82.05	119.091		
3,600.00	3,155.02	3,122.02	3,122.02	31.25	53.56	87.68	-8,182.00	5,661.84	9,767.23	9,682.46	84.76	115.230		
3,700.00	3,231.14	3,201.86	3,198.14	32.63	54.96	87.97	-8,182.00	5,661.84	9,763.99	9,676.45	87.55	111.528		
3,800.00	3,307.27	3,274.27	3,274.27	34.01	56.22	88.26	-8,182.00	5,661.84	9,761.19	9,670.98	90.20	108.213		
3,900.00	3,383.39	3,350.39	3,350.39	35.40	57.55	88.55	-8,182.00	5,661.84	9,758.81	9,665.89	92.93	105.018		
4,000.00	3,459.52	3,426.52	3,426.52	36.79	58.88	88.84	-8,182.00	5,661.84	9,756.87	9,661.22	95.65	102.008		
4,100.00	3,535.65	3,502.65	3,502.65	38.18	60.21	89.13	-8,182.00	5,661.84	9,755.35	9,656.98	98.37	99.169		
4,200.00	3,611.77	3,578.77	3,578.77	39.57	61.54	89.42	-8,182.00	5,661.84	9,754.27	9,653.18	101.09	96.487		
4,300.00	3,687.90	3,654.90	3,654.90	40.96	62.86	89.71	-8,182.00	5,661.84	9,753.62	9,649.80	103.82	93.949		
4,400.00	3,764.02	3,731.02	3,731.02	42.35	64.19	90.00	-8,182.00	5,661.84	9,753.40	9,646.86	106.54	91.546		
4,401.33	3,765.03	3,732.03	3,732.03	42.37	64.21	90.00	-8,182.00	5,661.84	9,753.40	9,646.82	106.58	91.515		
4,500.00	3,840.15	3,807.15	3,807.15	43.74	65.52	90.29	-8,182.00	5,661.84	9,753.61	9,644.34	109.26	89.267		
4,600.00	3,916.28	3,883.28	3,883.28	45.13	66.85	90.58	-8,182.00	5,661.84	9,754.25	9,642.26	111.98	87.103		
4,700.00	3,992.40	3,959.40	3,959.40	46.53	68.18	90.87	-8,182.00	5,661.84	9,755.32	9,640.61	114.70	85.047		
4,800.00	4,068.53	4,035.53	4,035.53	47.92	69.51	91.16	-8,182.00	5,661.84	9,756.82	9,639.40	117.42	83.091		
4,900.00	4,144.66	4,111.66	4,111.66	49.32	70.84	91.45	-8,182.00	5,661.84	9,758.76	9,638.61	120.14	81.227		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,000.00	4,220.78	4,187.78	4,187.78	50.71	72.17	91.74	-8,182.00	5,661.84	9,761.12	9,638.26	122.86	79.451		
5,100.00	4,296.91	4,263.91	4,263.91	52.11	73.49	92.03	-8,182.00	5,661.84	9,763.91	9,638.34	125.57	77.756		
5,200.00	4,373.03	4,340.03	4,340.03	53.51	74.82	92.31	-8,182.00	5,661.84	9,767.14	9,638.85	128.28	76.138		
5,300.00	4,449.16	4,416.16	4,416.16	54.90	76.15	92.60	-8,182.00	5,661.84	9,770.79	9,639.80	130.99	74.591		
5,400.00	4,525.29	4,507.71	4,492.29	56.30	77.75	92.89	-8,182.00	5,661.84	9,774.87	9,640.90	133.97	72.965		
5,500.00	4,601.41	4,568.41	4,568.41	57.70	78.81	93.18	-8,182.00	5,661.84	9,779.38	9,642.98	136.40	71.695		
5,600.00	4,677.54	4,644.54	4,644.54	59.10	80.14	93.47	-8,182.00	5,661.84	9,784.32	9,645.22	139.10	70.339		
5,700.00	4,753.66	4,720.66	4,720.66	60.49	81.47	93.76	-8,182.00	5,661.84	9,789.68	9,647.88	141.80	69.038		
5,800.00	4,829.79	4,803.21	4,796.79	61.89	82.91	94.05	-8,182.00	5,661.84	9,795.47	9,650.87	144.61	67.738		
5,900.00	4,905.92	4,872.92	4,872.92	63.29	84.12	94.34	-8,182.00	5,661.84	9,801.69	9,654.50	147.19	66.594		
6,000.00	4,982.04	4,949.04	4,949.04	64.69	85.45	94.63	-8,182.00	5,661.84	9,808.33	9,658.46	149.87	65.444		
6,100.00	5,058.17	5,020.00	5,020.00	66.09	86.69	94.89	-8,182.00	5,661.84	9,815.40	9,662.93	152.47	64.377		
6,200.00	5,134.30	5,020.00	5,020.00	67.49	86.69	94.89	-8,182.00	5,661.84	9,823.22	9,669.42	153.81	63.868		
6,300.00	5,210.42	5,020.00	5,020.00	68.89	86.69	94.89	-8,182.00	5,661.84	9,832.06	9,676.93	155.13	63.379		
6,400.00	5,286.55	5,020.00	5,020.00	70.29	86.69	94.89	-8,182.00	5,661.84	9,841.90	9,685.46	156.44	62.911		
6,500.00	5,362.67	5,020.00	5,020.00	71.69	86.69	94.89	-8,182.00	5,661.84	9,852.75	9,695.01	157.74	62.463		
6,600.00	5,438.80	5,020.00	5,020.00	73.09	86.69	94.89	-8,182.00	5,661.84	9,864.60	9,705.58	159.02	62.034		
6,700.00	5,514.93	5,020.00	5,020.00	74.49	86.69	94.89	-8,182.00	5,661.84	9,877.44	9,717.16	160.28	61.624		
6,800.00	5,591.05	5,020.00	5,020.00	75.89	86.69	94.89	-8,182.00	5,661.84	9,891.29	9,729.75	161.54	61.233		
6,900.00	5,667.18	5,020.00	5,020.00	77.29	86.69	94.89	-8,182.00	5,661.84	9,906.12	9,743.35	162.77	60.859		
7,000.00	5,743.30	5,020.00	5,020.00	78.69	86.69	94.89	-8,182.00	5,661.84	9,921.94	9,757.95	163.99	60.503		
7,100.00	5,819.43	5,020.00	5,020.00	80.09	86.69	94.89	-8,182.00	5,661.84	9,938.73	9,773.54	165.19	60.164		
7,200.00	5,895.56	5,020.00	5,020.00	81.49	86.69	94.89	-8,182.00	5,661.84	9,956.51	9,790.13	166.38	59.842		
7,300.00	5,971.68	5,020.00	5,020.00	82.90	86.69	94.89	-8,182.00	5,661.84	9,975.26	9,807.70	167.55	59.536		
7,400.00	6,047.81	5,020.00	5,020.00	84.30	86.69	94.89	-8,182.00	5,661.84	9,994.97	9,826.26	168.70	59.245		
7,500.00	6,123.94	5,020.00	5,020.00	85.70	86.69	94.89	-8,182.00	5,661.84	10,014.68	9,846.86	169.86	58.954		
7,600.00	6,200.07	5,020.00	5,020.00	87.10	86.69	94.89	-8,182.00	5,661.84	10,034.39	9,867.45	171.01	58.663		
7,700.00	6,276.20	5,020.00	5,020.00	88.50	86.69	94.89	-8,182.00	5,661.84	10,054.10	9,888.04	172.16	58.372		
7,800.00	6,352.33	5,020.00	5,020.00	89.90	86.69	94.89	-8,182.00	5,661.84	10,073.81	9,908.63	173.31	58.081		
7,900.00	6,428.46	5,020.00	5,020.00	91.30	86.69	94.89	-8,182.00	5,661.84	10,093.52	9,929.22	174.46	57.790		
8,000.00	6,504.59	5,020.00	5,020.00	92.70	86.69	94.89	-8,182.00	5,661.84	10,113.23	9,949.81	175.61	57.499		
8,100.00	6,580.72	5,020.00	5,020.00	94.10	86.69	94.89	-8,182.00	5,661.84	10,132.94	9,970.40	176.76	57.208		
8,200.00	6,656.85	5,020.00	5,020.00	95.50	86.69	94.89	-8,182.00	5,661.84	10,152.65	9,991.00	177.91	56.917		
8,300.00	6,732.98	5,020.00	5,020.00	96.90	86.69	94.89	-8,182.00	5,661.84	10,172.36	10,011.59	179.06	56.626		
8,400.00	6,809.11	5,020.00	5,020.00	98.30	86.69	94.89	-8,182.00	5,661.84	10,192.07	10,032.18	180.21	56.335		
8,500.00	6,885.24	5,020.00	5,020.00	99.70	86.69	94.89	-8,182.00	5,661.84	10,211.78	10,052.77	181.36	56.044		
8,600.00	6,961.37	5,020.00	5,020.00	101.10	86.69	94.89	-8,182.00	5,661.84	10,231.49	10,073.36	182.51	55.753		
8,700.00	7,037.50	5,020.00	5,020.00	102.50	86.69	94.89	-8,182.00	5,661.84	10,251.20	10,093.95	183.66	55.462		
8,800.00	7,113.63	5,020.00	5,020.00	103.90	86.69	94.89	-8,182.00	5,661.84	10,270.91	10,114.54	184.81	55.171		
8,900.00	7,189.76	5,020.00	5,020.00	105.30	86.69	94.89	-8,182.00	5,661.84	10,290.62	10,135.13	185.96	54.880		
9,000.00	7,265.89	5,020.00	5,020.00	106.70	86.69	94.89	-8,182.00	5,661.84	10,310.33	10,155.72	187.11	54.589		
9,100.00	7,342.02	5,020.00	5,020.00	108.10	86.69	94.89	-8,182.00	5,661.84	10,330.04	10,176.31	188.26	54.298		
9,200.00	7,418.15	5,020.00	5,020.00	109.50	86.69	94.89	-8,182.00	5,661.84	10,349.75	10,196.90	189.41	54.007		
9,300.00	7,494.28	5,020.00	5,020.00	110.90	86.69	94.89	-8,182.00	5,661.84	10,369.46	10,217.49	190.56	53.716		
9,400.00	7,570.41	5,020.00	5,020.00	112.30	86.69	94.89	-8,182.00	5,661.84	10,389.17	10,238.08	191.71	53.425		
9,500.00	7,646.54	5,020.00	5,020.00	113.70	86.69	94.89	-8,182.00	5,661.84	10,408.88	10,258.67	192.86	53.134		
9,600.00	7,722.67	5,020.00	5,020.00	115.10	86.69	94.89	-8,182.00	5,661.84	10,428.59	10,279.26	194.01	52.843		
9,700.00	7,798.80	5,020.00	5,020.00	116.50	86.69	94.89	-8,182.00	5,661.84	10,448.30	10,300.85	195.16	52.552		
9,800.00	7,874.93	5,020.00	5,020.00	117.90	86.69	94.89	-8,182.00	5,661.84	10,468.01	10,321.44	196.31	52.261		
9,900.00	7,951.06	5,020.00	5,020.00	119.30	86.69	94.89	-8,182.00	5,661.84	10,487.72	10,342.03	197.46	51.970		
10,000.00	8,027.19	5,020.00	5,020.00	120.70	86.69	94.89	-8,182.00	5,661.84	10,507.43	10,362.62	198.61	51.679		
10,100.00	8,103.32	5,020.00	5,020.00	122.10	86.69	94.89	-8,182.00	5,661.84	10,527.14	10,383.21	199.76	51.388		
10,200.00	8,179.45	5,020.00	5,020.00	123.50	86.69	94.89	-8,182.00	5,661.84	10,546.85	10,403.80	200.91	51.097		
10,300.00	8,255.58	5,020.00	5,020.00	124.90	86.69	94.89	-8,182.00	5,661.84	10,566.56	10,424.39	202.06	50.806		
10,400.00	8,331.71	5,020.00	5,020.00	126.30	86.69	94.89	-8,182.00	5,661.84	10,586.27	10,444.98	203.21	50.515		
10,500.00	8,407.84	5,020.00	5,020.00	127.70	86.69	94.89	-8,182.00	5,661.84	10,605.98	10,465.57	204.36	50.224		
10,600.00	8,483.97	5,020.00	5,020.00	129.10	86.69	94.89	-8,182.00	5,661.84	10,625.69	10,486.16	205.51	49.933		
10,700.00	8,560.10	5,020.00	5,020.00	130.50	86.69	94.89	-8,182.00	5,661.84	10,645.40	10,506.75	206.66	49.642		
10,800.00	8,636.23	5,020.00	5,020.00	131.90	86.69	94.89	-8,182.00	5,661.84	10,665.11	10,527.34	207.81	49.351		
10,900.00	8,712.36	5,020.00	5,020.00	133.30	86.69	94.89	-8,182.00	5,661.84	10,684.82	10,547.93	208.96	49.060		
11,000.00	8,788.49	5,020.00	5,020.00	134.70	86.69	94.89	-8,182.00	5,661.84	10,704.53	10,568.52	210.11	48.769		
11,100.00	8,864.62	5,020.00	5,020.00	136.10	86.69	94.89	-8,182.00	5,661.84	10,724.24	10,589.11	211.26	48.478		
11,200.00	8,940.75	5,020.00	5,020.00	137.50	86.69	94.89	-8,182.00	5,661.84	10,743.95	10,609.70	212.41	48.187		
11,300.00	9,016.88	5,020.00	5,020.00	138.90	86.69	94.89	-8,182.00	5,661.84	10,763.66	10,630.29	213.56	47.896		
11,400.00	9,093.01	5,020.00	5,020.00	140.30	86.69	94.89	-8,182.00	5,661.84	10,783.37	10,650.88	214.71	47.605		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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-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		
12,200.00	7,630.00	5,020.00	5,020.00	104.42	86.69	-18.54	-8,182.00	5,661.84	7,596.21	7,416.88	179.33	42.359		
12,300.00	7,630.00	5,020.00	5,020.00	104.45	86.69	-18.54	-8,182.00	5,661.84	7,502.92	7,323.96	178.96	41.925		
12,400.00	7,630.00	5,020.00	5,020.00	104.49	86.69	-18.54	-8,182.00	5,661.84	7,409.80	7,231.22	178.58	41.494		
12,500.00	7,630.00	5,020.00	5,020.00	104.55	86.69	-18.54	-8,182.00	5,661.84	7,316.86	7,138.68	178.19	41.063		
12,600.00	7,630.00	5,020.00	5,020.00	104.63	86.69	-18.54	-8,182.00	5,661.84	7,224.11	7,046.33	177.78	40.634		
12,700.00	7,630.00	5,020.00	5,020.00	104.73	86.69	-18.54	-8,182.00	5,661.84	7,131.56	6,954.19	177.37	40.206		
12,800.00	7,630.00	5,020.00	5,020.00	104.85	86.69	-18.54	-8,182.00	5,661.84	7,039.21	6,862.26	176.95	39.780		
12,900.00	7,630.00	5,020.00	5,020.00	104.99	86.69	-18.54	-8,182.00	5,661.84	6,947.08	6,770.56	176.52	39.356		
13,000.00	7,630.00	5,020.00	5,020.00	105.15	86.69	-18.54	-8,182.00	5,661.84	6,855.16	6,679.08	176.08	38.933		
13,100.00	7,630.00	5,020.00	5,020.00	105.34	86.69	-18.54	-8,182.00	5,661.84	6,763.47	6,587.85	175.62	38.511		
13,200.00	7,630.00	5,020.00	5,020.00	105.56	86.69	-18.54	-8,182.00	5,661.84	6,672.03	6,496.87	175.16	38.092		
13,300.00	7,630.00	5,020.00	5,020.00	105.80	86.69	-18.54	-8,182.00	5,661.84	6,580.83	6,406.15	174.68	37.674		
13,400.00	7,630.00	5,020.00	5,020.00	106.06	86.69	-18.54	-8,182.00	5,661.84	6,489.89	6,315.70	174.19	37.258		
13,500.00	7,630.00	5,020.00	5,020.00	106.36	86.69	-18.54	-8,182.00	5,661.84	6,399.22	6,225.53	173.68	36.844		
13,600.00	7,630.00	5,020.00	5,020.00	106.68	86.69	-18.54	-8,182.00	5,661.84	6,308.83	6,135.66	173.17	36.432		
13,700.00	7,630.00	5,020.00	5,020.00	107.03	86.69	-18.54	-8,182.00	5,661.84	6,218.73	6,046.10	172.64	36.022		
13,800.00	7,630.00	5,020.00	5,020.00	107.42	86.69	-18.54	-8,182.00	5,661.84	6,128.95	5,956.86	172.09	35.614		
13,900.00	7,630.00	5,020.00	5,020.00	107.83	86.69	-18.54	-8,182.00	5,661.84	6,039.48	5,867.95	171.53	35.209		
14,000.00	7,630.00	5,020.00	5,020.00	108.28	86.69	-18.54	-8,182.00	5,661.84	5,950.35	5,779.39	170.96	34.805		
14,100.00	7,630.00	5,020.00	5,020.00	108.77	86.69	-18.54	-8,182.00	5,661.84	5,861.57	5,691.20	170.37	34.405		
14,200.00	7,630.00	5,020.00	5,020.00	109.29	86.69	-18.54	-8,182.00	5,661.84	5,773.16	5,603.39	169.77	34.006		
14,300.00	7,630.00	5,020.00	5,020.00	109.84	86.69	-18.54	-8,182.00	5,661.84	5,685.13	5,515.99	169.15	33.610		
14,400.00	7,630.00	5,020.00	5,020.00	110.43	86.69	-18.54	-8,182.00	5,661.84	5,597.51	5,429.00	168.51	33.217		
14,500.00	7,630.00	5,020.00	5,020.00	111.06	86.69	-18.54	-8,182.00	5,661.84	5,510.30	5,342.44	167.86	32.826		
14,600.00	7,630.00	5,020.00	5,020.00	111.72	86.69	-18.54	-8,182.00	5,661.84	5,423.54	5,256.35	167.19	32.439		
14,700.00	7,630.00	5,020.00	5,020.00	112.42	86.69	-18.54	-8,182.00	5,661.84	5,337.24	5,170.73	166.51	32.054		
14,800.00	7,630.00	5,020.00	5,020.00	113.16	86.69	-18.54	-8,182.00	5,661.84	5,251.43	5,085.62	165.81	31.672		
14,900.00	7,630.00	5,020.00	5,020.00	113.94	86.69	-18.54	-8,182.00	5,661.84	5,166.12	5,001.04	165.09	31.293		
15,000.00	7,630.00	5,020.00	5,020.00	114.75	86.69	-18.54	-8,182.00	5,661.84	5,081.36	4,917.01	164.35	30.917		
15,100.00	7,630.00	5,020.00	5,020.00	115.60	86.69	-18.54	-8,182.00	5,661.84	4,997.15	4,833.55	163.60	30.545		
15,200.00	7,630.00	5,020.00	5,020.00	116.48	86.69	-18.54	-8,182.00	5,661.84	4,913.54	4,750.71	162.83	30.176		
15,300.00	7,630.00	5,020.00	5,020.00	117.40	86.69	-18.54	-8,182.00	5,661.84	4,830.55	4,668.51	162.04	29.810		
15,400.00	7,630.00	5,020.00	5,020.00	118.35	86.69	-18.54	-8,182.00	5,661.84	4,748.22	4,586.98	161.24	29.448		
15,500.00	7,630.00	5,020.00	5,020.00	119.34	86.69	-18.54	-8,182.00	5,661.84	4,666.58	4,506.15	160.42	29.089		
15,600.00	7,630.00	5,020.00	5,020.00	120.35	86.69	-18.54	-8,182.00	5,661.84	4,585.66	4,426.07	159.59	28.734		
15,700.00	7,630.00	5,020.00	5,020.00	121.40	86.69	-18.54	-8,182.00	5,661.84	4,505.51	4,346.77	158.74	28.382		
15,800.00	7,630.00	5,020.00	5,020.00	122.48	86.69	-18.54	-8,182.00	5,661.84	4,426.17	4,268.29	157.88	28.035		
15,900.00	7,630.00	5,020.00	5,020.00	123.58	86.69	-18.54	-8,182.00	5,661.84	4,347.68	4,190.67	157.01	27.691		
16,000.00	7,630.00	5,020.00	5,020.00	124.71	86.69	-18.54	-8,182.00	5,661.84	4,270.09	4,113.97	156.13	27.350		
16,100.00	7,630.00	5,020.00	5,020.00	125.87	86.69	-18.54	-8,182.00	5,661.84	4,193.45	4,038.22	155.23	27.014		
16,200.00	7,630.00	5,020.00	5,020.00	127.05	86.69	-18.54	-8,182.00	5,661.84	4,117.81	3,963.48	154.34	26.681		
16,300.00	7,630.00	5,020.00	5,020.00	128.26	86.69	-18.54	-8,182.00	5,661.84	4,043.23	3,889.80	153.43	26.352		
16,400.00	7,630.00	5,020.00	5,020.00	129.48	86.69	-18.54	-8,182.00	5,661.84	3,969.77	3,817.24	152.53	26.026		
16,500.00	7,630.00	5,020.00	5,020.00	130.73	86.69	-18.54	-8,182.00	5,661.84	3,897.49	3,745.86	151.63	25.704		
16,600.00	7,630.00	5,020.00	5,020.00	132.00	86.69	-18.54	-8,182.00	5,661.84	3,826.46	3,675.73	150.73	25.386		
16,700.00	7,630.00	5,020.00	5,020.00	133.29	86.69	-18.54	-8,182.00	5,661.84	3,756.74	3,606.90	149.84	25.071		
16,800.00	7,630.00	5,020.00	5,020.00	134.59	86.69	-18.54	-8,182.00	5,661.84	3,688.42	3,539.46	148.97	24.760		
16,900.00	7,630.00	5,020.00	5,020.00	135.91	86.69	-18.54	-8,182.00	5,661.84	3,621.58	3,473.47	148.11	24.452		
17,000.00	7,630.00	5,020.00	5,020.00	137.25	86.69	-18.54	-8,182.00	5,661.84	3,556.29	3,409.01	147.27	24.147		
17,100.00	7,630.00	5,020.00	5,020.00	138.61	86.69	-18.54	-8,182.00	5,661.84	3,492.64	3,346.17	146.47	23.846		
17,200.00	7,630.00	5,020.00	5,020.00	139.97	86.69	-18.54	-8,182.00	5,661.84	3,430.72	3,285.03	145.69	23.547		
17,300.00	7,630.00	5,020.00	5,020.00	141.36	86.69	-18.54	-8,182.00	5,661.84	3,370.64	3,225.68	144.96	23.252		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,400.00	7,630.00	5,020.00	5,020.00	142.75	86.69	-18.54	-8,182.00	5,661.84	3,312.49	3,168.21	144.27	22.960	
17,500.00	7,630.00	5,020.00	5,020.00	144.16	86.69	-18.54	-8,182.00	5,661.84	3,256.36	3,112.73	143.64	22.670	
17,600.00	7,630.00	5,020.00	5,020.00	145.58	86.69	-18.54	-8,182.00	5,661.84	3,202.38	3,059.32	143.06	22.384	
17,700.00	7,630.00	5,020.00	5,020.00	147.01	86.69	-18.54	-8,182.00	5,661.84	3,150.65	3,008.10	142.55	22.102	
17,800.00	7,630.00	5,020.00	5,020.00	148.45	86.69	-18.54	-8,182.00	5,661.84	3,101.28	2,959.17	142.12	21.822	
17,900.00	7,630.00	5,020.00	5,020.00	149.91	86.69	-18.54	-8,182.00	5,661.84	3,054.39	2,912.63	141.76	21.546	
18,000.00	7,630.00	5,020.00	5,020.00	151.37	86.69	-18.54	-8,182.00	5,661.84	3,010.09	2,868.60	141.49	21.274	
18,100.00	7,630.00	5,020.00	5,020.00	152.84	86.69	-18.54	-8,182.00	5,661.84	2,968.50	2,827.19	141.32	21.006	
18,200.00	7,630.00	5,020.00	5,020.00	154.32	86.69	-18.54	-8,182.00	5,661.84	2,929.74	2,788.49	141.25	20.742	
18,300.00	7,630.00	5,020.00	5,020.00	155.81	86.69	-18.54	-8,182.00	5,661.84	2,893.91	2,752.61	141.30	20.481	
18,400.00	7,630.00	5,020.00	5,020.00	157.31	86.69	-18.54	-8,182.00	5,661.84	2,861.13	2,719.66	141.47	20.224	
18,500.00	7,630.00	5,020.00	5,020.00	158.81	86.69	-18.54	-8,182.00	5,661.84	2,831.50	2,689.71	141.79	19.970	
18,600.00	7,630.00	5,020.00	5,020.00	160.32	86.69	-18.54	-8,182.00	5,661.84	2,805.13	2,662.87	142.26	19.719	
18,700.00	7,630.00	5,020.00	5,020.00	161.84	86.69	-18.54	-8,182.00	5,661.84	2,782.10	2,639.20	142.90	19.469	
18,800.00	7,630.00	5,020.00	5,020.00	163.37	86.69	-18.54	-8,182.00	5,661.84	2,762.51	2,618.77	143.73	19.219	
18,900.00	7,630.00	5,020.00	5,020.00	164.90	86.69	-18.54	-8,182.00	5,661.84	2,746.41	2,601.64	144.78	18.970	
19,000.00	7,630.00	5,020.00	5,020.00	166.43	86.69	-18.54	-8,182.00	5,661.84	2,733.89	2,587.84	146.05	18.719	
19,100.00	7,630.00	5,020.00	5,020.00	167.98	86.69	-18.54	-8,182.00	5,661.84	2,724.98	2,577.41	147.57	18.466	
19,200.00	7,630.00	5,020.00	5,020.00	169.53	86.69	-18.54	-8,182.00	5,661.84	2,719.71	2,570.38	149.34	18.212	
19,293.26	7,630.00	5,020.00	5,020.00	170.98	86.69	-18.54	-8,182.00	5,661.84	2,718.11	2,566.90	151.21	17.976 CC	
19,300.00	7,630.00	5,020.00	5,020.00	171.08	86.69	-18.54	-8,182.00	5,661.84	2,718.12	2,566.77	151.36	17.959	
19,400.00	7,630.00	5,020.00	5,020.00	172.64	86.69	-18.54	-8,182.00	5,661.84	2,720.21	2,566.59	153.62	17.708 ES	
19,500.00	7,630.00	5,020.00	5,020.00	174.21	86.69	-18.54	-8,182.00	5,661.84	2,725.97	2,569.87	156.10	17.463	
19,518.56	7,630.00	5,020.00	5,020.00	174.50	86.69	-18.54	-8,182.00	5,661.84	2,727.44	2,570.85	156.58	17.419 SF	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.46	-5,565.53	1,758.81	5,836.90					
100.00	100.00	71.00	71.00	0.13	0.58	162.46	-5,565.53	1,758.81	5,836.83	5,836.12	0.71	8,213.390		
200.00	200.00	171.00	171.00	0.49	2.05	162.46	-5,565.53	1,758.81	5,836.83	5,834.29	2.54	2,294.657		
300.00	300.00	271.00	271.00	0.85	3.80	162.46	-5,565.53	1,758.81	5,836.83	5,832.18	4.65	1,255.918		
400.00	400.00	371.00	371.00	1.21	5.54	162.46	-5,565.53	1,758.81	5,836.83	5,830.08	6.75	864.554		
500.00	499.98	470.98	470.98	1.56	7.29	95.75	-5,565.53	1,758.81	5,837.01	5,828.15	8.85	659.523		
600.00	599.84	570.84	570.84	1.92	9.03	95.79	-5,565.53	1,758.81	5,837.53	5,826.58	10.95	533.191		
700.00	699.45	670.45	670.45	2.29	10.77	95.86	-5,565.53	1,758.81	5,838.42	5,825.37	13.05	447.312		
800.00	798.70	769.70	769.70	2.67	12.50	95.95	-5,565.53	1,758.81	5,839.68	5,824.52	15.17	385.074		
900.00	897.47	868.47	868.47	3.07	14.22	96.07	-5,565.53	1,758.81	5,841.34	5,824.05	17.29	337.835		
1,000.00	995.62	966.62	966.62	3.50	15.94	96.21	-5,565.53	1,758.81	5,843.42	5,823.99	19.43	300.704		
1,100.00	1,093.06	1,064.06	1,064.06	3.96	17.64	96.37	-5,565.53	1,758.81	5,845.95	5,824.36	21.59	270.711		
1,200.00	1,189.64	1,160.64	1,160.64	4.46	19.32	96.56	-5,565.53	1,758.81	5,848.97	5,825.19	23.78	245.952		
1,300.00	1,285.27	1,256.27	1,256.27	5.00	20.99	96.76	-5,565.53	1,758.81	5,852.51	5,826.52	25.99	225.150		
1,400.00	1,379.82	1,350.82	1,350.82	5.60	22.64	96.98	-5,565.53	1,758.81	5,856.63	5,828.39	28.24	207.415		
1,500.00	1,473.17	1,444.17	1,444.17	6.25	24.27	97.21	-5,565.53	1,758.81	5,861.36	5,830.85	30.51	192.111		
1,600.00	1,565.21	1,536.21	1,536.21	6.95	25.88	97.45	-5,565.53	1,758.81	5,866.77	5,833.95	32.82	178.771		
1,700.00	1,655.84	1,626.84	1,626.84	7.72	27.46	97.70	-5,565.53	1,758.81	5,872.91	5,837.75	35.16	167.042		
1,800.00	1,744.94	1,715.94	1,715.94	8.55	29.01	97.95	-5,565.53	1,758.81	5,879.83	5,842.30	37.53	156.654		
1,900.00	1,832.39	1,803.39	1,803.39	9.45	30.54	98.21	-5,565.53	1,758.81	5,887.60	5,847.66	39.94	147.397		
2,000.00	1,918.11	1,889.11	1,889.11	10.41	32.04	98.46	-5,565.53	1,758.81	5,896.28	5,853.89	42.39	139.103		
2,100.00	2,001.97	1,972.97	1,972.97	11.45	33.50	98.71	-5,565.53	1,758.81	5,905.94	5,861.07	44.87	131.638		
2,200.00	2,083.88	2,054.88	2,054.88	12.56	34.93	98.95	-5,565.53	1,758.81	5,916.63	5,869.26	47.37	124.892		
2,300.00	2,163.74	2,134.74	2,134.74	13.74	36.32	99.18	-5,565.53	1,758.81	5,928.42	5,878.51	49.91	118.776		
2,400.00	2,241.45	2,212.45	2,212.45	14.99	37.68	99.39	-5,565.53	1,758.81	5,941.38	5,888.91	52.48	113.215		
2,421.22	2,257.65	2,228.65	2,228.65	15.26	37.96	99.43	-5,565.53	1,758.81	5,944.29	5,891.26	53.03	112.102		
2,500.00	2,317.63	2,288.63	2,288.63	16.29	39.01	99.81	-5,565.53	1,758.81	5,955.39	5,900.33	55.06	108.154		
2,600.00	2,393.75	2,364.75	2,364.75	17.62	40.34	100.28	-5,565.53	1,758.81	5,970.08	5,912.43	57.66	103.542		
2,700.00	2,469.88	2,440.88	2,440.88	18.95	41.67	100.75	-5,565.53	1,758.81	5,985.44	5,925.19	60.26	99.331		
2,800.00	2,546.01	2,517.01	2,517.01	20.30	43.00	101.22	-5,565.53	1,758.81	6,001.46	5,938.60	62.86	95.476		
2,900.00	2,622.13	2,606.87	2,593.13	21.65	44.56	101.69	-5,565.53	1,758.81	6,018.14	5,952.44	65.70	91.603		
3,000.00	2,698.26	2,669.26	2,669.26	23.01	45.65	102.15	-5,565.53	1,758.81	6,035.47	5,967.41	68.06	88.682		
3,100.00	2,774.38	2,745.38	2,745.38	24.37	46.98	102.62	-5,565.53	1,758.81	6,053.44	5,982.78	70.65	85.679		
3,200.00	2,850.51	2,821.51	2,821.51	25.74	48.31	103.08	-5,565.53	1,758.81	6,072.05	5,998.81	73.24	82.903		
3,300.00	2,926.64	2,902.36	2,897.64	27.11	49.72	103.54	-5,565.53	1,758.81	6,091.29	6,015.38	75.91	80.243		
3,400.00	3,002.76	2,973.76	2,973.76	28.49	50.97	104.00	-5,565.53	1,758.81	6,111.16	6,032.76	78.41	77.941		
3,500.00	3,078.89	3,049.89	3,049.89	29.87	52.30	104.46	-5,565.53	1,758.81	6,131.66	6,050.68	80.98	75.718		
3,600.00	3,155.02	3,126.02	3,126.02	31.25	53.63	104.91	-5,565.53	1,758.81	6,152.77	6,069.22	83.55	73.645		
3,700.00	3,231.14	3,202.14	3,202.14	32.63	54.95	105.37	-5,565.53	1,758.81	6,174.48	6,088.38	86.10	71.710		
3,800.00	3,307.27	3,278.27	3,278.27	34.01	56.28	105.82	-5,565.53	1,758.81	6,196.80	6,108.15	88.65	69.899		
3,900.00	3,383.39	3,354.39	3,354.39	35.40	57.61	106.27	-5,565.53	1,758.81	6,219.72	6,128.53	91.19	68.203		
4,000.00	3,459.52	3,430.52	3,430.52	36.79	58.94	106.72	-5,565.53	1,758.81	6,243.22	6,149.50	93.73	66.611		
4,100.00	3,535.65	3,506.65	3,506.65	38.18	60.27	107.16	-5,565.53	1,758.81	6,267.31	6,171.06	96.25	65.116		
4,200.00	3,611.77	3,582.77	3,582.77	39.57	61.60	107.61	-5,565.53	1,758.81	6,291.98	6,193.21	98.76	63.708		
4,300.00	3,687.90	3,658.90	3,658.90	40.96	62.93	108.05	-5,565.53	1,758.81	6,317.21	6,215.94	101.27	62.382		
4,400.00	3,764.02	3,735.02	3,735.02	42.35	64.25	108.49	-5,565.53	1,758.81	6,343.01	6,239.25	103.76	61.132		
4,500.00	3,840.15	3,811.15	3,811.15	43.74	65.58	108.92	-5,565.53	1,758.81	6,369.36	6,263.11	106.24	59.951		
4,600.00	3,916.28	3,887.28	3,887.28	45.13	66.91	109.36	-5,565.53	1,758.81	6,396.26	6,287.54	108.72	58.834		
4,700.00	3,992.40	3,963.40	3,963.40	46.53	68.24	109.79	-5,565.53	1,758.81	6,423.70	6,312.52	111.18	57.778		
4,800.00	4,068.53	4,039.53	4,039.53	47.92	69.57	110.22	-5,565.53	1,758.81	6,451.68	6,338.05	113.63	56.777		
4,900.00	4,144.66	4,115.66	4,115.66	49.32	70.90	110.65	-5,565.53	1,758.81	6,480.18	6,364.11	116.07	55.828		
5,000.00	4,220.78	4,208.22	4,191.78	50.71	72.51	111.07	-5,565.53	1,758.81	6,509.21	6,390.42	118.79	54.795		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	4,267.91	4,267.91	52.11	73.56	111.50	-5,565.53	1,758.81	6,538.75	6,417.83	120.93	54.073		
5,200.00	4,373.03	4,344.03	4,344.03	53.51	74.88	111.92	-5,565.53	1,758.81	6,568.80	6,445.47	123.34	53.260		
5,300.00	4,449.16	4,420.16	4,420.16	54.90	76.21	112.33	-5,565.53	1,758.81	6,599.35	6,473.61	125.73	52.487		
5,400.00	4,525.29	4,503.71	4,496.29	56.30	77.67	112.75	-5,565.53	1,758.81	6,630.39	6,502.14	128.25	51.698		
5,500.00	4,601.41	4,572.41	4,572.41	57.70	78.87	113.16	-5,565.53	1,758.81	6,661.92	6,531.42	130.50	51.049		
5,600.00	4,677.54	4,648.54	4,648.54	59.10	80.20	113.57	-5,565.53	1,758.81	6,693.93	6,561.06	132.87	50.381		
5,700.00	4,753.66	4,724.66	4,724.66	60.49	81.53	113.98	-5,565.53	1,758.81	6,726.41	6,591.19	135.22	49.744		
5,800.00	4,829.79	4,800.79	4,800.79	61.89	82.86	114.39	-5,565.53	1,758.81	6,759.36	6,621.79	137.57	49.135		
5,900.00	4,905.92	4,876.92	4,876.92	63.29	84.18	114.79	-5,565.53	1,758.81	6,792.76	6,652.86	139.90	48.554		
6,000.00	4,982.04	4,953.04	4,953.04	64.69	85.51	115.19	-5,565.53	1,758.81	6,826.62	6,684.40	142.22	47.999		
6,100.00	5,058.17	5,029.17	5,029.17	66.09	86.84	115.59	-5,565.53	1,758.81	6,860.93	6,716.39	144.54	47.468		
6,200.00	5,134.30	5,105.30	5,105.30	67.49	88.17	115.98	-5,565.53	1,758.81	6,895.67	6,748.83	146.84	46.961		
6,300.00	5,210.42	5,125.00	5,125.00	68.89	88.51	116.08	-5,565.53	1,758.81	6,931.08	6,782.97	148.11	46.797		
6,400.00	5,286.55	5,125.00	5,125.00	70.29	88.51	116.08	-5,565.53	1,758.81	6,967.71	6,818.72	148.99	46.765		
6,500.00	5,362.67	5,125.00	5,125.00	71.69	88.51	116.08	-5,565.53	1,758.81	7,005.58	6,855.73	149.85	46.751		
6,600.00	5,438.80	5,125.00	5,125.00	73.09	88.51	116.08	-5,565.53	1,758.81	7,044.66	6,893.99	150.68	46.754		
6,700.00	5,514.93	5,125.00	5,125.00	74.49	88.51	116.08	-5,565.53	1,758.81	7,084.95	6,933.47	151.47	46.773		
6,800.00	5,591.05	5,125.00	5,125.00	75.89	88.51	116.08	-5,565.53	1,758.81	7,126.40	6,974.16	152.24	46.809		
6,900.00	5,667.18	5,125.00	5,125.00	77.29	88.51	116.08	-5,565.53	1,758.81	7,169.02	7,016.03	152.99	46.860		
7,000.00	5,743.30	5,125.00	5,125.00	78.69	88.51	116.08	-5,565.53	1,758.81	7,212.76	7,059.06	153.70	46.927		
7,100.00	5,819.43	5,125.00	5,125.00	80.09	88.51	116.08	-5,565.53	1,758.81	7,257.62	7,103.23	154.39	47.008		
7,200.00	5,895.56	5,125.00	5,125.00	81.49	88.51	116.08	-5,565.53	1,758.81	7,303.58	7,148.52	155.05	47.103		
7,300.00	5,971.68	5,125.00	5,125.00	82.90	88.51	116.08	-5,565.53	1,758.81	7,350.61	7,194.91	155.69	47.212		
7,400.00	6,047.81	5,125.00	5,125.00	84.30	88.51	116.08	-5,565.53	1,758.81	7,398.69	7,242.38	156.30	47.335		
7,500.00	6,123.94	5,125.00	5,125.00	85.70	88.51	116.08	-5,565.53	1,758.81	7,447.80	7,290.91	156.89	47.470		
7,600.00	6,200.06	5,125.00	5,125.00	87.10	88.51	116.08	-5,565.53	1,758.81	7,497.93	7,340.47	157.46	47.619		
7,700.00	6,276.19	5,125.00	5,125.00	88.50	88.51	116.08	-5,565.53	1,758.81	7,549.04	7,391.04	158.00	47.779		
7,800.00	6,352.31	5,125.00	5,125.00	89.90	88.51	116.08	-5,565.53	1,758.81	7,601.13	7,442.61	158.52	47.951		
7,900.00	6,428.44	5,125.00	5,125.00	91.31	88.51	116.08	-5,565.53	1,758.81	7,654.17	7,495.16	159.02	48.134		
8,000.00	6,504.57	5,125.00	5,125.00	92.71	88.51	116.08	-5,565.53	1,758.81	7,708.15	7,548.65	159.49	48.329		
8,100.00	6,580.69	5,125.00	5,125.00	94.11	88.51	116.08	-5,565.53	1,758.81	7,763.03	7,603.08	159.95	48.534		
8,200.00	6,656.82	5,125.00	5,125.00	95.51	88.51	116.08	-5,565.53	1,758.81	7,818.82	7,658.43	160.39	48.750		
8,300.00	6,732.95	5,125.00	5,125.00	96.91	88.51	116.08	-5,565.53	1,758.81	7,875.47	7,714.67	160.80	48.976		
8,400.00	6,809.07	5,125.00	5,125.00	98.32	88.51	116.08	-5,565.53	1,758.81	7,932.98	7,771.78	161.20	49.212		
8,500.00	6,885.20	5,125.00	5,125.00	99.72	88.51	116.08	-5,565.53	1,758.81	7,991.33	7,829.75	161.58	49.457		
8,600.00	6,961.32	5,125.00	5,125.00	101.12	88.51	116.08	-5,565.53	1,758.81	8,050.50	7,888.55	161.95	49.711		
8,700.00	7,037.45	5,125.00	5,125.00	102.52	88.51	116.08	-5,565.53	1,758.81	8,110.47	7,948.18	162.29	49.975		
8,732.15	7,061.92	5,125.00	5,125.00	102.97	88.51	116.08	-5,565.53	1,758.81	8,129.91	7,967.51	162.40	50.061		
8,750.00	7,075.57	5,125.00	5,125.00	103.22	88.51	113.89	-5,565.53	1,758.81	8,140.53	7,978.07	162.46	50.108		
8,800.00	7,114.27	5,125.00	5,125.00	103.91	88.51	107.51	-5,565.53	1,758.81	8,167.98	8,005.34	162.64	50.222		
8,850.00	7,153.47	5,125.00	5,125.00	104.58	88.51	100.92	-5,565.53	1,758.81	8,191.94	8,029.12	162.82	50.312		
8,900.00	7,192.85	5,125.00	5,125.00	105.21	88.51	94.27	-5,565.53	1,758.81	8,212.27	8,049.26	163.02	50.377		
8,950.00	7,232.12	5,125.00	5,125.00	105.80	88.51	87.76	-5,565.53	1,758.81	8,228.84	8,065.63	163.21	50.418		
9,000.00	7,270.99	5,125.00	5,125.00	106.35	88.51	81.56	-5,565.53	1,758.81	8,241.54	8,078.14	163.40	50.437		
9,050.00	7,309.16	5,125.00	5,125.00	106.85	88.51	75.84	-5,565.53	1,758.81	8,250.30	8,086.72	163.58	50.435		
9,100.00	7,346.32	5,125.00	5,125.00	107.30	88.51	70.67	-5,565.53	1,758.81	8,255.06	8,091.31	163.75	50.412		
9,150.00	7,382.22	5,125.00	5,125.00	107.69	88.51	66.10	-5,565.53	1,758.81	8,255.79	8,091.89	163.90	50.370		
9,200.00	7,416.56	5,125.00	5,125.00	108.02	88.51	62.12	-5,565.53	1,758.81	8,252.49	8,088.45	164.03	50.309		
9,250.00	7,449.09	5,125.00	5,125.00	108.29	88.51	58.73	-5,565.53	1,758.81	8,245.17	8,081.03	164.14	50.231		
9,300.00	7,479.56	5,125.00	5,125.00	108.51	88.51	55.86	-5,565.53	1,758.81	8,233.89	8,069.66	164.23	50.136		
9,350.00	7,507.74	5,125.00	5,125.00	108.68	88.51	53.50	-5,565.53	1,758.81	8,218.71	8,054.42	164.30	50.024		
9,400.00	7,533.41	5,125.00	5,125.00	108.79	88.51	51.58	-5,565.53	1,758.81	8,199.73	8,035.40	164.34	49.896		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	5,125.00	5,125.00	108.86	88.51	50.09	-5,565.53	1,758.81	8,177.07	8,012.71	164.36	49.752		
9,500.00	7,576.48	5,125.00	5,125.00	108.88	88.51	49.01	-5,565.53	1,758.81	8,150.86	7,986.50	164.35	49.593		
9,550.00	7,593.55	5,125.00	5,125.00	108.86	88.51	48.31	-5,565.53	1,758.81	8,121.27	7,956.94	164.33	49.419		
9,600.00	7,607.46	5,125.00	5,125.00	108.80	88.51	48.00	-5,565.53	1,758.81	8,088.50	7,924.21	164.30	49.231		
9,650.00	7,618.11	5,125.00	5,125.00	108.71	88.51	48.11	-5,565.53	1,758.81	8,052.76	7,888.51	164.25	49.027		
9,700.00	7,625.41	5,125.00	5,125.00	108.59	88.51	48.69	-5,565.53	1,758.81	8,014.27	7,850.08	164.19	48.810		
9,750.00	7,629.30	5,125.00	5,125.00	108.45	88.51	49.82	-5,565.53	1,758.81	7,973.30	7,809.17	164.13	48.578		
9,781.81	7,630.00	5,125.00	5,125.00	108.35	88.51	50.91	-5,565.53	1,758.81	7,946.08	7,781.98	164.09	48.424		
9,800.00	7,630.00	5,125.00	5,125.00	108.29	88.51	50.91	-5,565.53	1,758.81	7,930.26	7,766.19	164.07	48.334		
9,900.00	7,630.00	5,125.00	5,125.00	107.97	88.51	50.91	-5,565.53	1,758.81	7,843.54	7,679.59	163.94	47.843		
10,000.00	7,630.00	5,125.00	5,125.00	107.67	88.51	50.91	-5,565.53	1,758.81	7,757.13	7,593.32	163.81	47.353		
10,100.00	7,630.00	5,125.00	5,125.00	107.38	88.51	50.91	-5,565.53	1,758.81	7,671.05	7,507.37	163.68	46.865		
10,200.00	7,630.00	5,125.00	5,125.00	107.10	88.51	50.91	-5,565.53	1,758.81	7,585.32	7,421.77	163.55	46.379		
10,300.00	7,630.00	5,125.00	5,125.00	106.84	88.51	50.91	-5,565.53	1,758.81	7,499.94	7,336.52	163.41	45.895		
10,400.00	7,630.00	5,125.00	5,125.00	106.59	88.51	50.91	-5,565.53	1,758.81	7,414.92	7,251.65	163.28	45.413		
10,500.00	7,630.00	5,125.00	5,125.00	106.35	88.51	50.91	-5,565.53	1,758.81	7,330.29	7,167.15	163.14	44.933		
10,600.00	7,630.00	5,125.00	5,125.00	106.13	88.51	50.91	-5,565.53	1,758.81	7,246.04	7,083.04	163.00	44.455		
10,700.00	7,630.00	5,125.00	5,125.00	105.92	88.51	50.91	-5,565.53	1,758.81	7,162.20	6,999.34	162.86	43.979		
10,800.00	7,630.00	5,125.00	5,125.00	105.72	88.51	50.91	-5,565.53	1,758.81	7,078.78	6,916.07	162.71	43.505		
10,900.00	7,630.00	5,125.00	5,125.00	105.54	88.51	50.91	-5,565.53	1,758.81	6,995.79	6,833.23	162.56	43.034		
11,000.00	7,630.00	5,125.00	5,125.00	105.37	88.51	50.91	-5,565.53	1,758.81	6,913.26	6,750.84	162.42	42.565		
11,100.00	7,630.00	5,125.00	5,125.00	105.21	88.51	50.91	-5,565.53	1,758.81	6,831.19	6,668.92	162.27	42.098		
11,200.00	7,630.00	5,125.00	5,125.00	105.06	88.51	50.91	-5,565.53	1,758.81	6,749.60	6,587.49	162.12	41.634		
11,300.00	7,630.00	5,125.00	5,125.00	104.93	88.51	50.91	-5,565.53	1,758.81	6,668.52	6,506.56	161.96	41.173		
11,400.00	7,630.00	5,125.00	5,125.00	104.82	88.51	50.91	-5,565.53	1,758.81	6,587.95	6,426.15	161.81	40.715		
11,500.00	7,630.00	5,125.00	5,125.00	104.72	88.51	50.91	-5,565.53	1,758.81	6,507.93	6,346.28	161.65	40.259		
11,600.00	7,630.00	5,125.00	5,125.00	104.63	88.51	50.91	-5,565.53	1,758.81	6,428.46	6,266.97	161.49	39.806		
11,700.00	7,630.00	5,125.00	5,125.00	104.55	88.51	50.91	-5,565.53	1,758.81	6,349.58	6,188.24	161.33	39.357		
11,800.00	7,630.00	5,125.00	5,125.00	104.50	88.51	50.91	-5,565.53	1,758.81	6,271.30	6,110.12	161.17	38.910		
11,900.00	7,630.00	5,125.00	5,125.00	104.45	88.51	50.91	-5,565.53	1,758.81	6,193.64	6,032.63	161.01	38.467		
12,000.00	7,630.00	5,125.00	5,125.00	104.43	88.51	50.91	-5,565.53	1,758.81	6,116.63	5,955.78	160.85	38.027		
12,100.00	7,630.00	5,125.00	5,125.00	104.42	88.51	50.91	-5,565.53	1,758.81	6,040.30	5,879.61	160.69	37.591		
12,200.00	7,630.00	5,125.00	5,125.00	104.42	88.51	50.91	-5,565.53	1,758.81	5,964.66	5,804.14	160.52	37.158		
12,300.00	7,630.00	5,125.00	5,125.00	104.45	88.51	50.91	-5,565.53	1,758.81	5,889.75	5,729.40	160.36	36.729		
12,400.00	7,630.00	5,125.00	5,125.00	104.49	88.51	50.91	-5,565.53	1,758.81	5,815.60	5,655.41	160.19	36.304		
12,500.00	7,630.00	5,125.00	5,125.00	104.55	88.51	50.91	-5,565.53	1,758.81	5,742.23	5,582.20	160.03	35.883		
12,600.00	7,630.00	5,125.00	5,125.00	104.63	88.51	50.91	-5,565.53	1,758.81	5,669.67	5,509.81	159.86	35.466		
12,700.00	7,630.00	5,125.00	5,125.00	104.73	88.51	50.91	-5,565.53	1,758.81	5,597.96	5,438.27	159.70	35.054		
12,800.00	7,630.00	5,125.00	5,125.00	104.85	88.51	50.91	-5,565.53	1,758.81	5,527.13	5,367.60	159.53	34.646		
12,900.00	7,630.00	5,125.00	5,125.00	104.99	88.51	50.91	-5,565.53	1,758.81	5,457.22	5,297.85	159.37	34.243		
13,000.00	7,630.00	5,125.00	5,125.00	105.15	88.51	50.91	-5,565.53	1,758.81	5,388.25	5,229.04	159.21	33.844		
13,100.00	7,630.00	5,125.00	5,125.00	105.34	88.51	50.91	-5,565.53	1,758.81	5,320.27	5,161.22	159.05	33.451		
13,200.00	7,630.00	5,125.00	5,125.00	105.56	88.51	50.91	-5,565.53	1,758.81	5,253.31	5,094.41	158.89	33.062		
13,300.00	7,630.00	5,125.00	5,125.00	105.80	88.51	50.91	-5,565.53	1,758.81	5,187.41	5,028.67	158.74	32.679		
13,400.00	7,630.00	5,125.00	5,125.00	106.06	88.51	50.91	-5,565.53	1,758.81	5,122.62	4,964.03	158.59	32.302		
13,500.00	7,630.00	5,125.00	5,125.00	106.36	88.51	50.91	-5,565.53	1,758.81	5,058.98	4,900.54	158.44	31.930		
13,600.00	7,630.00	5,125.00	5,125.00	106.68	88.51	50.91	-5,565.53	1,758.81	4,996.52	4,838.22	158.30	31.564		
13,700.00	7,630.00	5,125.00	5,125.00	107.03	88.51	50.91	-5,565.53	1,758.81	4,935.31	4,777.14	158.16	31.204		
13,800.00	7,630.00	5,125.00	5,125.00	107.42	88.51	50.91	-5,565.53	1,758.81	4,875.37	4,717.34	158.03	30.850		
13,900.00	7,630.00	5,125.00	5,125.00	107.83	88.51	50.91	-5,565.53	1,758.81	4,816.77	4,658.86	157.91	30.503		
14,000.00	7,630.00	5,125.00	5,125.00	108.28	88.51	50.91	-5,565.53	1,758.81	4,759.55	4,601.75	157.79	30.163		
14,100.00	7,630.00	5,125.00	5,125.00	108.77	88.51	50.91	-5,565.53	1,758.81	4,703.75	4,546.06	157.69	29.830		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,630.00	5,125.00	5,125.00	109.29	88.51	50.91	-5,565.53	1,758.81	4,649.44	4,491.85	157.59	29.503		
14,300.00	7,630.00	5,125.00	5,125.00	109.84	88.51	50.91	-5,565.53	1,758.81	4,596.66	4,439.16	157.50	29.185		
14,400.00	7,630.00	5,125.00	5,125.00	110.43	88.51	50.91	-5,565.53	1,758.81	4,545.47	4,388.04	157.43	28.874		
14,500.00	7,630.00	5,125.00	5,125.00	111.06	88.51	50.91	-5,565.53	1,758.81	4,495.92	4,338.56	157.36	28.570		
14,600.00	7,630.00	5,125.00	5,125.00	111.72	88.51	50.91	-5,565.53	1,758.81	4,448.07	4,290.76	157.31	28.275		
14,700.00	7,630.00	5,125.00	5,125.00	112.42	88.51	50.91	-5,565.53	1,758.81	4,401.97	4,244.69	157.28	27.989		
14,800.00	7,630.00	5,125.00	5,125.00	113.16	88.51	50.91	-5,565.53	1,758.81	4,357.67	4,200.42	157.26	27.711		
14,900.00	7,630.00	5,125.00	5,125.00	113.94	88.51	50.91	-5,565.53	1,758.81	4,315.24	4,157.99	157.25	27.442		
15,000.00	7,630.00	5,125.00	5,125.00	114.75	88.51	50.91	-5,565.53	1,758.81	4,274.73	4,117.46	157.27	27.181		
15,100.00	7,630.00	5,125.00	5,125.00	115.60	88.51	50.91	-5,565.53	1,758.81	4,236.19	4,078.89	157.30	26.931		
15,200.00	7,630.00	5,125.00	5,125.00	116.48	88.51	50.91	-5,565.53	1,758.81	4,199.68	4,042.33	157.35	26.690		
15,300.00	7,630.00	5,125.00	5,125.00	117.40	88.51	50.91	-5,565.53	1,758.81	4,165.25	4,007.83	157.43	26.459		
15,400.00	7,630.00	5,125.00	5,125.00	118.35	88.51	50.91	-5,565.53	1,758.81	4,132.96	3,975.44	157.52	26.238		
15,500.00	7,630.00	5,125.00	5,125.00	119.34	88.51	50.91	-5,565.53	1,758.81	4,102.85	3,945.21	157.64	26.027		
15,600.00	7,630.00	5,125.00	5,125.00	120.35	88.51	50.91	-5,565.53	1,758.81	4,074.97	3,917.19	157.78	25.827		
15,700.00	7,630.00	5,125.00	5,125.00	121.40	88.51	50.91	-5,565.53	1,758.81	4,049.37	3,891.42	157.95	25.638		
15,800.00	7,630.00	5,125.00	5,125.00	122.48	88.51	50.91	-5,565.53	1,758.81	4,026.09	3,867.95	158.14	25.460		
15,900.00	7,630.00	5,125.00	5,125.00	123.58	88.51	50.91	-5,565.53	1,758.81	4,005.17	3,846.82	158.35	25.293		
16,000.00	7,630.00	5,125.00	5,125.00	124.71	88.51	50.91	-5,565.53	1,758.81	3,986.65	3,828.06	158.59	25.138		
16,100.00	7,630.00	5,125.00	5,125.00	125.87	88.51	50.91	-5,565.53	1,758.81	3,970.56	3,811.71	158.86	24.994		
16,200.00	7,630.00	5,125.00	5,125.00	127.05	88.51	50.91	-5,565.53	1,758.81	3,956.94	3,797.79	159.15	24.863		
16,300.00	7,630.00	5,125.00	5,125.00	128.26	88.51	50.91	-5,565.53	1,758.81	3,945.81	3,786.34	159.47	24.744		
16,400.00	7,630.00	5,125.00	5,125.00	129.48	88.51	50.91	-5,565.53	1,758.81	3,937.18	3,777.38	159.81	24.637		
16,500.00	7,630.00	5,125.00	5,125.00	130.73	88.51	50.91	-5,565.53	1,758.81	3,931.08	3,770.91	160.17	24.543		
16,600.00	7,630.00	5,125.00	5,125.00	132.00	88.51	50.91	-5,565.53	1,758.81	3,927.52	3,766.96	160.56	24.462		
16,689.97	7,630.00	5,125.00	5,125.00	133.16	88.51	50.91	-5,565.53	1,758.81	3,926.49	3,765.57	160.92	24.400 CC		
16,700.00	7,630.00	5,125.00	5,125.00	133.29	88.51	50.91	-5,565.53	1,758.81	3,926.50	3,765.54	160.96	24.394 ES		
16,800.00	7,630.00	5,125.00	5,125.00	134.59	88.51	50.91	-5,565.53	1,758.81	3,928.03	3,766.64	161.39	24.339		
16,900.00	7,630.00	5,125.00	5,125.00	135.91	88.51	50.91	-5,565.53	1,758.81	3,932.10	3,770.27	161.84	24.297		
17,000.00	7,630.00	5,125.00	5,125.00	137.25	88.51	50.91	-5,565.53	1,758.81	3,938.71	3,776.41	162.30	24.268		
17,100.00	7,630.00	5,125.00	5,125.00	138.61	88.51	50.91	-5,565.53	1,758.81	3,947.84	3,785.06	162.78	24.253		
17,200.00	7,630.00	5,125.00	5,125.00	139.97	88.51	50.91	-5,565.53	1,758.81	3,959.47	3,796.21	163.27	24.252 SF		
17,300.00	7,630.00	5,125.00	5,125.00	141.36	88.51	50.91	-5,565.53	1,758.81	3,973.59	3,809.83	163.77	24.264		
17,400.00	7,630.00	5,125.00	5,125.00	142.75	88.51	50.91	-5,565.53	1,758.81	3,990.17	3,825.89	164.28	24.289		
17,500.00	7,630.00	5,125.00	5,125.00	144.16	88.51	50.91	-5,565.53	1,758.81	4,009.17	3,844.38	164.80	24.328		
17,600.00	7,630.00	5,125.00	5,125.00	145.58	88.51	50.91	-5,565.53	1,758.81	4,030.57	3,865.25	165.32	24.381		
17,700.00	7,630.00	5,125.00	5,125.00	147.01	88.51	50.91	-5,565.53	1,758.81	4,054.31	3,888.47	165.84	24.447		
17,800.00	7,630.00	5,125.00	5,125.00	148.45	88.51	50.91	-5,565.53	1,758.81	4,080.38	3,914.01	166.37	24.527		
17,900.00	7,630.00	5,125.00	5,125.00	149.91	88.51	50.91	-5,565.53	1,758.81	4,108.71	3,941.82	166.89	24.619		
18,000.00	7,630.00	5,125.00	5,125.00	151.37	88.51	50.91	-5,565.53	1,758.81	4,139.26	3,971.85	167.41	24.725		
18,100.00	7,630.00	5,125.00	5,125.00	152.84	88.51	50.91	-5,565.53	1,758.81	4,171.99	4,004.06	167.92	24.844		
18,200.00	7,630.00	5,125.00	5,125.00	154.32	88.51	50.91	-5,565.53	1,758.81	4,206.84	4,038.40	168.43	24.976		
18,300.00	7,630.00	5,125.00	5,125.00	155.81	88.51	50.91	-5,565.53	1,758.81	4,243.76	4,074.82	168.94	25.121		
18,400.00	7,630.00	5,125.00	5,125.00	157.31	88.51	50.91	-5,565.53	1,758.81	4,282.70	4,113.27	169.43	25.277		
18,500.00	7,630.00	5,125.00	5,125.00	158.81	88.51	50.91	-5,565.53	1,758.81	4,323.60	4,153.69	169.91	25.446		
18,600.00	7,630.00	5,125.00	5,125.00	160.32	88.51	50.91	-5,565.53	1,758.81	4,366.41	4,196.03	170.38	25.627		
18,700.00	7,630.00	5,125.00	5,125.00	161.84	88.51	50.91	-5,565.53	1,758.81	4,411.07	4,240.23	170.84	25.820		
18,800.00	7,630.00	5,125.00	5,125.00	163.37	88.51	50.91	-5,565.53	1,758.81	4,457.52	4,286.24	171.29	26.024		
18,900.00	7,630.00	5,125.00	5,125.00	164.90	88.51	50.91	-5,565.53	1,758.81	4,505.72	4,334.00	171.72	26.239		
19,000.00	7,630.00	5,125.00	5,125.00	166.43	88.51	50.91	-5,565.53	1,758.81	4,555.60	4,383.46	172.14	26.464		
19,100.00	7,630.00	5,125.00	5,125.00	167.98	88.51	50.91	-5,565.53	1,758.81	4,607.12	4,434.57	172.55	26.701		
19,200.00	7,630.00	5,125.00	5,125.00	169.53	88.51	50.91	-5,565.53	1,758.81	4,660.21	4,487.27	172.94	26.947		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	5,125.00	5,125.00	171.08	88.51	50.91	-5,565.53	1,758.81	4,714.82	4,541.51	173.32	27.203	
19,400.00	7,630.00	5,125.00	5,125.00	172.64	88.51	50.91	-5,565.53	1,758.81	4,770.91	4,597.23	173.68	27.469	
19,500.00	7,630.00	5,125.00	5,125.00	174.21	88.51	50.91	-5,565.53	1,758.81	4,828.41	4,654.38	174.03	27.745	
19,518.56	7,630.00	5,125.00	5,125.00	174.50	88.51	50.91	-5,565.53	1,758.81	4,839.24	4,665.14	174.09	27.797	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	150.89	-5,536.99	3,082.96	6,337.49					
100.00	100.00	71.00	71.00	0.13	0.58	150.89	-5,536.99	3,082.96	6,337.42	6,336.71	0.71	8,917.803		
200.00	200.00	171.00	171.00	0.49	2.05	150.89	-5,536.99	3,082.96	6,337.42	6,334.88	2.54	2,491.456		
300.00	300.00	271.00	271.00	0.85	3.80	150.89	-5,536.99	3,082.96	6,337.42	6,332.77	4.65	1,363.630		
400.00	400.00	371.00	371.00	1.21	5.54	150.89	-5,536.99	3,082.96	6,337.42	6,330.67	6.75	938.701		
500.00	499.98	470.98	470.98	1.56	7.29	84.19	-5,536.99	3,082.96	6,337.24	6,328.39	8.85	716.054		
600.00	599.84	570.84	570.84	1.92	9.03	84.24	-5,536.99	3,082.96	6,336.71	6,325.77	10.95	578.811		
700.00	699.45	670.45	670.45	2.29	10.77	84.34	-5,536.99	3,082.96	6,335.84	6,322.79	13.05	485.463		
800.00	798.70	769.70	769.70	2.67	12.50	84.47	-5,536.99	3,082.96	6,334.65	6,319.48	15.16	417.766		
900.00	897.47	868.47	868.47	3.07	14.22	84.64	-5,536.99	3,082.96	6,333.14	6,315.86	17.29	366.339		
1,000.00	995.62	966.62	966.62	3.50	15.94	84.84	-5,536.99	3,082.96	6,331.36	6,311.93	19.43	325.878		
1,100.00	1,093.06	1,064.06	1,064.06	3.96	17.64	85.08	-5,536.99	3,082.96	6,329.34	6,307.75	21.59	293.159		
1,200.00	1,189.64	1,160.64	1,160.64	4.46	19.32	85.35	-5,536.99	3,082.96	6,327.10	6,303.33	23.78	266.116		
1,300.00	1,285.27	1,256.27	1,256.27	5.00	20.99	85.65	-5,536.99	3,082.96	6,324.71	6,298.72	25.99	243.361		
1,400.00	1,379.82	1,350.82	1,350.82	5.60	22.64	85.98	-5,536.99	3,082.96	6,322.20	6,293.96	28.23	223.931		
1,500.00	1,473.17	1,444.17	1,444.17	6.25	24.27	86.34	-5,536.99	3,082.96	6,319.63	6,289.12	30.51	207.136		
1,600.00	1,565.21	1,536.21	1,536.21	6.95	25.88	86.71	-5,536.99	3,082.96	6,317.05	6,284.23	32.82	192.468		
1,700.00	1,655.84	1,626.84	1,626.84	7.72	27.46	87.11	-5,536.99	3,082.96	6,314.54	6,279.37	35.17	179.545		
1,800.00	1,744.94	1,715.94	1,715.94	8.55	29.01	87.52	-5,536.99	3,082.96	6,312.16	6,274.60	37.56	168.074		
1,900.00	1,832.39	1,803.39	1,803.39	9.45	30.54	87.95	-5,536.99	3,082.96	6,309.97	6,269.99	39.98	157.828		
2,000.00	1,918.11	1,889.11	1,889.11	10.41	32.04	88.39	-5,536.99	3,082.96	6,308.06	6,265.62	42.44	148.625		
2,100.00	2,001.97	1,972.97	1,972.97	11.45	33.50	88.84	-5,536.99	3,082.96	6,306.49	6,261.55	44.94	140.320		
2,200.00	2,083.88	2,054.88	2,054.88	12.56	34.93	89.29	-5,536.99	3,082.96	6,305.35	6,257.87	47.48	132.793		
2,300.00	2,163.74	2,134.74	2,134.74	13.74	36.32	89.74	-5,536.99	3,082.96	6,304.71	6,254.65	50.06	125.949		
2,358.99	2,209.85	2,180.85	2,180.85	14.47	37.13	90.00	-5,536.99	3,082.96	6,304.60	6,253.00	51.60	122.178		
2,400.00	2,241.45	2,212.45	2,212.45	14.99	37.68	90.18	-5,536.99	3,082.96	6,304.66	6,251.99	52.67	119.706		
2,421.22	2,257.65	2,228.65	2,228.65	15.26	37.96	90.28	-5,536.99	3,082.96	6,304.73	6,251.50	53.22	118.454		
2,500.00	2,317.63	2,288.63	2,288.63	16.29	39.01	90.63	-5,536.99	3,082.96	6,305.26	6,249.95	55.30	114.010		
2,600.00	2,393.75	2,364.75	2,364.75	17.62	40.34	91.08	-5,536.99	3,082.96	6,306.53	6,248.57	57.96	108.815		
2,700.00	2,469.88	2,440.88	2,440.88	18.95	41.67	91.53	-5,536.99	3,082.96	6,308.46	6,247.84	60.62	104.069		
2,800.00	2,546.01	2,517.01	2,517.01	20.30	43.00	91.97	-5,536.99	3,082.96	6,311.06	6,247.78	63.29	99.722		
2,900.00	2,622.13	2,606.87	2,593.13	21.65	44.56	92.42	-5,536.99	3,082.96	6,314.33	6,248.13	66.20	95.382		
3,000.00	2,698.26	2,669.26	2,669.26	23.01	45.65	92.87	-5,536.99	3,082.96	6,318.26	6,249.62	68.64	92.052		
3,100.00	2,774.38	2,745.38	2,745.38	24.37	46.98	93.32	-5,536.99	3,082.96	6,322.85	6,251.53	71.32	88.659		
3,200.00	2,850.51	2,821.51	2,821.51	25.74	48.31	93.76	-5,536.99	3,082.96	6,328.10	6,254.11	74.00	85.520		
3,300.00	2,926.64	2,902.36	2,897.64	27.11	49.72	94.21	-5,536.99	3,082.96	6,334.01	6,257.26	76.76	82.520		
3,400.00	3,002.76	2,973.76	2,973.76	28.49	50.97	94.66	-5,536.99	3,082.96	6,340.58	6,261.23	79.35	79.904		
3,500.00	3,078.89	3,049.89	3,049.89	29.87	52.30	95.10	-5,536.99	3,082.96	6,347.81	6,265.78	82.03	77.386		
3,600.00	3,155.02	3,126.02	3,126.02	31.25	53.63	95.55	-5,536.99	3,082.96	6,355.69	6,270.99	84.70	75.037		
3,700.00	3,231.14	3,202.14	3,202.14	32.63	54.95	95.99	-5,536.99	3,082.96	6,364.22	6,276.85	87.37	72.842		
3,800.00	3,307.27	3,278.27	3,278.27	34.01	56.28	96.43	-5,536.99	3,082.96	6,373.40	6,283.36	90.03	70.788		
3,900.00	3,383.39	3,354.39	3,354.39	35.40	57.61	96.88	-5,536.99	3,082.96	6,383.22	6,290.53	92.70	68.862		
4,000.00	3,459.52	3,430.52	3,430.52	36.79	58.94	97.32	-5,536.99	3,082.96	6,393.69	6,298.34	95.35	67.055		
4,100.00	3,535.65	3,506.65	3,506.65	38.18	60.27	97.76	-5,536.99	3,082.96	6,404.79	6,306.79	98.00	65.355		
4,200.00	3,611.77	3,582.77	3,582.77	39.57	61.60	98.20	-5,536.99	3,082.96	6,416.54	6,315.89	100.64	63.755		
4,300.00	3,687.90	3,658.90	3,658.90	40.96	62.93	98.64	-5,536.99	3,082.96	6,428.91	6,325.63	103.28	62.247		
4,400.00	3,764.02	3,735.02	3,735.02	42.35	64.25	99.08	-5,536.99	3,082.96	6,441.91	6,336.00	105.91	60.824		
4,500.00	3,840.15	3,811.15	3,811.15	43.74	65.58	99.51	-5,536.99	3,082.96	6,455.54	6,347.01	108.53	59.479		
4,600.00	3,916.28	3,887.28	3,887.28	45.13	66.91	99.95	-5,536.99	3,082.96	6,469.79	6,358.64	111.15	58.208		
4,700.00	3,992.40	3,963.40	3,963.40	46.53	68.24	100.38	-5,536.99	3,082.96	6,484.66	6,370.90	113.76	57.004		
4,800.00	4,068.53	4,039.53	4,039.53	47.92	69.57	100.82	-5,536.99	3,082.96	6,500.14	6,383.78	116.36	55.863		
4,900.00	4,144.66	4,115.66	4,115.66	49.32	70.90	101.25	-5,536.99	3,082.96	6,516.23	6,397.28	118.95	54.782		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,208.22	4,191.78	50.71	72.51	101.68	-5,536.99	3,082.96	6,532.92	6,411.10	121.82	53.628		
5,100.00	4,296.91	4,267.91	4,267.91	52.11	73.56	102.11	-5,536.99	3,082.96	6,550.21	6,426.11	124.11	52.779		
5,200.00	4,373.03	4,344.03	4,344.03	53.51	74.88	102.54	-5,536.99	3,082.96	6,568.10	6,441.43	126.67	51.852		
5,300.00	4,449.16	4,420.16	4,420.16	54.90	76.21	102.96	-5,536.99	3,082.96	6,586.58	6,457.35	129.23	50.970		
5,400.00	4,525.29	4,503.71	4,496.29	56.30	77.67	103.39	-5,536.99	3,082.96	6,605.64	6,473.74	131.90	50.080		
5,500.00	4,601.41	4,572.41	4,572.41	57.70	78.87	103.81	-5,536.99	3,082.96	6,625.28	6,490.97	134.31	49.329		
5,600.00	4,677.54	4,648.54	4,648.54	59.10	80.20	104.24	-5,536.99	3,082.96	6,645.50	6,508.66	136.83	48.566		
5,700.00	4,753.66	4,724.66	4,724.66	60.49	81.53	104.66	-5,536.99	3,082.96	6,666.28	6,526.93	139.35	47.838		
5,800.00	4,829.79	4,800.79	4,800.79	61.89	82.86	105.08	-5,536.99	3,082.96	6,687.63	6,545.78	141.86	47.144		
5,900.00	4,905.92	4,876.92	4,876.92	63.29	84.18	105.49	-5,536.99	3,082.96	6,709.54	6,565.19	144.35	46.480		
6,000.00	4,982.04	4,953.04	4,953.04	64.69	85.51	105.91	-5,536.99	3,082.96	6,732.00	6,585.17	146.84	45.847		
6,100.00	5,058.17	5,029.17	5,029.17	66.09	86.84	106.32	-5,536.99	3,082.96	6,755.01	6,605.70	149.31	45.241		
6,200.00	5,134.30	5,105.30	5,105.30	67.49	88.17	106.73	-5,536.99	3,082.96	6,778.56	6,626.79	151.78	44.661		
6,300.00	5,210.42	5,148.00	5,148.00	68.89	88.92	106.97	-5,536.99	3,082.96	6,802.74	6,649.10	153.63	44.279		
6,400.00	5,286.55	5,148.00	5,148.00	70.29	88.92	106.97	-5,536.99	3,082.96	6,828.15	6,673.45	154.70	44.139		
6,500.00	5,362.67	5,148.00	5,148.00	71.69	88.92	106.97	-5,536.99	3,082.96	6,854.93	6,699.20	155.73	44.017		
6,600.00	5,438.80	5,148.00	5,148.00	73.09	88.92	106.97	-5,536.99	3,082.96	6,883.06	6,726.33	156.74	43.915		
6,700.00	5,514.93	5,148.00	5,148.00	74.49	88.92	106.97	-5,536.99	3,082.96	6,912.52	6,754.82	157.71	43.831		
6,800.00	5,591.05	5,148.00	5,148.00	75.89	88.92	106.97	-5,536.99	3,082.96	6,943.30	6,784.65	158.65	43.765		
6,900.00	5,667.18	5,148.00	5,148.00	77.29	88.92	106.97	-5,536.99	3,082.96	6,975.38	6,815.82	159.56	43.716		
7,000.00	5,743.30	5,148.00	5,148.00	78.69	88.92	106.97	-5,536.99	3,082.96	7,008.73	6,848.29	160.44	43.684		
7,100.00	5,819.43	5,148.00	5,148.00	80.09	88.92	106.97	-5,536.99	3,082.96	7,043.35	6,882.06	161.29	43.668		
7,200.00	5,895.56	5,148.00	5,148.00	81.49	88.92	106.97	-5,536.99	3,082.96	7,079.21	6,917.10	162.11	43.668		
7,300.00	5,971.68	5,148.00	5,148.00	82.90	88.92	106.97	-5,536.99	3,082.96	7,116.30	6,953.39	162.91	43.684		
7,400.00	6,047.81	5,148.00	5,148.00	84.30	88.92	106.97	-5,536.99	3,082.96	7,154.59	6,990.92	163.67	43.714		
7,500.00	6,123.94	5,148.00	5,148.00	85.70	88.92	106.97	-5,536.99	3,082.96	7,194.06	7,029.66	164.40	43.759		
7,600.00	6,200.06	5,148.00	5,148.00	87.10	88.92	106.97	-5,536.99	3,082.96	7,234.71	7,069.60	165.11	43.818		
7,700.00	6,276.19	5,148.00	5,148.00	88.50	88.92	106.97	-5,536.99	3,082.96	7,276.50	7,110.71	165.79	43.890		
7,800.00	6,352.31	5,148.00	5,148.00	89.90	88.92	106.97	-5,536.99	3,082.96	7,319.42	7,152.98	166.44	43.976		
7,900.00	6,428.44	5,148.00	5,148.00	91.31	88.92	106.97	-5,536.99	3,082.96	7,363.45	7,196.38	167.07	44.075		
8,000.00	6,504.57	5,148.00	5,148.00	92.71	88.92	106.97	-5,536.99	3,082.96	7,408.56	7,240.89	167.67	44.186		
8,100.00	6,580.69	5,148.00	5,148.00	94.11	88.92	106.97	-5,536.99	3,082.96	7,454.74	7,286.50	168.24	44.310		
8,200.00	6,656.82	5,148.00	5,148.00	95.51	88.92	106.97	-5,536.99	3,082.96	7,501.98	7,333.19	168.79	44.445		
8,300.00	6,732.95	5,148.00	5,148.00	96.91	88.92	106.97	-5,536.99	3,082.96	7,550.24	7,380.92	169.32	44.592		
8,400.00	6,809.07	5,148.00	5,148.00	98.32	88.92	106.97	-5,536.99	3,082.96	7,599.51	7,429.69	169.82	44.750		
8,500.00	6,885.20	5,148.00	5,148.00	99.72	88.92	106.97	-5,536.99	3,082.96	7,649.77	7,479.47	170.30	44.918		
8,600.00	6,961.32	5,148.00	5,148.00	101.12	88.92	106.97	-5,536.99	3,082.96	7,701.00	7,530.24	170.76	45.098		
8,700.00	7,037.45	5,148.00	5,148.00	102.52	88.92	106.97	-5,536.99	3,082.96	7,753.19	7,581.98	171.20	45.287		
8,732.15	7,061.92	5,148.00	5,148.00	102.97	88.92	106.97	-5,536.99	3,082.96	7,770.16	7,598.82	171.34	45.350		
8,750.00	7,075.57	5,148.00	5,148.00	103.22	88.92	104.97	-5,536.99	3,082.96	7,779.39	7,607.98	171.41	45.384		
8,800.00	7,114.27	5,148.00	5,148.00	103.91	88.92	99.08	-5,536.99	3,082.96	7,802.83	7,631.20	171.63	45.464		
8,850.00	7,153.47	5,148.00	5,148.00	104.58	88.92	92.87	-5,536.99	3,082.96	7,822.60	7,650.75	171.85	45.521		
8,900.00	7,192.85	5,148.00	5,148.00	105.21	88.92	86.51	-5,536.99	3,082.96	7,838.57	7,666.51	172.06	45.557		
8,950.00	7,232.12	5,148.00	5,148.00	105.80	88.92	80.22	-5,536.99	3,082.96	7,850.65	7,678.38	172.27	45.572		
9,000.00	7,270.99	5,148.00	5,148.00	106.35	88.92	74.19	-5,536.99	3,082.96	7,858.77	7,686.30	172.47	45.567		
9,050.00	7,309.16	5,148.00	5,148.00	106.85	88.92	68.57	-5,536.99	3,082.96	7,862.88	7,690.23	172.65	45.543		
9,100.00	7,346.32	5,148.00	5,148.00	107.30	88.92	63.45	-5,536.99	3,082.96	7,862.94	7,690.13	172.81	45.501		
9,150.00	7,382.22	5,148.00	5,148.00	107.69	88.92	58.88	-5,536.99	3,082.96	7,858.97	7,686.02	172.94	45.442		
9,200.00	7,416.56	5,148.00	5,148.00	108.02	88.92	54.85	-5,536.99	3,082.96	7,850.98	7,677.92	173.05	45.367		
9,250.00	7,449.09	5,148.00	5,148.00	108.29	88.92	51.35	-5,536.99	3,082.96	7,839.02	7,665.88	173.14	45.276		
9,300.00	7,479.56	5,148.00	5,148.00	108.51	88.92	48.33	-5,536.99	3,082.96	7,823.17	7,649.97	173.19	45.170		
9,350.00	7,507.74	5,148.00	5,148.00	108.68	88.92	45.74	-5,536.99	3,082.96	7,803.52	7,630.30	173.22	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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,148.00	5,148.00	108.79	88.92	43.53	-5,536.99	3,082.96	7,780.20	7,606.97	173.23	44.914		
9,450.00	7,556.39	5,148.00	5,148.00	108.86	88.92	41.66	-5,536.99	3,082.96	7,753.34	7,580.14	173.21	44.764		
9,500.00	7,576.48	5,148.00	5,148.00	108.88	88.92	40.09	-5,536.99	3,082.96	7,723.13	7,549.97	173.16	44.600		
9,550.00	7,593.55	5,148.00	5,148.00	108.86	88.92	38.78	-5,536.99	3,082.96	7,689.75	7,516.65	173.10	44.423		
9,600.00	7,607.46	5,148.00	5,148.00	108.80	88.92	37.70	-5,536.99	3,082.96	7,653.41	7,480.38	173.03	44.233		
9,650.00	7,618.11	5,148.00	5,148.00	108.71	88.92	36.81	-5,536.99	3,082.96	7,614.35	7,441.41	172.94	44.029		
9,700.00	7,625.41	5,148.00	5,148.00	108.59	88.92	36.08	-5,536.99	3,082.96	7,572.84	7,399.99	172.85	43.813		
9,750.00	7,629.30	5,148.00	5,148.00	108.45	88.92	35.46	-5,536.99	3,082.96	7,529.14	7,356.38	172.75	43.584		
9,781.81	7,630.00	5,148.00	5,148.00	108.35	88.92	35.09	-5,536.99	3,082.96	7,500.34	7,327.64	172.69	43.432		
9,800.00	7,630.00	5,148.00	5,148.00	108.29	88.92	35.09	-5,536.99	3,082.96	7,483.66	7,311.00	172.66	43.344		
9,900.00	7,630.00	5,148.00	5,148.00	107.97	88.92	35.09	-5,536.99	3,082.96	7,392.14	7,219.68	172.46	42.862		
10,000.00	7,630.00	5,148.00	5,148.00	107.67	88.92	35.09	-5,536.99	3,082.96	7,300.85	7,128.58	172.27	42.381		
10,100.00	7,630.00	5,148.00	5,148.00	107.38	88.92	35.09	-5,536.99	3,082.96	7,209.79	7,037.73	172.06	41.903		
10,200.00	7,630.00	5,148.00	5,148.00	107.10	88.92	35.09	-5,536.99	3,082.96	7,118.96	6,947.11	171.85	41.426		
10,300.00	7,630.00	5,148.00	5,148.00	106.84	88.92	35.09	-5,536.99	3,082.96	7,028.39	6,856.76	171.63	40.951		
10,400.00	7,630.00	5,148.00	5,148.00	106.59	88.92	35.09	-5,536.99	3,082.96	6,938.07	6,766.67	171.40	40.478		
10,500.00	7,630.00	5,148.00	5,148.00	106.35	88.92	35.09	-5,536.99	3,082.96	6,848.02	6,676.86	171.17	40.008		
10,600.00	7,630.00	5,148.00	5,148.00	106.13	88.92	35.09	-5,536.99	3,082.96	6,758.26	6,587.33	170.93	39.539		
10,700.00	7,630.00	5,148.00	5,148.00	105.92	88.92	35.09	-5,536.99	3,082.96	6,668.78	6,498.11	170.68	39.073		
10,800.00	7,630.00	5,148.00	5,148.00	105.72	88.92	35.09	-5,536.99	3,082.96	6,579.61	6,409.19	170.42	38.609		
10,900.00	7,630.00	5,148.00	5,148.00	105.54	88.92	35.09	-5,536.99	3,082.96	6,490.75	6,320.60	170.15	38.147		
11,000.00	7,630.00	5,148.00	5,148.00	105.37	88.92	35.09	-5,536.99	3,082.96	6,402.22	6,232.35	169.87	37.689		
11,100.00	7,630.00	5,148.00	5,148.00	105.21	88.92	35.09	-5,536.99	3,082.96	6,314.04	6,144.45	169.58	37.232		
11,200.00	7,630.00	5,148.00	5,148.00	105.06	88.92	35.09	-5,536.99	3,082.96	6,226.21	6,056.92	169.29	36.779		
11,300.00	7,630.00	5,148.00	5,148.00	104.93	88.92	35.09	-5,536.99	3,082.96	6,138.75	5,969.78	168.98	36.329		
11,400.00	7,630.00	5,148.00	5,148.00	104.82	88.92	35.09	-5,536.99	3,082.96	6,051.69	5,883.03	168.66	35.882		
11,500.00	7,630.00	5,148.00	5,148.00	104.72	88.92	35.09	-5,536.99	3,082.96	5,965.02	5,796.70	168.33	35.437		
11,600.00	7,630.00	5,148.00	5,148.00	104.63	88.92	35.09	-5,536.99	3,082.96	5,878.79	5,710.80	167.98	34.997		
11,700.00	7,630.00	5,148.00	5,148.00	104.55	88.92	35.09	-5,536.99	3,082.96	5,792.99	5,625.37	167.62	34.560		
11,800.00	7,630.00	5,148.00	5,148.00	104.50	88.92	35.09	-5,536.99	3,082.96	5,707.66	5,540.40	167.25	34.126		
11,900.00	7,630.00	5,148.00	5,148.00	104.45	88.92	35.09	-5,536.99	3,082.96	5,622.80	5,455.94	166.87	33.696		
12,000.00	7,630.00	5,148.00	5,148.00	104.43	88.92	35.09	-5,536.99	3,082.96	5,538.46	5,371.99	166.47	33.271		
12,100.00	7,630.00	5,148.00	5,148.00	104.42	88.92	35.09	-5,536.99	3,082.96	5,454.64	5,288.60	166.05	32.849		
12,200.00	7,630.00	5,148.00	5,148.00	104.42	88.92	35.09	-5,536.99	3,082.96	5,371.38	5,205.77	165.62	32.432		
12,300.00	7,630.00	5,148.00	5,148.00	104.45	88.92	35.09	-5,536.99	3,082.96	5,288.70	5,123.53	165.17	32.020		
12,400.00	7,630.00	5,148.00	5,148.00	104.49	88.92	35.09	-5,536.99	3,082.96	5,206.63	5,041.93	164.70	31.613		
12,500.00	7,630.00	5,148.00	5,148.00	104.55	88.92	35.09	-5,536.99	3,082.96	5,125.19	4,960.97	164.22	31.210		
12,600.00	7,630.00	5,148.00	5,148.00	104.63	88.92	35.09	-5,536.99	3,082.96	5,044.42	4,880.71	163.71	30.813		
12,700.00	7,630.00	5,148.00	5,148.00	104.73	88.92	35.09	-5,536.99	3,082.96	4,964.35	4,801.17	163.19	30.421		
12,800.00	7,630.00	5,148.00	5,148.00	104.85	88.92	35.09	-5,536.99	3,082.96	4,885.02	4,722.38	162.64	30.036		
12,900.00	7,630.00	5,148.00	5,148.00	104.99	88.92	35.09	-5,536.99	3,082.96	4,806.45	4,644.38	162.07	29.656		
13,000.00	7,630.00	5,148.00	5,148.00	105.15	88.92	35.09	-5,536.99	3,082.96	4,728.70	4,567.22	161.48	29.283		
13,100.00	7,630.00	5,148.00	5,148.00	105.34	88.92	35.09	-5,536.99	3,082.96	4,651.80	4,490.93	160.87	28.916		
13,200.00	7,630.00	5,148.00	5,148.00	105.56	88.92	35.09	-5,536.99	3,082.96	4,575.79	4,415.55	160.24	28.557		
13,300.00	7,630.00	5,148.00	5,148.00	105.80	88.92	35.09	-5,536.99	3,082.96	4,500.71	4,341.14	159.57	28.204		
13,400.00	7,630.00	5,148.00	5,148.00	106.06	88.92	35.09	-5,536.99	3,082.96	4,426.63	4,267.74	158.89	27.860		
13,500.00	7,630.00	5,148.00	5,148.00	106.36	88.92	35.09	-5,536.99	3,082.96	4,353.58	4,195.40	158.18	27.523		
13,600.00	7,630.00	5,148.00	5,148.00	106.68	88.92	35.09	-5,536.99	3,082.96	4,281.62	4,124.18	157.44	27.195		
13,700.00	7,630.00	5,148.00	5,148.00	107.03	88.92	35.09	-5,536.99	3,082.96	4,210.80	4,054.13	156.68	26.876		
13,800.00	7,630.00	5,148.00	5,148.00	107.42	88.92	35.09	-5,536.99	3,082.96	4,141.19	3,985.31	155.88	26.566		
13,900.00	7,630.00	5,148.00	5,148.00	107.83	88.92	35.09	-5,536.99	3,082.96	4,072.85	3,917.78	155.07	26.265		
14,000.00	7,630.00	5,148.00	5,148.00	108.28	88.92	35.09	-5,536.99	3,082.96	4,005.83	3,851.61	154.22	25.974		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,148.00	5,148.00	108.77	88.92	35.09	-5,536.99	3,082.96	3,940.21	3,786.86	153.35	25.694		
14,200.00	7,630.00	5,148.00	5,148.00	109.29	88.92	35.09	-5,536.99	3,082.96	3,876.07	3,723.61	152.46	25.424		
14,300.00	7,630.00	5,148.00	5,148.00	109.84	88.92	35.09	-5,536.99	3,082.96	3,813.46	3,661.93	151.54	25.165		
14,400.00	7,630.00	5,148.00	5,148.00	110.43	88.92	35.09	-5,536.99	3,082.96	3,752.48	3,601.89	150.59	24.918		
14,500.00	7,630.00	5,148.00	5,148.00	111.06	88.92	35.09	-5,536.99	3,082.96	3,693.20	3,543.57	149.63	24.683		
14,600.00	7,630.00	5,148.00	5,148.00	111.72	88.92	35.09	-5,536.99	3,082.96	3,635.70	3,487.06	148.64	24.459		
14,700.00	7,630.00	5,148.00	5,148.00	112.42	88.92	35.09	-5,536.99	3,082.96	3,580.07	3,432.43	147.65	24.248		
14,800.00	7,630.00	5,148.00	5,148.00	113.16	88.92	35.09	-5,536.99	3,082.96	3,526.41	3,379.77	146.63	24.049		
14,900.00	7,630.00	5,148.00	5,148.00	113.94	88.92	35.09	-5,536.99	3,082.96	3,474.79	3,329.17	145.62	23.863		
15,000.00	7,630.00	5,148.00	5,148.00	114.75	88.92	35.09	-5,536.99	3,082.96	3,425.31	3,280.72	144.59	23.689		
15,100.00	7,630.00	5,148.00	5,148.00	115.60	88.92	35.09	-5,536.99	3,082.96	3,378.07	3,234.49	143.58	23.528		
15,200.00	7,630.00	5,148.00	5,148.00	116.48	88.92	35.09	-5,536.99	3,082.96	3,333.16	3,190.59	142.57	23.379		
15,300.00	7,630.00	5,148.00	5,148.00	117.40	88.92	35.09	-5,536.99	3,082.96	3,290.68	3,149.10	141.58	23.243		
15,400.00	7,630.00	5,148.00	5,148.00	118.35	88.92	35.09	-5,536.99	3,082.96	3,250.72	3,110.11	140.61	23.118		
15,500.00	7,630.00	5,148.00	5,148.00	119.34	88.92	35.09	-5,536.99	3,082.96	3,213.38	3,073.70	139.68	23.005		
15,600.00	7,630.00	5,148.00	5,148.00	120.35	88.92	35.09	-5,536.99	3,082.96	3,178.74	3,039.95	138.80	22.902		
15,700.00	7,630.00	5,148.00	5,148.00	121.40	88.92	35.09	-5,536.99	3,082.96	3,146.90	3,008.94	137.97	22.809		
15,800.00	7,630.00	5,148.00	5,148.00	122.48	88.92	35.09	-5,536.99	3,082.96	3,117.95	2,980.75	137.20	22.725		
15,900.00	7,630.00	5,148.00	5,148.00	123.58	88.92	35.09	-5,536.99	3,082.96	3,091.96	2,955.45	136.51	22.649		
16,000.00	7,630.00	5,148.00	5,148.00	124.71	88.92	35.09	-5,536.99	3,082.96	3,069.01	2,933.09	135.92	22.580		
16,100.00	7,630.00	5,148.00	5,148.00	125.87	88.92	35.09	-5,536.99	3,082.96	3,049.17	2,913.75	135.42	22.517		
16,200.00	7,630.00	5,148.00	5,148.00	127.05	88.92	35.09	-5,536.99	3,082.96	3,032.50	2,897.47	135.03	22.458		
16,300.00	7,630.00	5,148.00	5,148.00	128.26	88.92	35.09	-5,536.99	3,082.96	3,019.05	2,884.29	134.75	22.404		
16,400.00	7,630.00	5,148.00	5,148.00	129.48	88.92	35.09	-5,536.99	3,082.96	3,008.86	2,874.26	134.61	22.353		
16,500.00	7,630.00	5,148.00	5,148.00	130.73	88.92	35.09	-5,536.99	3,082.96	3,001.98	2,867.39	134.59	22.305		
16,600.00	7,630.00	5,148.00	5,148.00	132.00	88.92	35.09	-5,536.99	3,082.96	2,998.41	2,863.71	134.70	22.259		
16,656.97	7,630.00	5,148.00	5,148.00	132.73	88.92	35.09	-5,536.99	3,082.96	2,997.87	2,863.04	134.83	22.235 CC, ES		
16,700.00	7,630.00	5,148.00	5,148.00	133.29	88.92	35.09	-5,536.99	3,082.96	2,998.18	2,863.23	134.95	22.217		
16,800.00	7,630.00	5,148.00	5,148.00	134.59	88.92	35.09	-5,536.99	3,082.96	3,001.28	2,865.95	135.33	22.177		
16,900.00	7,630.00	5,148.00	5,148.00	135.91	88.92	35.09	-5,536.99	3,082.96	3,007.70	2,871.86	135.84	22.141		
17,000.00	7,630.00	5,148.00	5,148.00	137.25	88.92	35.09	-5,536.99	3,082.96	3,017.43	2,880.96	136.47	22.110		
17,100.00	7,630.00	5,148.00	5,148.00	138.61	88.92	35.09	-5,536.99	3,082.96	3,030.43	2,893.21	137.22	22.085		
17,200.00	7,630.00	5,148.00	5,148.00	139.97	88.92	35.09	-5,536.99	3,082.96	3,046.66	2,908.59	138.07	22.067		
17,300.00	7,630.00	5,148.00	5,148.00	141.36	88.92	35.09	-5,536.99	3,082.96	3,066.06	2,927.05	139.01	22.057		
17,400.00	7,630.00	5,148.00	5,148.00	142.75	88.92	35.09	-5,536.99	3,082.96	3,088.58	2,948.55	140.03	22.057 SF		
17,500.00	7,630.00	5,148.00	5,148.00	144.16	88.92	35.09	-5,536.99	3,082.96	3,114.15	2,973.03	141.12	22.068		
17,600.00	7,630.00	5,148.00	5,148.00	145.58	88.92	35.09	-5,536.99	3,082.96	3,142.70	3,000.43	142.26	22.091		
17,700.00	7,630.00	5,148.00	5,148.00	147.01	88.92	35.09	-5,536.99	3,082.96	3,174.14	3,030.69	143.45	22.127		
17,800.00	7,630.00	5,148.00	5,148.00	148.45	88.92	35.09	-5,536.99	3,082.96	3,208.39	3,063.72	144.67	22.177		
17,900.00	7,630.00	5,148.00	5,148.00	149.91	88.92	35.09	-5,536.99	3,082.96	3,245.36	3,099.45	145.91	22.242		
18,000.00	7,630.00	5,148.00	5,148.00	151.37	88.92	35.09	-5,536.99	3,082.96	3,284.96	3,137.79	147.17	22.321		
18,100.00	7,630.00	5,148.00	5,148.00	152.84	88.92	35.09	-5,536.99	3,082.96	3,327.10	3,178.68	148.42	22.417		
18,200.00	7,630.00	5,148.00	5,148.00	154.32	88.92	35.09	-5,536.99	3,082.96	3,371.67	3,222.00	149.67	22.527		
18,300.00	7,630.00	5,148.00	5,148.00	155.81	88.92	35.09	-5,536.99	3,082.96	3,418.59	3,267.69	150.91	22.653		
18,400.00	7,630.00	5,148.00	5,148.00	157.31	88.92	35.09	-5,536.99	3,082.96	3,467.77	3,315.64	152.13	22.795		
18,500.00	7,630.00	5,148.00	5,148.00	158.81	88.92	35.09	-5,536.99	3,082.96	3,519.09	3,365.77	153.32	22.952		
18,600.00	7,630.00	5,148.00	5,148.00	160.32	88.92	35.09	-5,536.99	3,082.96	3,572.48	3,417.99	154.49	23.124		
18,700.00	7,630.00	5,148.00	5,148.00	161.84	88.92	35.09	-5,536.99	3,082.96	3,627.84	3,472.21	155.63	23.311		
18,800.00	7,630.00	5,148.00	5,148.00	163.37	88.92	35.09	-5,536.99	3,082.96	3,685.08	3,528.34	156.74	23.511		
18,900.00	7,630.00	5,148.00	5,148.00	164.90	88.92	35.09	-5,536.99	3,082.96	3,744.12	3,586.31	157.81	23.726		
19,000.00	7,630.00	5,148.00	5,148.00	166.43	88.92	35.09	-5,536.99	3,082.96	3,804.87	3,646.03	158.84	23.953		
19,100.00	7,630.00	5,148.00	5,148.00	167.98	88.92	35.09	-5,536.99	3,082.96	3,867.25	3,707.41	159.84	24.194		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	5,148.00	5,148.00	169.53	88.92	35.09	-5,536.99	3,082.96	3,931.19	3,770.38	160.81	24.447	
19,300.00	7,630.00	5,148.00	5,148.00	171.08	88.92	35.09	-5,536.99	3,082.96	3,996.61	3,834.87	161.73	24.711	
19,400.00	7,630.00	5,148.00	5,148.00	172.64	88.92	35.09	-5,536.99	3,082.96	4,063.43	3,900.81	162.62	24.987	
19,500.00	7,630.00	5,148.00	5,148.00	174.21	88.92	35.09	-5,536.99	3,082.96	4,131.59	3,968.12	163.48	25.273	
19,518.56	7,630.00	5,148.00	5,148.00	174.50	88.92	35.09	-5,536.99	3,082.96	4,144.39	3,980.76	163.63	25.328	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	147.53	-6,842.04	4,354.40	8,110.17					
100.00	100.00	78.00	78.00	0.13	0.65	147.53	-6,842.04	4,354.40	8,110.14	8,109.36	0.78	N/A		
200.00	200.00	178.00	178.00	0.49	2.19	147.53	-6,842.04	4,354.40	8,110.14	8,107.46	2.68	3,022.464		
300.00	300.00	278.00	278.00	0.85	3.94	147.53	-6,842.04	4,354.40	8,110.14	8,105.35	4.79	1,694.170		
400.00	400.00	378.00	378.00	1.21	5.68	147.53	-6,842.04	4,354.40	8,110.14	8,103.25	6.89	1,176.937		
500.00	499.98	477.98	477.98	1.56	7.43	80.82	-6,842.04	4,354.40	8,109.86	8,100.87	8.99	902.116		
600.00	599.84	577.84	577.84	1.92	9.17	80.87	-6,842.04	4,354.40	8,109.03	8,097.94	11.09	731.379		
700.00	699.45	677.45	677.45	2.29	10.91	80.96	-6,842.04	4,354.40	8,107.65	8,094.46	13.19	614.663		
800.00	798.70	776.70	776.70	2.67	12.64	81.08	-6,842.04	4,354.40	8,105.73	8,090.43	15.30	529.721		
900.00	897.47	875.47	875.47	3.07	14.36	81.24	-6,842.04	4,354.40	8,103.30	8,085.87	17.43	465.025		
1,000.00	995.62	973.62	973.62	3.50	16.08	81.43	-6,842.04	4,354.40	8,100.37	8,080.80	19.57	414.018		
1,100.00	1,093.06	1,071.06	1,071.06	3.96	17.78	81.65	-6,842.04	4,354.40	8,096.97	8,075.25	21.73	372.703		
1,200.00	1,189.64	1,167.64	1,167.64	4.46	19.46	81.90	-6,842.04	4,354.40	8,093.14	8,069.23	23.91	338.505		
1,300.00	1,285.27	1,263.27	1,263.27	5.00	21.13	82.18	-6,842.04	4,354.40	8,088.91	8,062.79	26.12	309.694		
1,400.00	1,379.82	1,357.82	1,357.82	5.60	22.78	82.49	-6,842.04	4,354.40	8,084.32	8,055.96	28.36	285.064		
1,500.00	1,473.17	1,451.17	1,451.17	6.25	24.41	82.82	-6,842.04	4,354.40	8,079.42	8,048.79	30.63	263.750		
1,600.00	1,565.21	1,543.21	1,543.21	6.95	26.02	83.18	-6,842.04	4,354.40	8,074.25	8,041.31	32.94	245.114		
1,700.00	1,655.84	1,633.84	1,633.84	7.72	27.60	83.55	-6,842.04	4,354.40	8,068.87	8,033.59	35.29	228.677		
1,800.00	1,744.94	1,722.94	1,722.94	8.55	29.15	83.95	-6,842.04	4,354.40	8,063.34	8,025.67	37.67	214.069		
1,900.00	1,832.39	1,810.39	1,810.39	9.45	30.68	84.36	-6,842.04	4,354.40	8,057.70	8,017.61	40.09	201.005		
2,000.00	1,918.11	1,903.89	1,896.11	10.41	32.31	84.79	-6,842.04	4,354.40	8,052.03	8,009.35	42.68	188.651		
2,100.00	2,001.97	1,979.97	1,979.97	11.45	33.64	85.23	-6,842.04	4,354.40	8,046.39	8,001.35	45.04	178.634		
2,200.00	2,083.88	2,061.88	2,061.88	12.56	35.07	85.67	-6,842.04	4,354.40	8,040.84	7,993.26	47.58	168.995		
2,300.00	2,163.74	2,141.74	2,141.74	13.74	36.46	86.12	-6,842.04	4,354.40	8,035.46	7,985.30	50.15	160.214		
2,400.00	2,241.45	2,219.45	2,219.45	14.99	37.82	86.57	-6,842.04	4,354.40	8,030.31	7,977.54	52.77	152.189		
2,421.22	2,257.65	2,235.65	2,235.65	15.26	38.10	86.67	-6,842.04	4,354.40	8,029.25	7,975.93	53.32	150.577		
2,500.00	2,317.63	2,304.37	2,295.63	16.29	39.30	86.94	-6,842.04	4,354.40	8,025.52	7,969.96	55.56	144.455		
2,600.00	2,393.75	2,371.75	2,371.75	17.62	40.48	87.30	-6,842.04	4,354.40	8,021.24	7,963.18	58.06	138.150		
2,700.00	2,469.88	2,447.88	2,447.88	18.95	41.81	87.65	-6,842.04	4,354.40	8,017.49	7,956.76	60.73	132.017		
2,800.00	2,546.01	2,524.01	2,524.01	20.30	43.14	88.00	-6,842.04	4,354.40	8,014.26	7,950.85	63.41	126.389		
2,900.00	2,622.13	2,600.13	2,600.13	21.65	44.46	88.36	-6,842.04	4,354.40	8,011.55	7,945.46	66.10	121.210		
3,000.00	2,698.26	2,676.26	2,676.26	23.01	45.79	88.71	-6,842.04	4,354.40	8,009.37	7,940.58	68.79	116.434		
3,100.00	2,774.38	2,752.38	2,752.38	24.37	47.12	89.06	-6,842.04	4,354.40	8,007.71	7,936.23	71.49	112.018		
3,200.00	2,850.51	2,828.51	2,828.51	25.74	48.45	89.41	-6,842.04	4,354.40	8,006.58	7,932.39	74.19	107.924		
3,300.00	2,926.64	2,904.64	2,904.64	27.11	49.78	89.77	-6,842.04	4,354.40	8,005.97	7,929.08	76.89	104.121		
3,365.70	2,976.65	2,954.65	2,954.65	28.02	50.65	90.00	-6,842.04	4,354.40	8,005.86	7,927.19	78.67	101.766		
3,400.00	3,002.76	2,980.76	2,980.76	28.49	51.11	90.12	-6,842.04	4,354.40	8,005.89	7,926.29	79.60	100.580		
3,500.00	3,078.89	3,056.89	3,056.89	29.87	52.44	90.47	-6,842.04	4,354.40	8,006.33	7,924.03	82.30	97.277		
3,600.00	3,155.02	3,133.02	3,133.02	31.25	53.77	90.83	-6,842.04	4,354.40	8,007.30	7,922.29	85.01	94.190		
3,700.00	3,231.14	3,209.14	3,209.14	32.63	55.09	91.18	-6,842.04	4,354.40	8,008.79	7,921.07	87.72	91.299		
3,800.00	3,307.27	3,285.27	3,285.27	34.01	56.42	91.53	-6,842.04	4,354.40	8,010.81	7,920.38	90.43	88.588		
3,900.00	3,383.39	3,361.39	3,361.39	35.40	57.75	91.89	-6,842.04	4,354.40	8,013.35	7,920.22	93.13	86.040		
4,000.00	3,459.52	3,437.52	3,437.52	36.79	59.08	92.24	-6,842.04	4,354.40	8,016.42	7,920.58	95.84	83.643		
4,100.00	3,535.65	3,513.65	3,513.65	38.18	60.41	92.59	-6,842.04	4,354.40	8,020.01	7,921.46	98.54	81.385		
4,200.00	3,611.77	3,589.77	3,589.77	39.57	61.74	92.94	-6,842.04	4,354.40	8,024.12	7,922.87	101.25	79.253		
4,300.00	3,687.90	3,665.90	3,665.90	40.96	63.07	93.30	-6,842.04	4,354.40	8,028.75	7,924.80	103.95	77.239		
4,400.00	3,764.02	3,742.02	3,742.02	42.35	64.39	93.65	-6,842.04	4,354.40	8,033.90	7,927.26	106.64	75.334		
4,500.00	3,840.15	3,818.15	3,818.15	43.74	65.72	94.00	-6,842.04	4,354.40	8,039.58	7,930.24	109.34	73.530		
4,600.00	3,916.28	3,894.28	3,894.28	45.13	67.25	94.35	-6,842.04	4,354.40	8,045.77	7,933.54	112.23	71.691		
4,700.00	3,992.40	3,970.40	3,970.40	46.53	68.38	94.70	-6,842.04	4,354.40	8,052.48	7,937.76	114.72	70.195		
4,800.00	4,068.53	4,046.53	4,046.53	47.92	69.71	95.05	-6,842.04	4,354.40	8,059.70	7,942.30	117.40	68.653		
4,900.00	4,144.66	4,122.66	4,122.66	49.32	71.04	95.40	-6,842.04	4,354.40	8,067.44	7,947.37	120.08	67.185		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	4,201.22	4,198.78	50.71	72.41	95.75	-6,842.04	4,354.40	8,075.70	7,952.90	122.79	65.766		
5,100.00	4,296.91	4,274.91	4,274.91	52.11	73.69	96.10	-6,842.04	4,354.40	8,084.46	7,959.04	125.42	64.458		
5,200.00	4,373.03	4,351.03	4,351.03	53.51	75.02	96.45	-6,842.04	4,354.40	8,093.74	7,965.65	128.09	63.189		
5,300.00	4,449.16	4,427.16	4,427.16	54.90	76.35	96.80	-6,842.04	4,354.40	8,103.52	7,972.77	130.75	61.978		
5,400.00	4,525.29	4,503.29	4,503.29	56.30	77.68	97.15	-6,842.04	4,354.40	8,113.81	7,980.41	133.40	60.822		
5,500.00	4,601.41	4,579.41	4,579.41	57.70	79.01	97.50	-6,842.04	4,354.40	8,124.60	7,988.55	136.05	59.717		
5,600.00	4,677.54	4,655.54	4,655.54	59.10	80.34	97.84	-6,842.04	4,354.40	8,135.90	7,997.21	138.70	58.660		
5,700.00	4,753.66	4,731.66	4,731.66	60.49	81.67	98.19	-6,842.04	4,354.40	8,147.70	8,006.36	141.33	57.649		
5,800.00	4,829.79	4,807.79	4,807.79	61.89	83.00	98.54	-6,842.04	4,354.40	8,159.99	8,016.03	143.96	56.681		
5,900.00	4,905.92	4,883.92	4,883.92	63.29	84.32	98.88	-6,842.04	4,354.40	8,172.78	8,026.20	146.59	55.753		
6,000.00	4,982.04	4,960.04	4,960.04	64.69	85.65	99.23	-6,842.04	4,354.40	8,186.07	8,036.86	149.21	54.863		
6,100.00	5,058.17	5,036.17	5,036.17	66.09	86.98	99.57	-6,842.04	4,354.40	8,199.85	8,048.03	151.82	54.010		
6,200.00	5,134.30	5,050.00	5,050.00	67.49	87.22	99.63	-6,842.04	4,354.40	8,214.35	8,061.03	153.32	53.576		
6,300.00	5,210.42	5,050.00	5,050.00	68.89	87.22	99.63	-6,842.04	4,354.40	8,230.03	8,075.47	154.56	53.249		
6,400.00	5,286.55	5,050.00	5,050.00	70.29	87.22	99.63	-6,842.04	4,354.40	8,246.89	8,091.12	155.77	52.942		
6,500.00	5,362.67	5,050.00	5,050.00	71.69	87.22	99.63	-6,842.04	4,354.40	8,264.93	8,107.96	156.97	52.654		
6,600.00	5,438.80	5,050.00	5,050.00	73.09	87.22	99.63	-6,842.04	4,354.40	8,284.13	8,125.99	158.14	52.385		
6,700.00	5,514.93	5,050.00	5,050.00	74.49	87.22	99.63	-6,842.04	4,354.40	8,304.50	8,145.21	159.29	52.135		
6,800.00	5,591.05	5,050.00	5,050.00	75.89	87.22	99.63	-6,842.04	4,354.40	8,326.02	8,165.60	160.42	51.902		
6,900.00	5,667.18	5,050.00	5,050.00	77.29	87.22	99.63	-6,842.04	4,354.40	8,348.68	8,187.15	161.52	51.687		
7,000.00	5,743.30	5,050.00	5,050.00	78.69	87.22	99.63	-6,842.04	4,354.40	8,372.47	8,209.86	162.61	51.489		
7,100.00	5,819.43	5,050.00	5,050.00	80.09	87.22	99.63	-6,842.04	4,354.40	8,397.38	8,233.72	163.67	51.308		
7,200.00	5,895.56	5,050.00	5,050.00	81.49	87.22	99.63	-6,842.04	4,354.40	8,423.41	8,258.71	164.70	51.142		
7,300.00	5,971.68	5,050.00	5,050.00	82.90	87.22	99.63	-6,842.04	4,354.40	8,450.55	8,284.83	165.72	50.993		
7,400.00	6,047.81	5,050.00	5,050.00	84.30	87.22	99.63	-6,842.04	4,354.40	8,478.77	8,312.06	166.71	50.858		
7,500.00	6,123.94	5,050.00	5,050.00	85.70	87.22	99.63	-6,842.04	4,354.40	8,508.08	8,340.40	167.68	50.739		
7,600.00	6,200.06	5,050.00	5,050.00	87.10	87.22	99.63	-6,842.04	4,354.40	8,538.46	8,369.83	168.63	50.634		
7,700.00	6,276.19	5,050.00	5,050.00	88.50	87.22	99.63	-6,842.04	4,354.40	8,569.89	8,400.34	169.56	50.543		
7,800.00	6,352.31	5,050.00	5,050.00	89.90	87.22	99.63	-6,842.04	4,354.40	8,602.38	8,431.92	170.46	50.466		
7,900.00	6,428.44	5,050.00	5,050.00	91.31	87.22	99.63	-6,842.04	4,354.40	8,635.90	8,464.56	171.34	50.402		
8,000.00	6,504.57	5,050.00	5,050.00	92.71	87.22	99.63	-6,842.04	4,354.40	8,670.44	8,498.24	172.20	50.351		
8,100.00	6,580.69	5,050.00	5,050.00	94.11	87.22	99.63	-6,842.04	4,354.40	8,706.00	8,532.96	173.04	50.313		
8,200.00	6,656.82	5,050.00	5,050.00	95.51	87.22	99.63	-6,842.04	4,354.40	8,742.56	8,568.70	173.85	50.287		
8,300.00	6,732.95	5,050.00	5,050.00	96.91	87.22	99.63	-6,842.04	4,354.40	8,780.10	8,605.45	174.65	50.273		
8,400.00	6,809.07	5,050.00	5,050.00	98.32	87.22	99.63	-6,842.04	4,354.40	8,818.61	8,643.19	175.42	50.271		
8,500.00	6,885.20	5,050.00	5,050.00	99.72	87.22	99.63	-6,842.04	4,354.40	8,858.09	8,681.92	176.17	50.281		
8,600.00	6,961.32	5,050.00	5,050.00	101.12	87.22	99.63	-6,842.04	4,354.40	8,898.52	8,721.61	176.90	50.302		
8,700.00	7,037.45	5,050.00	5,050.00	102.52	87.22	99.63	-6,842.04	4,354.40	8,939.88	8,762.27	177.61	50.333		
8,732.15	7,061.92	5,050.00	5,050.00	102.97	87.22	99.63	-6,842.04	4,354.40	8,953.38	8,775.54	177.84	50.345		
8,750.00	7,075.57	5,050.00	5,050.00	103.22	87.22	97.73	-6,842.04	4,354.40	8,960.66	8,782.70	177.96	50.351		
8,800.00	7,114.27	5,050.00	5,050.00	103.91	87.22	92.06	-6,842.04	4,354.40	8,978.51	8,800.20	178.31	50.353		
8,850.00	7,153.47	5,050.00	5,050.00	104.58	87.22	86.01	-6,842.04	4,354.40	8,992.53	8,813.87	178.66	50.334		
8,900.00	7,192.85	5,050.00	5,050.00	105.21	87.22	79.77	-6,842.04	4,354.40	9,002.61	8,823.61	179.00	50.295		
8,950.00	7,232.12	5,050.00	5,050.00	105.80	87.22	73.53	-6,842.04	4,354.40	9,008.70	8,829.38	179.32	50.237		
9,000.00	7,270.99	5,050.00	5,050.00	106.35	87.22	67.51	-6,842.04	4,354.40	9,010.76	8,831.13	179.63	50.163		
9,050.00	7,309.16	5,050.00	5,050.00	106.85	87.22	61.86	-6,842.04	4,354.40	9,008.78	8,828.87	179.91	50.074		
9,100.00	7,346.32	5,050.00	5,050.00	107.30	87.22	56.65	-6,842.04	4,354.40	9,002.77	8,822.60	180.16	49.970		
9,150.00	7,382.22	5,050.00	5,050.00	107.69	87.22	51.95	-6,842.04	4,354.40	8,992.76	8,812.37	180.39	49.852		
9,200.00	7,416.56	5,050.00	5,050.00	108.02	87.22	47.74	-6,842.04	4,354.40	8,978.83	8,798.25	180.58	49.723		
9,250.00	7,449.09	5,050.00	5,050.00	108.29	87.22	43.98	-6,842.04	4,354.40	8,961.05	8,780.31	180.74	49.581		
9,300.00	7,479.56	5,050.00	5,050.00	108.51	87.22	40.63	-6,842.04	4,354.40	8,939.54	8,758.68	180.86	49.429		
9,350.00	7,507.74	5,050.00	5,050.00	108.68	87.22	37.62	-6,842.04	4,354.40	8,914.44	8,733.49	180.95	49.265		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,050.00	5,050.00	108.79	87.22	34.89	-6,842.04	4,354.40	8,885.91	8,704.90	181.00	49.092		
9,450.00	7,556.39	5,050.00	5,050.00	108.86	87.22	32.36	-6,842.04	4,354.40	8,854.13	8,673.10	181.03	48.909		
9,500.00	7,576.48	5,050.00	5,050.00	108.88	87.22	29.94	-6,842.04	4,354.40	8,819.32	8,638.29	181.03	48.717		
9,550.00	7,593.55	5,050.00	5,050.00	108.86	87.22	27.54	-6,842.04	4,354.40	8,781.70	8,600.69	181.01	48.516		
9,600.00	7,607.46	5,050.00	5,050.00	108.80	87.22	25.02	-6,842.04	4,354.40	8,741.52	8,560.56	180.96	48.306		
9,650.00	7,618.11	5,050.00	5,050.00	108.71	87.22	22.19	-6,842.04	4,354.40	8,699.06	8,518.16	180.90	48.088		
9,700.00	7,625.41	5,050.00	5,050.00	108.59	87.22	18.71	-6,842.04	4,354.40	8,654.62	8,473.79	180.83	47.862		
9,750.00	7,629.30	5,050.00	5,050.00	108.45	87.22	14.02	-6,842.04	4,354.40	8,608.49	8,427.74	180.74	47.628		
9,781.81	7,630.00	5,050.00	5,050.00	108.35	87.22	9.92	-6,842.04	4,354.40	8,578.42	8,397.73	180.69	47.476		
9,800.00	7,630.00	5,050.00	5,050.00	108.29	87.22	9.92	-6,842.04	4,354.40	8,561.08	8,380.42	180.66	47.388		
9,900.00	7,630.00	5,050.00	5,050.00	107.97	87.22	9.92	-6,842.04	4,354.40	8,465.85	8,285.37	180.48	46.907		
10,000.00	7,630.00	5,050.00	5,050.00	107.67	87.22	9.92	-6,842.04	4,354.40	8,370.72	8,190.43	180.30	46.427		
10,100.00	7,630.00	5,050.00	5,050.00	107.38	87.22	9.92	-6,842.04	4,354.40	8,275.71	8,095.61	180.11	45.948		
10,200.00	7,630.00	5,050.00	5,050.00	107.10	87.22	9.92	-6,842.04	4,354.40	8,180.83	8,000.91	179.92	45.470		
10,300.00	7,630.00	5,050.00	5,050.00	106.84	87.22	9.92	-6,842.04	4,354.40	8,086.06	7,906.34	179.72	44.993		
10,400.00	7,630.00	5,050.00	5,050.00	106.59	87.22	9.92	-6,842.04	4,354.40	7,991.42	7,811.91	179.51	44.517		
10,500.00	7,630.00	5,050.00	5,050.00	106.35	87.22	9.92	-6,842.04	4,354.40	7,896.92	7,717.61	179.30	44.042		
10,600.00	7,630.00	5,050.00	5,050.00	106.13	87.22	9.92	-6,842.04	4,354.40	7,802.55	7,623.46	179.09	43.568		
10,700.00	7,630.00	5,050.00	5,050.00	105.92	87.22	9.92	-6,842.04	4,354.40	7,708.32	7,529.45	178.87	43.095		
10,800.00	7,630.00	5,050.00	5,050.00	105.72	87.22	9.92	-6,842.04	4,354.40	7,614.24	7,435.60	178.64	42.624		
10,900.00	7,630.00	5,050.00	5,050.00	105.54	87.22	9.92	-6,842.04	4,354.40	7,520.31	7,341.91	178.40	42.154		
11,000.00	7,630.00	5,050.00	5,050.00	105.37	87.22	9.92	-6,842.04	4,354.40	7,426.54	7,248.39	178.16	41.685		
11,100.00	7,630.00	5,050.00	5,050.00	105.21	87.22	9.92	-6,842.04	4,354.40	7,332.94	7,155.03	177.91	41.218		
11,200.00	7,630.00	5,050.00	5,050.00	105.06	87.22	9.92	-6,842.04	4,354.40	7,239.51	7,061.86	177.65	40.752		
11,300.00	7,630.00	5,050.00	5,050.00	104.93	87.22	9.92	-6,842.04	4,354.40	7,146.25	6,968.87	177.38	40.288		
11,400.00	7,630.00	5,050.00	5,050.00	104.82	87.22	9.92	-6,842.04	4,354.40	7,053.18	6,876.08	177.10	39.825		
11,500.00	7,630.00	5,050.00	5,050.00	104.72	87.22	9.92	-6,842.04	4,354.40	6,960.30	6,783.49	176.82	39.364		
11,600.00	7,630.00	5,050.00	5,050.00	104.63	87.22	9.92	-6,842.04	4,354.40	6,867.63	6,691.10	176.52	38.905		
11,700.00	7,630.00	5,050.00	5,050.00	104.55	87.22	9.92	-6,842.04	4,354.40	6,775.16	6,598.94	176.22	38.448		
11,800.00	7,630.00	5,050.00	5,050.00	104.50	87.22	9.92	-6,842.04	4,354.40	6,682.90	6,507.00	175.90	37.992		
11,900.00	7,630.00	5,050.00	5,050.00	104.45	87.22	9.92	-6,842.04	4,354.40	6,590.88	6,415.30	175.57	37.539		
12,000.00	7,630.00	5,050.00	5,050.00	104.43	87.22	9.92	-6,842.04	4,354.40	6,499.09	6,323.85	175.24	37.088		
12,100.00	7,630.00	5,050.00	5,050.00	104.42	87.22	9.92	-6,842.04	4,354.40	6,407.54	6,232.65	174.88	36.639		
12,200.00	7,630.00	5,050.00	5,050.00	104.42	87.22	9.92	-6,842.04	4,354.40	6,316.25	6,141.73	174.52	36.192		
12,300.00	7,630.00	5,050.00	5,050.00	104.45	87.22	9.92	-6,842.04	4,354.40	6,225.23	6,051.08	174.14	35.747		
12,400.00	7,630.00	5,050.00	5,050.00	104.49	87.22	9.92	-6,842.04	4,354.40	6,134.49	5,960.73	173.75	35.306		
12,500.00	7,630.00	5,050.00	5,050.00	104.55	87.22	9.92	-6,842.04	4,354.40	6,044.04	5,870.69	173.35	34.866		
12,600.00	7,630.00	5,050.00	5,050.00	104.63	87.22	9.92	-6,842.04	4,354.40	5,953.89	5,780.96	172.93	34.430		
12,700.00	7,630.00	5,050.00	5,050.00	104.73	87.22	9.92	-6,842.04	4,354.40	5,864.07	5,691.58	172.49	33.996		
12,800.00	7,630.00	5,050.00	5,050.00	104.85	87.22	9.92	-6,842.04	4,354.40	5,774.58	5,602.54	172.04	33.566		
12,900.00	7,630.00	5,050.00	5,050.00	104.99	87.22	9.92	-6,842.04	4,354.40	5,685.44	5,513.87	171.57	33.139		
13,000.00	7,630.00	5,050.00	5,050.00	105.15	87.22	9.92	-6,842.04	4,354.40	5,596.67	5,425.59	171.07	32.715		
13,100.00	7,630.00	5,050.00	5,050.00	105.34	87.22	9.92	-6,842.04	4,354.40	5,508.28	5,337.71	170.56	32.295		
13,200.00	7,630.00	5,050.00	5,050.00	105.56	87.22	9.92	-6,842.04	4,354.40	5,420.29	5,250.26	170.03	31.878		
13,300.00	7,630.00	5,050.00	5,050.00	105.80	87.22	9.92	-6,842.04	4,354.40	5,332.73	5,163.25	169.48	31.465		
13,400.00	7,630.00	5,050.00	5,050.00	106.06	87.22	9.92	-6,842.04	4,354.40	5,245.62	5,076.71	168.90	31.057		
13,500.00	7,630.00	5,050.00	5,050.00	106.36	87.22	9.92	-6,842.04	4,354.40	5,158.97	4,990.66	168.30	30.653		
13,600.00	7,630.00	5,050.00	5,050.00	106.68	87.22	9.92	-6,842.04	4,354.40	5,072.81	4,905.13	167.68	30.254		
13,700.00	7,630.00	5,050.00	5,050.00	107.03	87.22	9.92	-6,842.04	4,354.40	4,987.17	4,820.14	167.02	29.859		
13,800.00	7,630.00	5,050.00	5,050.00	107.42	87.22	9.92	-6,842.04	4,354.40	4,902.07	4,735.73	166.34	29.470		
13,900.00	7,630.00	5,050.00	5,050.00	107.83	87.22	9.92	-6,842.04	4,354.40	4,817.55	4,651.91	165.63	29.086		
14,000.00	7,630.00	5,050.00	5,050.00	108.28	87.22	9.92	-6,842.04	4,354.40	4,733.63	4,568.73	164.89	28.708		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,050.00	5,050.00	108.77	87.22	9.92	-6,842.04	4,354.40	4,650.34	4,486.22	164.12	28.335		
14,200.00	7,630.00	5,050.00	5,050.00	109.29	87.22	9.92	-6,842.04	4,354.40	4,567.73	4,404.42	163.31	27.970		
14,300.00	7,630.00	5,050.00	5,050.00	109.84	87.22	9.92	-6,842.04	4,354.40	4,485.82	4,323.35	162.47	27.611		
14,400.00	7,630.00	5,050.00	5,050.00	110.43	87.22	9.92	-6,842.04	4,354.40	4,404.66	4,243.08	161.58	27.259		
14,500.00	7,630.00	5,050.00	5,050.00	111.06	87.22	9.92	-6,842.04	4,354.40	4,324.29	4,163.63	160.66	26.915		
14,600.00	7,630.00	5,050.00	5,050.00	111.72	87.22	9.92	-6,842.04	4,354.40	4,244.76	4,085.06	159.70	26.579		
14,700.00	7,630.00	5,050.00	5,050.00	112.42	87.22	9.92	-6,842.04	4,354.40	4,166.10	4,007.41	158.69	26.252		
14,800.00	7,630.00	5,050.00	5,050.00	113.16	87.22	9.92	-6,842.04	4,354.40	4,088.38	3,930.74	157.64	25.934		
14,900.00	7,630.00	5,050.00	5,050.00	113.94	87.22	9.92	-6,842.04	4,354.40	4,011.65	3,855.10	156.55	25.626		
15,000.00	7,630.00	5,050.00	5,050.00	114.75	87.22	9.92	-6,842.04	4,354.40	3,935.96	3,780.56	155.40	25.328		
15,100.00	7,630.00	5,050.00	5,050.00	115.60	87.22	9.92	-6,842.04	4,354.40	3,861.38	3,707.17	154.21	25.041		
15,200.00	7,630.00	5,050.00	5,050.00	116.48	87.22	9.92	-6,842.04	4,354.40	3,787.97	3,635.01	152.96	24.765		
15,300.00	7,630.00	5,050.00	5,050.00	117.40	87.22	9.92	-6,842.04	4,354.40	3,715.80	3,564.14	151.65	24.502		
15,400.00	7,630.00	5,050.00	5,050.00	118.35	87.22	9.92	-6,842.04	4,354.40	3,644.94	3,494.64	150.30	24.252		
15,500.00	7,630.00	5,050.00	5,050.00	119.34	87.22	9.92	-6,842.04	4,354.40	3,575.48	3,426.60	148.88	24.015		
15,600.00	7,630.00	5,050.00	5,050.00	120.35	87.22	9.92	-6,842.04	4,354.40	3,507.49	3,360.08	147.41	23.794		
15,700.00	7,630.00	5,050.00	5,050.00	121.40	87.22	9.92	-6,842.04	4,354.40	3,441.07	3,295.19	145.88	23.588		
15,800.00	7,630.00	5,050.00	5,050.00	122.48	87.22	9.92	-6,842.04	4,354.40	3,376.30	3,232.01	144.30	23.398		
15,900.00	7,630.00	5,050.00	5,050.00	123.58	87.22	9.92	-6,842.04	4,354.40	3,313.29	3,170.63	142.65	23.226		
16,000.00	7,630.00	5,050.00	5,050.00	124.71	87.22	9.92	-6,842.04	4,354.40	3,252.13	3,111.17	140.95	23.073		
16,100.00	7,630.00	5,050.00	5,050.00	125.87	87.22	9.92	-6,842.04	4,354.40	3,192.93	3,053.73	139.20	22.938		
16,200.00	7,630.00	5,050.00	5,050.00	127.05	87.22	9.92	-6,842.04	4,354.40	3,135.80	2,998.41	137.39	22.824		
16,300.00	7,630.00	5,050.00	5,050.00	128.26	87.22	9.92	-6,842.04	4,354.40	3,080.86	2,945.32	135.54	22.731		
16,400.00	7,630.00	5,050.00	5,050.00	129.48	87.22	9.92	-6,842.04	4,354.40	3,028.23	2,894.59	133.64	22.660		
16,500.00	7,630.00	5,050.00	5,050.00	130.73	87.22	9.92	-6,842.04	4,354.40	2,978.02	2,846.31	131.71	22.611		
16,600.00	7,630.00	5,050.00	5,050.00	132.00	87.22	9.92	-6,842.04	4,354.40	2,930.37	2,800.62	129.75	22.585		
16,700.00	7,630.00	5,050.00	5,050.00	133.29	87.22	9.92	-6,842.04	4,354.40	2,885.40	2,757.63	127.77	22.583		
16,800.00	7,630.00	5,050.00	5,050.00	134.59	87.22	9.92	-6,842.04	4,354.40	2,843.23	2,717.44	125.79	22.603		
16,900.00	7,630.00	5,050.00	5,050.00	135.91	87.22	9.92	-6,842.04	4,354.40	2,804.00	2,680.18	123.82	22.646		
17,000.00	7,630.00	5,050.00	5,050.00	137.25	87.22	9.92	-6,842.04	4,354.40	2,767.83	2,645.95	121.88	22.709		
17,100.00	7,630.00	5,050.00	5,050.00	138.61	87.22	9.92	-6,842.04	4,354.40	2,734.84	2,614.84	120.00	22.791		
17,200.00	7,630.00	5,050.00	5,050.00	139.97	87.22	9.92	-6,842.04	4,354.40	2,705.14	2,586.94	118.20	22.886		
17,300.00	7,630.00	5,050.00	5,050.00	141.36	87.22	9.92	-6,842.04	4,354.40	2,678.85	2,562.33	116.52	22.990		
17,400.00	7,630.00	5,050.00	5,050.00	142.75	87.22	9.92	-6,842.04	4,354.40	2,656.07	2,541.06	115.01	23.093		
17,500.00	7,630.00	5,050.00	5,050.00	144.16	87.22	9.92	-6,842.04	4,354.40	2,636.88	2,523.16	113.72	23.187		
17,600.00	7,630.00	5,050.00	5,050.00	145.58	87.22	9.92	-6,842.04	4,354.40	2,621.38	2,508.66	112.72	23.256		
17,700.00	7,630.00	5,050.00	5,050.00	147.01	87.22	9.92	-6,842.04	4,354.40	2,609.61	2,497.55	112.07	23.287		
17,800.00	7,630.00	5,050.00	5,050.00	148.45	87.22	9.92	-6,842.04	4,354.40	2,601.64	2,489.80	111.84	23.262		
17,900.00	7,630.00	5,050.00	5,050.00	149.91	87.22	9.92	-6,842.04	4,354.40	2,597.50	2,485.39	112.10	23.171		
17,957.72	7,630.00	5,050.00	5,050.00	150.75	87.22	9.92	-6,842.04	4,354.40	2,596.85	2,484.36	112.49	23.085 CC		
18,000.00	7,630.00	5,050.00	5,050.00	151.37	87.22	9.92	-6,842.04	4,354.40	2,597.20	2,484.31	112.88	23.008 ES		
18,100.00	7,630.00	5,050.00	5,050.00	152.84	87.22	9.92	-6,842.04	4,354.40	2,600.75	2,486.57	114.18	22.777		
18,200.00	7,630.00	5,050.00	5,050.00	154.32	87.22	9.92	-6,842.04	4,354.40	2,608.13	2,492.18	115.95	22.494		
18,300.00	7,630.00	5,050.00	5,050.00	155.81	87.22	9.92	-6,842.04	4,354.40	2,619.31	2,501.20	118.12	22.176		
18,400.00	7,630.00	5,050.00	5,050.00	157.31	87.22	9.92	-6,842.04	4,354.40	2,634.25	2,513.65	120.60	21.843		
18,500.00	7,630.00	5,050.00	5,050.00	158.81	87.22	9.92	-6,842.04	4,354.40	2,652.87	2,529.56	123.31	21.514		
18,600.00	7,630.00	5,050.00	5,050.00	160.32	87.22	9.92	-6,842.04	4,354.40	2,675.10	2,548.93	126.17	21.202		
18,700.00	7,630.00	5,050.00	5,050.00	161.84	87.22	9.92	-6,842.04	4,354.40	2,700.86	2,571.73	129.13	20.916		
18,800.00	7,630.00	5,050.00	5,050.00	163.37	87.22	9.92	-6,842.04	4,354.40	2,730.03	2,597.91	132.12	20.663		
18,900.00	7,630.00	5,050.00	5,050.00	164.90	87.22	9.92	-6,842.04	4,354.40	2,762.52	2,627.41	135.11	20.446		
19,000.00	7,630.00	5,050.00	5,050.00	166.43	87.22	9.92	-6,842.04	4,354.40	2,798.21	2,660.15	138.06	20.268		
19,100.00	7,630.00	5,050.00	5,050.00	167.98	87.22	9.92	-6,842.04	4,354.40	2,836.98	2,696.02	140.95	20.127		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	5,050.00	5,050.00	169.53	87.22	9.92	-6,842.04	4,354.40	2,878.70	2,734.94	143.76	20.024	
19,300.00	7,630.00	5,050.00	5,050.00	171.08	87.22	9.92	-6,842.04	4,354.40	2,923.24	2,776.77	146.48	19.957	
19,400.00	7,630.00	5,050.00	5,050.00	172.64	87.22	9.92	-6,842.04	4,354.40	2,970.49	2,821.40	149.09	19.924 SF	
19,500.00	7,630.00	5,050.00	5,050.00	174.21	87.22	9.92	-6,842.04	4,354.40	3,020.31	2,868.72	151.59	19.924	
19,518.56	7,630.00	5,050.00	5,050.00	174.50	87.22	9.92	-6,842.04	4,354.40	3,029.83	2,877.79	152.04	19.928	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	152.05	-8,182.26	4,342.31	9,263.15					
100.00	100.00	69.00	69.00	0.13	0.57	152.05	-8,182.26	4,342.31	9,263.10	9,262.40	0.71	N/A		
200.00	200.00	169.00	169.00	0.49	2.03	152.05	-8,182.26	4,342.31	9,263.10	9,260.58	2.53	3,666.801		
300.00	300.00	269.00	269.00	0.85	3.78	152.05	-8,182.26	4,342.31	9,263.10	9,258.47	4.63	2,000.666		
400.00	400.00	369.00	369.00	1.21	5.52	152.05	-8,182.26	4,342.31	9,263.10	9,256.37	6.73	1,375.611		
500.00	499.98	468.98	468.98	1.56	7.27	85.33	-8,182.26	4,342.31	9,262.96	9,254.13	8.83	1,048.702		
600.00	599.84	568.84	568.84	1.92	9.01	85.37	-8,182.26	4,342.31	9,262.54	9,251.61	10.93	847.410		
700.00	699.45	668.45	668.45	2.29	10.75	85.44	-8,182.26	4,342.31	9,261.84	9,248.80	13.03	710.601		
800.00	798.70	767.70	767.70	2.67	12.48	85.54	-8,182.26	4,342.31	9,260.87	9,245.72	15.15	611.442		
900.00	897.47	866.47	866.47	3.07	14.21	85.66	-8,182.26	4,342.31	9,259.65	9,242.38	17.27	536.150		
1,000.00	995.62	964.62	964.62	3.50	15.92	85.80	-8,182.26	4,342.31	9,258.21	9,238.79	19.41	476.935		
1,100.00	1,093.06	1,062.06	1,062.06	3.96	17.62	85.97	-8,182.26	4,342.31	9,256.55	9,234.98	21.57	429.068		
1,200.00	1,189.64	1,158.64	1,158.64	4.46	19.31	86.16	-8,182.26	4,342.31	9,254.71	9,230.95	23.76	389.515		
1,300.00	1,285.27	1,254.27	1,254.27	5.00	20.97	86.37	-8,182.26	4,342.31	9,252.72	9,226.75	25.97	356.243		
1,400.00	1,379.82	1,348.82	1,348.82	5.60	22.62	86.60	-8,182.26	4,342.31	9,250.61	9,222.39	28.22	327.838		
1,500.00	1,473.17	1,442.17	1,442.17	6.25	24.25	86.86	-8,182.26	4,342.31	9,248.42	9,217.93	30.49	303.288		
1,600.00	1,565.21	1,534.21	1,534.21	6.95	25.86	87.12	-8,182.26	4,342.31	9,246.19	9,213.39	32.81	281.848		
1,700.00	1,655.84	1,624.84	1,624.84	7.72	27.44	87.40	-8,182.26	4,342.31	9,243.97	9,208.81	35.15	262.959		
1,800.00	1,744.94	1,713.94	1,713.94	8.55	29.00	87.70	-8,182.26	4,342.31	9,241.79	9,204.25	37.54	246.190		
1,900.00	1,832.39	1,801.39	1,801.39	9.45	30.52	88.00	-8,182.26	4,342.31	9,239.71	9,199.75	39.96	231.208		
2,000.00	1,918.11	1,887.11	1,887.11	10.41	32.02	88.31	-8,182.26	4,342.31	9,237.78	9,195.36	42.42	217.745		
2,100.00	2,001.97	1,970.97	1,970.97	11.45	33.48	88.63	-8,182.26	4,342.31	9,236.06	9,191.13	44.93	205.588		
2,200.00	2,083.88	2,052.88	2,052.88	12.56	34.91	88.95	-8,182.26	4,342.31	9,234.58	9,187.12	47.46	194.564		
2,300.00	2,163.74	2,132.74	2,132.74	13.74	36.31	89.27	-8,182.26	4,342.31	9,233.42	9,183.38	50.04	184.529		
2,400.00	2,241.45	2,210.45	2,210.45	14.99	37.66	89.59	-8,182.26	4,342.31	9,232.62	9,179.97	52.65	175.366		
2,421.22	2,257.65	2,226.65	2,226.65	15.26	37.95	89.66	-8,182.26	4,342.31	9,232.51	9,179.30	53.21	173.526		
2,500.00	2,317.63	2,286.63	2,286.63	16.29	38.99	89.90	-8,182.26	4,342.31	9,232.25	9,176.96	55.29	166.993		
2,531.86	2,341.88	2,310.88	2,310.88	16.72	39.42	90.00	-8,182.26	4,342.31	9,232.23	9,176.10	56.13	164.477		
2,600.00	2,393.75	2,362.75	2,362.75	17.62	40.32	90.21	-8,182.26	4,342.31	9,232.33	9,174.39	57.94	159.345		
2,700.00	2,469.88	2,438.88	2,438.88	18.95	41.65	90.52	-8,182.26	4,342.31	9,232.87	9,172.27	60.60	152.348		
2,800.00	2,546.01	2,515.01	2,515.01	20.30	42.98	90.82	-8,182.26	4,342.31	9,233.86	9,170.59	63.28	145.927		
2,900.00	2,622.13	2,608.87	2,591.13	21.65	44.62	91.13	-8,182.26	4,342.31	9,235.31	9,169.05	66.27	139.366		
3,000.00	2,698.26	2,667.26	2,667.26	23.01	45.64	91.43	-8,182.26	4,342.31	9,237.22	9,168.57	68.64	134.571		
3,100.00	2,774.38	2,743.38	2,743.38	24.37	46.96	91.74	-8,182.26	4,342.31	9,239.57	9,168.24	71.33	129.531		
3,200.00	2,850.51	2,819.51	2,819.51	25.74	48.29	92.05	-8,182.26	4,342.31	9,242.39	9,168.36	74.02	124.859		
3,300.00	2,926.64	2,904.36	2,895.64	27.11	49.77	92.35	-8,182.26	4,342.31	9,245.65	9,168.78	76.87	120.279		
3,400.00	3,002.76	2,971.76	2,971.76	28.49	50.95	92.66	-8,182.26	4,342.31	9,249.37	9,169.96	79.41	116.474		
3,500.00	3,078.89	3,047.89	3,047.89	29.87	52.28	92.96	-8,182.26	4,342.31	9,253.55	9,171.44	82.11	112.701		
3,600.00	3,155.02	3,124.02	3,124.02	31.25	53.61	93.27	-8,182.26	4,342.31	9,258.17	9,173.37	84.80	109.173		
3,700.00	3,231.14	3,200.14	3,200.14	32.63	54.94	93.57	-8,182.26	4,342.31	9,263.25	9,175.75	87.50	105.868		
3,800.00	3,307.27	3,276.27	3,276.27	34.01	56.27	93.88	-8,182.26	4,342.31	9,268.78	9,178.58	90.19	102.767		
3,900.00	3,383.39	3,352.39	3,352.39	35.40	57.59	94.18	-8,182.26	4,342.31	9,274.75	9,181.87	92.89	99.851		
4,000.00	3,459.52	3,428.52	3,428.52	36.79	58.92	94.49	-8,182.26	4,342.31	9,281.18	9,185.60	95.58	97.106		
4,100.00	3,535.65	3,504.65	3,504.65	38.18	60.25	94.79	-8,182.26	4,342.31	9,288.06	9,189.79	98.27	94.518		
4,200.00	3,611.77	3,580.77	3,580.77	39.57	61.58	95.10	-8,182.26	4,342.31	9,295.38	9,194.42	100.96	92.074		
4,300.00	3,687.90	3,656.90	3,656.90	40.96	62.91	95.40	-8,182.26	4,342.31	9,303.15	9,199.51	103.64	89.763		
4,400.00	3,764.02	3,733.02	3,733.02	42.35	64.24	95.70	-8,182.26	4,342.31	9,311.36	9,205.04	106.32	87.576		
4,500.00	3,840.15	3,809.15	3,809.15	43.74	65.57	96.01	-8,182.26	4,342.31	9,320.02	9,211.02	109.00	85.502		
4,600.00	3,916.28	3,885.28	3,885.28	45.13	66.89	96.31	-8,182.26	4,342.31	9,329.12	9,217.44	111.68	83.535		
4,700.00	3,992.40	3,961.40	3,961.40	46.53	68.22	96.61	-8,182.26	4,342.31	9,338.66	9,224.31	114.35	81.665		
4,800.00	4,068.53	4,037.53	4,037.53	47.92	69.55	96.91	-8,182.26	4,342.31	9,348.64	9,231.62	117.02	79.888		
4,900.00	4,144.66	4,113.66	4,113.66	49.32	70.88	97.22	-8,182.26	4,342.31	9,359.07	9,239.38	119.69	78.196		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,220.78	4,189.78	4,189.78	50.71	72.21	97.52	-8,182.26	4,342.31	9,369.92	9,247.57	122.35	76.583		
5,100.00	4,296.91	4,265.91	4,265.91	52.11	73.54	97.82	-8,182.26	4,342.31	9,381.22	9,256.21	125.01	75.046		
5,200.00	4,373.03	4,342.03	4,342.03	53.51	74.87	98.12	-8,182.26	4,342.31	9,392.94	9,265.28	127.66	73.578		
5,300.00	4,449.16	4,418.16	4,418.16	54.90	76.20	98.42	-8,182.26	4,342.31	9,405.10	9,274.80	130.31	72.176		
5,400.00	4,525.29	4,505.71	4,494.29	56.30	77.72	98.72	-8,182.26	4,342.31	9,417.69	9,284.54	133.15	70.729		
5,500.00	4,601.41	4,570.41	4,570.41	57.70	78.85	99.02	-8,182.26	4,342.31	9,430.71	9,295.12	135.59	69.552		
5,600.00	4,677.54	4,646.54	4,646.54	59.10	80.18	99.32	-8,182.26	4,342.31	9,444.16	9,305.94	138.23	68.324		
5,700.00	4,753.66	4,722.66	4,722.66	60.49	81.51	99.61	-8,182.26	4,342.31	9,458.03	9,317.18	140.85	67.148		
5,800.00	4,829.79	4,801.21	4,798.79	61.89	82.88	99.91	-8,182.26	4,342.31	9,472.33	9,328.81	143.52	66.000		
5,900.00	4,905.92	4,874.92	4,874.92	63.29	84.17	100.21	-8,182.26	4,342.31	9,487.05	9,340.95	146.10	64.937		
6,000.00	4,982.04	4,951.04	4,951.04	64.69	85.50	100.51	-8,182.26	4,342.31	9,502.19	9,353.48	148.71	63.898		
6,100.00	5,058.17	5,027.17	5,027.17	66.09	86.82	100.80	-8,182.26	4,342.31	9,517.74	9,366.43	151.32	62.900		
6,200.00	5,134.30	5,048.00	5,048.00	67.49	87.19	100.88	-8,182.26	4,342.31	9,533.87	9,380.93	152.94	62.338		
6,300.00	5,210.42	5,048.00	5,048.00	68.89	87.19	100.88	-8,182.26	4,342.31	9,551.00	9,396.82	154.18	61.948		
6,400.00	5,286.55	5,048.00	5,048.00	70.29	87.19	100.88	-8,182.26	4,342.31	9,569.14	9,413.74	155.40	61.577		
6,500.00	5,362.67	5,048.00	5,048.00	71.69	87.19	100.88	-8,182.26	4,342.31	9,588.30	9,431.69	156.61	61.225		
6,600.00	5,438.80	5,048.00	5,048.00	73.09	87.19	100.88	-8,182.26	4,342.31	9,608.45	9,450.65	157.80	60.891		
6,700.00	5,514.93	5,048.00	5,048.00	74.49	87.19	100.88	-8,182.26	4,342.31	9,629.60	9,470.63	158.97	60.575		
6,800.00	5,591.05	5,048.00	5,048.00	75.89	87.19	100.88	-8,182.26	4,342.31	9,651.74	9,491.62	160.12	60.276		
6,900.00	5,667.18	5,048.00	5,048.00	77.29	87.19	100.88	-8,182.26	4,342.31	9,674.86	9,513.60	161.26	59.995		
7,000.00	5,743.30	5,048.00	5,048.00	78.69	87.19	100.88	-8,182.26	4,342.31	9,698.96	9,536.58	162.38	59.729		
7,100.00	5,819.43	5,048.00	5,048.00	80.09	87.19	100.88	-8,182.26	4,342.31	9,724.03	9,560.55	163.48	59.480		
7,200.00	5,895.56	5,048.00	5,048.00	81.49	87.19	100.88	-8,182.26	4,342.31	9,750.06	9,585.49	164.57	59.246		
7,300.00	5,971.68	5,048.00	5,048.00	82.90	87.19	100.88	-8,182.26	4,342.31	9,777.04	9,611.41	165.63	59.028		
7,400.00	6,047.81	5,048.00	5,048.00	84.30	87.19	100.88	-8,182.26	4,342.31	9,804.97	9,638.29	166.68	58.824		
7,500.00	6,123.94	5,048.00	5,048.00	85.70	87.19	100.88	-8,182.26	4,342.31	9,833.84	9,666.12	167.71	58.635		
7,600.00	6,200.06	5,048.00	5,048.00	87.10	87.19	100.88	-8,182.26	4,342.31	9,863.63	9,694.91	168.73	58.459		
7,700.00	6,276.19	5,048.00	5,048.00	88.50	87.19	100.88	-8,182.26	4,342.31	9,894.35	9,724.63	169.72	58.298		
7,800.00	6,352.31	5,048.00	5,048.00	89.90	87.19	100.88	-8,182.26	4,342.31	9,925.98	9,755.28	170.70	58.149		
7,900.00	6,428.44	5,048.00	5,048.00	91.31	87.19	100.88	-8,182.26	4,342.31	9,958.51	9,786.85	171.66	58.014		
8,000.00	6,504.57	5,048.00	5,048.00	92.71	87.19	100.88	-8,182.26	4,342.31	9,991.94	9,819.34	172.60	57.891		
9,650.00	7,618.11	5,048.00	5,048.00	108.71	87.19	23.40	-8,182.26	4,342.31	9,985.33	9,802.15	183.18	54.511		
9,700.00	7,625.41	5,048.00	5,048.00	108.59	87.19	19.81	-8,182.26	4,342.31	9,940.01	9,756.86	183.15	54.272		
9,750.00	7,629.30	5,048.00	5,048.00	108.45	87.19	14.76	-8,182.26	4,342.31	9,893.14	9,710.03	183.11	54.029		
9,781.81	7,630.00	5,048.00	5,048.00	108.35	87.19	10.12	-8,182.26	4,342.31	9,862.67	9,679.59	183.07	53.873		
9,800.00	7,630.00	5,048.00	5,048.00	108.29	87.19	10.12	-8,182.26	4,342.31	9,845.11	9,662.06	183.05	53.782		
9,900.00	7,630.00	5,048.00	5,048.00	107.97	87.19	10.12	-8,182.26	4,342.31	9,748.67	9,565.73	182.94	53.288		
10,000.00	7,630.00	5,048.00	5,048.00	107.67	87.19	10.12	-8,182.26	4,342.31	9,652.31	9,469.48	182.83	52.794		
10,100.00	7,630.00	5,048.00	5,048.00	107.38	87.19	10.12	-8,182.26	4,342.31	9,556.02	9,373.30	182.71	52.301		
10,200.00	7,630.00	5,048.00	5,048.00	107.10	87.19	10.12	-8,182.26	4,342.31	9,459.80	9,277.21	182.59	51.808		
10,300.00	7,630.00	5,048.00	5,048.00	106.84	87.19	10.12	-8,182.26	4,342.31	9,363.67	9,181.19	182.47	51.316		
10,400.00	7,630.00	5,048.00	5,048.00	106.59	87.19	10.12	-8,182.26	4,342.31	9,267.61	9,085.27	182.35	50.824		
10,500.00	7,630.00	5,048.00	5,048.00	106.35	87.19	10.12	-8,182.26	4,342.31	9,171.64	8,989.43	182.22	50.333		
10,600.00	7,630.00	5,048.00	5,048.00	106.13	87.19	10.12	-8,182.26	4,342.31	9,075.76	8,893.67	182.09	49.843		
10,700.00	7,630.00	5,048.00	5,048.00	105.92	87.19	10.12	-8,182.26	4,342.31	8,979.97	8,798.02	181.95	49.353		
10,800.00	7,630.00	5,048.00	5,048.00	105.72	87.19	10.12	-8,182.26	4,342.31	8,884.27	8,702.45	181.82	48.864		
10,900.00	7,630.00	5,048.00	5,048.00	105.54	87.19	10.12	-8,182.26	4,342.31	8,788.67	8,606.99	181.68	48.375		
11,000.00	7,630.00	5,048.00	5,048.00	105.37	87.19	10.12	-8,182.26	4,342.31	8,693.16	8,511.63	181.53	47.888		
11,100.00	7,630.00	5,048.00	5,048.00	105.21	87.19	10.12	-8,182.26	4,342.31	8,597.76	8,416.37	181.39	47.401		
11,200.00	7,630.00	5,048.00	5,048.00	105.06	87.19	10.12	-8,182.26	4,342.31	8,502.46	8,321.23	181.23	46.914		
11,300.00	7,630.00	5,048.00	5,048.00	104.93	87.19	10.12	-8,182.26	4,342.31	8,407.28	8,226.20	181.08	46.429		
11,400.00	7,630.00	5,048.00	5,048.00	104.82	87.19	10.12	-8,182.26	4,342.31	8,312.20	8,131.28	180.92	45.944		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
11,500.00	7,630.00	5,048.00	5,048.00	104.72	87.19	10.12	-8,182.26	4,342.31	8,217.24	8,036.49	180.75	45.461		
11,600.00	7,630.00	5,048.00	5,048.00	104.63	87.19	10.12	-8,182.26	4,342.31	8,122.41	7,941.82	180.59	44.978		
11,700.00	7,630.00	5,048.00	5,048.00	104.55	87.19	10.12	-8,182.26	4,342.31	8,027.70	7,847.28	180.41	44.496		
11,800.00	7,630.00	5,048.00	5,048.00	104.50	87.19	10.12	-8,182.26	4,342.31	7,933.12	7,752.88	180.24	44.015		
11,900.00	7,630.00	5,048.00	5,048.00	104.45	87.19	10.12	-8,182.26	4,342.31	7,838.67	7,658.62	180.05	43.536		
12,000.00	7,630.00	5,048.00	5,048.00	104.43	87.19	10.12	-8,182.26	4,342.31	7,744.36	7,564.50	179.86	43.057		
12,100.00	7,630.00	5,048.00	5,048.00	104.42	87.19	10.12	-8,182.26	4,342.31	7,650.20	7,470.53	179.67	42.579		
12,200.00	7,630.00	5,048.00	5,048.00	104.42	87.19	10.12	-8,182.26	4,342.31	7,556.19	7,376.72	179.47	42.103		
12,300.00	7,630.00	5,048.00	5,048.00	104.45	87.19	10.12	-8,182.26	4,342.31	7,462.33	7,283.06	179.26	41.627		
12,400.00	7,630.00	5,048.00	5,048.00	104.49	87.19	10.12	-8,182.26	4,342.31	7,368.63	7,189.58	179.05	41.153		
12,500.00	7,630.00	5,048.00	5,048.00	104.55	87.19	10.12	-8,182.26	4,342.31	7,275.11	7,096.27	178.83	40.681		
12,600.00	7,630.00	5,048.00	5,048.00	104.63	87.19	10.12	-8,182.26	4,342.31	7,181.75	7,003.14	178.61	40.209		
12,700.00	7,630.00	5,048.00	5,048.00	104.73	87.19	10.12	-8,182.26	4,342.31	7,088.58	6,910.20	178.38	39.740		
12,800.00	7,630.00	5,048.00	5,048.00	104.85	87.19	10.12	-8,182.26	4,342.31	6,995.60	6,817.46	178.14	39.271		
12,900.00	7,630.00	5,048.00	5,048.00	104.99	87.19	10.12	-8,182.26	4,342.31	6,902.81	6,724.92	177.89	38.804		
13,000.00	7,630.00	5,048.00	5,048.00	105.15	87.19	10.12	-8,182.26	4,342.31	6,810.23	6,632.59	177.63	38.339		
13,100.00	7,630.00	5,048.00	5,048.00	105.34	87.19	10.12	-8,182.26	4,342.31	6,717.86	6,540.49	177.37	37.876		
13,200.00	7,630.00	5,048.00	5,048.00	105.56	87.19	10.12	-8,182.26	4,342.31	6,625.71	6,448.61	177.09	37.414		
13,300.00	7,630.00	5,048.00	5,048.00	105.80	87.19	10.12	-8,182.26	4,342.31	6,533.79	6,356.98	176.81	36.954		
13,400.00	7,630.00	5,048.00	5,048.00	106.06	87.19	10.12	-8,182.26	4,342.31	6,442.11	6,265.60	176.52	36.496		
13,500.00	7,630.00	5,048.00	5,048.00	106.36	87.19	10.12	-8,182.26	4,342.31	6,350.69	6,174.47	176.21	36.040		
13,600.00	7,630.00	5,048.00	5,048.00	106.68	87.19	10.12	-8,182.26	4,342.31	6,259.52	6,083.62	175.90	35.586		
13,700.00	7,630.00	5,048.00	5,048.00	107.03	87.19	10.12	-8,182.26	4,342.31	6,168.63	5,993.06	175.57	35.134		
13,800.00	7,630.00	5,048.00	5,048.00	107.42	87.19	10.12	-8,182.26	4,342.31	6,078.03	5,902.79	175.24	34.685		
13,900.00	7,630.00	5,048.00	5,048.00	107.83	87.19	10.12	-8,182.26	4,342.31	5,987.72	5,812.84	174.88	34.238		
14,000.00	7,630.00	5,048.00	5,048.00	108.28	87.19	10.12	-8,182.26	4,342.31	5,897.73	5,723.21	174.52	33.794		
14,100.00	7,630.00	5,048.00	5,048.00	108.77	87.19	10.12	-8,182.26	4,342.31	5,808.07	5,633.92	174.14	33.352		
14,200.00	7,630.00	5,048.00	5,048.00	109.29	87.19	10.12	-8,182.26	4,342.31	5,718.75	5,544.99	173.75	32.913		
14,300.00	7,630.00	5,048.00	5,048.00	109.84	87.19	10.12	-8,182.26	4,342.31	5,629.78	5,456.44	173.35	32.477		
14,400.00	7,630.00	5,048.00	5,048.00	110.43	87.19	10.12	-8,182.26	4,342.31	5,541.20	5,368.27	172.92	32.044		
14,500.00	7,630.00	5,048.00	5,048.00	111.06	87.19	10.12	-8,182.26	4,342.31	5,453.00	5,280.52	172.49	31.614		
14,600.00	7,630.00	5,048.00	5,048.00	111.72	87.19	10.12	-8,182.26	4,342.31	5,365.23	5,193.20	172.03	31.188		
14,700.00	7,630.00	5,048.00	5,048.00	112.42	87.19	10.12	-8,182.26	4,342.31	5,277.89	5,106.33	171.55	30.765		
14,800.00	7,630.00	5,048.00	5,048.00	113.16	87.19	10.12	-8,182.26	4,342.31	5,191.00	5,019.94	171.06	30.346		
14,900.00	7,630.00	5,048.00	5,048.00	113.94	87.19	10.12	-8,182.26	4,342.31	5,104.59	4,934.05	170.54	29.931		
15,000.00	7,630.00	5,048.00	5,048.00	114.75	87.19	10.12	-8,182.26	4,342.31	5,018.69	4,848.69	170.01	29.520		
15,100.00	7,630.00	5,048.00	5,048.00	115.60	87.19	10.12	-8,182.26	4,342.31	4,933.32	4,763.88	169.45	29.114		
15,200.00	7,630.00	5,048.00	5,048.00	116.48	87.19	10.12	-8,182.26	4,342.31	4,848.52	4,679.65	168.87	28.712		
15,300.00	7,630.00	5,048.00	5,048.00	117.40	87.19	10.12	-8,182.26	4,342.31	4,764.29	4,596.04	168.26	28.315		
15,400.00	7,630.00	5,048.00	5,048.00	118.35	87.19	10.12	-8,182.26	4,342.31	4,680.70	4,513.07	167.63	27.924		
15,500.00	7,630.00	5,048.00	5,048.00	119.34	87.19	10.12	-8,182.26	4,342.31	4,597.75	4,430.79	166.96	27.537		
15,600.00	7,630.00	5,048.00	5,048.00	120.35	87.19	10.12	-8,182.26	4,342.31	4,515.50	4,349.22	166.28	27.157		
15,700.00	7,630.00	5,048.00	5,048.00	121.40	87.19	10.12	-8,182.26	4,342.31	4,433.97	4,268.42	165.56	26.782		
15,800.00	7,630.00	5,048.00	5,048.00	122.48	87.19	10.12	-8,182.26	4,342.31	4,353.22	4,188.42	164.80	26.414		
15,900.00	7,630.00	5,048.00	5,048.00	123.58	87.19	10.12	-8,182.26	4,342.31	4,273.28	4,109.26	164.02	26.053		
16,000.00	7,630.00	5,048.00	5,048.00	124.71	87.19	10.12	-8,182.26	4,342.31	4,194.20	4,031.00	163.20	25.699		
16,100.00	7,630.00	5,048.00	5,048.00	125.87	87.19	10.12	-8,182.26	4,342.31	4,116.04	3,953.69	162.35	25.353		
16,200.00	7,630.00	5,048.00	5,048.00	127.05	87.19	10.12	-8,182.26	4,342.31	4,038.83	3,877.38	161.46	25.015		
16,300.00	7,630.00	5,048.00	5,048.00	128.26	87.19	10.12	-8,182.26	4,342.31	3,962.65	3,802.12	160.52	24.686		
16,400.00	7,630.00	5,048.00	5,048.00	129.48	87.19	10.12	-8,182.26	4,342.31	3,887.54	3,727.99	159.55	24.365		
16,500.00	7,630.00	5,048.00	5,048.00	130.73	87.19	10.12	-8,182.26	4,342.31	3,813.58	3,655.04	158.54	24.055		
16,600.00	7,630.00	5,048.00	5,048.00	132.00	87.19	10.12	-8,182.26	4,342.31	3,740.83	3,583.35	157.48	23.755		

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,700.00	7,630.00	5,048.00	5,048.00	133.29	87.19	10.12	-8,182.26	4,342.31	3,669.36	3,512.98	156.37	23.465		
16,800.00	7,630.00	5,048.00	5,048.00	134.59	87.19	10.12	-8,182.26	4,342.31	3,599.25	3,444.02	155.22	23.187		
16,900.00	7,630.00	5,048.00	5,048.00	135.91	87.19	10.12	-8,182.26	4,342.31	3,530.58	3,376.55	154.03	22.922		
17,000.00	7,630.00	5,048.00	5,048.00	137.25	87.19	10.12	-8,182.26	4,342.31	3,463.44	3,310.66	152.78	22.670		
17,100.00	7,630.00	5,048.00	5,048.00	138.61	87.19	10.12	-8,182.26	4,342.31	3,397.91	3,246.43	151.48	22.431		
17,200.00	7,630.00	5,048.00	5,048.00	139.97	87.19	10.12	-8,182.26	4,342.31	3,334.10	3,183.96	150.14	22.207		
17,300.00	7,630.00	5,048.00	5,048.00	141.36	87.19	10.12	-8,182.26	4,342.31	3,272.10	3,123.36	148.74	21.999		
17,400.00	7,630.00	5,048.00	5,048.00	142.75	87.19	10.12	-8,182.26	4,342.31	3,212.01	3,064.72	147.30	21.806		
17,500.00	7,630.00	5,048.00	5,048.00	144.16	87.19	10.12	-8,182.26	4,342.31	3,153.95	3,008.15	145.80	21.632		
17,600.00	7,630.00	5,048.00	5,048.00	145.58	87.19	10.12	-8,182.26	4,342.31	3,098.04	2,953.77	144.26	21.475		
17,700.00	7,630.00	5,048.00	5,048.00	147.01	87.19	10.12	-8,182.26	4,342.31	3,044.38	2,901.70	142.68	21.337		
17,800.00	7,630.00	5,048.00	5,048.00	148.45	87.19	10.12	-8,182.26	4,342.31	2,993.10	2,852.04	141.06	21.219		
17,900.00	7,630.00	5,048.00	5,048.00	149.91	87.19	10.12	-8,182.26	4,342.31	2,944.32	2,804.92	139.40	21.121		
18,000.00	7,630.00	5,048.00	5,048.00	151.37	87.19	10.12	-8,182.26	4,342.31	2,898.18	2,760.46	137.72	21.044		
18,100.00	7,630.00	5,048.00	5,048.00	152.84	87.19	10.12	-8,182.26	4,342.31	2,854.80	2,718.78	136.02	20.988		
18,200.00	7,630.00	5,048.00	5,048.00	154.32	87.19	10.12	-8,182.26	4,342.31	2,814.30	2,679.99	134.31	20.954		
18,300.00	7,630.00	5,048.00	5,048.00	155.81	87.19	10.12	-8,182.26	4,342.31	2,776.81	2,644.20	132.61	20.940		
18,400.00	7,630.00	5,048.00	5,048.00	157.31	87.19	10.12	-8,182.26	4,342.31	2,742.46	2,611.52	130.93	20.945		
18,500.00	7,630.00	5,048.00	5,048.00	158.81	87.19	10.12	-8,182.26	4,342.31	2,711.36	2,582.05	129.31	20.968		
18,600.00	7,630.00	5,048.00	5,048.00	160.32	87.19	10.12	-8,182.26	4,342.31	2,683.63	2,555.86	127.77	21.004		
18,700.00	7,630.00	5,048.00	5,048.00	161.84	87.19	10.12	-8,182.26	4,342.31	2,659.38	2,533.03	126.35	21.048		
18,800.00	7,630.00	5,048.00	5,048.00	163.37	87.19	10.12	-8,182.26	4,342.31	2,638.69	2,513.60	125.09	21.094		
18,900.00	7,630.00	5,048.00	5,048.00	164.90	87.19	10.12	-8,182.26	4,342.31	2,621.66	2,497.60	124.06	21.132		
19,000.00	7,630.00	5,048.00	5,048.00	166.43	87.19	10.12	-8,182.26	4,342.31	2,608.35	2,485.03	123.33	21.150		
19,100.00	7,630.00	5,048.00	5,048.00	167.98	87.19	10.12	-8,182.26	4,342.31	2,598.83	2,475.88	122.95	21.137		
19,200.00	7,630.00	5,048.00	5,048.00	169.53	87.19	10.12	-8,182.26	4,342.31	2,593.13	2,470.12	123.01	21.081		
19,297.97	7,630.00	5,048.00	5,048.00	171.05	87.19	10.12	-8,182.26	4,342.31	2,591.28	2,467.76	123.52	20.979 CC		
19,300.00	7,630.00	5,048.00	5,048.00	171.08	87.19	10.12	-8,182.26	4,342.31	2,591.28	2,467.74	123.53	20.976 ES		
19,400.00	7,630.00	5,048.00	5,048.00	172.64	87.19	10.12	-8,182.26	4,342.31	2,593.29	2,468.74	124.55	20.821		
19,500.00	7,630.00	5,048.00	5,048.00	174.21	87.19	10.12	-8,182.26	4,342.31	2,599.14	2,473.12	126.02	20.624		
19,518.56	7,630.00	5,048.00	5,048.00	174.50	87.19	10.12	-8,182.26	4,342.31	2,600.65	2,474.31	126.34	20.584 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	142.58	-4,068.91	3,113.58	5,123.52					
100.00	100.00	111.39	111.39	0.13	0.20	142.58	-4,068.87	3,113.25	5,123.32	5,122.99	0.33	N/A		
200.00	200.00	235.15	235.15	0.49	0.41	142.59	-4,068.74	3,112.09	5,122.67	5,121.77	0.91	5,649.356		
300.00	300.00	358.89	358.87	0.85	0.63	142.60	-4,068.52	3,110.11	5,121.56	5,120.08	1.48	3,454.049		
400.00	400.00	482.60	482.55	1.21	0.85	142.63	-4,068.20	3,107.31	5,119.99	5,117.93	2.06	2,487.044		
500.00	499.98	606.18	606.07	1.56	1.07	76.00	-4,067.80	3,103.69	5,117.52	5,114.89	2.63	1,945.769		
600.00	599.84	661.73	661.61	1.92	1.37	76.10	-4,067.54	3,102.71	5,114.64	5,111.35	3.29	1,555.067		
700.00	699.45	732.00	731.88	2.29	1.62	76.23	-4,066.97	3,102.38	5,111.56	5,107.66	3.90	1,312.004		
800.00	798.70	793.25	793.12	2.67	1.82	76.36	-4,066.14	3,103.18	5,108.30	5,103.82	4.48	1,140.250		
900.00	897.47	871.99	871.81	3.07	2.09	76.54	-4,064.57	3,105.45	5,104.72	5,099.57	5.14	992.304		
1,000.00	995.62	1,070.20	1,069.59	3.50	2.78	76.91	-4,055.97	3,114.94	5,099.72	5,093.45	6.26	814.464		
1,100.00	1,093.06	1,135.64	1,134.81	3.96	3.01	77.14	-4,052.05	3,118.68	5,093.14	5,086.19	6.95	732.510		
1,200.00	1,189.64	1,196.68	1,195.59	4.46	3.24	77.38	-4,048.41	3,122.90	5,086.56	5,078.89	7.67	663.284		
1,300.00	1,285.27	1,369.75	1,367.47	5.00	3.89	77.87	-4,035.15	3,138.07	5,079.06	5,070.21	8.86	573.575		
1,400.00	1,379.82	1,483.85	1,480.20	5.60	4.34	78.27	-4,022.96	3,150.73	5,069.77	5,059.88	9.89	512.551		
1,500.00	1,473.17	1,551.00	1,546.30	6.25	4.62	78.60	-4,014.95	3,159.43	5,059.97	5,049.16	10.80	468.317		
1,600.00	1,565.21	1,599.44	1,593.89	6.95	4.82	78.90	-4,009.14	3,166.40	5,050.35	5,038.65	11.71	431.454		
1,700.00	1,655.84	1,645.68	1,639.22	7.72	5.02	79.20	-4,003.77	3,173.77	5,041.22	5,028.56	12.66	398.231		
1,800.00	1,744.94	1,839.96	1,828.97	8.55	5.90	79.94	-3,978.80	3,207.08	5,031.51	5,017.16	14.35	350.658		
1,900.00	1,832.39	1,900.00	2,060.52	9.45	6.19	80.98	-3,944.19	3,242.18	5,018.22	5,002.73	15.49	323.865		
2,000.00	1,918.11	2,128.95	2,111.80	10.41	7.24	81.47	-3,936.66	3,248.70	5,003.84	4,986.34	17.50	285.975		
2,100.00	2,001.97	2,163.00	2,145.27	11.45	7.39	81.89	-3,932.18	3,253.04	4,990.25	4,971.56	18.68	267.107		
2,200.00	2,083.88	2,221.37	2,202.69	12.56	7.65	82.43	-3,925.00	3,260.70	4,977.27	4,957.22	20.05	248.295		
2,300.00	2,163.74	2,283.58	2,263.89	13.74	7.94	83.00	-3,917.71	3,269.18	4,964.84	4,943.34	21.50	230.902		
2,400.00	2,241.45	2,357.19	2,336.21	14.99	8.27	83.65	-3,909.04	3,279.72	4,952.71	4,929.62	23.09	214.534		
2,421.22	2,257.65	2,372.11	2,350.87	15.26	8.34	83.79	-3,907.29	3,281.89	4,950.18	4,926.75	23.43	211.290		
2,500.00	2,317.63	2,427.77	2,405.56	16.29	8.60	84.10	-3,900.86	3,290.02	4,941.04	4,916.33	24.72	199.917		
2,600.00	2,393.75	2,505.54	2,482.01	17.62	8.95	84.55	-3,892.10	3,301.33	4,930.07	4,903.67	26.40	186.766		
2,700.00	2,469.88	2,626.76	2,600.98	18.95	9.52	85.25	-3,877.54	3,319.40	4,919.12	4,890.83	28.29	173.869		
2,800.00	2,546.01	2,686.00	2,659.03	20.30	9.80	85.58	-3,870.23	3,328.71	4,908.83	4,878.90	29.93	164.033		
2,900.00	2,622.13	2,792.51	2,763.28	21.65	10.31	86.18	-3,856.81	3,345.88	4,898.96	4,867.17	31.79	154.119		
3,000.00	2,698.26	2,852.27	2,821.90	23.01	10.59	86.53	-3,849.66	3,355.05	4,889.74	4,856.31	33.44	146.227		
3,100.00	2,774.38	2,928.84	2,897.17	24.37	10.95	86.98	-3,841.17	3,366.25	4,881.37	4,846.21	35.17	138.807		
3,200.00	2,850.51	3,030.08	2,996.63	25.74	11.42	87.57	-3,829.79	3,381.27	4,873.49	4,836.48	37.01	131.683		
3,300.00	2,926.64	3,155.04	3,119.19	27.11	12.01	88.29	-3,814.37	3,400.16	4,865.26	4,826.30	38.97	124.859		
3,400.00	3,002.76	3,210.00	3,173.13	28.49	12.27	88.61	-3,807.74	3,408.36	4,857.78	4,817.17	40.61	119.606		
3,500.00	3,078.89	3,255.73	3,218.02	29.87	12.49	88.88	-3,802.53	3,415.35	4,851.45	4,809.23	42.22	114.900		
3,600.00	3,155.02	3,297.00	3,258.51	31.25	12.68	89.12	-3,798.05	3,421.99	4,846.38	4,802.57	43.81	110.622		
3,700.00	3,231.14	3,341.85	3,302.50	32.63	12.90	89.38	-3,793.50	3,429.48	4,842.60	4,797.18	45.41	106.636		
3,800.00	3,307.27	3,385.00	3,344.82	34.01	13.10	89.63	-3,789.52	3,436.87	4,840.12	4,793.12	47.00	102.974		
3,900.00	3,383.39	3,440.11	3,398.90	35.40	13.36	89.95	-3,784.85	3,446.43	4,838.83	4,790.19	48.65	99.470		
4,000.00	3,459.52	3,511.62	3,469.09	36.79	13.69	90.36	-3,779.23	3,458.85	4,838.52	4,788.16	50.36	96.072		
4,047.66	3,495.80	3,812.48	3,765.26	37.45	15.07	92.18	-3,749.91	3,502.35	4,836.76	4,784.41	52.35	92.390		
4,100.00	3,535.65	3,843.08	3,795.45	38.18	15.21	92.37	-3,746.46	3,506.01	4,834.61	4,781.40	53.21	90.854		
4,200.00	3,611.77	3,894.49	3,846.19	39.57	15.43	92.69	-3,740.98	3,512.17	4,831.38	4,776.55	54.83	88.122		
4,300.00	3,687.90	3,975.59	3,926.27	40.96	15.79	93.19	-3,732.71	3,521.97	4,829.12	4,772.56	56.56	85.387		
4,400.00	3,764.02	4,068.97	4,018.40	42.35	16.21	93.77	-3,722.91	3,533.64	4,827.32	4,768.99	58.33	82.757		
4,500.00	3,840.15	4,118.66	4,067.39	43.74	16.44	94.08	-3,717.67	3,540.14	4,826.27	4,766.34	59.93	80.535		
4,530.07	3,863.04	4,131.34	4,079.88	44.16	16.49	94.16	-3,716.39	3,541.89	4,826.21	4,765.81	60.40	79.908		
4,600.00	3,916.28	4,170.00	4,117.94	45.13	16.67	94.39	-3,712.60	3,547.48	4,826.55	4,765.03	61.52	78.449		
4,700.00	3,992.40	4,286.10	4,231.94	46.53	17.22	95.07	-3,700.25	3,565.69	4,827.15	4,763.74	63.41	76.123		
4,800.00	4,068.53	4,345.00	4,289.90	47.92	17.49	95.43	-3,694.37	3,574.27	4,828.49	4,763.45	65.04	74.243		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,144.66	4,389.47	4,333.80	49.32	17.69	95.70	-3,690.44	3,580.19	4,830.96	4,764.39	66.58	72.564		
5,000.00	4,220.78	4,444.34	4,388.07	50.71	17.92	96.05	-3,686.08	3,587.03	4,834.57	4,766.43	68.14	70.947		
5,100.00	4,296.91	4,503.81	4,447.07	52.11	18.17	96.43	-3,682.02	3,593.34	4,839.24	4,769.53	69.71	69.423		
5,200.00	4,373.03	4,580.44	4,523.31	53.51	18.46	96.95	-3,677.64	3,599.55	4,844.84	4,773.53	71.31	67.942		
5,300.00	4,449.16	4,653.69	4,596.35	54.90	18.73	97.46	-3,673.97	3,603.77	4,851.18	4,778.31	72.87	66.574		
5,400.00	4,525.29	4,723.67	4,666.21	56.30	18.97	97.96	-3,670.95	3,606.59	4,858.42	4,784.03	74.39	65.307		
5,500.00	4,601.41	4,791.61	4,734.07	57.70	19.20	98.46	-3,668.37	3,608.34	4,866.55	4,790.67	75.89	64.129		
5,600.00	4,677.54	4,841.71	4,784.14	59.10	19.36	98.83	-3,666.86	3,608.93	4,875.80	4,798.51	77.30	63.080		
5,700.00	4,753.66	4,899.47	4,841.89	60.49	19.53	99.26	-3,665.63	3,608.77	4,886.27	4,807.56	78.70	62.084		
5,800.00	4,829.79	4,971.99	4,914.39	61.89	19.74	99.82	-3,664.51	3,607.29	4,897.74	4,817.61	80.13	61.122		
5,900.00	4,905.92	5,064.48	5,006.82	63.29	19.99	100.54	-3,663.07	3,604.30	4,909.89	4,828.30	81.59	60.177		
6,000.00	4,982.04	5,138.05	5,080.32	64.69	20.20	101.12	-3,661.92	3,601.45	4,922.83	4,839.86	82.98	59.327		
6,100.00	5,058.17	5,224.72	5,166.90	66.09	20.44	101.79	-3,660.52	3,597.75	4,936.56	4,852.18	84.39	58.500		
6,200.00	5,134.30	5,311.08	5,253.16	67.49	20.67	102.47	-3,658.93	3,593.82	4,950.99	4,865.21	85.78	57.720		
6,300.00	5,210.42	5,356.31	5,298.34	68.89	20.80	102.82	-3,658.17	3,591.97	4,966.42	4,879.38	87.04	57.060		
6,400.00	5,286.55	5,404.92	5,346.93	70.29	20.94	103.19	-3,657.54	3,590.45	4,983.10	4,894.81	88.29	56.439		
6,500.00	5,362.67	5,454.21	5,396.20	71.69	21.08	103.56	-3,657.09	3,589.39	5,000.99	4,911.46	89.53	55.859		
6,600.00	5,438.80	5,513.67	5,455.66	73.09	21.26	104.00	-3,656.78	3,588.66	5,020.02	4,929.24	90.79	55.295		
6,700.00	5,514.93	5,583.57	5,525.55	74.49	21.46	104.52	-3,656.51	3,587.96	5,039.96	4,947.90	92.07	54.742		
6,800.00	5,591.05	5,653.55	5,595.52	75.89	21.67	105.03	-3,656.32	3,587.33	5,060.76	4,967.42	93.33	54.223		
6,900.00	5,667.18	5,728.81	5,670.78	77.29	21.89	105.58	-3,656.15	3,586.63	5,082.35	4,987.75	94.60	53.724		
7,000.00	5,743.30	5,803.98	5,745.96	78.69	22.12	106.13	-3,656.00	3,585.83	5,104.70	5,008.85	95.85	53.255		
7,100.00	5,819.43	5,883.12	5,825.09	80.09	22.35	106.71	-3,655.83	3,584.84	5,127.78	5,030.67	97.10	52.808		
7,200.00	5,895.56	5,964.11	5,906.07	81.49	22.59	107.29	-3,655.58	3,583.65	5,151.51	5,053.17	98.34	52.383		
7,300.00	5,971.68	6,044.67	5,986.62	82.90	22.83	107.88	-3,655.24	3,582.28	5,175.89	5,076.33	99.57	51.985		
7,400.00	6,047.81	6,124.81	6,066.73	84.30	23.08	108.45	-3,654.83	3,580.74	5,200.92	5,100.15	100.77	51.612		
7,500.00	6,123.94	6,201.22	6,143.13	85.70	23.31	109.00	-3,654.37	3,579.11	5,226.60	5,124.66	101.94	51.271		
7,600.00	6,200.06	6,270.54	6,212.43	87.10	23.51	109.50	-3,654.00	3,577.54	5,253.04	5,149.97	103.07	50.966		
7,700.00	6,276.19	6,339.70	6,281.57	88.50	23.72	109.99	-3,653.70	3,575.92	5,280.25	5,176.07	104.18	50.684		
7,800.00	6,352.31	6,426.31	6,368.16	89.90	23.99	110.60	-3,653.30	3,573.91	5,308.14	5,202.79	105.35	50.388		
7,900.00	6,428.44	6,517.64	6,459.46	91.31	24.27	111.24	-3,652.63	3,572.03	5,336.48	5,229.97	106.52	50.100		
8,000.00	6,504.57	6,597.82	6,539.63	92.71	24.52	111.79	-3,651.88	3,570.62	5,365.33	5,257.70	107.63	49.848		
8,100.00	6,580.69	6,676.93	6,618.73	94.11	24.77	112.33	-3,651.10	3,569.47	5,394.77	5,286.04	108.73	49.614		
8,200.00	6,656.82	6,759.31	6,701.09	95.51	25.03	112.89	-3,650.26	3,568.60	5,424.78	5,314.94	109.84	49.388		
8,300.00	6,732.95	6,843.90	6,785.68	96.91	25.30	113.45	-3,649.31	3,568.30	5,455.28	5,344.33	110.95	49.170		
8,400.00	6,809.07	6,918.38	6,860.15	98.32	25.55	113.94	-3,648.45	3,568.47	5,486.30	5,374.30	112.00	48.983		
8,500.00	6,885.20	6,986.00	6,927.77	99.72	25.77	114.37	-3,647.78	3,568.71	5,518.00	5,404.99	113.02	48.824		
8,600.00	6,961.32	7,053.62	6,995.39	101.12	25.99	114.81	-3,647.22	3,569.00	5,550.39	5,436.38	114.02	48.680		
8,700.00	7,037.45	7,121.26	7,063.03	102.52	26.21	115.24	-3,646.77	3,569.29	5,583.46	5,468.45	115.00	48.550		
8,732.15	7,061.92	7,142.99	7,084.76	102.97	26.28	115.38	-3,646.65	3,569.39	5,594.23	5,478.91	115.32	48.511		
8,750.00	7,075.57	7,155.10	7,096.86	103.22	26.32	113.36	-3,646.59	3,569.44	5,599.98	5,484.49	115.49	48.488		
8,800.00	7,114.27	7,189.42	7,131.18	103.91	26.43	107.45	-3,646.43	3,569.58	5,613.39	5,497.40	115.99	48.394		
8,850.00	7,153.47	7,224.14	7,165.90	104.58	26.55	101.29	-3,646.30	3,569.72	5,622.77	5,506.27	116.50	48.263		
8,900.00	7,192.85	7,271.98	7,213.74	105.21	26.70	95.13	-3,646.09	3,569.86	5,628.02	5,510.94	117.08	48.071		
8,950.00	7,232.12	7,320.19	7,261.95	105.80	26.86	89.11	-3,645.79	3,569.86	5,629.06	5,511.41	117.65	47.846		
9,000.00	7,270.99	7,367.62	7,309.39	106.35	27.01	83.41	-3,645.39	3,569.75	5,625.89	5,507.68	118.21	47.593		
9,050.00	7,309.16	7,414.30	7,356.06	106.85	27.17	78.19	-3,644.90	3,569.51	5,618.54	5,499.79	118.75	47.314		
9,100.00	7,346.32	7,460.39	7,402.15	107.30	27.32	73.57	-3,644.32	3,569.13	5,607.08	5,487.81	119.27	47.011		
9,150.00	7,382.22	7,504.49	7,446.24	107.69	27.46	69.59	-3,643.67	3,568.64	5,591.59	5,471.83	119.76	46.690		
9,200.00	7,416.56	7,546.28	7,488.01	108.02	27.60	66.27	-3,642.96	3,568.05	5,572.21	5,451.99	120.21	46.353		
9,250.00	7,449.09	7,585.44	7,527.16	108.29	27.73	63.59	-3,642.21	3,567.39	5,549.07	5,428.44	120.63	46.001		
9,300.00	7,479.56	7,604.39	7,546.11	108.51	27.79	61.40	-3,641.88	3,567.13	5,522.41	5,401.47	120.93	45.665		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,507.74	7,625.71	7,567.42	108.68	27.86	59.86	-3,641.54	3,566.90	5,492.42	5,371.20	121.22	45.309		
9,400.00	7,533.41	7,645.26	7,586.98	108.79	27.92	58.94	-3,641.27	3,566.75	5,459.32	5,337.85	121.47	44.942		
9,450.00	7,556.39	7,662.88	7,604.59	108.86	27.98	58.69	-3,641.05	3,566.68	5,423.32	5,301.63	121.69	44.566		
9,500.00	7,576.48	7,678.38	7,620.08	108.88	28.03	59.16	-3,640.88	3,566.65	5,384.67	5,262.79	121.88	44.181		
9,550.00	7,593.55	7,691.60	7,633.31	108.86	28.07	60.49	-3,640.75	3,566.66	5,343.64	5,221.61	122.03	43.790		
9,600.00	7,607.46	7,702.41	7,644.12	108.80	28.11	62.93	-3,640.66	3,566.69	5,300.50	5,178.35	122.15	43.393		
9,650.00	7,618.11	7,710.68	7,652.38	108.71	28.14	66.90	-3,640.59	3,566.73	5,255.56	5,133.31	122.24	42.992		
9,700.00	7,625.41	7,716.30	7,658.01	108.59	28.16	73.13	-3,640.55	3,566.76	5,209.13	5,086.82	122.31	42.589		
9,750.00	7,629.30	7,719.19	7,660.90	108.45	28.16	82.94	-3,640.53	3,566.78	5,161.54	5,039.19	122.36	42.185		
9,781.81	7,630.00	7,719.59	7,661.29	108.35	28.17	91.90	-3,640.53	3,566.78	5,130.83	5,008.45	122.37	41.927		
9,800.00	7,630.00	7,719.49	7,661.20	108.29	28.17	91.89	-3,640.53	3,566.78	5,113.18	4,990.80	122.38	41.781		
9,900.00	7,630.00	7,718.94	7,660.65	107.97	28.16	91.87	-3,640.53	3,566.77	5,016.26	4,893.83	122.43	40.974		
10,000.00	7,630.00	7,718.39	7,660.09	107.67	28.16	91.84	-3,640.54	3,566.77	4,919.46	4,796.99	122.47	40.168		
10,100.00	7,630.00	7,717.82	7,659.53	107.38	28.16	91.82	-3,640.54	3,566.77	4,822.79	4,700.27	122.52	39.364		
10,200.00	7,630.00	7,717.25	7,658.96	107.10	28.16	91.79	-3,640.55	3,566.76	4,726.26	4,603.69	122.57	38.561		
10,300.00	7,630.00	7,716.67	7,658.38	106.84	28.16	91.76	-3,640.55	3,566.76	4,629.87	4,507.26	122.62	37.759		
10,400.00	7,630.00	7,716.08	7,657.79	106.59	28.15	91.74	-3,640.55	3,566.76	4,533.65	4,410.98	122.67	36.959		
10,500.00	7,630.00	7,715.48	7,657.19	106.35	28.15	91.71	-3,640.56	3,566.75	4,437.59	4,314.86	122.72	36.160		
10,600.00	7,630.00	7,714.87	7,656.58	106.13	28.15	91.68	-3,640.56	3,566.75	4,341.70	4,218.93	122.78	35.363		
10,700.00	7,630.00	7,714.26	7,655.97	105.92	28.15	91.65	-3,640.57	3,566.75	4,246.01	4,123.18	122.83	34.568		
10,800.00	7,630.00	7,713.63	7,655.34	105.72	28.15	91.62	-3,640.57	3,566.74	4,150.52	4,027.63	122.89	33.774		
10,900.00	7,630.00	7,713.00	7,654.70	105.54	28.14	91.60	-3,640.58	3,566.74	4,055.25	3,932.30	122.95	32.983		
11,000.00	7,630.00	7,712.35	7,654.06	105.37	28.14	91.57	-3,640.58	3,566.74	3,960.21	3,837.20	123.01	32.194		
11,100.00	7,630.00	7,711.69	7,653.40	105.21	28.14	91.54	-3,640.59	3,566.73	3,865.42	3,742.35	123.07	31.408		
11,200.00	7,630.00	7,711.03	7,652.74	105.06	28.14	91.50	-3,640.59	3,566.73	3,770.90	3,647.76	123.14	30.624		
11,300.00	7,630.00	7,710.35	7,652.06	104.93	28.14	91.47	-3,640.60	3,566.72	3,676.67	3,553.47	123.20	29.843		
11,400.00	7,630.00	7,709.66	7,651.37	104.82	28.13	91.44	-3,640.60	3,566.72	3,582.75	3,459.48	123.27	29.065		
11,500.00	7,630.00	7,708.96	7,650.67	104.72	28.13	91.41	-3,640.61	3,566.72	3,489.17	3,365.84	123.33	28.291		
11,600.00	7,630.00	7,708.25	7,649.96	104.63	28.13	91.38	-3,640.61	3,566.71	3,395.95	3,272.55	123.40	27.520		
11,700.00	7,630.00	7,707.53	7,649.24	104.55	28.13	91.34	-3,640.62	3,566.71	3,303.14	3,179.67	123.47	26.753		
11,800.00	7,630.00	7,706.80	7,648.50	104.50	28.12	91.31	-3,640.62	3,566.71	3,210.75	3,087.21	123.54	25.990		
11,900.00	7,630.00	7,706.05	7,647.76	104.45	28.12	91.28	-3,640.63	3,566.70	3,118.83	2,995.23	123.60	25.232		
12,000.00	7,630.00	7,705.29	7,647.00	104.43	28.12	91.24	-3,640.63	3,566.70	3,027.43	2,903.76	123.67	24.480		
12,100.00	7,630.00	7,704.52	7,646.22	104.42	28.12	91.21	-3,640.64	3,566.70	2,936.58	2,812.85	123.74	23.733		
12,200.00	7,630.00	7,703.73	7,645.44	104.42	28.11	91.17	-3,640.65	3,566.70	2,846.35	2,722.55	123.80	22.992		
12,300.00	7,630.00	7,702.93	7,644.64	104.45	28.11	91.13	-3,640.65	3,566.69	2,756.80	2,632.94	123.86	22.258		
12,400.00	7,630.00	7,702.12	7,643.82	104.49	28.11	91.10	-3,640.66	3,566.69	2,667.98	2,544.07	123.91	21.531		
12,500.00	7,630.00	7,701.29	7,643.00	104.55	28.11	91.06	-3,640.67	3,566.69	2,579.98	2,456.02	123.96	20.813		
12,600.00	7,630.00	7,700.45	7,642.15	104.63	28.10	91.02	-3,640.67	3,566.68	2,492.89	2,368.89	124.00	20.103		
12,700.00	7,630.00	7,699.59	7,641.30	104.73	28.10	90.98	-3,640.68	3,566.68	2,406.80	2,282.77	124.03	19.404		
12,800.00	7,630.00	7,698.71	7,640.42	104.85	28.10	90.94	-3,640.69	3,566.68	2,321.83	2,197.78	124.05	18.717		
12,900.00	7,630.00	7,697.82	7,639.53	104.99	28.09	90.90	-3,640.70	3,566.68	2,238.10	2,114.05	124.05	18.041		
13,000.00	7,630.00	7,696.92	7,638.62	105.15	28.09	90.86	-3,640.70	3,566.67	2,155.75	2,031.72	124.04	17.380		
13,100.00	7,630.00	7,695.99	7,637.70	105.34	28.09	90.81	-3,640.71	3,566.67	2,074.96	1,950.97	123.99	16.735		
13,200.00	7,630.00	7,695.05	7,636.76	105.56	28.09	90.77	-3,640.72	3,566.67	1,995.91	1,871.99	123.92	16.107		
13,300.00	7,630.00	7,694.09	7,635.80	105.80	28.08	90.73	-3,640.73	3,566.67	1,918.81	1,795.00	123.81	15.498		
13,400.00	7,630.00	7,693.12	7,634.82	106.06	28.08	90.68	-3,640.74	3,566.66	1,843.91	1,720.27	123.65	14.912		
13,500.00	7,630.00	7,692.12	7,633.83	106.36	28.08	90.64	-3,640.75	3,566.66	1,771.50	1,648.06	123.44	14.352		
13,600.00	7,630.00	7,691.10	7,632.81	106.68	28.07	90.59	-3,640.76	3,566.66	1,701.88	1,578.72	123.16	13.819		
13,700.00	7,630.00	7,690.07	7,631.77	107.03	28.07	90.54	-3,640.77	3,566.66	1,635.41	1,512.61	122.80	13.318		
13,800.00	7,630.00	7,689.01	7,630.72	107.42	28.07	90.49	-3,640.78	3,566.66	1,572.49	1,450.14	122.35	12.852		
13,900.00	7,630.00	7,687.93	7,629.64	107.83	28.06	90.44	-3,640.79	3,566.66	1,513.57	1,391.78	121.80	12.427		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,000.00	7,630.00	7,686.83	7,628.54	108.28	28.06	90.39	-3,640.80	3,566.65	1,459.14	1,338.01	121.13	12.047		
14,100.00	7,630.00	7,685.71	7,627.41	108.77	28.05	90.34	-3,640.81	3,566.65	1,409.70	1,289.37	120.33	11.716		
14,200.00	7,630.00	7,684.56	7,626.27	109.29	28.05	90.29	-3,640.82	3,566.65	1,365.80	1,246.41	119.39	11.440		
14,300.00	7,630.00	7,683.39	7,625.10	109.84	28.05	90.23	-3,640.83	3,566.65	1,328.00	1,209.67	118.32	11.223		
14,400.00	7,630.00	7,682.19	7,623.90	110.43	28.04	90.18	-3,640.84	3,566.65	1,296.82	1,179.68	117.13	11.071		
14,500.00	7,630.00	7,680.97	7,622.68	111.06	28.04	90.12	-3,640.85	3,566.65	1,272.75	1,156.91	115.84	10.987		
14,600.00	7,630.00	7,679.72	7,621.43	111.72	28.04	90.07	-3,640.87	3,566.65	1,256.21	1,141.72	114.49	10.972 SF		
14,700.00	7,630.00	7,678.44	7,620.15	112.42	28.03	90.01	-3,640.88	3,566.65	1,247.48	1,134.37	113.11	11.029		
14,759.24	7,630.00	7,677.68	7,619.38	112.86	28.03	89.97	-3,640.89	3,566.65	1,246.08	1,133.76	112.31	11.095 CC, ES		
14,800.00	7,630.00	7,677.14	7,618.85	113.16	28.03	89.95	-3,640.89	3,566.65	1,246.74	1,134.97	111.77	11.154		
14,900.00	7,630.00	7,675.81	7,617.52	113.94	28.02	89.89	-3,640.91	3,566.65	1,254.00	1,143.48	110.52	11.346		
15,000.00	7,630.00	7,674.44	7,616.15	114.75	28.02	89.82	-3,640.92	3,566.65	1,269.12	1,159.71	109.41	11.600		
15,100.00	7,630.00	7,673.05	7,614.75	115.60	28.01	89.76	-3,640.94	3,566.66	1,291.82	1,183.36	108.46	11.910		
15,200.00	7,630.00	7,671.62	7,613.33	116.48	28.01	89.69	-3,640.95	3,566.66	1,321.72	1,214.00	107.72	12.270		
15,300.00	7,630.00	7,670.15	7,611.86	117.40	28.00	89.63	-3,640.97	3,566.66	1,358.34	1,251.16	107.17	12.674		
15,400.00	7,630.00	7,668.66	7,610.37	118.35	28.00	89.56	-3,640.98	3,566.66	1,401.15	1,294.33	106.82	13.117		
15,500.00	7,630.00	7,667.12	7,608.83	119.34	27.99	89.49	-3,641.00	3,566.67	1,449.60	1,342.96	106.64	13.594		
15,600.00	7,630.00	7,665.55	7,607.26	120.35	27.99	89.41	-3,641.02	3,566.67	1,503.16	1,396.55	106.60	14.100		
15,700.00	7,630.00	7,663.94	7,605.65	121.40	27.98	89.34	-3,641.04	3,566.67	1,561.28	1,454.59	106.69	14.634		
15,800.00	7,630.00	7,662.29	7,604.00	122.48	27.98	89.26	-3,641.06	3,566.68	1,623.49	1,516.62	106.87	15.191		
15,900.00	7,630.00	7,660.60	7,602.31	123.58	27.97	89.19	-3,641.08	3,566.68	1,689.33	1,582.21	107.12	15.770		
16,000.00	7,630.00	7,658.86	7,600.57	124.71	27.97	89.11	-3,641.10	3,566.69	1,758.39	1,650.97	107.43	16.368		
16,100.00	7,630.00	7,657.08	7,598.79	125.87	27.96	89.02	-3,641.12	3,566.70	1,830.32	1,722.55	107.76	16.985		
16,200.00	7,630.00	7,655.26	7,596.97	127.05	27.96	88.94	-3,641.14	3,566.70	1,904.77	1,796.65	108.12	17.617		
16,300.00	7,630.00	7,653.38	7,595.09	128.26	27.95	88.85	-3,641.16	3,566.71	1,981.48	1,872.99	108.49	18.265		
16,400.00	7,630.00	7,651.45	7,593.16	129.48	27.94	88.77	-3,641.19	3,566.72	2,060.18	1,951.33	108.86	18.926		
16,500.00	7,630.00	7,649.47	7,591.18	130.73	27.94	88.67	-3,641.21	3,566.73	2,140.66	2,031.44	109.22	19.599		
16,600.00	7,630.00	7,647.43	7,589.14	132.00	27.93	88.58	-3,641.24	3,566.74	2,222.73	2,113.14	109.59	20.283		
16,700.00	7,630.00	7,645.34	7,587.05	133.29	27.92	88.49	-3,641.27	3,566.75	2,306.21	2,196.27	109.94	20.977		
16,800.00	7,630.00	7,643.18	7,584.90	134.59	27.92	88.39	-3,641.30	3,566.77	2,390.96	2,280.68	110.28	21.681		
16,900.00	7,630.00	7,640.97	7,582.68	135.91	27.91	88.28	-3,641.33	3,566.78	2,476.84	2,366.24	110.61	22.393		
17,000.00	7,630.00	7,638.68	7,580.40	137.25	27.90	88.18	-3,641.36	3,566.80	2,563.75	2,452.83	110.92	23.113		
17,100.00	7,630.00	7,636.33	7,578.05	138.61	27.89	88.07	-3,641.39	3,566.81	2,651.58	2,540.35	111.22	23.840		
17,200.00	7,630.00	7,633.91	7,575.62	139.97	27.89	87.96	-3,641.43	3,566.83	2,740.24	2,628.73	111.51	24.574		
17,300.00	7,630.00	7,631.41	7,573.13	141.36	27.88	87.85	-3,641.46	3,566.85	2,829.66	2,717.87	111.79	25.313		
17,400.00	7,630.00	7,628.84	7,570.55	142.75	27.87	87.73	-3,641.50	3,566.87	2,919.76	2,807.71	112.05	26.058		
17,500.00	7,630.00	7,626.18	7,567.90	144.16	27.86	87.61	-3,641.54	3,566.90	3,010.48	2,898.18	112.30	26.807		
17,600.00	7,630.00	7,623.44	7,565.15	145.58	27.85	87.48	-3,641.58	3,566.92	3,101.78	2,989.24	112.54	27.561		
17,700.00	7,630.00	7,620.60	7,562.32	147.01	27.84	87.35	-3,641.62	3,566.95	3,193.59	3,080.82	112.77	28.320		
17,800.00	7,630.00	7,617.67	7,559.39	148.45	27.83	87.21	-3,641.67	3,566.98	3,285.88	3,172.90	112.99	29.082		
17,900.00	7,630.00	7,614.64	7,556.36	149.91	27.82	87.08	-3,641.72	3,567.01	3,378.61	3,265.42	113.20	29.847		
18,000.00	7,630.00	7,611.51	7,553.23	151.37	27.81	86.93	-3,641.77	3,567.05	3,471.74	3,358.35	113.40	30.616		
18,100.00	7,630.00	7,608.27	7,549.98	152.84	27.80	86.78	-3,641.82	3,567.08	3,565.25	3,451.66	113.59	31.388		
18,200.00	7,630.00	7,604.90	7,546.62	154.32	27.79	86.63	-3,641.88	3,567.12	3,659.09	3,545.32	113.77	32.162		
18,300.00	7,630.00	7,601.42	7,543.14	155.81	27.78	86.47	-3,641.93	3,567.17	3,753.25	3,639.31	113.94	32.939		
18,400.00	7,630.00	7,597.81	7,539.53	157.31	27.77	86.30	-3,642.00	3,567.22	3,847.70	3,733.59	114.11	33.719		
18,500.00	7,630.00	7,594.06	7,535.78	158.81	27.75	86.13	-3,642.06	3,567.27	3,942.43	3,828.16	114.27	34.500		
18,600.00	7,630.00	7,590.16	7,531.88	160.32	27.74	85.95	-3,642.13	3,567.33	4,037.41	3,922.98	114.43	35.284		
18,700.00	7,630.00	7,586.11	7,527.83	161.84	27.73	85.77	-3,642.21	3,567.39	4,132.62	4,018.05	114.57	36.069		
18,800.00	7,630.00	7,581.90	7,523.62	163.37	27.71	85.57	-3,642.29	3,567.46	4,228.05	4,113.34	114.72	36.856		
18,900.00	7,630.00	7,577.51	7,519.24	164.90	27.70	85.37	-3,642.37	3,567.53	4,323.69	4,208.84	114.85	37.645		
19,000.00	7,630.00	7,575.00	7,516.73	166.43	27.69	85.26	-3,642.42	3,567.57	4,419.52	4,304.53	114.99	38.434		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	
19,100.00	7,630.00	7,575.00	7,516.73	167.98	27.69	85.26	-3,642.42	3,567.57	4,515.53	4,400.40	115.13	39.223	
19,200.00	7,630.00	7,575.00	7,516.73	169.53	27.69	85.26	-3,642.42	3,567.57	4,611.71	4,496.45	115.26	40.013	
19,300.00	7,630.00	7,575.00	7,516.73	171.08	27.69	85.26	-3,642.42	3,567.57	4,708.05	4,592.66	115.38	40.804	
19,400.00	7,630.00	7,575.00	7,516.73	172.64	27.69	85.26	-3,642.42	3,567.57	4,804.53	4,689.03	115.51	41.596	
19,500.00	7,630.00	7,566.99	7,508.72	174.21	27.67	84.89	-3,642.57	3,567.71	4,901.15	4,785.54	115.61	42.393	
19,518.56	7,630.00	7,566.73	7,508.46	174.50	27.67	84.88	-3,642.58	3,567.72	4,919.10	4,803.47	115.63	42.541	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	33.18	33.18	0.00	0.05	163.69	-7,121.70	2,084.19	7,420.41					
100.00	100.00	153.41	153.40	0.13	0.39	163.68	-7,121.13	2,084.89	7,420.12	7,419.60	0.52	N/A		
200.00	200.00	232.71	232.70	0.49	0.66	163.69	-7,121.08	2,084.26	7,419.84	7,418.68	1.16	6,414.483		
232.99	232.99	257.00	256.99	0.61	0.75	163.69	-7,121.14	2,083.99	7,419.81	7,418.45	1.36	5,456.023		
300.00	300.00	292.81	292.80	0.85	0.88	163.69	-7,121.36	2,083.51	7,419.95	7,418.23	1.73	4,296.929		
400.00	400.00	349.00	348.97	1.21	1.07	163.70	-7,122.08	2,082.54	7,420.69	7,418.41	2.28	3,249.172		
500.00	499.98	411.65	411.59	1.56	1.30	96.97	-7,123.35	2,081.12	7,422.19	7,419.33	2.86	2,593.865		
600.00	599.84	480.74	480.62	1.92	1.55	96.97	-7,125.23	2,078.93	7,424.56	7,421.10	3.47	2,142.529		
700.00	699.45	564.51	564.21	2.29	1.85	97.00	-7,128.42	2,074.29	7,427.73	7,423.60	4.14	1,795.452		
800.00	798.70	940.38	936.04	2.67	3.37	97.71	-7,142.05	2,023.81	7,427.79	7,421.75	6.03	1,231.028		
900.00	897.47	986.00	980.65	3.07	3.58	97.82	-7,144.17	2,014.49	7,428.82	7,422.18	6.64	1,118.329		
1,000.00	995.62	1,055.13	1,047.98	3.50	3.91	98.00	-7,147.88	1,999.25	7,430.85	7,423.45	7.40	1,003.666		
1,100.00	1,093.06	1,096.00	1,087.60	3.96	4.11	98.08	-7,150.49	1,989.56	7,434.10	7,426.03	8.07	921.497		
1,200.00	1,189.64	1,096.00	1,087.60	4.46	4.11	97.98	-7,150.49	1,989.56	7,438.92	7,430.36	8.57	868.432		
1,300.00	1,285.27	1,142.44	1,132.53	5.00	4.35	98.04	-7,154.08	1,978.36	7,445.05	7,435.70	9.35	796.550		
1,400.00	1,379.82	1,183.00	1,171.73	5.60	4.56	98.06	-7,157.82	1,968.69	7,452.93	7,442.79	10.14	734.742		
1,500.00	1,473.17	1,183.00	1,171.73	6.25	4.56	97.88	-7,157.82	1,968.69	7,462.24	7,451.46	10.78	692.211		
1,600.00	1,565.21	1,228.70	1,215.78	6.95	4.81	97.88	-7,162.59	1,957.48	7,473.05	7,461.33	11.72	637.615		
1,700.00	1,655.84	1,271.00	1,256.32	7.72	5.04	97.85	-7,167.45	1,946.43	7,485.31	7,472.61	12.70	589.471		
1,800.00	1,744.94	1,295.05	1,279.30	8.55	5.18	97.70	-7,170.38	1,939.98	7,499.00	7,485.36	13.64	549.746		
1,900.00	1,832.39	1,324.30	1,307.24	9.45	5.35	97.56	-7,174.08	1,932.15	7,514.19	7,499.52	14.67	512.096		
2,000.00	1,918.11	1,358.00	1,339.41	10.41	5.55	97.42	-7,178.54	1,923.15	7,530.88	7,515.09	15.79	476.849		
2,100.00	2,001.97	1,454.22	1,431.25	11.45	6.11	97.62	-7,191.27	1,897.44	7,548.80	7,531.45	17.35	435.165		
2,200.00	2,083.88	1,489.66	1,465.06	12.56	6.33	97.45	-7,195.95	1,887.92	7,567.84	7,549.23	18.61	406.677		
2,300.00	2,163.74	1,532.00	1,505.42	13.74	6.58	97.30	-7,201.65	1,876.45	7,588.28	7,568.31	19.97	379.910		
2,400.00	2,241.45	1,556.39	1,528.64	14.99	6.73	97.01	-7,205.02	1,869.79	7,610.15	7,588.86	21.30	357.357		
2,421.22	2,257.65	1,561.82	1,533.81	15.26	6.77	96.95	-7,205.78	1,868.29	7,614.99	7,593.40	21.58	352.793		
2,500.00	2,317.63	1,581.75	1,552.75	16.29	6.89	97.08	-7,208.61	1,862.79	7,633.38	7,610.72	22.67	336.782		
2,600.00	2,393.75	1,620.00	1,589.04	17.62	7.13	97.33	-7,214.23	1,852.10	7,657.71	7,633.59	24.12	317.454		
2,700.00	2,469.88	1,633.78	1,602.10	18.95	7.21	97.42	-7,216.30	1,848.22	7,683.05	7,657.62	25.43	302.133		
2,800.00	2,546.01	1,663.58	1,630.35	20.30	7.40	97.61	-7,220.84	1,839.87	7,709.42	7,682.59	26.84	287.285		
2,900.00	2,622.13	1,693.41	1,658.62	21.65	7.59	97.81	-7,225.47	1,831.56	7,736.80	7,708.57	28.24	273.987		
3,000.00	2,698.26	1,739.11	1,701.95	23.01	7.88	98.10	-7,232.65	1,818.92	7,765.15	7,735.41	29.73	261.149		
3,100.00	2,774.38	2,257.24	2,197.24	24.37	11.08	101.40	-7,297.28	1,681.71	7,791.86	7,757.74	34.12	228.374		
3,200.00	2,850.51	2,279.76	2,218.89	25.74	11.21	101.54	-7,299.50	1,675.92	7,818.74	7,783.28	35.46	220.509		
3,300.00	2,926.64	2,318.00	2,255.58	27.11	11.44	101.77	-7,303.48	1,665.92	7,846.69	7,809.81	36.88	212.752		
3,400.00	3,002.76	2,330.80	2,267.85	28.49	11.52	101.85	-7,304.87	1,662.54	7,875.57	7,837.42	38.15	206.460		
3,500.00	3,078.89	3,500.00	2,381.09	29.87	18.56	102.59	-7,317.31	1,631.93	7,905.29	7,859.17	46.13	171.386		
3,600.00	3,155.02	2,645.57	2,570.81	31.25	13.40	103.79	-7,335.06	1,582.70	7,934.73	7,892.37	42.35	187.351		
3,700.00	3,231.14	2,667.00	2,591.45	32.63	13.52	103.93	-7,336.80	1,577.21	7,964.63	7,921.00	43.64	182.515		
3,800.00	3,307.27	2,706.00	2,628.99	34.01	13.75	104.16	-7,340.10	1,567.18	7,995.42	7,950.40	45.02	177.604		
3,900.00	3,383.39	2,726.79	2,649.00	35.40	13.88	104.29	-7,341.99	1,561.86	8,027.24	7,980.96	46.28	173.450		
4,000.00	3,459.52	2,755.00	2,676.15	36.79	14.05	104.46	-7,344.69	1,554.68	8,060.04	8,012.47	47.57	169.424		
4,100.00	3,535.65	4,100.00	2,739.58	38.18	21.96	104.86	-7,350.97	1,538.38	8,093.55	8,037.28	56.27	143.841		
4,200.00	3,611.77	2,980.91	2,894.57	39.57	15.34	105.81	-7,365.23	1,500.86	8,127.30	8,076.22	51.08	159.105		
4,300.00	3,687.90	4,300.00	3,000.45	40.96	22.75	106.46	-7,373.83	1,475.50	8,161.11	8,101.78	59.34	137.541		
4,400.00	3,764.02	3,140.68	3,049.40	42.35	16.24	106.75	-7,377.66	1,463.42	8,195.53	8,141.38	54.16	151.329		
4,500.00	3,840.15	3,168.76	3,076.53	43.74	16.41	106.92	-7,379.87	1,456.51	8,230.83	8,175.44	55.39	148.599		
4,600.00	3,916.28	3,191.00	3,097.98	45.13	16.53	107.05	-7,381.69	1,450.94	8,266.99	8,210.41	56.58	146.124		
4,700.00	3,992.40	3,225.04	3,130.77	46.53	16.74	107.25	-7,384.58	1,442.30	8,304.00	8,246.18	57.82	143.619		
4,800.00	4,068.53	3,253.16	3,157.85	47.92	16.90	107.42	-7,387.06	1,435.09	8,341.86	8,282.84	59.02	141.348		
4,900.00	4,144.66	3,278.00	3,181.73	49.32	17.05	107.57	-7,389.32	1,428.67	8,380.56	8,320.38	60.18	139.257		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,220.78	3,278.00	3,181.73	50.71	17.05	107.57	-7,389.32	1,428.67	8,420.19	8,359.01	61.18	137.622		
5,100.00	4,296.91	3,315.99	3,218.26	52.11	17.28	107.79	-7,393.02	1,418.88	8,460.56	8,398.16	62.40	135.591		
5,200.00	4,373.03	3,334.01	3,235.58	53.51	17.39	107.90	-7,394.91	1,414.29	8,501.87	8,438.39	63.48	133.931		
5,300.00	4,449.16	3,366.00	3,266.33	54.90	17.58	108.09	-7,398.46	1,406.23	8,544.07	8,479.43	64.63	132.196		
5,400.00	4,525.29	3,468.22	3,364.50	56.30	18.21	108.69	-7,409.56	1,380.01	8,586.92	8,520.73	66.19	129.725		
5,500.00	4,601.41	5,005.85	4,878.80	57.70	24.33	116.19	-7,471.98	1,204.67	8,627.04	8,553.51	73.53	117.332		
5,600.00	4,677.54	5,122.03	4,994.92	59.10	24.61	116.67	-7,468.18	1,204.14	8,658.83	8,583.97	74.85	115.679		
5,700.00	4,753.66	5,176.82	5,049.68	60.49	24.74	116.89	-7,466.37	1,203.95	8,690.92	8,614.91	76.01	114.337		
5,800.00	4,829.79	5,236.60	5,109.43	61.89	24.89	117.13	-7,464.52	1,203.86	8,723.52	8,646.34	77.18	113.035		
5,900.00	4,905.92	5,286.00	5,158.81	63.29	25.00	117.33	-7,463.10	1,203.88	8,756.61	8,678.31	78.30	111.829		
6,000.00	4,982.04	5,286.00	5,158.81	64.69	25.00	117.33	-7,463.10	1,203.88	8,790.55	8,711.26	79.29	110.871		
6,100.00	5,058.17	5,341.15	5,213.95	66.09	25.15	117.56	-7,461.87	1,203.69	8,824.96	8,744.54	80.42	109.735		
6,200.00	5,134.30	5,366.13	5,238.92	67.49	25.22	117.66	-7,461.52	1,203.45	8,860.31	8,778.85	81.45	108.777		
6,300.00	5,210.42	5,390.87	5,263.66	68.89	25.29	117.76	-7,461.29	1,203.11	8,896.43	8,813.95	82.47	107.868		
6,400.00	5,286.55	5,461.00	5,333.77	70.29	25.48	118.04	-7,461.34	1,201.63	8,933.67	8,850.04	83.62	106.830		
6,500.00	5,362.67	5,461.00	5,333.77	71.69	25.48	118.04	-7,461.34	1,201.63	8,971.03	8,886.48	84.55	106.107		
6,600.00	5,438.80	5,467.61	5,340.38	73.09	25.49	118.07	-7,461.40	1,201.45	9,009.35	8,923.87	85.48	105.403		
6,700.00	5,514.93	5,527.36	5,400.11	74.49	25.67	118.31	-7,461.98	1,200.06	9,048.31	8,961.74	86.57	104.520		
6,800.00	5,591.05	5,587.56	5,460.29	75.89	25.84	118.55	-7,462.74	1,199.02	9,087.71	9,000.05	87.66	103.670		
6,900.00	5,667.18	5,778.90	5,651.61	77.29	26.38	119.30	-7,464.93	1,197.52	9,127.43	9,038.26	89.18	102.349		
7,000.00	5,743.30	5,917.22	5,789.93	78.69	26.76	119.84	-7,464.81	1,196.91	9,166.18	9,075.67	90.52	101.264		
7,100.00	5,819.43	6,109.20	5,981.89	80.09	27.29	120.57	-7,462.88	1,195.25	9,204.80	9,112.79	92.01	100.039		
7,200.00	5,895.56	6,211.25	6,083.92	81.49	27.56	120.96	-7,461.04	1,195.37	9,242.78	9,149.57	93.21	99.157		
7,300.00	5,971.68	6,272.56	6,145.23	82.90	27.73	121.19	-7,459.91	1,195.17	9,281.16	9,186.88	94.28	98.446		
7,400.00	6,047.81	6,334.00	6,206.65	84.30	27.89	121.42	-7,458.80	1,194.65	9,319.94	9,224.61	95.33	97.764		
7,500.00	6,123.94	6,424.51	6,297.14	85.70	28.15	121.76	-7,457.14	1,193.76	9,359.02	9,262.55	96.48	97.006		
7,600.00	6,200.06	6,516.35	6,388.97	87.10	28.40	122.10	-7,455.36	1,193.07	9,398.26	9,300.64	97.62	96.269		
7,700.00	6,276.19	6,573.18	6,445.78	88.50	28.56	122.31	-7,454.33	1,192.83	9,437.81	9,339.17	98.64	95.675		
7,800.00	6,352.31	6,632.86	6,505.46	89.90	28.72	122.53	-7,453.42	1,192.80	9,477.77	9,378.10	99.67	95.094		
7,900.00	6,428.44	6,696.81	6,569.40	91.31	28.89	122.76	-7,452.63	1,193.01	9,518.12	9,417.43	100.70	94.522		
8,000.00	6,504.57	6,781.49	6,654.07	92.71	29.12	123.06	-7,451.63	1,193.43	9,558.75	9,456.96	101.79	93.908		
8,100.00	6,580.69	6,867.14	6,739.71	94.11	29.35	123.37	-7,450.56	1,193.88	9,599.56	9,496.69	102.88	93.313		
8,200.00	6,656.82	6,960.88	6,833.45	95.51	29.60	123.70	-7,449.22	1,194.29	9,640.52	9,536.53	103.99	92.709		
8,300.00	6,732.95	7,054.51	6,927.06	96.91	29.86	124.03	-7,447.65	1,194.53	9,681.60	9,576.51	105.09	92.127		
8,400.00	6,809.07	7,105.82	6,978.36	98.32	30.00	124.21	-7,446.85	1,194.63	9,723.00	9,616.95	106.05	91.683		
8,500.00	6,885.20	7,165.22	7,037.76	99.72	30.17	124.41	-7,446.00	1,194.72	9,764.78	9,657.75	107.03	91.235		
8,600.00	6,961.32	7,243.94	7,116.48	101.12	30.39	124.69	-7,445.00	1,194.85	9,806.91	9,698.84	108.07	90.748		
8,700.00	7,037.45	7,369.84	7,242.36	102.52	30.73	125.12	-7,443.15	1,195.60	9,849.03	9,739.76	109.26	90.140		
8,732.15	7,061.92	7,410.62	7,283.13	102.97	30.85	125.25	-7,442.46	1,196.01	9,862.54	9,752.89	109.65	89.947		
8,750.00	7,075.57	7,404.66	7,277.17	103.22	30.83	122.98	-7,442.58	1,195.92	9,869.83	9,760.07	109.76	89.919		
8,800.00	7,114.27	7,433.03	7,305.54	103.91	30.91	116.59	-7,442.13	1,196.16	9,887.68	9,777.42	110.26	89.675		
8,850.00	7,153.47	7,461.67	7,334.17	104.58	30.99	110.02	-7,441.71	1,196.38	9,901.67	9,790.89	110.78	89.381		
8,900.00	7,192.85	7,490.37	7,362.86	105.21	31.07	103.45	-7,441.32	1,196.57	9,911.71	9,800.40	111.32	89.042		
8,950.00	7,232.12	7,518.90	7,391.40	105.80	31.15	97.07	-7,440.95	1,196.74	9,917.74	9,805.89	111.86	88.663		
9,000.00	7,270.99	7,556.00	7,428.49	106.35	31.25	91.11	-7,440.50	1,196.92	9,919.74	9,807.30	112.43	88.227		
9,050.00	7,309.16	7,581.81	7,454.31	106.85	31.32	85.63	-7,440.21	1,197.03	9,917.66	9,804.69	112.97	87.792		
9,100.00	7,346.32	7,618.91	7,491.40	107.30	31.43	80.82	-7,439.78	1,197.19	9,911.51	9,797.98	113.53	87.302		
9,150.00	7,382.22	7,654.68	7,527.16	107.69	31.53	76.70	-7,439.37	1,197.34	9,901.35	9,787.27	114.08	86.796		
9,200.00	7,416.56	7,688.84	7,561.32	108.02	31.63	73.27	-7,438.98	1,197.48	9,887.24	9,772.65	114.60	86.278		
9,250.00	7,449.09	7,721.13	7,593.62	108.29	31.72	70.52	-7,438.61	1,197.61	9,869.31	9,754.22	115.09	85.753		
9,300.00	7,479.56	7,751.23	7,623.71	108.51	31.80	68.43	-7,438.26	1,197.74	9,847.69	9,732.14	115.55	85.226		
9,350.00	7,507.74	7,779.05	7,651.53	108.68	31.88	67.00	-7,437.96	1,197.91	9,822.53	9,706.56	115.97	84.697		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,400.00	7,533.41	7,804.43	7,676.91	108.79	31.95	66.22	-7,437.70	1,198.09	9,794.03	9,677.67	116.36	84.171		
9,450.00	7,556.39	7,827.16	7,699.64	108.86	32.02	66.11	-7,437.48	1,198.29	9,762.38	9,645.68	116.71	83.648		
9,500.00	7,576.48	7,847.05	7,719.52	108.88	32.07	66.73	-7,437.30	1,198.49	9,727.84	9,610.82	117.02	83.132		
9,550.00	7,593.55	7,863.92	7,736.39	108.86	32.12	68.15	-7,437.15	1,198.67	9,690.63	9,573.34	117.29	82.623		
9,600.00	7,607.46	7,877.63	7,750.10	108.80	32.16	70.53	-7,437.03	1,198.83	9,651.04	9,533.52	117.52	82.122		
9,650.00	7,618.11	7,888.05	7,760.52	108.71	32.19	74.08	-7,436.95	1,198.96	9,609.35	9,491.64	117.72	81.632		
9,700.00	7,625.41	7,895.08	7,767.55	108.59	32.21	79.15	-7,436.89	1,199.05	9,565.87	9,447.99	117.88	81.153		
9,750.00	7,629.30	7,898.66	7,771.12	108.45	32.22	86.16	-7,436.86	1,199.10	9,520.91	9,402.90	118.00	80.684		
9,781.81	7,630.00	7,899.11	7,771.58	108.35	32.22	91.87	-7,436.86	1,199.11	9,491.69	9,373.62	118.07	80.393		
9,800.00	7,630.00	7,898.97	7,771.43	108.29	32.22	91.87	-7,436.86	1,199.10	9,474.85	9,356.75	118.10	80.227		
9,900.00	7,630.00	7,898.16	7,770.63	107.97	32.22	91.86	-7,436.87	1,199.09	9,382.44	9,264.16	118.29	79.320		
10,000.00	7,630.00	7,897.35	7,769.82	107.67	32.21	91.84	-7,436.87	1,199.08	9,290.19	9,171.71	118.48	78.413		
10,100.00	7,630.00	7,896.54	7,769.01	107.38	32.21	91.83	-7,436.88	1,199.07	9,198.10	9,079.42	118.68	77.506		
10,200.00	7,630.00	7,895.73	7,768.19	107.10	32.21	91.82	-7,436.89	1,199.06	9,106.17	8,987.29	118.88	76.600		
10,300.00	7,630.00	7,894.91	7,767.37	106.84	32.21	91.80	-7,436.89	1,199.05	9,014.41	8,895.33	119.09	75.694		
10,400.00	7,630.00	7,894.09	7,766.55	106.59	32.20	91.79	-7,436.90	1,199.04	8,922.84	8,803.53	119.31	74.789		
10,500.00	7,630.00	7,893.26	7,765.73	106.35	32.20	91.78	-7,436.91	1,199.03	8,831.44	8,711.91	119.53	73.884		
10,600.00	7,630.00	7,892.43	7,764.90	106.13	32.20	91.76	-7,436.91	1,199.02	8,740.24	8,620.48	119.76	72.980		
10,700.00	7,630.00	7,891.60	7,764.06	105.92	32.20	91.75	-7,436.92	1,199.01	8,649.23	8,529.22	120.00	72.077		
10,800.00	7,630.00	7,890.76	7,763.23	105.72	32.19	91.74	-7,436.93	1,199.00	8,558.41	8,438.17	120.25	71.174		
10,900.00	7,630.00	7,889.92	7,762.39	105.54	32.19	91.72	-7,436.93	1,198.99	8,467.81	8,347.31	120.50	70.272		
11,000.00	7,630.00	7,889.08	7,761.54	105.37	32.19	91.71	-7,436.94	1,198.97	8,377.42	8,256.66	120.76	69.371		
11,100.00	7,630.00	7,888.23	7,760.69	105.21	32.19	91.70	-7,436.95	1,198.96	8,287.25	8,166.22	121.03	68.471		
11,200.00	7,630.00	7,887.37	7,759.84	105.06	32.19	91.68	-7,436.95	1,198.95	8,197.31	8,076.00	121.31	67.572		
11,300.00	7,630.00	7,886.52	7,758.99	104.93	32.18	91.67	-7,436.96	1,198.94	8,107.60	7,986.00	121.60	66.675		
11,400.00	7,630.00	7,885.66	7,758.13	104.82	32.18	91.66	-7,436.97	1,198.93	8,018.14	7,896.24	121.90	65.778		
11,500.00	7,630.00	7,884.80	7,757.26	104.72	32.18	91.64	-7,436.97	1,198.92	7,928.93	7,806.72	122.20	64.883		
11,600.00	7,630.00	7,883.93	7,756.40	104.63	32.18	91.63	-7,436.98	1,198.91	7,839.98	7,717.46	122.52	63.990		
11,700.00	7,630.00	7,883.06	7,755.52	104.55	32.17	91.61	-7,436.99	1,198.90	7,751.29	7,628.45	122.85	63.098		
11,800.00	7,630.00	7,882.18	7,754.65	104.50	32.17	91.60	-7,437.00	1,198.89	7,662.89	7,539.71	123.18	62.208		
11,900.00	7,630.00	7,881.30	7,753.77	104.45	32.17	91.59	-7,437.00	1,198.88	7,574.78	7,451.25	123.53	61.319		
12,000.00	7,630.00	7,880.42	7,752.89	104.43	32.17	91.57	-7,437.01	1,198.87	7,486.96	7,363.07	123.89	60.433		
12,100.00	7,630.00	7,879.53	7,752.00	104.42	32.16	91.56	-7,437.02	1,198.85	7,399.45	7,275.19	124.26	59.548		
12,200.00	7,630.00	7,878.64	7,751.11	104.42	32.16	91.54	-7,437.02	1,198.84	7,312.27	7,187.62	124.64	58.666		
12,300.00	7,630.00	7,877.74	7,750.21	104.45	32.16	91.53	-7,437.03	1,198.83	7,225.41	7,100.37	125.04	57.787		
12,400.00	7,630.00	7,876.84	7,749.31	104.49	32.16	91.52	-7,437.04	1,198.82	7,138.90	7,013.46	125.44	56.909		
12,500.00	7,630.00	7,875.94	7,748.41	104.55	32.15	91.50	-7,437.05	1,198.81	7,052.75	6,926.88	125.86	56.035		
12,600.00	7,630.00	7,875.03	7,747.50	104.63	32.15	91.49	-7,437.06	1,198.80	6,966.96	6,840.66	126.30	55.163		
12,700.00	7,630.00	7,874.12	7,746.59	104.73	32.15	91.47	-7,437.06	1,198.79	6,881.56	6,754.82	126.74	54.295		
12,800.00	7,630.00	7,873.20	7,745.67	104.85	32.15	91.46	-7,437.07	1,198.78	6,796.56	6,669.35	127.21	53.430		
12,900.00	7,630.00	7,872.28	7,744.75	104.99	32.14	91.44	-7,437.08	1,198.77	6,711.97	6,584.29	127.68	52.568		
13,000.00	7,630.00	7,871.36	7,743.82	105.15	32.14	91.43	-7,437.09	1,198.76	6,627.81	6,499.63	128.17	51.710		
13,100.00	7,630.00	7,870.43	7,742.89	105.34	32.14	91.41	-7,437.09	1,198.75	6,544.09	6,415.41	128.68	50.855		
13,200.00	7,630.00	7,869.49	7,741.96	105.56	32.13	91.40	-7,437.10	1,198.73	6,460.84	6,331.64	129.20	50.005		
13,300.00	7,630.00	7,868.55	7,741.02	105.80	32.13	91.38	-7,437.11	1,198.72	6,378.07	6,248.33	129.74	49.159		
13,400.00	7,630.00	7,867.61	7,740.08	106.06	32.13	91.37	-7,437.12	1,198.71	6,295.80	6,165.50	130.30	48.318		
13,500.00	7,630.00	7,866.66	7,739.13	106.36	32.13	91.35	-7,437.13	1,198.70	6,214.05	6,083.18	130.87	47.481		
13,600.00	7,630.00	7,865.71	7,738.18	106.68	32.12	91.34	-7,437.13	1,198.69	6,132.84	6,001.37	131.47	46.650		
13,700.00	7,630.00	7,864.75	7,737.22	107.03	32.12	91.32	-7,437.14	1,198.68	6,052.19	5,920.12	132.08	45.824		
13,800.00	7,630.00	7,863.79	7,736.26	107.42	32.12	91.31	-7,437.15	1,198.67	5,972.13	5,839.43	132.70	45.003		
13,900.00	7,630.00	7,862.83	7,735.30	107.83	32.12	91.29	-7,437.16	1,198.66	5,892.68	5,759.33	133.35	44.189		
14,000.00	7,630.00	7,861.86	7,734.33	108.28	32.11	91.28	-7,437.17	1,198.65	5,813.86	5,679.84	134.02	43.381		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,630.00	7,860.88	7,733.35	108.77	32.11	91.26	-7,437.18	1,198.64	5,735.70	5,600.99	134.71	42.579		
14,200.00	7,630.00	7,859.90	7,732.37	109.29	32.11	91.25	-7,437.18	1,198.63	5,658.23	5,522.81	135.41	41.785		
14,300.00	7,630.00	7,858.92	7,731.39	109.84	32.11	91.23	-7,437.19	1,198.61	5,581.47	5,445.33	136.14	40.998		
14,400.00	7,630.00	7,857.93	7,730.40	110.43	32.10	91.22	-7,437.20	1,198.60	5,505.46	5,368.57	136.89	40.218		
14,500.00	7,630.00	7,856.93	7,729.40	111.06	32.10	91.20	-7,437.21	1,198.59	5,430.23	5,292.57	137.66	39.447		
14,600.00	7,630.00	7,855.94	7,728.41	111.72	32.10	91.18	-7,437.22	1,198.58	5,355.81	5,217.36	138.45	38.683		
14,700.00	7,630.00	7,854.93	7,727.40	112.42	32.09	91.17	-7,437.23	1,198.57	5,282.24	5,142.97	139.27	37.929		
14,800.00	7,630.00	7,853.92	7,726.39	113.16	32.09	91.15	-7,437.24	1,198.56	5,209.54	5,069.44	140.10	37.184		
14,900.00	7,630.00	7,852.91	7,725.38	113.94	32.09	91.14	-7,437.25	1,198.55	5,137.76	4,996.81	140.96	36.449		
15,000.00	7,630.00	7,851.89	7,724.36	114.75	32.09	91.12	-7,437.26	1,198.54	5,066.94	4,925.11	141.84	35.724		
15,100.00	7,630.00	7,850.87	7,723.34	115.60	32.08	91.10	-7,437.26	1,198.53	4,997.12	4,854.38	142.74	35.010		
15,200.00	7,630.00	7,849.84	7,722.31	116.48	32.08	91.09	-7,437.27	1,198.52	4,928.33	4,784.67	143.66	34.306		
15,300.00	7,630.00	7,848.81	7,721.28	117.40	32.08	91.07	-7,437.28	1,198.51	4,860.63	4,716.03	144.60	33.614		
15,400.00	7,630.00	7,847.77	7,720.24	118.35	32.07	91.05	-7,437.29	1,198.49	4,794.06	4,648.50	145.56	32.935		
15,500.00	7,630.00	7,846.72	7,719.19	119.34	32.07	91.04	-7,437.30	1,198.48	4,728.67	4,582.12	146.55	32.267		
15,600.00	7,630.00	7,845.67	7,718.14	120.35	32.07	91.02	-7,437.31	1,198.47	4,664.50	4,516.95	147.55	31.613		
15,700.00	7,630.00	7,844.62	7,717.09	121.40	32.07	91.00	-7,437.32	1,198.46	4,601.61	4,453.04	148.57	30.973		
15,800.00	7,630.00	7,843.56	7,716.03	122.48	32.06	90.99	-7,437.33	1,198.45	4,540.06	4,390.45	149.61	30.346		
15,900.00	7,630.00	7,842.49	7,714.96	123.58	32.06	90.97	-7,437.34	1,198.44	4,479.89	4,329.22	150.66	29.735		
16,000.00	7,630.00	7,841.42	7,713.89	124.71	32.06	90.95	-7,437.35	1,198.43	4,421.16	4,269.43	151.73	29.138		
16,100.00	7,630.00	7,840.35	7,712.82	125.87	32.05	90.94	-7,437.36	1,198.42	4,363.93	4,211.12	152.81	28.557		
16,200.00	7,630.00	7,839.27	7,711.74	127.05	32.05	90.92	-7,437.37	1,198.41	4,308.27	4,154.36	153.91	27.993		
16,300.00	7,630.00	7,838.18	7,710.65	128.26	32.05	90.90	-7,437.38	1,198.40	4,254.23	4,099.22	155.01	27.445		
16,400.00	7,630.00	7,837.09	7,709.56	129.48	32.04	90.88	-7,437.39	1,198.39	4,201.87	4,045.75	156.12	26.914		
16,500.00	7,630.00	7,835.99	7,708.46	130.73	32.04	90.87	-7,437.40	1,198.37	4,151.26	3,994.03	157.23	26.402		
16,600.00	7,630.00	7,834.88	7,707.36	132.00	32.04	90.85	-7,437.41	1,198.36	4,102.46	3,944.12	158.35	25.908		
16,700.00	7,630.00	7,833.77	7,706.25	133.29	32.03	90.83	-7,437.42	1,198.35	4,055.55	3,896.09	159.46	25.433		
16,800.00	7,630.00	7,832.66	7,705.13	134.59	32.03	90.81	-7,437.43	1,198.34	4,010.57	3,850.01	160.57	24.977		
16,900.00	7,630.00	7,831.54	7,704.01	135.91	32.03	90.80	-7,437.44	1,198.33	3,967.61	3,805.95	161.67	24.542		
17,000.00	7,630.00	7,830.41	7,702.88	137.25	32.03	90.78	-7,437.45	1,198.32	3,926.73	3,763.98	162.75	24.127		
17,100.00	7,630.00	7,829.28	7,701.75	138.61	32.02	90.76	-7,437.46	1,198.31	3,887.99	3,724.16	163.82	23.733		
17,200.00	7,630.00	7,828.14	7,700.61	139.97	32.02	90.74	-7,437.47	1,198.30	3,851.45	3,686.58	164.87	23.360		
17,300.00	7,630.00	7,827.00	7,699.47	141.36	32.02	90.72	-7,437.48	1,198.29	3,817.19	3,651.29	165.90	23.010		
17,400.00	7,630.00	7,825.85	7,698.32	142.75	32.01	90.71	-7,437.50	1,198.28	3,785.26	3,618.37	166.89	22.681		
17,500.00	7,630.00	7,824.69	7,697.16	144.16	32.01	90.69	-7,437.51	1,198.27	3,755.72	3,587.87	167.85	22.375		
17,600.00	7,630.00	7,823.53	7,696.00	145.58	32.01	90.67	-7,437.52	1,198.26	3,728.62	3,559.85	168.77	22.093		
17,700.00	7,630.00	7,822.36	7,694.83	147.01	32.00	90.65	-7,437.53	1,198.25	3,704.03	3,534.39	169.65	21.833		
17,800.00	7,630.00	7,821.19	7,693.66	148.45	32.00	90.63	-7,437.54	1,198.24	3,682.00	3,511.52	170.48	21.598		
17,900.00	7,630.00	7,820.00	7,692.48	149.91	32.00	90.61	-7,437.55	1,198.22	3,662.56	3,491.30	171.26	21.386		
18,000.00	7,630.00	7,818.82	7,691.29	151.37	31.99	90.59	-7,437.56	1,198.21	3,645.76	3,473.78	171.98	21.199		
18,100.00	7,630.00	7,817.62	7,690.10	152.84	31.99	90.57	-7,437.57	1,198.20	3,631.64	3,458.99	172.64	21.036		
18,200.00	7,630.00	7,816.42	7,688.90	154.32	31.99	90.56	-7,437.59	1,198.19	3,620.22	3,446.98	173.24	20.897		
18,300.00	7,630.00	7,815.22	7,687.69	155.81	31.98	90.54	-7,437.60	1,198.18	3,611.54	3,437.77	173.77	20.783		
18,400.00	7,630.00	7,814.01	7,686.48	157.31	31.98	90.52	-7,437.61	1,198.17	3,605.61	3,431.38	174.23	20.694		
18,500.00	7,630.00	7,812.79	7,685.26	158.81	31.98	90.50	-7,437.62	1,198.16	3,602.45	3,427.82	174.63	20.630		
18,563.95	7,630.00	7,812.00	7,684.48	159.78	31.97	90.48	-7,437.63	1,198.15	3,601.88	3,427.04	174.84	20.601 CC, ES		
18,600.00	7,630.00	7,811.56	7,684.03	160.32	31.97	90.48	-7,437.63	1,198.15	3,602.06	3,427.12	174.94	20.590		
18,700.00	7,630.00	7,810.33	7,682.80	161.84	31.97	90.46	-7,437.64	1,198.14	3,604.45	3,429.26	175.19	20.575 SF		
18,800.00	7,630.00	7,809.09	7,681.56	163.37	31.97	90.44	-7,437.66	1,198.13	3,609.61	3,434.25	175.35	20.585		
18,900.00	7,630.00	7,807.84	7,680.32	164.90	31.96	90.42	-7,437.67	1,198.12	3,617.52	3,442.08	175.45	20.619		
19,000.00	7,630.00	7,806.59	7,679.06	166.43	31.96	90.40	-7,437.68	1,198.11	3,628.18	3,452.71	175.47	20.677		
19,100.00	7,630.00	7,805.33	7,677.80	167.98	31.96	90.38	-7,437.69	1,198.10	3,641.55	3,466.14	175.41	20.760		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,630.00	7,804.06	7,676.54	169.53	31.95	90.36	-7,437.71	1,198.09	3,657.60	3,482.32	175.29	20.867	
19,300.00	7,630.00	7,802.79	7,675.26	171.08	31.95	90.34	-7,437.72	1,198.08	3,676.31	3,501.22	175.09	20.997	
19,400.00	7,630.00	7,801.51	7,673.98	172.64	31.94	90.32	-7,437.73	1,198.07	3,697.63	3,522.80	174.83	21.150	
19,500.00	7,630.00	7,800.22	7,672.70	174.21	31.94	90.30	-7,437.75	1,198.06	3,721.51	3,547.01	174.50	21.327	
19,518.56	7,630.00	7,799.98	7,672.46	174.50	31.94	90.29	-7,437.75	1,198.06	3,726.22	3,551.79	174.43	21.362	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	70.96	70.96	0.00	0.11	163.72	-7,136.25	2,083.51	7,434.33					
100.00	100.00	125.18	125.17	0.13	0.30	163.73	-7,136.32	2,082.61	7,433.99	7,433.57	0.43	N/A		
102.43	102.43	126.44	126.43	0.14	0.30	163.73	-7,136.32	2,082.59	7,433.99	7,433.55	0.44	N/A		
200.00	200.00	187.94	187.92	0.49	0.52	163.74	-7,136.83	2,081.60	7,434.29	7,433.28	1.01	7,344.348		
300.00	300.00	292.87	292.77	0.85	0.90	163.77	-7,138.38	2,077.96	7,434.74	7,432.99	1.75	4,242.888		
400.00	400.00	372.13	371.86	1.21	1.20	163.81	-7,140.17	2,073.04	7,435.21	7,432.80	2.41	3,090.882		
500.00	499.98	420.87	420.42	1.56	1.38	97.10	-7,141.81	2,069.24	7,436.47	7,433.53	2.94	2,525.288		
600.00	599.84	440.00	439.46	1.92	1.45	97.07	-7,142.58	2,067.60	7,438.98	7,435.61	3.37	2,205.398		
700.00	699.45	481.73	480.96	2.29	1.62	97.05	-7,144.75	2,063.78	7,442.76	7,438.86	3.90	1,907.117		
800.00	798.70	533.00	531.84	2.67	1.82	97.04	-7,148.45	2,058.65	7,448.21	7,443.73	4.48	1,660.950		
900.00	897.47	533.00	531.84	3.07	1.82	96.91	-7,148.45	2,058.65	7,454.76	7,449.87	4.88	1,526.243		
1,000.00	995.62	570.39	568.86	3.50	1.98	96.84	-7,151.75	2,054.64	7,462.82	7,457.36	5.46	1,365.979		
1,100.00	1,093.06	625.00	622.85	3.96	2.21	96.81	-7,157.18	2,048.43	7,472.20	7,466.06	6.15	1,215.962		
1,200.00	1,189.64	625.00	622.85	4.46	2.21	96.59	-7,157.18	2,048.43	7,482.83	7,476.19	6.64	1,127.193		
1,300.00	1,285.27	677.01	674.12	5.00	2.44	96.53	-7,163.08	2,042.00	7,494.69	7,487.29	7.40	1,013.114		
1,400.00	1,379.82	717.00	713.42	5.60	2.61	96.41	-7,168.15	2,036.61	7,507.93	7,499.78	8.15	921.046		
1,500.00	1,473.17	717.00	713.42	6.25	2.61	96.11	-7,168.15	2,036.61	7,522.58	7,513.80	8.78	856.690		
1,600.00	1,565.21	759.62	755.15	6.95	2.82	95.97	-7,174.17	2,030.38	7,538.47	7,528.81	9.66	780.351		
1,700.00	1,655.84	809.00	803.25	7.72	3.05	95.85	-7,182.07	2,022.48	7,556.01	7,545.39	10.63	710.993		
1,800.00	1,744.94	809.00	803.25	8.55	3.05	95.47	-7,182.07	2,022.48	7,574.62	7,563.20	11.42	663.191		
1,900.00	1,832.39	809.00	803.25	9.45	3.05	95.06	-7,182.07	2,022.48	7,594.82	7,582.55	12.27	618.776		
2,000.00	1,918.11	809.00	803.25	10.41	3.05	94.61	-7,182.07	2,022.48	7,616.58	7,603.40	13.19	577.630		
2,100.00	2,001.97	854.44	847.28	11.45	3.29	94.39	-7,190.25	2,014.80	7,639.27	7,624.89	14.38	531.073		
2,200.00	2,083.88	898.00	889.29	12.56	3.51	94.14	-7,198.98	2,007.32	7,663.81	7,648.17	15.64	490.124		
2,300.00	2,163.74	898.00	889.29	13.74	3.51	93.61	-7,198.98	2,007.32	7,689.27	7,672.54	16.73	459.593		
2,400.00	2,241.45	898.00	889.29	14.99	3.51	93.06	-7,198.98	2,007.32	7,716.16	7,698.27	17.88	431.443		
2,421.22	2,257.65	898.00	889.29	15.26	3.51	92.93	-7,198.98	2,007.32	7,722.04	7,703.90	18.14	425.779		
2,500.00	2,317.63	898.00	889.29	16.29	3.51	92.93	-7,198.98	2,007.32	7,744.37	7,725.29	19.08	405.905		
2,600.00	2,393.75	933.47	923.38	17.62	3.71	93.15	-7,206.60	2,001.17	7,773.51	7,753.05	20.47	379.782		
2,700.00	2,469.88	951.47	940.65	18.95	3.81	93.26	-7,210.61	1,998.05	7,803.76	7,781.99	21.76	358.550		
2,800.00	2,546.01	969.33	957.77	20.30	3.91	93.38	-7,214.67	1,994.95	7,835.03	7,811.98	23.06	339.804		
2,900.00	2,622.13	1,011.00	997.61	21.65	4.14	93.63	-7,224.48	1,987.71	7,867.44	7,842.97	24.47	321.495		
3,000.00	2,698.26	1,011.00	997.61	23.01	4.14	93.63	-7,224.48	1,987.71	7,900.64	7,874.98	25.66	307.916		
3,100.00	2,774.38	1,011.00	997.61	24.37	4.14	93.63	-7,224.48	1,987.71	7,934.95	7,908.11	26.84	295.671		
3,200.00	2,850.51	1,011.00	997.61	25.74	4.14	93.63	-7,224.48	1,987.71	7,970.37	7,942.36	28.01	284.591		
3,300.00	2,926.64	1,055.38	1,039.93	27.11	4.40	93.91	-7,235.46	1,980.07	8,006.47	7,977.06	29.41	272.239		
3,400.00	3,002.76	1,100.00	1,082.35	28.49	4.67	94.18	-7,247.05	1,972.54	8,043.86	8,013.05	30.81	261.076		
3,500.00	3,078.89	1,100.00	1,082.35	29.87	4.67	94.18	-7,247.05	1,972.54	8,081.90	8,049.95	31.95	252.957		
3,600.00	3,155.02	1,100.00	1,082.35	31.25	4.67	94.18	-7,247.05	1,972.54	8,121.00	8,087.92	33.08	245.519		
3,700.00	3,231.14	1,125.47	1,106.53	32.63	4.82	94.34	-7,253.90	1,968.34	8,161.01	8,126.68	34.34	237.686		
3,800.00	3,307.27	1,144.78	1,124.83	34.01	4.94	94.45	-7,259.18	1,965.22	8,201.93	8,166.38	35.55	230.729		
3,900.00	3,383.39	1,187.00	1,164.81	35.40	5.19	94.71	-7,271.02	1,958.58	8,243.82	8,206.94	36.88	223.521		
4,000.00	3,459.52	1,187.00	1,164.81	36.79	5.19	94.71	-7,271.02	1,958.58	8,286.40	8,248.44	37.96	218.295		
4,100.00	3,535.65	1,187.00	1,164.81	38.18	5.19	94.71	-7,271.02	1,958.58	8,329.96	8,290.93	39.02	213.458		
4,200.00	3,611.77	1,217.27	1,193.40	39.57	5.38	94.89	-7,279.76	1,953.86	8,374.30	8,334.05	40.25	208.042		
4,300.00	3,687.90	1,233.63	1,208.82	40.96	5.49	94.99	-7,284.59	1,951.25	8,419.53	8,378.14	41.39	203.431		
4,400.00	3,764.02	1,275.00	1,247.66	42.35	5.75	95.24	-7,297.11	1,944.48	8,465.72	8,423.06	42.66	198.450		
4,500.00	3,840.15	1,275.00	1,247.66	43.74	5.75	95.24	-7,297.11	1,944.48	8,512.49	8,468.82	43.67	194.926		
4,600.00	3,916.28	1,275.00	1,247.66	45.13	5.75	95.24	-7,297.11	1,944.48	8,560.18	8,515.51	44.67	191.643		
4,700.00	3,992.40	1,312.35	1,282.62	46.53	5.99	95.47	-7,308.70	1,938.27	8,608.61	8,562.73	45.88	187.633		
4,800.00	4,068.53	1,338.71	1,307.26	47.92	6.17	95.63	-7,316.97	1,933.89	8,657.76	8,610.75	47.01	184.155		
4,900.00	4,144.66	1,362.00	1,329.01	49.32	6.32	95.77	-7,324.34	1,930.04	8,707.63	8,659.52	48.12	180.974		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	1,401.26	1,365.64	50.71	6.59	96.00	-7,336.86	1,923.45	8,758.17	8,708.86	49.31	177.625		
5,100.00	4,296.91	1,436.03	1,398.03	52.11	6.82	96.21	-7,348.00	1,917.47	8,809.34	8,758.88	50.46	174.586		
5,200.00	4,373.03	1,449.00	1,410.10	53.51	6.91	96.29	-7,352.17	1,915.21	8,861.17	8,809.72	51.46	172.200		
5,300.00	4,449.16	1,449.00	1,410.10	54.90	6.91	96.29	-7,352.17	1,915.21	8,913.82	8,861.46	52.36	170.234		
5,400.00	4,525.29	1,490.33	1,448.47	56.30	7.20	96.54	-7,365.67	1,907.90	8,966.96	8,913.43	53.52	167.536		
5,500.00	4,601.41	1,505.78	1,462.77	57.70	7.31	96.63	-7,370.82	1,905.14	9,020.92	8,966.42	54.50	165.518		
5,600.00	4,677.54	1,537.00	1,491.60	59.10	7.53	96.82	-7,381.40	1,899.51	9,075.62	9,020.05	55.57	163.314		
5,700.00	4,753.66	1,537.00	1,491.60	60.49	7.53	96.82	-7,381.40	1,899.51	9,130.92	9,074.49	56.42	161.830		
5,800.00	4,829.79	1,537.00	1,491.60	61.89	7.53	96.82	-7,381.40	1,899.51	9,186.97	9,129.71	57.26	160.443		
5,900.00	4,905.92	1,537.00	1,491.60	63.29	7.53	96.82	-7,381.40	1,899.51	9,243.76	9,185.68	58.08	159.145		
6,000.00	4,982.04	1,571.78	1,523.59	64.69	7.78	97.03	-7,393.51	1,893.17	9,301.00	9,241.87	59.13	157.291		
6,100.00	5,058.17	1,583.35	1,534.18	66.09	7.87	97.10	-7,397.62	1,891.05	9,359.02	9,299.01	60.01	155.957		
6,200.00	5,134.30	1,624.00	1,571.29	67.49	8.17	97.34	-7,412.42	1,883.52	9,417.88	9,356.80	61.08	154.196		
6,300.00	5,210.42	1,624.00	1,571.29	68.89	8.17	97.34	-7,412.42	1,883.52	9,477.05	9,415.20	61.85	153.223		
6,400.00	5,286.55	1,624.00	1,571.29	70.29	8.17	97.34	-7,412.42	1,883.52	9,536.91	9,474.30	62.61	152.316		
6,500.00	5,362.67	1,624.00	1,571.29	71.69	8.17	97.34	-7,412.42	1,883.52	9,597.43	9,534.07	63.36	151.471		
6,600.00	5,438.80	1,624.00	1,571.29	73.09	8.17	97.34	-7,412.42	1,883.52	9,658.61	9,594.51	64.10	150.686		
6,700.00	5,514.93	1,663.18	1,606.89	74.49	8.47	97.57	-7,427.08	1,876.24	9,720.20	9,655.10	65.10	149.307		
6,800.00	5,591.05	1,679.34	1,621.53	75.89	8.59	97.67	-7,433.22	1,873.25	9,782.42	9,716.49	65.93	148.372		
6,900.00	5,667.18	1,711.00	1,650.17	77.29	8.84	97.85	-7,445.39	1,867.41	9,845.23	9,778.36	66.86	147.244		
7,000.00	5,743.30	1,711.00	1,650.17	78.69	8.84	97.85	-7,445.39	1,867.41	9,908.49	9,840.93	67.55	146.674		
7,100.00	5,819.43	1,742.86	1,678.94	80.09	9.09	98.04	-7,457.75	1,861.49	9,972.27	9,903.81	68.47	145.646		
10,600.00	7,630.00	8,362.35	7,991.53	106.13	43.43	95.23	-8,719.37	1,108.61	9,959.72	9,837.13	122.58	81.249		
10,700.00	7,630.00	8,360.81	7,990.00	105.92	43.43	95.21	-8,719.42	1,108.59	9,866.95	9,744.12	122.83	80.327		
10,800.00	7,630.00	8,359.26	7,988.44	105.72	43.43	95.18	-8,719.47	1,108.57	9,774.33	9,651.24	123.09	79.406		
10,900.00	7,630.00	8,357.68	7,986.87	105.54	43.42	95.16	-8,719.52	1,108.55	9,681.85	9,558.49	123.36	78.484		
11,000.00	7,630.00	8,356.08	7,985.27	105.37	43.42	95.13	-8,719.57	1,108.53	9,589.53	9,465.89	123.64	77.563		
11,100.00	7,630.00	8,354.45	7,983.64	105.21	43.42	95.11	-8,719.62	1,108.51	9,497.36	9,373.44	123.92	76.642		
11,200.00	7,630.00	8,352.80	7,981.99	105.06	43.41	95.08	-8,719.68	1,108.49	9,405.35	9,281.14	124.21	75.721		
11,300.00	7,630.00	8,351.13	7,980.32	104.93	43.41	95.06	-8,719.73	1,108.47	9,313.50	9,188.99	124.51	74.801		
11,400.00	7,630.00	8,349.43	7,978.62	104.82	43.41	95.03	-8,719.79	1,108.45	9,221.82	9,097.01	124.82	73.882		
11,500.00	7,630.00	8,347.70	7,976.89	104.72	43.40	95.00	-8,719.85	1,108.43	9,130.32	9,005.18	125.14	72.963		
11,600.00	7,630.00	8,345.95	7,975.14	104.63	43.40	94.98	-8,719.91	1,108.41	9,039.00	8,913.53	125.46	72.044		
11,700.00	7,630.00	8,344.17	7,973.36	104.55	43.40	94.95	-8,719.97	1,108.39	8,947.86	8,822.06	125.80	71.127		
11,800.00	7,630.00	8,342.36	7,971.55	104.50	43.39	94.92	-8,720.03	1,108.37	8,856.91	8,730.76	126.15	70.210		
11,900.00	7,630.00	8,340.52	7,969.71	104.45	43.39	94.89	-8,720.09	1,108.36	8,766.16	8,639.65	126.51	69.294		
12,000.00	7,630.00	8,338.65	7,967.85	104.43	43.39	94.87	-8,720.16	1,108.34	8,675.61	8,548.73	126.88	68.379		
12,100.00	7,630.00	8,336.75	7,965.95	104.42	43.38	94.84	-8,720.22	1,108.32	8,585.27	8,458.01	127.26	67.465		
12,200.00	7,630.00	8,334.82	7,964.02	104.42	43.38	94.81	-8,720.29	1,108.30	8,495.14	8,367.49	127.65	66.552		
12,300.00	7,630.00	8,332.86	7,962.06	104.45	43.38	94.78	-8,720.36	1,108.28	8,405.24	8,277.19	128.05	65.640		
12,400.00	7,630.00	8,330.87	7,960.07	104.49	43.37	94.75	-8,720.43	1,108.26	8,315.56	8,187.10	128.46	64.730		
12,500.00	7,630.00	8,328.84	7,958.04	104.55	43.37	94.71	-8,720.51	1,108.24	8,226.13	8,097.24	128.89	63.822		
12,600.00	7,630.00	8,326.78	7,955.98	104.63	43.37	94.68	-8,720.58	1,108.22	8,136.94	8,007.60	129.33	62.915		
12,700.00	7,630.00	8,324.68	7,953.89	104.73	43.36	94.65	-8,720.66	1,108.20	8,048.00	7,918.21	129.79	62.009		
12,800.00	7,630.00	8,322.55	7,951.76	104.85	43.36	94.62	-8,720.74	1,108.18	7,959.32	7,829.07	130.26	61.106		
12,900.00	7,630.00	8,320.38	7,949.59	104.99	43.35	94.58	-8,720.82	1,108.16	7,870.92	7,740.18	130.74	60.204		
13,000.00	7,630.00	8,318.17	7,947.39	105.15	43.35	94.55	-8,720.91	1,108.14	7,782.79	7,651.56	131.23	59.305		
13,100.00	7,630.00	8,315.93	7,945.14	105.34	43.35	94.51	-8,720.99	1,108.12	7,694.96	7,563.21	131.75	58.407		
13,200.00	7,630.00	8,313.64	7,942.86	105.56	43.34	94.48	-8,721.08	1,108.10	7,607.42	7,475.15	132.27	57.512		
13,300.00	7,630.00	8,311.32	7,940.53	105.80	43.34	94.44	-8,721.17	1,108.08	7,520.19	7,387.37	132.82	56.620		
13,400.00	7,630.00	8,308.95	7,938.17	106.06	43.33	94.41	-8,721.26	1,108.06	7,433.28	7,299.90	133.38	55.730		
13,500.00	7,630.00	8,306.54	7,935.76	106.36	43.33	94.37	-8,721.36	1,108.04	7,346.71	7,212.75	133.96	54.844		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
13,600.00	7,630.00	8,304.08	7,933.30	106.68	43.33	94.33	-8,721.46	1,108.02	7,260.48	7,125.92	134.55	53.960		
13,700.00	7,630.00	8,301.58	7,930.80	107.03	43.32	94.29	-8,721.56	1,108.00	7,174.60	7,039.43	135.17	53.079		
13,800.00	7,630.00	8,299.03	7,928.25	107.42	43.32	94.25	-8,721.66	1,107.98	7,089.09	6,953.29	135.80	52.202		
13,900.00	7,630.00	8,296.43	7,925.66	107.83	43.31	94.21	-8,721.77	1,107.96	7,003.97	6,867.52	136.45	51.329		
14,000.00	7,630.00	8,293.78	7,923.01	108.28	43.31	94.17	-8,721.88	1,107.95	6,919.24	6,782.12	137.13	50.459		
14,100.00	7,630.00	8,291.08	7,920.32	108.77	43.30	94.13	-8,721.99	1,107.93	6,834.92	6,697.11	137.82	49.593		
14,200.00	7,630.00	8,288.33	7,917.57	109.29	43.30	94.09	-8,722.11	1,107.91	6,751.03	6,612.50	138.53	48.732		
14,300.00	7,630.00	8,285.53	7,914.77	109.84	43.29	94.04	-8,722.23	1,107.89	6,667.59	6,528.32	139.27	47.875		
14,400.00	7,630.00	8,282.67	7,911.91	110.43	43.29	94.00	-8,722.35	1,107.88	6,584.60	6,444.57	140.03	47.023		
14,500.00	7,630.00	8,279.75	7,908.99	111.06	43.28	93.96	-8,722.48	1,107.86	6,502.09	6,361.27	140.81	46.176		
14,600.00	7,630.00	8,276.77	7,906.02	111.72	43.28	93.91	-8,722.61	1,107.84	6,420.07	6,278.45	141.62	45.334		
14,700.00	7,630.00	14,700.00	7,873.96	112.42	55.30	93.41	-8,723.99	1,107.70	6,338.57	6,179.20	159.37	39.772		
14,800.00	7,630.00	8,287.02	7,916.26	113.16	43.29	94.07	-8,722.08	1,107.87	6,257.58	6,114.21	143.37	43.646		
14,900.00	7,630.00	8,278.92	7,908.16	113.94	43.28	93.94	-8,722.47	1,107.84	6,177.17	6,032.94	144.23	42.828		
15,000.00	7,630.00	8,271.02	7,900.27	114.75	43.26	93.82	-8,722.85	1,107.81	6,097.35	5,952.22	145.12	42.015		
15,100.00	7,630.00	8,263.33	7,892.59	115.60	43.25	93.70	-8,723.22	1,107.78	6,018.11	5,872.07	146.04	41.209		
15,200.00	7,630.00	8,255.83	7,885.10	116.48	43.24	93.59	-8,723.57	1,107.75	5,939.50	5,792.52	146.99	40.409		
15,300.00	7,630.00	8,248.52	7,877.80	117.40	43.22	93.47	-8,723.91	1,107.72	5,861.54	5,713.58	147.96	39.615		
15,400.00	7,630.00	8,241.39	7,870.68	118.35	43.21	93.36	-8,724.24	1,107.69	5,784.24	5,635.28	148.97	38.829		
15,500.00	7,630.00	8,234.44	7,863.73	119.34	43.20	93.25	-8,724.55	1,107.67	5,707.65	5,557.65	150.00	38.051		
15,600.00	7,630.00	8,227.66	7,856.96	120.35	43.19	93.15	-8,724.85	1,107.64	5,631.79	5,480.72	151.07	37.280		
15,700.00	7,630.00	8,221.03	7,850.34	121.40	43.18	93.05	-8,725.15	1,107.61	5,556.68	5,404.52	152.16	36.518		
15,800.00	7,630.00	8,214.57	7,843.88	122.48	43.16	92.95	-8,725.43	1,107.59	5,482.36	5,329.07	153.29	35.765		
15,900.00	7,630.00	8,208.25	7,837.57	123.58	43.15	92.85	-8,725.70	1,107.56	5,408.87	5,254.42	154.45	35.020		
16,000.00	7,630.00	8,202.08	7,831.41	124.71	43.14	92.75	-8,725.96	1,107.54	5,336.23	5,180.59	155.64	34.286		
16,100.00	7,630.00	8,196.05	7,825.38	125.87	43.13	92.66	-8,726.22	1,107.52	5,264.49	5,107.62	156.86	33.561		
16,200.00	7,630.00	8,190.16	7,819.49	127.05	43.12	92.57	-8,726.46	1,107.49	5,193.67	5,035.55	158.12	32.846		
16,300.00	7,630.00	8,184.40	7,813.74	128.26	43.11	92.48	-8,726.70	1,107.47	5,123.83	4,964.42	159.41	32.143		
16,400.00	7,630.00	8,178.76	7,808.11	129.48	43.10	92.39	-8,726.93	1,107.45	5,054.99	4,894.26	160.73	31.450		
16,500.00	7,630.00	8,173.25	7,802.60	130.73	43.09	92.31	-8,727.15	1,107.43	4,987.20	4,825.12	162.08	30.769		
16,600.00	7,630.00	8,167.86	7,797.21	132.00	43.08	92.22	-8,727.37	1,107.40	4,920.51	4,757.04	163.47	30.101		
16,700.00	7,630.00	8,162.58	7,791.94	133.29	43.07	92.14	-8,727.58	1,107.38	4,854.96	4,690.07	164.88	29.445		
16,800.00	7,630.00	8,157.42	7,786.78	134.59	43.06	92.06	-8,727.78	1,107.36	4,790.59	4,624.26	166.33	28.802		
16,900.00	7,630.00	8,152.36	7,781.72	135.91	43.05	91.98	-8,727.97	1,107.34	4,727.46	4,559.66	167.80	28.173		
17,000.00	7,630.00	8,147.41	7,776.78	137.25	43.04	91.91	-8,728.16	1,107.32	4,665.61	4,496.31	169.30	27.558		
17,100.00	7,630.00	8,142.56	7,771.93	138.61	43.03	91.83	-8,728.35	1,107.30	4,605.10	4,434.27	170.83	26.958		
17,200.00	7,630.00	8,137.80	7,767.18	139.97	43.03	91.76	-8,728.52	1,107.29	4,545.98	4,373.60	172.38	26.372		
17,300.00	7,630.00	8,133.14	7,762.52	141.36	43.02	91.69	-8,728.70	1,107.27	4,488.30	4,314.35	173.95	25.802		
17,400.00	7,630.00	8,128.58	7,757.96	142.75	43.01	91.61	-8,728.86	1,107.25	4,432.13	4,256.59	175.55	25.248		
17,500.00	7,630.00	8,124.10	7,753.49	144.16	43.00	91.55	-8,729.03	1,107.23	4,377.52	4,200.36	177.16	24.710		
17,600.00	7,630.00	8,119.72	7,749.10	145.58	42.99	91.48	-8,729.18	1,107.21	4,324.53	4,145.75	178.78	24.189		
17,700.00	7,630.00	8,115.41	7,744.80	147.01	42.99	91.41	-8,729.34	1,107.20	4,273.21	4,092.80	180.41	23.686		
17,800.00	7,630.00	8,111.19	7,740.58	148.45	42.98	91.34	-8,729.49	1,107.18	4,223.64	4,041.59	182.06	23.200		
17,900.00	7,630.00	8,117.02	7,746.41	149.91	42.99	91.44	-8,729.28	1,107.24	4,175.85	3,992.09	183.76	22.725		
18,000.00	7,630.00	8,111.06	7,740.45	151.37	42.98	91.34	-8,729.49	1,107.20	4,129.95	3,944.57	185.39	22.278		
18,100.00	7,630.00	8,105.27	7,734.66	152.84	42.97	91.25	-8,729.69	1,107.17	4,085.99	3,898.97	187.01	21.849		
18,200.00	7,630.00	8,099.64	7,729.04	154.32	42.96	91.17	-8,729.88	1,107.14	4,044.01	3,855.38	188.62	21.440		
18,300.00	7,630.00	8,094.17	7,723.57	155.81	42.95	91.08	-8,730.07	1,107.11	4,004.08	3,813.86	190.22	21.050		
18,400.00	7,630.00	8,088.84	7,718.25	157.31	42.94	91.00	-8,730.25	1,107.09	3,966.27	3,774.48	191.79	20.680		
18,500.00	7,630.00	8,083.66	7,713.07	158.81	42.93	90.92	-8,730.42	1,107.07	3,930.64	3,737.31	193.33	20.331		
18,600.00	7,630.00	8,078.62	7,708.03	160.32	42.92	90.84	-8,730.59	1,107.05	3,897.24	3,702.41	194.84	20.003		
18,700.00	7,630.00	8,073.71	7,703.13	161.84	42.91	90.76	-8,730.74	1,107.03	3,866.14	3,669.84	196.30	19.695		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
18,800.00	7,630.00	8,068.93	7,698.35	163.37	42.90	90.69	-8,730.90	1,107.02	3,837.39	3,639.67	197.72	19.409	
18,900.00	7,630.00	8,064.27	7,693.69	164.90	42.89	90.62	-8,731.04	1,107.00	3,811.04	3,611.97	199.08	19.144	
19,000.00	7,630.00	8,059.73	7,689.15	166.43	42.88	90.55	-8,731.18	1,106.99	3,787.15	3,586.77	200.37	18.900	
19,100.00	7,630.00	8,055.30	7,684.73	167.98	42.88	90.48	-8,731.32	1,106.98	3,765.76	3,564.15	201.60	18.679	
19,200.00	7,630.00	8,050.98	7,680.41	169.53	42.87	90.41	-8,731.45	1,106.97	3,746.91	3,544.15	202.76	18.480	
19,300.00	7,630.00	8,046.77	7,676.20	171.08	42.86	90.34	-8,731.58	1,106.96	3,730.64	3,526.81	203.83	18.302	
19,400.00	7,630.00	8,042.66	7,672.09	172.64	42.85	90.28	-8,731.70	1,106.96	3,716.99	3,512.17	204.82	18.147	
19,500.00	7,630.00	8,038.64	7,668.07	174.21	42.84	90.22	-8,731.81	1,106.95	3,705.99	3,500.27	205.72	18.015	
19,518.56	7,630.00	8,037.91	7,667.34	174.50	42.84	90.21	-8,731.83	1,106.95	3,704.24	3,498.36	205.88	17.992	CC, ES, SF

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	45.21	45.21	0.00	0.07	163.76	-7,154.09	2,083.59	7,451.36					
100.00	100.00	115.12	115.12	0.13	0.25	163.76	-7,153.87	2,083.70	7,451.16	7,450.77	0.39	N/A		
200.00	200.00	166.00	166.00	0.49	0.43	163.76	-7,154.22	2,083.37	7,451.62	7,450.70	0.92	8,081.012		
300.00	300.00	211.90	211.89	0.85	0.59	163.77	-7,154.94	2,082.83	7,452.78	7,451.33	1.44	5,166.544		
400.00	400.00	257.00	256.97	1.21	0.75	163.78	-7,155.99	2,082.17	7,454.63	7,452.67	1.96	3,804.514		
500.00	499.98	299.31	299.25	1.56	0.90	97.01	-7,157.38	2,081.29	7,457.45	7,454.99	2.47	3,024.093		
600.00	599.84	349.00	348.86	1.92	1.08	96.97	-7,159.66	2,079.72	7,461.53	7,458.53	3.00	2,487.556		
700.00	699.45	378.34	378.13	2.29	1.19	96.90	-7,161.32	2,078.55	7,466.81	7,463.33	3.47	2,150.342		
800.00	798.70	440.00	439.57	2.67	1.42	96.86	-7,165.54	2,075.54	7,473.42	7,469.34	4.08	1,832.199		
900.00	897.47	440.00	439.57	3.07	1.42	96.70	-7,165.54	2,075.54	7,481.14	7,476.66	4.48	1,670.396		
1,000.00	995.62	483.54	482.89	3.50	1.59	96.61	-7,169.15	2,073.17	7,490.20	7,485.13	5.07	1,478.038		
1,100.00	1,093.06	533.00	532.05	3.96	1.78	96.52	-7,173.93	2,070.52	7,500.70	7,494.99	5.71	1,313.347		
1,200.00	1,189.64	533.00	532.05	4.46	1.78	96.28	-7,173.93	2,070.52	7,512.40	7,506.20	6.20	1,210.889		
1,300.00	1,285.27	580.49	579.17	5.00	1.98	96.15	-7,179.18	2,067.73	7,525.40	7,518.48	6.92	1,087.028		
1,400.00	1,379.82	625.00	623.23	5.60	2.16	96.01	-7,184.67	2,064.65	7,539.70	7,532.02	7.68	982.162		
1,500.00	1,473.17	651.55	649.46	6.25	2.27	95.79	-7,188.20	2,062.58	7,555.21	7,546.79	8.41	897.948		
1,600.00	1,565.21	689.08	686.48	6.95	2.43	95.60	-7,193.47	2,059.35	7,571.93	7,562.69	9.25	818.672		
1,700.00	1,655.84	717.00	713.96	7.72	2.55	95.35	-7,197.61	2,056.71	7,589.88	7,579.78	10.10	751.439		
1,800.00	1,744.94	750.62	746.99	8.55	2.71	95.11	-7,202.87	2,053.28	7,609.08	7,598.04	11.04	689.258		
1,900.00	1,832.39	776.72	772.58	9.45	2.83	94.81	-7,207.20	2,050.46	7,629.57	7,617.56	12.01	635.505		
2,000.00	1,918.11	809.00	804.14	10.41	2.98	94.53	-7,212.84	2,046.78	7,651.36	7,638.30	13.06	585.907		
2,100.00	2,001.97	809.00	804.14	11.45	2.98	94.05	-7,212.84	2,046.78	7,674.45	7,660.42	14.03	546.910		
2,200.00	2,083.88	848.94	843.09	12.56	3.18	93.77	-7,220.25	2,041.94	7,698.70	7,683.45	15.25	504.811		
2,300.00	2,163.74	870.85	864.41	13.74	3.28	93.36	-7,224.52	2,039.16	7,724.25	7,707.80	16.45	469.635		
2,400.00	2,241.45	898.00	890.75	14.99	3.42	92.97	-7,229.99	2,035.60	7,751.03	7,733.30	17.73	437.189		
2,421.22	2,257.65	898.00	890.75	15.26	3.42	92.85	-7,229.99	2,035.60	7,756.86	7,738.88	17.98	431.380		
2,500.00	2,317.63	898.00	890.75	16.29	3.42	92.85	-7,229.99	2,035.60	7,778.99	7,760.06	18.93	411.010		
2,600.00	2,393.75	898.00	890.75	17.62	3.42	92.85	-7,229.99	2,035.60	7,808.13	7,788.00	20.13	387.895		
2,700.00	2,469.88	937.59	929.07	18.95	3.63	93.08	-7,238.44	2,030.35	7,838.03	7,816.50	21.53	364.111		
2,800.00	2,546.01	952.20	943.18	20.30	3.70	93.17	-7,241.71	2,028.43	7,869.14	7,846.34	22.80	345.152		
2,900.00	2,622.13	986.00	975.76	21.65	3.88	93.37	-7,249.59	2,024.02	7,901.37	7,877.21	24.16	327.023		
3,000.00	2,698.26	986.00	975.76	23.01	3.88	93.37	-7,249.59	2,024.02	7,934.44	7,909.09	25.35	312.976		
3,100.00	2,774.38	986.00	975.76	24.37	3.88	93.37	-7,249.59	2,024.02	7,968.63	7,942.09	26.53	300.322		
3,200.00	2,850.51	1,019.47	1,007.95	25.74	4.07	93.57	-7,257.73	2,019.81	8,003.71	7,975.83	27.88	287.120		
3,300.00	2,926.64	1,036.00	1,023.83	27.11	4.16	93.67	-7,261.84	2,017.81	8,039.77	8,010.64	29.13	276.033		
3,400.00	3,002.76	1,036.00	1,023.83	28.49	4.16	93.67	-7,261.84	2,017.81	8,076.86	8,046.58	30.28	266.742		
3,500.00	3,078.89	1,080.94	1,067.00	29.87	4.41	93.93	-7,273.30	2,012.83	8,114.65	8,082.99	31.65	256.376		
3,600.00	3,155.02	1,101.87	1,087.09	31.25	4.53	94.05	-7,278.78	2,010.75	8,153.44	8,120.54	32.89	247.880		
3,700.00	3,231.14	1,143.00	1,126.55	32.63	4.76	94.28	-7,289.81	2,007.13	8,193.18	8,158.95	34.23	239.341		
3,800.00	3,307.27	1,143.00	1,126.55	34.01	4.76	94.28	-7,289.81	2,007.13	8,233.65	8,198.31	35.34	232.970		
3,900.00	3,383.39	1,193.28	1,174.75	35.40	5.04	94.57	-7,303.55	2,003.14	8,274.93	8,238.23	36.70	225.448		
4,000.00	3,459.52	1,250.97	1,230.04	36.79	5.37	94.89	-7,319.39	1,998.67	8,316.85	8,278.76	38.10	218.300		
4,100.00	3,535.65	1,373.23	1,347.33	38.18	6.07	95.57	-7,352.58	1,989.19	8,359.15	8,319.32	39.83	209.869		
4,200.00	3,611.77	4,200.00	1,452.98	39.57	22.34	96.18	-7,381.50	1,980.11	8,401.32	8,348.14	53.18	157.976		
4,300.00	3,687.90	1,537.12	1,504.88	40.96	7.01	96.48	-7,395.58	1,975.45	8,443.97	8,401.12	42.85	197.075		
4,400.00	3,764.02	1,580.00	1,546.04	42.35	7.26	96.72	-7,406.93	1,971.54	8,487.34	8,443.21	44.13	192.320		
4,500.00	3,840.15	1,612.48	1,577.19	43.74	7.45	96.90	-7,415.61	1,968.46	8,531.39	8,486.04	45.35	188.122		
4,600.00	3,916.28	1,655.00	1,617.93	45.13	7.70	97.13	-7,427.04	1,964.26	8,576.09	8,529.48	46.61	183.980		
4,700.00	3,992.40	1,717.68	1,677.94	46.53	8.08	97.48	-7,443.96	1,957.80	8,621.37	8,573.39	47.98	179.676		
4,800.00	4,068.53	1,780.07	1,737.66	47.92	8.45	97.82	-7,460.75	1,951.19	8,667.10	8,617.76	49.34	175.657		
4,900.00	4,144.66	1,833.63	1,788.92	49.32	8.77	98.12	-7,475.17	1,945.43	8,713.36	8,662.72	50.64	172.065		
5,000.00	4,220.78	1,908.89	1,860.96	50.71	9.23	98.53	-7,495.42	1,937.36	8,760.09	8,708.03	52.05	168.290		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	1,963.49	1,913.25	52.11	9.56	98.83	-7,510.05	1,931.69	8,807.23	8,753.89	53.34	165.117		
5,200.00	4,373.03	2,180.55	2,121.79	53.51	10.84	99.98	-7,566.72	1,911.41	8,854.41	8,798.87	55.54	159.427		
5,300.00	4,449.16	2,191.00	2,131.85	54.90	10.90	100.04	-7,569.35	1,910.38	8,901.59	8,845.03	56.56	157.391		
5,400.00	4,525.29	2,236.98	2,176.04	56.30	11.17	100.28	-7,581.06	1,905.40	8,949.34	8,891.57	57.77	154.914		
5,500.00	4,601.41	2,263.86	2,256.92	57.70	30.83	100.74	-7,602.74	1,894.67	8,997.78	8,924.68	73.10	123.087		
5,600.00	4,677.54	2,410.04	2,341.98	59.10	12.21	101.22	-7,624.95	1,883.36	9,046.24	8,985.60	60.63	149.195		
5,700.00	4,753.66	2,453.00	2,383.19	60.49	12.46	101.44	-7,635.87	1,878.12	9,095.34	9,033.54	61.80	147.174		
5,800.00	4,829.79	2,500.00	2,534.31	61.89	31.91	102.26	-7,675.11	1,860.96	9,144.63	9,067.51	77.12	118.573		
5,900.00	4,905.92	2,656.92	2,579.44	63.29	13.66	102.50	-7,686.43	1,855.59	9,193.85	9,129.07	64.79	141.909		
6,000.00	4,982.04	2,673.86	2,595.74	64.69	13.76	102.59	-7,690.61	1,853.55	9,243.80	9,178.03	65.77	140.538		
6,100.00	5,058.17	2,714.00	2,634.25	66.09	14.00	102.80	-7,700.79	1,848.60	9,294.55	9,227.67	66.89	138.961		
6,200.00	5,134.30	2,714.00	2,634.25	67.49	14.00	102.80	-7,700.79	1,848.60	9,345.80	9,278.05	67.75	137.946		
6,300.00	5,210.42	2,762.27	2,762.27	68.89	35.21	103.48	-7,734.72	1,832.91	9,397.54	9,313.52	84.02	111.845		
6,400.00	5,286.55	2,800.00	2,800.00	70.29	35.55	104.10	-7,764.82	1,819.00	9,448.98	9,363.55	85.43	110.606		
6,500.00	5,362.67	3,006.78	2,915.74	71.69	15.73	104.29	-7,773.86	1,814.89	9,500.78	9,428.76	72.02	131.913		
6,600.00	5,438.80	3,032.12	2,940.14	73.09	15.88	104.41	-7,780.18	1,812.25	9,553.19	9,480.18	73.00	130.862		
6,700.00	5,514.93	3,064.00	2,970.81	74.49	16.06	104.57	-7,788.30	1,809.15	9,606.19	9,532.18	74.01	129.794		
6,800.00	5,591.05	3,108.99	3,014.08	75.89	16.33	104.79	-7,799.88	1,804.94	9,659.71	9,584.62	75.09	128.644		
6,900.00	5,667.18	3,163.49	3,066.49	77.29	16.65	105.05	-7,813.93	1,799.86	9,713.60	9,637.39	76.22	127.448		
7,000.00	5,743.30	3,204.84	3,106.24	78.69	16.90	105.25	-7,824.61	1,795.79	9,767.93	9,690.68	77.26	126.436		
7,100.00	5,819.43	3,247.11	3,146.81	80.09	17.15	105.46	-7,835.55	1,791.33	9,822.73	9,744.44	78.29	125.464		
7,200.00	5,895.56	3,296.07	3,193.79	81.49	17.44	105.69	-7,848.28	1,786.06	9,877.95	9,798.59	79.36	124.470		
7,300.00	5,971.68	3,346.33	3,242.02	82.90	17.74	105.94	-7,861.41	1,780.69	9,933.58	9,853.15	80.43	123.508		
7,400.00	6,047.81	3,398.95	3,292.50	84.30	18.06	106.19	-7,875.22	1,775.23	9,989.58	9,908.08	81.51	122.564		
10,000.00	7,630.00	7,722.66	7,554.78	107.67	34.74	88.22	-8,337.21	1,601.80	9,987.54	9,867.72	119.82	83.352		
10,100.00	7,630.00	7,724.40	7,556.52	107.38	34.75	88.25	-8,337.24	1,601.83	9,982.85	9,772.82	120.03	82.418		
10,200.00	7,630.00	7,726.15	7,558.26	107.10	34.75	88.28	-8,337.27	1,601.87	9,978.27	9,678.02	120.25	81.485		
10,300.00	7,630.00	7,727.89	7,560.01	106.84	34.76	88.31	-8,337.30	1,601.91	9,703.79	9,583.33	120.47	80.551		
10,400.00	7,630.00	7,729.64	7,561.75	106.59	34.76	88.35	-8,337.33	1,601.94	9,609.43	9,488.74	120.69	79.618		
10,500.00	7,630.00	7,731.39	7,563.50	106.35	34.77	88.38	-8,337.37	1,601.98	9,515.18	9,394.26	120.93	78.685		
10,600.00	7,630.00	7,733.14	7,565.25	106.13	34.77	88.41	-8,337.40	1,602.02	9,421.05	9,299.89	121.17	77.753		
10,700.00	7,630.00	7,734.89	7,567.00	105.92	34.78	88.44	-8,337.43	1,602.05	9,327.04	9,205.63	121.41	76.821		
10,800.00	7,630.00	7,736.64	7,568.75	105.72	34.78	88.47	-8,337.46	1,602.09	9,233.16	9,111.50	121.67	75.890		
10,900.00	7,630.00	7,738.39	7,570.50	105.54	34.79	88.50	-8,337.49	1,602.13	9,139.41	9,017.48	121.93	74.959		
11,000.00	7,630.00	7,740.15	7,572.26	105.37	34.79	88.53	-8,337.52	1,602.16	9,045.79	8,923.60	122.19	74.028		
11,100.00	7,630.00	7,741.90	7,574.01	105.21	34.79	88.57	-8,337.55	1,602.20	8,952.31	8,829.84	122.47	73.098		
11,200.00	7,630.00	7,743.66	7,575.77	105.06	34.80	88.60	-8,337.58	1,602.24	8,858.97	8,736.21	122.75	72.169		
11,300.00	7,630.00	7,745.42	7,577.53	104.93	34.80	88.63	-8,337.61	1,602.28	8,765.77	8,642.73	123.04	71.240		
11,400.00	7,630.00	7,747.18	7,579.29	104.82	34.81	88.66	-8,337.64	1,602.31	8,672.73	8,549.39	123.35	70.313		
11,500.00	7,630.00	7,748.94	7,581.05	104.72	34.81	88.69	-8,337.68	1,602.35	8,579.85	8,456.19	123.65	69.386		
11,600.00	7,630.00	7,750.71	7,582.81	104.63	34.82	88.72	-8,337.71	1,602.39	8,487.12	8,363.15	123.97	68.460		
11,700.00	7,630.00	7,752.47	7,584.58	104.55	34.82	88.76	-8,337.74	1,602.42	8,394.56	8,270.26	124.30	67.535		
11,800.00	7,630.00	7,754.24	7,586.34	104.50	34.83	88.79	-8,337.77	1,602.46	8,302.18	8,177.54	124.64	66.611		
11,900.00	7,630.00	7,756.01	7,588.11	104.45	34.83	88.82	-8,337.80	1,602.50	8,209.97	8,084.99	124.98	65.689		
12,000.00	7,630.00	7,757.78	7,589.88	104.43	34.84	88.85	-8,337.83	1,602.54	8,117.95	7,992.61	125.34	64.767		
12,100.00	7,630.00	7,759.55	7,591.65	104.42	34.84	88.88	-8,337.86	1,602.58	8,026.11	7,900.40	125.71	63.847		
12,200.00	7,630.00	7,761.32	7,593.42	104.42	34.85	88.91	-8,337.90	1,602.61	7,934.48	7,808.39	126.09	62.928		
12,300.00	7,630.00	7,763.10	7,595.20	104.45	34.85	88.95	-8,337.93	1,602.65	7,843.04	7,716.57	126.48	62.011		
12,400.00	7,630.00	7,764.87	7,596.97	104.49	34.86	88.98	-8,337.96	1,602.69	7,751.82	7,624.94	126.88	61.096		
12,500.00	7,630.00	7,766.65	7,598.75	104.55	34.86	89.01	-8,337.99	1,602.73	7,660.82	7,533.53	127.29	60.182		
12,600.00	7,630.00	7,768.43	7,600.53	104.63	34.87	89.04	-8,338.02	1,602.76	7,570.05	7,442.32	127.72	59.270		
12,700.00	7,630.00	7,770.21	7,602.30	104.73	34.87	89.07	-8,338.05	1,602.80	7,479.50	7,351.34	128.16	58.360		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
12,800.00	7,630.00	7,771.99	7,604.09	104.85	34.88	89.10	-8,338.09	1,602.84	7,389.21	7,260.59	128.62	57.452		
12,900.00	7,630.00	7,773.77	7,605.87	104.99	34.88	89.14	-8,338.12	1,602.88	7,299.16	7,170.08	129.08	56.546		
13,000.00	7,630.00	7,775.55	7,607.65	105.15	34.89	89.17	-8,338.15	1,602.92	7,209.38	7,079.81	129.57	55.642		
13,100.00	7,630.00	7,777.34	7,609.44	105.34	34.89	89.20	-8,338.18	1,602.96	7,119.87	6,989.81	130.06	54.742		
13,200.00	7,630.00	7,780.74	7,612.84	105.56	34.90	89.26	-8,338.24	1,603.03	7,030.64	6,900.06	130.58	53.840		
13,300.00	7,630.00	7,784.89	7,616.98	105.80	34.91	89.34	-8,338.31	1,603.12	6,941.70	6,810.58	131.12	52.940		
13,400.00	7,630.00	7,788.81	7,620.90	106.06	34.92	89.41	-8,338.38	1,603.20	6,853.07	6,721.39	131.68	52.043		
13,500.00	7,630.00	7,792.53	7,624.62	106.36	34.93	89.47	-8,338.44	1,603.28	6,764.76	6,632.50	132.25	51.150		
13,600.00	7,630.00	7,796.05	7,628.14	106.68	34.94	89.54	-8,338.50	1,603.35	6,676.77	6,543.93	132.84	50.261		
13,700.00	7,630.00	7,799.40	7,631.49	107.03	34.95	89.60	-8,338.55	1,603.42	6,589.12	6,455.67	133.45	49.376		
13,800.00	7,630.00	7,802.59	7,634.68	107.42	34.96	89.65	-8,338.60	1,603.48	6,501.83	6,367.76	134.07	48.494		
13,900.00	7,630.00	7,805.62	7,637.71	107.83	34.97	89.71	-8,338.64	1,603.54	6,414.91	6,280.20	134.72	47.617		
14,000.00	7,630.00	7,808.52	7,640.60	108.28	34.97	89.76	-8,338.68	1,603.60	6,328.38	6,193.00	135.38	46.744		
14,100.00	7,630.00	7,811.28	7,643.36	108.77	34.98	89.81	-8,338.72	1,603.66	6,242.25	6,106.18	136.07	45.876		
14,200.00	7,630.00	7,813.92	7,646.00	109.29	34.99	89.86	-8,338.76	1,603.71	6,156.54	6,019.76	136.77	45.013		
14,300.00	7,630.00	7,816.44	7,648.53	109.84	35.00	89.90	-8,338.79	1,603.76	6,071.26	5,933.76	137.50	44.155		
14,400.00	7,630.00	7,818.86	7,650.94	110.43	35.00	89.95	-8,338.83	1,603.81	5,986.44	5,848.19	138.25	43.302		
14,500.00	7,630.00	7,821.18	7,653.26	111.06	35.01	89.99	-8,338.86	1,603.85	5,902.09	5,763.07	139.02	42.455		
14,600.00	7,630.00	7,823.40	7,655.48	111.72	35.01	90.03	-8,338.88	1,603.90	5,818.24	5,678.42	139.82	41.613		
14,700.00	7,630.00	7,825.53	7,657.61	112.42	35.02	90.06	-8,338.91	1,603.94	5,734.91	5,594.27	140.64	40.777		
14,800.00	7,630.00	7,827.58	7,659.66	113.16	35.03	90.10	-8,338.94	1,603.98	5,652.11	5,510.63	141.49	39.948		
14,900.00	7,630.00	7,829.55	7,661.63	113.94	35.03	90.14	-8,338.96	1,604.02	5,569.88	5,427.52	142.36	39.125		
15,000.00	7,630.00	7,831.45	7,663.53	114.75	35.04	90.17	-8,338.98	1,604.05	5,488.24	5,344.98	143.26	38.310		
15,100.00	7,630.00	7,833.27	7,665.35	115.60	35.04	90.20	-8,339.00	1,604.09	5,407.22	5,263.03	144.19	37.501		
15,200.00	7,630.00	7,835.03	7,667.11	116.48	35.04	90.24	-8,339.02	1,604.12	5,326.84	5,181.70	145.14	36.701		
15,300.00	7,630.00	7,836.73	7,668.81	117.40	35.05	90.27	-8,339.04	1,604.15	5,247.14	5,101.01	146.13	35.908		
15,400.00	7,630.00	7,838.37	7,670.44	118.35	35.05	90.30	-8,339.06	1,604.18	5,168.14	5,021.00	147.14	35.123		
15,500.00	7,630.00	7,839.95	7,672.03	119.34	35.06	90.32	-8,339.08	1,604.21	5,089.88	4,941.69	148.19	34.348		
15,600.00	7,630.00	7,841.48	7,673.55	120.35	35.06	90.35	-8,339.09	1,604.24	5,012.39	4,863.13	149.26	33.581		
15,700.00	7,630.00	7,842.95	7,675.03	121.40	35.07	90.38	-8,339.11	1,604.27	4,935.71	4,785.34	150.37	32.824		
15,800.00	7,630.00	7,844.38	7,676.46	122.48	35.07	90.40	-8,339.12	1,604.30	4,859.88	4,708.37	151.50	32.077		
15,900.00	7,630.00	7,845.76	7,677.84	123.58	35.07	90.43	-8,339.14	1,604.32	4,784.94	4,632.26	152.67	31.341		
16,000.00	7,630.00	7,847.10	7,679.18	124.71	35.08	90.45	-8,339.15	1,604.35	4,710.92	4,557.05	153.87	30.615		
16,100.00	7,630.00	7,848.40	7,680.47	125.87	35.08	90.48	-8,339.16	1,604.37	4,637.88	4,482.78	155.11	29.901		
16,200.00	7,630.00	7,849.65	7,681.73	127.05	35.08	90.50	-8,339.17	1,604.39	4,565.87	4,409.50	156.37	29.199		
16,300.00	7,630.00	7,850.87	7,682.95	128.26	35.09	90.52	-8,339.18	1,604.41	4,494.92	4,337.26	157.67	28.509		
16,400.00	7,630.00	7,852.05	7,684.13	129.48	35.09	90.54	-8,339.20	1,604.44	4,425.10	4,266.11	158.99	27.832		
16,500.00	7,630.00	7,853.20	7,685.27	130.73	35.09	90.56	-8,339.21	1,604.46	4,356.45	4,196.10	160.35	27.169		
16,600.00	7,630.00	7,854.31	7,686.39	132.00	35.10	90.58	-8,339.22	1,604.48	4,289.04	4,127.30	161.73	26.519		
16,700.00	7,630.00	7,855.40	7,687.47	133.29	35.10	90.60	-8,339.23	1,604.50	4,222.91	4,059.77	163.15	25.884		
16,800.00	7,630.00	7,856.45	7,688.52	134.59	35.10	90.62	-8,339.24	1,604.52	4,158.14	3,993.56	164.58	25.264		
16,900.00	7,630.00	7,857.47	7,689.54	135.91	35.10	90.64	-8,339.24	1,604.53	4,094.79	3,928.74	166.05	24.660		
17,000.00	7,630.00	7,858.46	7,690.54	137.25	35.11	90.66	-8,339.25	1,604.55	4,032.93	3,865.39	167.53	24.072		
17,100.00	7,630.00	7,859.43	7,691.50	138.61	35.11	90.67	-8,339.26	1,604.57	3,972.61	3,803.57	169.04	23.501		
17,200.00	7,630.00	7,860.37	7,692.45	139.97	35.11	90.69	-8,339.27	1,604.59	3,913.92	3,743.37	170.56	22.948		
17,300.00	7,630.00	7,861.29	7,693.36	141.36	35.11	90.71	-8,339.28	1,604.60	3,856.94	3,684.85	172.09	22.412		
17,400.00	7,630.00	7,862.18	7,694.26	142.75	35.12	90.72	-8,339.28	1,604.62	3,801.73	3,628.09	173.63	21.895		
17,500.00	7,630.00	7,863.05	7,695.13	144.16	35.12	90.74	-8,339.29	1,604.63	3,748.37	3,573.19	175.18	21.397		
17,600.00	7,630.00	7,863.90	7,695.97	145.58	35.12	90.75	-8,339.30	1,604.65	3,696.95	3,520.23	176.72	20.919		
17,700.00	7,630.00	7,864.73	7,696.80	147.01	35.12	90.77	-8,339.30	1,604.66	3,647.54	3,469.28	178.26	20.462		
17,800.00	7,630.00	7,865.54	7,697.61	148.45	35.13	90.78	-8,339.31	1,604.68	3,600.24	3,420.45	179.79	20.025		
17,900.00	7,630.00	7,866.32	7,698.39	149.91	35.13	90.80	-8,339.32	1,604.69	3,555.12	3,373.83	181.29	19.610		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	
18,000.00	7,630.00	7,867.09	7,699.16	151.37	35.13	90.81	-8,339.32	1,604.70	3,512.27	3,329.50	182.77	19.217	
18,100.00	7,630.00	7,867.84	7,699.91	152.84	35.13	90.82	-8,339.33	1,604.72	3,471.77	3,287.55	184.21	18.846	
18,200.00	7,630.00	7,868.57	7,700.64	154.32	35.13	90.84	-8,339.33	1,604.73	3,433.70	3,248.09	185.62	18.499	
18,300.00	7,630.00	7,869.29	7,701.36	155.81	35.14	90.85	-8,339.34	1,604.74	3,398.16	3,211.19	186.97	18.175	
18,400.00	7,630.00	7,869.99	7,702.06	157.31	35.14	90.86	-8,339.34	1,604.76	3,365.21	3,176.94	188.26	17.875	
18,500.00	7,630.00	7,870.67	7,702.74	158.81	35.14	90.87	-8,339.35	1,604.77	3,334.93	3,145.44	189.49	17.600	
18,600.00	7,630.00	7,871.34	7,703.41	160.32	35.14	90.89	-8,339.35	1,604.78	3,307.40	3,116.76	190.64	17.349	
18,700.00	7,630.00	7,871.99	7,704.06	161.84	35.14	90.90	-8,339.36	1,604.79	3,282.69	3,090.98	191.71	17.124	
18,800.00	7,630.00	7,872.63	7,704.70	163.37	35.14	90.91	-8,339.36	1,604.80	3,260.85	3,068.17	192.68	16.924	
18,900.00	7,630.00	7,873.25	7,705.32	164.90	35.15	90.92	-8,339.36	1,604.81	3,241.96	3,048.40	193.56	16.749	
19,000.00	7,630.00	7,873.86	7,705.93	166.43	35.15	90.93	-8,339.37	1,604.82	3,226.06	3,031.73	194.32	16.601	
19,100.00	7,630.00	7,874.46	7,706.53	167.98	35.15	90.94	-8,339.37	1,604.83	3,213.19	3,018.21	194.98	16.480	
19,200.00	7,630.00	7,875.04	7,707.11	169.53	35.15	90.95	-8,339.38	1,604.84	3,203.39	3,007.87	195.52	16.384	
19,300.00	7,630.00	7,875.62	7,707.69	171.08	35.15	90.96	-8,339.38	1,604.85	3,196.69	3,000.76	195.93	16.315	
19,400.00	7,630.00	7,876.18	7,708.25	172.64	35.15	90.97	-8,339.38	1,604.86	3,193.12	2,996.89	196.22	16.273	
19,464.33	7,630.00	7,876.53	7,708.60	173.65	35.15	90.98	-8,339.39	1,604.87	3,192.47	2,996.13	196.34	16.260 CC, ES	
19,500.00	7,630.00	7,876.73	7,708.80	174.21	35.16	90.98	-8,339.39	1,604.87	3,192.67	2,996.28	196.38	16.257 SF	
19,518.56	7,630.00	7,876.83	7,708.90	174.50	35.16	90.99	-8,339.39	1,604.87	3,192.93	2,996.53	196.40	16.257	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	22.12	22.12	0.00	0.04	163.61	-7,110.82	2,091.67	7,412.07					
100.00	100.00	114.30	114.30	0.13	0.19	163.61	-7,110.80	2,092.00	7,412.15	7,411.83	0.32	N/A		
200.00	200.00	186.66	186.64	0.49	0.41	163.60	-7,110.62	2,093.30	7,412.44	7,411.54	0.90	8,233.442		
300.00	300.00	226.00	225.93	0.85	0.56	163.58	-7,110.32	2,095.22	7,413.24	7,411.84	1.40	5,289.377		
400.00	400.00	265.64	265.48	1.21	0.71	163.56	-7,110.09	2,098.01	7,414.86	7,412.95	1.91	3,883.389		
500.00	499.98	318.00	317.60	1.56	0.91	96.75	-7,110.29	2,102.94	7,417.84	7,415.38	2.46	3,015.046		
600.00	599.84	327.05	326.60	1.92	0.94	96.67	-7,110.38	2,103.92	7,421.90	7,419.05	2.85	2,602.524		
700.00	699.45	395.03	394.14	2.29	1.20	96.56	-7,111.10	2,111.56	7,427.14	7,423.66	3.48	2,133.089		
800.00	798.70	940.00	927.25	2.67	3.79	96.17	-7,084.72	2,216.99	7,427.15	7,420.71	6.44	1,152.827		
900.00	897.47	996.38	981.48	3.07	4.11	96.10	-7,079.52	2,231.52	7,427.64	7,420.48	7.17	1,036.489		
1,000.00	995.62	1,054.27	1,037.07	3.50	4.44	96.03	-7,074.53	2,246.88	7,429.21	7,421.29	7.93	937.136		
1,100.00	1,093.06	1,136.13	1,115.84	3.96	4.91	95.95	-7,067.90	2,268.14	7,431.53	7,422.67	8.86	838.688		
1,200.00	1,189.64	1,224.94	1,201.52	4.46	5.42	95.89	-7,061.05	2,290.47	7,434.34	7,424.47	9.87	753.169		
1,300.00	1,285.27	1,295.00	1,268.69	5.00	5.83	95.83	-7,055.49	2,309.58	7,437.89	7,427.06	10.83	686.793		
1,400.00	1,379.82	1,411.28	1,379.97	5.60	6.54	95.78	-7,046.06	2,341.97	7,441.83	7,429.70	12.13	613.474		
1,500.00	1,473.17	1,469.00	1,435.35	6.25	6.89	95.73	-7,041.50	2,357.58	7,446.18	7,433.05	13.12	567.397		
1,600.00	1,565.21	1,532.17	1,495.97	6.95	7.27	95.68	-7,036.84	2,374.72	7,451.39	7,437.19	14.21	524.530		
1,700.00	1,655.84	1,632.84	1,592.52	7.72	7.88	95.67	-7,029.95	2,402.40	7,457.51	7,441.93	15.58	478.701		
1,800.00	1,744.94	1,754.30	1,708.75	8.55	8.63	95.71	-7,020.96	2,436.47	7,463.64	7,446.48	17.15	435.112		
1,900.00	1,832.39	1,884.11	1,833.10	9.45	9.42	95.80	-7,011.10	2,472.39	7,469.90	7,451.06	18.84	396.440		
2,000.00	1,918.11	1,982.75	1,927.82	10.41	10.02	95.86	-7,003.51	2,498.87	7,476.23	7,455.83	20.40	366.519		
2,100.00	2,001.97	2,099.66	2,040.11	11.45	10.72	95.99	-6,994.40	2,530.07	7,482.89	7,460.76	22.13	338.126		
2,200.00	2,083.88	2,168.00	2,105.79	12.56	11.13	96.01	-6,989.08	2,548.19	7,490.02	7,466.39	23.64	316.873		
2,300.00	2,163.74	2,222.83	2,158.47	13.74	11.46	96.00	-6,985.02	2,562.86	7,498.09	7,472.96	25.13	298.326		
2,400.00	2,241.45	2,400.00	2,249.19	14.99	12.57	96.09	-6,978.08	2,589.36	7,507.04	7,479.57	27.47	273.244		
2,421.22	2,257.65	2,407.86	2,335.46	15.26	12.61	96.32	-6,970.85	2,614.87	7,508.87	7,481.07	27.80	270.138		
2,500.00	2,317.63	2,430.00	2,356.71	16.29	12.75	96.39	-6,969.04	2,620.82	7,515.70	7,486.75	28.95	259.616		
2,600.00	2,393.75	2,482.91	2,407.48	17.62	13.08	96.55	-6,964.99	2,635.20	7,525.00	7,494.42	30.58	246.111		
2,700.00	2,469.88	2,517.00	2,440.09	18.95	13.29	96.66	-6,962.68	2,644.83	7,535.32	7,503.23	32.09	234.811		
2,800.00	2,546.01	2,557.10	2,478.44	20.30	13.54	96.78	-6,960.22	2,656.28	7,546.50	7,512.85	33.65	224.255		
2,900.00	2,622.13	2,604.00	2,523.36	21.65	13.83	96.92	-6,957.68	2,669.54	7,558.47	7,523.21	35.26	214.375		
3,000.00	2,698.26	2,699.76	2,614.80	23.01	14.43	97.20	-6,952.56	2,697.49	7,570.91	7,533.72	37.19	203.560		
3,100.00	2,774.38	2,817.26	2,727.25	24.37	15.17	97.55	-6,946.24	2,730.96	7,583.40	7,544.13	39.27	193.131		
3,200.00	2,850.51	2,904.16	2,810.43	25.74	15.71	97.81	-6,941.25	2,755.60	7,595.71	7,554.58	41.14	184.641		
3,300.00	2,926.64	2,964.65	2,868.31	27.11	16.09	97.99	-6,938.04	2,772.89	7,608.64	7,565.80	42.84	177.600		
3,400.00	3,002.76	3,179.51	3,073.68	28.49	17.44	98.63	-6,924.47	2,834.56	7,620.57	7,575.00	45.56	167.247		
3,500.00	3,078.89	3,258.52	3,149.11	29.87	17.94	98.86	-6,919.19	2,857.47	7,632.73	7,585.34	47.40	161.041		
3,600.00	3,155.02	3,352.75	3,239.58	31.25	18.51	99.14	-6,913.08	2,883.06	7,644.94	7,595.64	49.30	155.065		
3,700.00	3,231.14	3,517.99	3,400.11	32.63	19.41	99.69	-6,903.16	2,920.92	7,657.09	7,605.54	51.55	148.544		
3,800.00	3,307.27	3,603.38	3,483.71	34.01	19.84	99.99	-6,898.14	2,937.54	7,668.97	7,615.68	53.29	143.898		
3,900.00	3,383.39	3,675.80	3,554.95	35.40	20.17	100.26	-6,894.30	2,949.95	7,681.25	7,626.30	54.95	139.791		
4,000.00	3,459.52	3,742.38	3,620.68	36.79	20.46	100.51	-6,891.16	2,960.10	7,694.05	7,637.50	56.55	136.054		
4,100.00	3,535.65	3,830.67	3,708.11	38.18	20.82	100.86	-6,887.40	2,971.79	7,707.28	7,649.06	58.22	132.384		
4,200.00	3,611.77	3,929.78	3,806.54	39.57	21.19	101.27	-6,883.40	2,982.67	7,720.71	7,660.81	59.90	128.903		
4,300.00	3,687.90	3,994.56	3,870.99	40.96	21.42	101.54	-6,881.00	2,988.70	7,734.58	7,673.16	61.42	125.930		
4,400.00	3,764.02	4,075.97	3,952.09	42.35	21.69	101.88	-6,878.25	2,995.27	7,748.95	7,685.97	62.98	123.029		
4,500.00	3,840.15	4,141.18	4,017.10	43.74	21.90	102.16	-6,876.19	2,999.88	7,763.80	7,699.32	64.48	120.411		
4,600.00	3,916.28	4,218.60	4,094.34	45.13	22.15	102.50	-6,874.00	3,004.70	7,779.22	7,713.22	66.00	117.870		
4,700.00	3,992.40	4,306.20	4,181.78	46.53	22.42	102.88	-6,871.51	3,009.58	7,794.97	7,727.44	67.54	115.415		
4,800.00	4,068.53	4,398.88	4,274.30	47.92	22.70	103.29	-6,868.88	3,014.15	7,811.12	7,742.04	69.08	113.068		
4,900.00	4,144.66	4,499.06	4,374.32	49.32	23.00	103.73	-6,865.79	3,018.93	7,827.47	7,756.83	70.64	110.804		
5,000.00	4,220.78	4,593.65	4,468.77	50.71	23.28	104.14	-6,862.71	3,023.03	7,844.10	7,771.92	72.18	108.681		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,100.00	4,296.91	4,673.35	4,548.36	52.11	23.52	104.49	-6,860.06	3,026.16	7,861.06	7,787.41	73.65	106.735		
5,200.00	4,373.03	4,749.16	4,624.09	53.51	23.74	104.83	-6,857.60	3,028.87	7,878.50	7,803.39	75.10	104.900		
5,300.00	4,449.16	4,871.82	4,746.61	54.90	24.10	105.37	-6,853.45	3,032.81	7,896.28	7,819.59	76.69	102.964		
5,400.00	4,525.29	4,997.37	4,872.00	56.30	24.46	105.92	-6,848.27	3,036.51	7,913.82	7,835.55	78.27	101.110		
5,500.00	4,601.41	5,073.34	4,947.88	57.70	24.68	106.26	-6,845.03	3,038.36	7,931.70	7,852.01	79.69	99.527		
5,600.00	4,677.54	5,148.72	5,023.18	59.10	24.90	106.59	-6,841.86	3,039.82	7,950.05	7,868.94	81.11	98.018		
5,700.00	4,753.66	5,177.10	5,051.54	60.49	24.98	106.72	-6,840.81	3,040.31	7,969.14	7,886.77	82.37	96.743		
5,800.00	4,829.79	5,212.10	5,086.51	61.89	25.07	106.87	-6,839.66	3,040.90	7,989.09	7,905.44	83.65	95.507		
5,900.00	4,905.92	5,246.95	5,121.35	63.29	25.17	107.03	-6,838.71	3,041.46	8,009.90	7,924.99	84.91	94.332		
6,000.00	4,982.04	5,310.00	5,184.37	64.69	25.35	107.31	-6,837.47	3,042.43	8,031.68	7,945.43	86.25	93.123		
6,100.00	5,058.17	5,310.00	5,184.37	66.09	25.35	107.31	-6,837.47	3,042.43	8,054.09	7,966.71	87.38	92.172		
6,200.00	5,134.30	5,352.97	5,227.34	67.49	25.46	107.50	-6,836.96	3,043.07	8,077.43	7,988.80	88.63	91.135		
6,300.00	5,210.42	5,389.27	5,263.63	68.89	25.56	107.66	-6,836.73	3,043.63	8,101.60	8,011.74	89.85	90.168		
6,400.00	5,286.55	5,425.47	5,299.83	70.29	25.66	107.82	-6,836.68	3,044.20	8,126.58	8,035.52	91.06	89.247		
6,500.00	5,362.67	5,485.00	5,359.35	71.69	25.82	108.08	-6,837.00	3,045.18	8,152.44	8,060.11	92.33	88.298		
6,600.00	5,438.80	5,510.22	5,384.57	73.09	25.89	108.19	-6,837.24	3,045.58	8,178.94	8,085.47	93.47	87.500		
6,700.00	5,514.93	5,582.13	5,456.46	74.49	26.08	108.51	-6,837.96	3,046.59	8,206.04	8,111.28	94.76	86.597		
6,800.00	5,591.05	5,600.00	5,647.64	75.89	29.34	109.35	-6,838.35	3,048.21	8,232.82	8,133.62	99.21	82.988		
6,900.00	5,667.18	5,950.77	5,825.06	77.29	27.07	110.12	-6,836.11	3,049.26	8,258.76	8,160.72	98.04	84.237		
7,000.00	5,743.30	6,017.99	5,892.28	78.69	27.26	110.41	-6,835.07	3,049.60	8,285.17	8,185.87	99.30	83.438		
7,100.00	5,819.43	6,096.30	5,970.57	80.09	27.48	110.75	-6,833.90	3,049.95	8,312.02	8,211.44	100.58	82.641		
7,200.00	5,895.56	6,174.52	6,048.78	81.49	27.70	111.09	-6,832.71	3,050.24	8,339.27	8,237.42	101.85	81.875		
7,300.00	5,971.68	6,265.85	6,140.10	82.90	27.95	111.48	-6,831.23	3,050.48	8,366.85	8,263.69	103.16	81.106		
7,400.00	6,047.81	6,358.69	6,232.93	84.30	28.21	111.88	-6,829.54	3,050.59	8,394.68	8,290.22	104.46	80.362		
7,500.00	6,123.94	6,450.90	6,325.12	85.70	28.47	112.28	-6,827.68	3,050.65	8,422.77	8,317.02	105.75	79.646		
7,600.00	6,200.06	6,544.32	6,418.51	87.10	28.74	112.67	-6,825.63	3,050.75	8,451.11	8,344.07	107.04	78.952		
7,700.00	6,276.19	6,646.35	6,520.52	88.50	29.03	113.10	-6,823.15	3,051.02	8,479.65	8,371.29	108.35	78.260		
7,800.00	6,352.31	6,733.91	6,608.04	89.90	29.29	113.47	-6,820.81	3,051.45	8,508.36	8,398.75	109.61	77.624		
7,900.00	6,428.44	6,799.78	6,673.89	91.31	29.48	113.74	-6,819.08	3,051.80	8,537.50	8,426.71	110.79	77.059		
8,000.00	6,504.57	6,865.58	6,739.67	92.71	29.67	114.02	-6,817.44	3,052.13	8,567.11	8,455.15	111.96	76.518		
8,100.00	6,580.69	6,925.07	6,799.15	94.11	29.85	114.26	-6,816.05	3,052.42	8,597.22	8,484.12	113.10	76.012		
8,200.00	6,656.82	6,982.37	6,856.42	95.51	30.02	114.50	-6,814.84	3,052.66	8,627.87	8,513.64	114.23	75.533		
8,300.00	6,732.95	7,039.52	6,913.57	96.91	30.19	114.73	-6,813.76	3,052.86	8,659.05	8,543.71	115.34	75.074		
8,400.00	6,809.07	7,104.59	6,978.63	98.32	30.38	115.00	-6,812.65	3,053.08	8,690.75	8,574.28	116.47	74.615		
8,500.00	6,885.20	7,173.00	7,047.03	99.72	30.58	115.28	-6,811.57	3,053.40	8,722.88	8,605.27	117.61	74.167		
8,600.00	6,961.32	7,241.12	7,115.14	101.12	30.78	115.55	-6,810.58	3,053.82	8,755.43	8,636.69	118.74	73.736		
8,700.00	7,037.45	7,307.05	7,181.07	102.52	30.98	115.82	-6,809.69	3,054.24	8,788.42	8,668.56	119.85	73.326		
8,732.15	7,061.92	7,328.23	7,202.24	102.97	31.04	115.90	-6,809.42	3,054.37	8,799.11	8,678.90	120.21	73.198		
8,750.00	7,075.57	7,340.03	7,214.03	103.22	31.08	113.85	-6,809.28	3,054.43	8,804.81	8,684.40	120.41	73.124		
8,800.00	7,114.27	7,373.44	7,247.45	103.91	31.18	107.85	-6,808.88	3,054.62	8,818.04	8,697.06	120.98	72.889		
8,850.00	7,153.47	7,407.64	7,281.65	104.58	31.28	101.61	-6,808.49	3,054.80	8,827.18	8,705.61	121.57	72.613		
8,900.00	7,192.85	7,453.72	7,327.72	105.21	31.42	95.34	-6,807.96	3,055.05	8,832.13	8,709.92	122.20	72.273		
8,950.00	7,232.12	7,499.66	7,373.66	105.80	31.56	89.19	-6,807.41	3,055.34	8,832.84	8,709.99	122.85	71.902		
9,000.00	7,270.99	7,545.11	7,419.10	106.35	31.70	83.38	-6,806.83	3,055.67	8,829.31	8,705.84	123.48	71.505		
9,050.00	7,309.16	7,589.71	7,463.70	106.85	31.84	78.05	-6,806.24	3,056.02	8,821.58	8,697.48	124.10	71.086		
9,100.00	7,346.32	7,621.26	7,495.24	107.30	31.93	73.24	-6,805.83	3,056.28	8,809.73	8,685.08	124.65	70.675		
9,150.00	7,382.22	7,653.77	7,527.75	107.69	32.03	69.08	-6,805.41	3,056.54	8,793.86	8,668.68	125.19	70.246		
9,200.00	7,416.56	7,684.84	7,558.82	108.02	32.13	65.57	-6,805.03	3,056.79	8,774.09	8,648.40	125.69	69.806		
9,250.00	7,449.09	7,714.23	7,588.21	108.29	32.22	62.70	-6,804.67	3,057.03	8,750.56	8,624.40	126.16	69.359		
9,300.00	7,479.56	7,741.73	7,615.70	108.51	32.30	60.46	-6,804.35	3,057.25	8,723.45	8,596.85	126.60	68.907		
9,350.00	7,507.74	7,768.17	7,642.14	108.68	32.38	58.83	-6,804.05	3,057.47	8,692.93	8,565.94	127.00	68.450		
9,400.00	7,533.41	7,793.28	7,667.25	108.79	32.46	57.82	-6,803.77	3,057.69	8,659.24	8,531.88	127.36	67.990		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,450.00	7,556.39	7,815.70	7,689.67	108.86	32.53	57.47	-6,803.52	3,057.89	8,622.61	8,494.93	127.68	67.532		
9,500.00	7,576.48	7,835.26	7,709.22	108.88	32.59	57.84	-6,803.31	3,058.08	8,583.31	8,455.34	127.96	67.077		
9,550.00	7,593.55	7,851.80	7,725.75	108.86	32.64	59.08	-6,803.13	3,058.24	8,541.61	8,413.41	128.20	66.627		
9,600.00	7,607.46	7,865.18	7,739.13	108.80	32.68	61.46	-6,802.98	3,058.38	8,497.84	8,369.44	128.40	66.183		
9,650.00	7,618.11	7,875.29	7,749.25	108.71	32.71	65.48	-6,802.87	3,058.49	8,452.29	8,323.73	128.56	65.746		
9,700.00	7,625.41	7,882.07	7,756.02	108.59	32.74	72.07	-6,802.80	3,058.56	8,405.32	8,276.63	128.68	65.317		
9,750.00	7,629.30	7,885.44	7,759.39	108.45	32.75	82.99	-6,802.77	3,058.60	8,357.25	8,228.48	128.78	64.898		
9,781.81	7,630.00	7,885.80	7,759.75	108.35	32.75	93.47	-6,802.76	3,058.60	8,326.27	8,197.45	128.82	64.636		
9,800.00	7,630.00	7,885.60	7,759.56	108.29	32.75	93.46	-6,802.76	3,058.60	8,308.48	8,179.64	128.84	64.487		
9,900.00	7,630.00	7,884.54	7,758.50	107.97	32.74	93.43	-6,802.78	3,058.59	8,210.74	8,081.79	128.96	63.671		
10,000.00	7,630.00	7,883.48	7,757.44	107.67	32.74	93.40	-6,802.79	3,058.58	8,113.06	7,983.98	129.08	62.855		
10,100.00	7,630.00	7,882.42	7,756.38	107.38	32.74	93.36	-6,802.80	3,058.57	8,015.43	7,886.24	129.20	62.040		
10,200.00	7,630.00	7,881.36	7,755.31	107.10	32.73	93.33	-6,802.81	3,058.55	7,917.87	7,788.54	129.33	61.224		
10,300.00	7,630.00	7,880.30	7,754.25	106.84	32.73	93.29	-6,802.82	3,058.54	7,820.36	7,690.90	129.46	60.409		
10,400.00	7,630.00	7,879.23	7,753.19	106.59	32.73	93.26	-6,802.83	3,058.53	7,722.92	7,593.33	129.59	59.594		
10,500.00	7,630.00	7,878.17	7,752.12	106.35	32.72	93.22	-6,802.84	3,058.52	7,625.54	7,495.81	129.73	58.780		
10,600.00	7,630.00	7,877.10	7,751.05	106.13	32.72	93.19	-6,802.85	3,058.51	7,528.23	7,398.36	129.87	57.966		
10,700.00	7,630.00	7,876.03	7,749.99	105.92	32.72	93.15	-6,802.87	3,058.50	7,431.00	7,300.98	130.02	57.152		
10,800.00	7,630.00	7,874.96	7,748.92	105.72	32.71	93.12	-6,802.88	3,058.49	7,333.84	7,203.66	130.17	56.339		
10,900.00	7,630.00	7,873.89	7,747.85	105.54	32.71	93.08	-6,802.89	3,058.47	7,236.75	7,106.42	130.33	55.526		
11,000.00	7,630.00	7,872.82	7,746.78	105.37	32.71	93.05	-6,802.90	3,058.46	7,139.75	7,009.25	130.49	54.713		
11,100.00	7,630.00	7,871.75	7,745.70	105.21	32.70	93.01	-6,802.91	3,058.45	7,042.82	6,912.16	130.66	53.901		
11,200.00	7,630.00	7,870.67	7,744.63	105.06	32.70	92.98	-6,802.92	3,058.44	6,945.99	6,815.16	130.83	53.090		
11,300.00	7,630.00	7,869.60	7,743.55	104.93	32.70	92.94	-6,802.93	3,058.43	6,849.25	6,718.23	131.01	52.279		
11,400.00	7,630.00	7,868.52	7,742.48	104.82	32.69	92.90	-6,802.95	3,058.42	6,752.60	6,621.40	131.20	51.469		
11,500.00	7,630.00	7,867.44	7,741.40	104.72	32.69	92.87	-6,802.96	3,058.41	6,656.05	6,524.66	131.39	50.660		
11,600.00	7,630.00	7,866.36	7,740.32	104.63	32.69	92.83	-6,802.97	3,058.39	6,559.60	6,428.02	131.58	49.851		
11,700.00	7,630.00	7,865.28	7,739.24	104.55	32.68	92.80	-6,802.98	3,058.38	6,463.26	6,331.48	131.79	49.043		
11,800.00	7,630.00	7,864.20	7,738.16	104.50	32.68	92.76	-6,802.99	3,058.37	6,367.04	6,235.04	132.00	48.236		
11,900.00	7,630.00	7,863.12	7,737.08	104.45	32.68	92.73	-6,803.00	3,058.36	6,270.93	6,138.72	132.21	47.430		
12,000.00	7,630.00	7,862.04	7,735.99	104.43	32.67	92.69	-6,803.03	3,058.35	6,174.95	6,042.51	132.44	46.625		
12,100.00	7,630.00	7,860.95	7,734.91	104.42	32.67	92.66	-6,803.03	3,058.34	6,079.09	5,946.42	132.67	45.821		
12,200.00	7,630.00	7,859.87	7,733.82	104.42	32.67	92.62	-6,803.04	3,058.33	5,983.37	5,850.46	132.91	45.018		
12,300.00	7,630.00	7,858.78	7,732.74	104.45	32.66	92.59	-6,803.05	3,058.32	5,887.79	5,754.63	133.16	44.215		
12,400.00	7,630.00	7,857.69	7,731.65	104.49	32.66	92.55	-6,803.06	3,058.30	5,792.36	5,658.94	133.42	43.415		
12,500.00	7,630.00	7,856.60	7,730.56	104.55	32.66	92.51	-6,803.07	3,058.29	5,697.09	5,563.40	133.69	42.615		
12,600.00	7,630.00	7,855.51	7,729.47	104.63	32.65	92.48	-6,803.09	3,058.28	5,601.98	5,468.02	133.96	41.817		
12,700.00	7,630.00	7,854.42	7,728.37	104.73	32.65	92.44	-6,803.10	3,058.27	5,507.05	5,372.80	134.25	41.020		
12,800.00	7,630.00	7,853.32	7,727.28	104.85	32.65	92.41	-6,803.11	3,058.26	5,412.30	5,277.75	134.55	40.225		
12,900.00	7,630.00	7,852.23	7,726.19	104.99	32.64	92.37	-6,803.12	3,058.25	5,317.74	5,182.88	134.86	39.432		
13,000.00	7,630.00	7,851.13	7,725.09	105.15	32.64	92.33	-6,803.13	3,058.24	5,223.38	5,088.20	135.18	38.640		
13,100.00	7,630.00	7,850.04	7,723.99	105.34	32.64	92.30	-6,803.15	3,058.23	5,129.24	4,993.72	135.51	37.850		
13,200.00	7,630.00	7,848.94	7,722.90	105.56	32.63	92.26	-6,803.16	3,058.22	5,035.32	4,899.46	135.86	37.062		
13,300.00	7,630.00	7,847.84	7,721.80	105.80	32.63	92.23	-6,803.17	3,058.20	4,941.64	4,805.42	136.22	36.277		
13,400.00	7,630.00	7,846.74	7,720.70	106.06	32.63	92.19	-6,803.18	3,058.19	4,848.21	4,711.61	136.60	35.493		
13,500.00	7,630.00	7,845.64	7,719.59	106.36	32.62	92.15	-6,803.19	3,058.18	4,755.05	4,618.06	136.99	34.712		
13,600.00	7,630.00	7,844.53	7,718.49	106.68	32.62	92.12	-6,803.21	3,058.17	4,662.17	4,524.78	137.39	33.934		
13,700.00	7,630.00	7,843.43	7,717.39	107.03	32.62	92.08	-6,803.22	3,058.16	4,569.59	4,431.78	137.81	33.158		
13,800.00	7,630.00	7,842.32	7,716.28	107.42	32.61	92.05	-6,803.23	3,058.15	4,477.34	4,339.08	138.25	32.386		
13,900.00	7,630.00	7,841.21	7,715.17	107.83	32.61	92.01	-6,803.24	3,058.14	4,385.42	4,246.71	138.71	31.616		
14,000.00	7,630.00	7,840.11	7,714.06	108.28	32.61	91.97	-6,803.25	3,058.13	4,293.86	4,154.67	139.18	30.850		
14,100.00	7,630.00	7,839.00	7,712.96	108.77	32.60	91.94	-6,803.27	3,058.12	4,202.68	4,063.00	139.68	30.088		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,630.00	7,837.89	7,711.84	109.29	32.60	91.90	-6,803.28	3,058.11	4,111.92	3,971.72	140.20	29.329		
14,300.00	7,630.00	7,836.77	7,710.73	109.84	32.60	91.86	-6,803.29	3,058.09	4,021.59	3,880.86	140.74	28.575		
14,400.00	7,630.00	7,835.66	7,709.62	110.43	32.59	91.83	-6,803.30	3,058.08	3,931.74	3,790.44	141.30	27.825		
14,500.00	7,630.00	7,834.55	7,708.51	111.06	32.59	91.79	-6,803.31	3,058.07	3,842.38	3,700.49	141.89	27.080		
14,600.00	7,630.00	7,833.43	7,707.39	111.72	32.58	91.75	-6,803.33	3,058.06	3,753.56	3,611.06	142.50	26.341		
14,700.00	7,630.00	7,832.31	7,706.27	112.42	32.58	91.72	-6,803.34	3,058.05	3,665.31	3,522.18	143.14	25.607		
14,800.00	7,630.00	7,831.19	7,705.15	113.16	32.58	91.68	-6,803.35	3,058.04	3,577.69	3,433.88	143.81	24.879		
14,900.00	7,630.00	7,830.08	7,704.03	113.94	32.57	91.64	-6,803.36	3,058.03	3,490.73	3,346.22	144.50	24.157		
15,000.00	7,630.00	7,828.95	7,702.91	114.75	32.57	91.61	-6,803.38	3,058.02	3,404.48	3,259.25	145.23	23.443		
15,100.00	7,630.00	7,827.83	7,701.79	115.60	32.57	91.57	-6,803.39	3,058.01	3,319.01	3,173.02	145.98	22.736		
15,200.00	7,630.00	7,826.71	7,700.67	116.48	32.56	91.53	-6,803.40	3,058.00	3,234.36	3,087.59	146.77	22.037		
15,300.00	7,630.00	7,825.58	7,699.54	117.40	32.56	91.50	-6,803.41	3,057.99	3,150.62	3,003.03	147.59	21.347		
15,400.00	7,630.00	7,824.46	7,698.42	118.35	32.56	91.46	-6,803.42	3,057.98	3,067.85	2,919.41	148.44	20.667		
15,500.00	7,630.00	7,823.33	7,697.29	119.34	32.55	91.42	-6,803.44	3,057.96	2,986.14	2,836.81	149.33	19.997		
15,600.00	7,630.00	7,822.20	7,696.16	120.35	32.55	91.38	-6,803.45	3,057.95	2,905.57	2,755.32	150.25	19.338		
15,700.00	7,630.00	7,821.07	7,695.03	121.40	32.55	91.35	-6,803.46	3,057.94	2,826.24	2,675.04	151.20	18.692		
15,800.00	7,630.00	7,819.94	7,693.90	122.48	32.54	91.31	-6,803.47	3,057.93	2,748.26	2,596.07	152.19	18.058		
15,900.00	7,630.00	7,818.81	7,692.77	123.58	32.54	91.27	-6,803.49	3,057.92	2,671.74	2,518.54	153.20	17.439		
16,000.00	7,630.00	7,817.68	7,691.64	124.71	32.54	91.24	-6,803.50	3,057.91	2,596.83	2,442.58	154.25	16.835		
16,100.00	7,630.00	7,816.54	7,690.50	125.87	32.53	91.20	-6,803.51	3,057.90	2,523.65	2,368.33	155.32	16.249		
16,200.00	7,630.00	7,815.40	7,689.36	127.05	32.53	91.16	-6,803.52	3,057.89	2,452.36	2,295.96	156.40	15.680		
16,300.00	7,630.00	7,814.27	7,688.23	128.26	32.53	91.12	-6,803.54	3,057.88	2,383.14	2,225.64	157.50	15.131		
16,400.00	7,630.00	7,813.13	7,687.09	129.48	32.52	91.09	-6,803.55	3,057.87	2,316.17	2,157.56	158.61	14.603		
16,500.00	7,630.00	7,811.99	7,685.95	130.73	32.52	91.05	-6,803.56	3,057.86	2,251.65	2,091.94	159.71	14.098		
16,600.00	7,630.00	7,810.85	7,684.81	132.00	32.51	91.01	-6,803.57	3,057.85	2,189.80	2,029.00	160.80	13.618		
16,700.00	7,630.00	7,809.70	7,683.66	133.29	32.51	90.97	-6,803.59	3,057.84	2,130.84	1,968.99	161.85	13.165		
16,800.00	7,630.00	7,808.56	7,682.52	134.59	32.51	90.94	-6,803.60	3,057.83	2,075.03	1,912.17	162.86	12.741		
16,900.00	7,630.00	7,807.41	7,681.38	135.91	32.50	90.90	-6,803.61	3,057.81	2,022.63	1,858.83	163.80	12.348		
17,000.00	7,630.00	7,806.27	7,680.23	137.25	32.50	90.86	-6,803.63	3,057.80	1,973.90	1,809.25	164.65	11.989		
17,100.00	7,630.00	7,805.12	7,679.08	138.61	32.50	90.82	-6,803.64	3,057.79	1,929.13	1,763.74	165.39	11.664		
17,200.00	7,630.00	7,803.97	7,677.93	139.97	32.49	90.79	-6,803.65	3,057.78	1,888.60	1,722.61	165.99	11.378		
17,300.00	7,630.00	7,802.82	7,676.78	141.36	32.49	90.75	-6,803.66	3,057.77	1,852.58	1,686.16	166.43	11.132		
17,400.00	7,630.00	7,801.67	7,675.63	142.75	32.49	90.71	-6,803.68	3,057.76	1,821.35	1,654.68	166.68	10.928		
17,500.00	7,630.00	7,800.51	7,674.48	144.16	32.48	90.67	-6,803.69	3,057.75	1,795.15	1,628.44	166.71	10.768		
17,600.00	7,630.00	7,799.36	7,673.32	145.58	32.48	90.63	-6,803.70	3,057.74	1,774.21	1,607.69	166.52	10.655		
17,700.00	7,630.00	7,798.20	7,672.17	147.01	32.48	90.60	-6,803.71	3,057.73	1,758.71	1,592.63	166.08	10.590		
17,800.00	7,630.00	7,797.04	7,671.01	148.45	32.47	90.56	-6,803.73	3,057.72	1,748.80	1,583.42	165.39	10.574 SF		
17,900.00	7,630.00	7,795.89	7,669.85	149.91	32.47	90.52	-6,803.74	3,057.71	1,744.58	1,580.14	164.45	10.609 ES		
17,923.80	7,630.00	7,795.61	7,669.57	150.25	32.47	90.51	-6,803.74	3,057.71	1,744.42	1,580.23	164.18	10.625 CC		
18,000.00	7,630.00	7,794.73	7,668.69	151.37	32.47	90.48	-6,803.75	3,057.70	1,746.08	1,582.82	163.26	10.695		
18,100.00	7,630.00	7,793.56	7,667.53	152.84	32.46	90.44	-6,803.77	3,057.69	1,753.29	1,591.45	161.84	10.833		
18,200.00	7,630.00	7,792.40	7,666.37	154.32	32.46	90.41	-6,803.78	3,057.68	1,766.15	1,605.93	160.22	11.023		
18,300.00	7,630.00	7,791.24	7,665.20	155.81	32.45	90.37	-6,803.79	3,057.67	1,784.52	1,626.09	158.43	11.264		
18,400.00	7,630.00	7,790.07	7,664.04	157.31	32.45	90.33	-6,803.81	3,057.66	1,808.24	1,651.75	156.49	11.555		
18,500.00	7,630.00	7,788.91	7,662.87	158.81	32.45	90.29	-6,803.82	3,057.65	1,837.11	1,682.65	154.46	11.894		
18,600.00	7,630.00	7,787.74	7,661.70	160.32	32.44	90.25	-6,803.83	3,057.64	1,870.88	1,718.53	152.35	12.280		
18,700.00	7,630.00	7,786.57	7,660.53	161.84	32.44	90.21	-6,803.84	3,057.63	1,909.30	1,759.09	150.21	12.711		
18,800.00	7,630.00	7,785.40	7,659.36	163.37	32.44	90.18	-6,803.86	3,057.62	1,952.08	1,804.02	148.07	13.184		
18,900.00	7,630.00	7,784.23	7,658.19	164.90	32.43	90.14	-6,803.87	3,057.61	1,998.96	1,853.01	145.95	13.696		
19,000.00	7,630.00	7,783.05	7,657.02	166.43	32.43	90.10	-6,803.88	3,057.60	2,049.65	1,905.76	143.88	14.245		
19,100.00	7,630.00	7,781.88	7,655.84	167.98	32.43	90.06	-6,803.90	3,057.59	2,103.87	1,961.98	141.89	14.828		
19,200.00	7,630.00	7,780.70	7,654.67	169.53	32.42	90.02	-6,803.91	3,057.58	2,161.36	2,021.39	139.97	15.441		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	7,779.52	7,653.49	171.08	32.42	89.98	-6,803.92	3,057.57	2,221.87	2,083.71	138.15	16.082	
19,400.00	7,630.00	7,778.34	7,652.31	172.64	32.41	89.94	-6,803.94	3,057.56	2,285.15	2,148.71	136.44	16.749	
19,500.00	7,630.00	7,777.16	7,651.13	174.21	32.41	89.91	-6,803.95	3,057.55	2,350.98	2,216.15	134.82	17.438	
19,518.56	7,630.00	7,776.94	7,650.91	174.50	32.41	89.90	-6,803.95	3,057.54	2,363.46	2,228.93	134.53	17.568	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	163.70	-7,146.88	2,089.70	7,446.16					
100.00	100.00	44.07	44.06	0.13	0.08	163.70	-7,146.98	2,090.19	7,446.79	7,446.59	0.20	N/A		
200.00	200.00	86.49	86.47	0.49	0.18	163.69	-7,147.27	2,091.56	7,448.29	7,447.64	0.65	N/A		
300.00	300.00	163.92	163.84	0.85	0.44	163.67	-7,148.03	2,094.44	7,450.28	7,448.99	1.29	5,777.012		
400.00	400.00	227.00	226.87	1.21	0.67	163.65	-7,148.85	2,096.79	7,452.61	7,450.74	1.88	3,971.719		
500.00	499.98	281.67	281.48	1.56	0.87	96.86	-7,149.85	2,098.93	7,455.72	7,453.29	2.43	3,069.555		
600.00	599.84	318.00	317.77	1.92	1.00	96.78	-7,150.73	2,100.45	7,459.97	7,457.05	2.92	2,558.280		
700.00	699.45	376.54	376.21	2.29	1.22	96.69	-7,152.43	2,103.44	7,465.29	7,461.80	3.50	2,135.752		
800.00	798.70	410.00	409.58	2.67	1.35	96.58	-7,153.51	2,105.59	7,471.77	7,467.77	4.00	1,869.036		
900.00	897.47	410.00	409.58	3.07	1.35	96.42	-7,153.51	2,105.59	7,479.82	7,475.43	4.40	1,700.788		
1,000.00	995.62	457.41	456.82	3.50	1.53	96.28	-7,155.65	2,108.99	7,488.87	7,483.87	5.00	1,497.954		
1,100.00	1,093.06	502.00	501.18	3.96	1.70	96.13	-7,158.67	2,112.39	7,499.77	7,494.15	5.62	1,334.050		
1,200.00	1,189.64	502.00	501.18	4.46	1.70	95.89	-7,158.67	2,112.39	7,511.72	7,505.60	6.12	1,228.407		
1,300.00	1,285.27	502.00	501.18	5.00	1.70	95.61	-7,158.67	2,112.39	7,525.33	7,518.68	6.65	1,131.716		
1,400.00	1,379.82	548.61	547.44	5.60	1.89	95.41	-7,162.68	2,116.34	7,540.05	7,532.64	7.41	1,017.952		
1,500.00	1,473.17	594.00	592.40	6.25	2.08	95.19	-7,167.20	2,120.74	7,556.27	7,548.06	8.21	920.377		
1,600.00	1,565.21	594.00	592.40	6.95	2.08	94.84	-7,167.20	2,120.74	7,573.58	7,564.69	8.89	851.773		
1,700.00	1,655.84	632.97	630.89	7.72	2.24	94.57	-7,171.45	2,125.05	7,592.17	7,582.39	9.79	775.883		
1,800.00	1,744.94	686.00	683.12	8.55	2.47	94.32	-7,177.57	2,131.91	7,612.01	7,601.22	10.79	705.188		
1,900.00	1,832.39	707.91	704.64	9.45	2.57	93.96	-7,180.18	2,135.06	7,632.80	7,621.06	11.74	649.997		
2,000.00	1,918.11	778.00	773.35	10.41	2.90	93.74	-7,188.39	2,146.20	7,654.48	7,641.52	12.96	590.628		
2,100.00	2,001.97	804.16	798.93	11.45	3.03	93.36	-7,191.50	2,150.71	7,677.05	7,662.99	14.06	546.142		
2,200.00	2,083.88	855.00	848.53	12.56	3.27	93.05	-7,198.02	2,159.80	7,700.83	7,685.51	15.33	502.372		
2,300.00	2,163.74	855.00	848.53	13.74	3.27	92.55	-7,198.02	2,159.80	7,725.50	7,709.07	16.43	470.114		
2,400.00	2,241.45	892.77	885.27	14.99	3.47	92.16	-7,203.20	2,166.80	7,751.30	7,733.52	17.78	435.941		
2,421.22	2,257.65	899.54	891.86	15.26	3.50	92.07	-7,204.16	2,168.07	7,756.90	7,738.83	18.07	429.321		
2,500.00	2,317.63	942.00	933.07	16.29	3.72	92.24	-7,210.33	2,176.22	7,778.10	7,758.87	19.23	404.543		
2,600.00	2,393.75	942.00	933.07	17.62	3.72	92.24	-7,210.33	2,176.22	7,805.69	7,785.24	20.44	381.792		
2,700.00	2,469.88	980.27	970.13	18.95	3.93	92.40	-7,216.22	2,183.73	7,834.17	7,812.32	21.86	358.444		
2,800.00	2,546.01	1,006.44	995.43	20.30	4.07	92.50	-7,220.46	2,188.93	7,863.58	7,840.37	23.21	338.828		
2,900.00	2,622.13	1,036.00	1,023.95	21.65	4.23	92.62	-7,225.46	2,194.86	7,893.88	7,869.30	24.58	321.152		
3,000.00	2,698.26	1,074.28	1,060.84	23.01	4.44	92.78	-7,232.15	2,202.57	7,924.99	7,898.99	26.00	304.859		
3,100.00	2,774.38	3,100.00	1,158.34	24.37	15.97	93.18	-7,250.02	2,222.61	7,956.55	7,919.68	36.87	215.805		
3,200.00	2,850.51	1,239.36	1,220.06	25.74	5.37	93.44	-7,261.15	2,235.14	7,988.20	7,958.89	29.31	272.555		
3,300.00	2,926.64	1,289.00	1,267.78	27.11	5.66	93.63	-7,270.14	2,245.40	8,020.73	7,989.94	30.79	260.511		
3,400.00	3,002.76	1,302.53	1,280.77	28.49	5.74	93.68	-7,272.66	2,248.28	8,053.93	8,021.87	32.06	251.199		
3,500.00	3,078.89	1,353.61	1,329.72	29.87	6.04	93.88	-7,282.26	2,259.24	8,087.85	8,054.30	33.55	241.078		
3,600.00	3,155.02	1,407.02	1,380.84	31.25	6.36	94.08	-7,292.48	2,270.84	8,122.35	8,087.30	35.05	231.750		
3,700.00	3,231.14	1,463.00	1,434.36	32.63	6.70	94.29	-7,303.33	2,283.18	8,157.38	8,120.82	36.56	223.116		
3,800.00	3,307.27	1,492.18	1,462.21	34.01	6.89	94.40	-7,309.11	2,289.68	8,193.06	8,155.15	37.91	216.134		
3,900.00	3,383.39	1,521.59	1,490.23	35.40	7.07	94.51	-7,315.11	2,296.28	8,229.51	8,190.26	39.25	209.684		
4,000.00	3,459.52	1,550.00	1,517.26	36.79	7.25	94.62	-7,321.07	2,302.70	8,266.73	8,226.15	40.57	203.751		
4,100.00	3,535.65	1,595.77	1,560.72	38.18	7.54	94.79	-7,330.89	2,313.17	8,304.62	8,262.61	42.01	197.694		
4,200.00	3,611.77	1,638.00	1,600.74	39.57	7.82	94.94	-7,340.10	2,323.03	8,343.11	8,299.69	43.41	192.179		
4,300.00	3,687.90	1,667.04	1,628.20	40.96	8.01	95.05	-7,346.57	2,329.91	8,382.27	8,337.55	44.73	187.412		
4,400.00	3,764.02	1,694.56	1,654.17	42.35	8.19	95.15	-7,352.86	2,336.50	8,422.18	8,376.16	46.02	183.010		
4,500.00	3,840.15	4,500.00	2,074.39	43.74	25.97	96.72	-7,448.07	2,440.82	8,462.37	8,399.86	62.51	135.368		
4,600.00	3,916.28	2,234.65	2,166.93	45.13	11.72	97.06	-7,466.43	2,462.07	8,499.32	8,447.35	51.97	163.550		
4,700.00	3,992.40	2,279.09	2,209.40	46.53	12.00	97.22	-7,474.95	2,472.00	8,536.73	8,483.34	53.39	159.890		
4,800.00	4,068.53	2,336.00	2,263.60	47.92	12.36	97.42	-7,486.14	2,485.24	8,574.80	8,519.91	54.90	156.197		
4,900.00	4,144.66	2,361.26	2,287.62	49.32	12.53	97.50	-7,491.22	2,491.21	8,613.41	8,557.24	56.18	153.327		
5,000.00	4,220.78	2,620.22	2,535.31	50.71	14.16	98.40	-7,541.41	2,547.57	8,651.67	8,592.61	59.06	146.487		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	2,654.28	2,567.99	52.11	14.37	98.52	-7,547.77	2,554.74	8,689.50	8,629.10	60.39	143.879		
5,200.00	4,373.03	2,685.00	2,597.41	53.51	14.55	98.63	-7,553.66	2,561.34	8,728.00	8,666.30	61.70	141.467		
5,300.00	4,449.16	2,743.06	2,652.87	54.90	14.93	98.82	-7,564.98	2,574.28	8,767.05	8,703.86	63.19	138.737		
5,400.00	4,525.29	2,800.00	2,725.10	56.30	15.31	99.00	-7,576.30	2,587.22	8,806.65	8,742.22	64.43	136.000		
5,500.00	4,601.41	2,869.69	2,797.42	57.70	15.68	99.65	-7,612.84	2,635.60	8,844.17	8,776.94	67.23	131.556		
5,600.00	4,677.54	2,935.00	2,867.12	59.10	16.05	99.77	-7,619.46	2,643.77	8,883.30	8,814.74	68.56	129.579		
5,700.00	4,753.66	3,070.87	2,965.34	60.49	17.04	99.89	-7,626.38	2,652.02	8,923.05	8,853.17	69.88	127.695		
5,800.00	4,829.79	3,122.00	3,014.01	61.89	17.37	100.05	-7,636.61	2,663.91	8,963.50	8,892.19	71.31	125.702		
5,900.00	4,905.92	3,122.00	3,014.01	63.29	17.37	100.05	-7,636.61	2,663.91	9,004.51	8,932.17	72.34	124.475		
6,000.00	4,982.04	3,164.15	3,054.04	64.69	17.65	100.18	-7,645.38	2,673.77	9,046.18	8,972.49	73.69	122.767		
6,100.00	5,058.17	3,209.00	3,096.56	66.09	17.95	100.33	-7,655.07	2,684.23	9,088.55	9,013.50	75.05	121.106		
6,200.00	5,134.30	3,209.00	3,096.56	67.49	17.95	100.33	-7,655.07	2,684.23	9,131.52	9,055.48	76.04	120.086		
6,300.00	5,210.42	3,241.93	3,127.70	68.89	18.18	100.43	-7,662.48	2,691.94	9,175.16	9,097.87	77.29	118.711		
6,400.00	5,286.55	3,263.90	3,148.43	70.29	18.33	100.50	-7,667.58	2,697.13	9,219.51	9,141.07	78.44	117.537		
6,500.00	5,362.67	3,624.21	3,487.92	71.69	20.83	101.58	-7,747.86	2,787.14	9,263.96	9,181.53	82.43	112.392		
6,600.00	5,438.80	3,646.00	3,508.49	73.09	20.98	101.65	-7,752.34	2,792.77	9,306.64	9,223.05	83.59	111.335		
6,700.00	5,514.93	3,699.62	3,559.08	74.49	21.35	101.80	-7,763.60	2,806.51	9,349.77	9,264.75	85.02	109.975		
6,800.00	5,591.05	3,733.00	3,590.55	75.89	21.59	101.90	-7,770.87	2,814.93	9,393.57	9,307.31	86.26	108.894		
6,900.00	5,667.18	3,765.83	3,621.49	77.29	21.82	101.99	-7,778.18	2,823.11	9,437.95	9,350.45	87.49	107.870		
7,000.00	5,743.30	3,820.00	3,672.51	78.69	22.19	102.15	-7,790.55	2,836.48	9,482.90	9,394.00	88.90	106.669		
7,100.00	5,819.43	3,848.89	3,699.70	80.09	22.40	102.24	-7,797.25	2,843.57	9,528.28	9,438.20	90.08	105.775		
7,200.00	5,895.56	3,908.00	3,755.28	81.49	22.81	102.41	-7,811.09	2,858.17	9,574.08	9,482.56	91.52	104.613		
7,300.00	5,971.68	6,257.77	6,048.46	82.90	33.43	110.25	-8,090.28	3,141.73	9,618.81	9,513.13	105.68	91.015		
7,400.00	6,047.81	6,358.71	6,149.40	84.30	33.63	110.64	-8,089.55	3,140.64	9,646.51	9,539.45	107.06	90.103		
7,500.00	6,123.94	6,453.68	6,244.36	85.70	33.81	111.00	-8,088.64	3,139.54	9,674.40	9,565.98	108.42	89.231		
7,600.00	6,200.06	6,551.31	6,341.97	87.10	34.01	111.37	-8,087.50	3,138.35	9,702.49	9,592.72	109.78	88.385		
7,700.00	6,276.19	6,656.79	6,447.43	88.50	34.22	111.76	-8,085.99	3,137.21	9,730.74	9,619.59	111.14	87.550		
7,800.00	6,352.31	6,742.09	6,532.72	89.90	34.39	112.08	-8,084.57	3,136.46	9,759.15	9,646.68	112.46	86.777		
7,900.00	6,428.44	6,812.81	6,603.43	91.31	34.54	112.35	-8,083.42	3,135.99	9,787.92	9,674.18	113.74	86.055		
8,000.00	6,504.57	6,883.73	6,674.33	92.71	34.69	112.61	-8,082.32	3,135.67	9,817.08	9,702.07	115.01	85.358		
8,100.00	6,580.69	6,943.64	6,734.24	94.11	34.83	112.83	-8,081.47	3,135.59	9,846.67	9,730.41	116.26	84.698		
8,200.00	6,656.82	7,004.95	6,795.55	95.51	34.97	113.05	-8,080.72	3,135.74	9,876.71	9,759.21	117.50	84.060		
8,300.00	6,732.95	7,064.75	6,855.35	96.91	35.11	113.26	-8,080.11	3,136.12	9,907.19	9,788.46	118.73	83.446		
8,400.00	6,809.07	7,119.90	6,910.49	98.32	35.24	113.46	-8,079.68	3,136.67	9,938.15	9,818.20	119.94	82.857		
8,500.00	6,885.20	7,175.26	6,965.84	99.72	35.38	113.66	-8,079.38	3,137.44	9,969.58	9,848.43	121.15	82.289		
9,250.00	7,449.09	7,641.09	7,431.41	108.29	36.70	60.30	-8,081.28	3,151.90	9,991.88	9,861.48	130.39	76.629		
9,300.00	7,479.56	7,669.47	7,459.76	108.51	36.79	57.90	-8,081.64	3,153.42	9,964.32	9,833.43	130.89	76.127		
9,350.00	7,507.74	7,695.95	7,486.19	108.68	36.87	56.08	-8,082.00	3,154.92	9,933.35	9,802.00	131.35	75.626		
9,400.00	7,533.41	7,720.29	7,510.49	108.79	36.95	54.83	-8,082.36	3,156.37	9,899.18	9,767.42	131.76	75.130		
9,450.00	7,556.39	7,742.29	7,532.44	108.86	37.02	54.19	-8,082.69	3,157.75	9,862.07	9,729.94	132.13	74.641		
9,500.00	7,576.48	7,764.25	7,554.35	108.88	37.09	54.21	-8,083.03	3,159.15	9,822.28	9,689.82	132.46	74.153		
9,550.00	7,593.55	7,784.11	7,574.17	108.86	37.15	55.04	-8,083.33	3,160.39	9,780.10	9,647.35	132.75	73.674		
9,600.00	7,607.46	7,800.39	7,590.42	108.80	37.20	56.90	-8,083.57	3,161.38	9,735.84	9,602.84	132.99	73.207		
9,650.00	7,618.11	7,813.00	7,603.00	108.71	37.24	60.30	-8,083.76	3,162.14	9,689.82	9,556.63	133.19	72.753		
9,700.00	7,625.41	7,821.87	7,611.85	108.59	37.27	66.27	-8,083.88	3,162.66	9,642.40	9,509.06	133.34	72.314		
9,750.00	7,629.30	7,826.94	7,616.91	108.45	37.29	77.13	-8,083.96	3,162.96	9,593.91	9,460.46	133.45	71.890		
9,781.81	7,630.00	7,828.18	7,618.15	108.35	37.29	88.74	-8,083.97	3,163.03	9,562.69	9,429.18	133.50	71.629		
9,800.00	7,630.00	7,828.45	7,618.42	108.29	37.29	88.75	-8,083.98	3,163.05	9,544.76	9,411.23	133.53	71.481		
9,900.00	7,630.00	7,829.92	7,619.89	107.97	37.30	88.80	-8,084.00	3,163.13	9,446.25	9,312.58	133.67	70.670		
10,000.00	7,630.00	7,831.39	7,621.36	107.67	37.30	88.86	-8,084.02	3,163.22	9,347.78	9,213.97	133.81	69.858		
10,100.00	7,630.00	7,832.85	7,622.82	107.38	37.31	88.91	-8,084.04	3,163.30	9,249.34	9,115.38	133.96	69.047		
10,200.00	7,630.00	7,834.31	7,624.27	107.10	37.31	88.96	-8,084.06	3,163.39	9,150.93	9,016.82	134.11	68.236		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
10,300.00	7,630.00	7,835.76	7,625.72	106.84	37.32	89.01	-8,084.08	3,163.47	9,052.55	8,918.29	134.26	67.426		
10,400.00	7,630.00	7,837.20	7,627.16	106.59	37.32	89.06	-8,084.10	3,163.55	8,954.21	8,819.80	134.42	66.615		
10,500.00	7,630.00	7,838.64	7,628.60	106.35	37.33	89.11	-8,084.12	3,163.63	8,855.91	8,721.33	134.58	65.805		
10,600.00	7,630.00	7,840.07	7,630.03	106.13	37.33	89.16	-8,084.14	3,163.72	8,757.65	8,622.91	134.74	64.995		
10,700.00	7,630.00	7,841.50	7,631.45	105.92	37.34	89.21	-8,084.16	3,163.80	8,659.43	8,524.51	134.91	64.185		
10,800.00	7,630.00	7,842.92	7,632.87	105.72	37.34	89.26	-8,084.18	3,163.88	8,561.24	8,426.16	135.09	63.376		
10,900.00	7,630.00	7,844.33	7,634.28	105.54	37.34	89.31	-8,084.20	3,163.96	8,463.10	8,327.84	135.27	62.566		
11,000.00	7,630.00	7,845.74	7,635.69	105.37	37.35	89.36	-8,084.22	3,164.04	8,365.01	8,229.56	135.45	61.758		
11,100.00	7,630.00	7,847.15	7,637.09	105.21	37.35	89.41	-8,084.24	3,164.12	8,266.96	8,131.32	135.64	60.949		
11,200.00	7,630.00	7,848.54	7,638.48	105.06	37.36	89.46	-8,084.26	3,164.20	8,168.95	8,033.12	135.83	60.141		
11,300.00	7,630.00	7,849.93	7,639.87	104.93	37.36	89.50	-8,084.27	3,164.28	8,071.00	7,934.97	136.03	59.333		
11,400.00	7,630.00	7,851.32	7,641.25	104.82	37.37	89.55	-8,084.29	3,164.36	7,973.09	7,836.86	136.23	58.526		
11,500.00	7,630.00	7,852.70	7,642.63	104.72	37.37	89.60	-8,084.31	3,164.43	7,875.24	7,738.80	136.44	57.719		
11,600.00	7,630.00	7,854.08	7,644.01	104.63	37.38	89.65	-8,084.33	3,164.51	7,777.44	7,640.78	136.66	56.912		
11,700.00	7,630.00	7,855.45	7,645.37	104.55	37.38	89.70	-8,084.35	3,164.59	7,679.70	7,542.82	136.88	56.106		
11,800.00	7,630.00	7,856.81	7,646.73	104.50	37.38	89.75	-8,084.37	3,164.67	7,582.02	7,444.91	137.11	55.300		
11,900.00	7,630.00	7,858.17	7,648.09	104.45	37.39	89.79	-8,084.39	3,164.74	7,484.39	7,347.05	137.34	54.495		
12,000.00	7,630.00	7,859.52	7,649.44	104.43	37.39	89.84	-8,084.41	3,164.82	7,386.84	7,249.25	137.58	53.691		
12,100.00	7,630.00	7,860.87	7,650.79	104.42	37.40	89.89	-8,084.42	3,164.89	7,289.34	7,151.51	137.83	52.887		
12,200.00	7,630.00	7,862.21	7,652.13	104.42	37.40	89.93	-8,084.44	3,164.97	7,191.92	7,053.84	138.08	52.084		
12,300.00	7,630.00	7,863.55	7,653.46	104.45	37.41	89.98	-8,084.46	3,165.04	7,094.57	6,956.22	138.35	51.281		
12,400.00	7,630.00	7,864.88	7,654.79	104.49	37.41	90.03	-8,084.48	3,165.12	6,997.29	6,858.67	138.62	50.480		
12,500.00	7,630.00	7,866.20	7,656.11	104.55	37.41	90.07	-8,084.49	3,165.19	6,900.09	6,761.19	138.89	49.678		
12,600.00	7,630.00	7,867.52	7,657.43	104.63	37.42	90.12	-8,084.51	3,165.26	6,802.97	6,663.79	139.18	48.878		
12,700.00	7,630.00	7,868.84	7,658.74	104.73	37.42	90.17	-8,084.53	3,165.33	6,705.93	6,566.45	139.48	48.079		
12,800.00	7,630.00	7,870.15	7,660.05	104.85	37.43	90.21	-8,084.55	3,165.41	6,608.99	6,469.20	139.78	47.280		
12,900.00	7,630.00	7,871.46	7,661.36	104.99	37.43	90.26	-8,084.56	3,165.48	6,512.13	6,372.03	140.10	46.483		
13,000.00	7,630.00	7,872.76	7,662.65	105.15	37.44	90.30	-8,084.58	3,165.55	6,415.37	6,274.95	140.42	45.686		
13,100.00	7,630.00	7,874.05	7,663.95	105.34	37.44	90.35	-8,084.60	3,165.62	6,318.71	6,177.95	140.76	44.890		
13,200.00	7,630.00	7,875.34	7,665.24	105.56	37.44	90.39	-8,084.62	3,165.69	6,222.16	6,081.05	141.11	44.096		
13,300.00	7,630.00	7,876.63	7,666.52	105.80	37.45	90.44	-8,084.63	3,165.76	6,125.72	5,984.25	141.46	43.302		
13,400.00	7,630.00	7,877.91	7,667.80	106.06	37.45	90.48	-8,084.65	3,165.83	6,029.39	5,887.56	141.83	42.510		
13,500.00	7,630.00	7,879.18	7,669.07	106.36	37.46	90.53	-8,084.67	3,165.90	5,933.18	5,790.97	142.22	41.720		
13,600.00	7,630.00	7,880.45	7,670.34	106.68	37.46	90.57	-8,084.68	3,165.97	5,837.11	5,694.49	142.61	40.930		
13,700.00	7,630.00	7,881.72	7,671.60	107.03	37.46	90.62	-8,084.70	3,166.04	5,741.16	5,598.14	143.02	40.142		
13,800.00	7,630.00	7,882.98	7,672.86	107.42	37.47	90.66	-8,084.72	3,166.11	5,645.36	5,501.91	143.45	39.356		
13,900.00	7,630.00	7,884.23	7,674.11	107.83	37.47	90.71	-8,084.73	3,166.17	5,549.70	5,405.82	143.88	38.571		
14,000.00	7,630.00	7,885.48	7,675.36	108.28	37.48	90.75	-8,084.75	3,166.24	5,454.20	5,309.86	144.34	37.787		
14,100.00	7,630.00	7,886.73	7,676.60	108.77	37.48	90.79	-8,084.76	3,166.31	5,358.86	5,214.05	144.81	37.006		
14,200.00	7,630.00	7,887.97	7,677.84	109.29	37.48	90.84	-8,084.78	3,166.37	5,263.70	5,118.40	145.30	36.227		
14,300.00	7,630.00	7,889.20	7,679.08	109.84	37.49	90.88	-8,084.80	3,166.44	5,168.72	5,022.91	145.81	35.449		
14,400.00	7,630.00	7,890.44	7,680.31	110.43	37.49	90.92	-8,084.81	3,166.51	5,073.93	4,927.59	146.33	34.674		
14,500.00	7,630.00	7,891.66	7,681.53	111.06	37.50	90.97	-8,084.83	3,166.57	4,979.34	4,832.46	146.88	33.901		
14,600.00	7,630.00	7,892.88	7,682.75	111.72	37.50	91.01	-8,084.84	3,166.64	4,884.97	4,737.52	147.45	33.130		
14,700.00	7,630.00	7,894.10	7,683.97	112.42	37.50	91.05	-8,084.86	3,166.70	4,790.83	4,642.79	148.04	32.362		
14,800.00	7,630.00	7,895.31	7,685.18	113.16	37.51	91.10	-8,084.87	3,166.77	4,696.93	4,548.27	148.65	31.597		
14,900.00	7,630.00	7,896.52	7,686.38	113.94	37.51	91.14	-8,084.89	3,166.83	4,603.28	4,453.99	149.29	30.835		
15,000.00	7,630.00	7,897.73	7,687.59	114.75	37.51	91.18	-8,084.91	3,166.89	4,509.91	4,359.96	149.95	30.075		
15,100.00	7,630.00	7,898.93	7,688.78	115.60	37.52	91.22	-8,084.92	3,166.96	4,416.83	4,266.18	150.65	29.319		
15,200.00	7,630.00	7,900.12	7,689.98	116.48	37.52	91.26	-8,084.94	3,167.02	4,324.05	4,172.69	151.37	28.567		
15,300.00	7,630.00	7,901.31	7,691.17	117.40	37.53	91.31	-8,084.95	3,167.08	4,231.61	4,079.49	152.12	27.818		
15,400.00	7,630.00	7,902.50	7,692.35	118.35	37.53	91.35	-8,084.97	3,167.14	4,139.52	3,986.62	152.90	27.073		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
15,500.00	7,630.00	7,903.68	7,693.53	119.34	37.53	91.39	-8,084.98	3,167.21	4,047.80	3,894.08	153.72	26.333		
15,600.00	7,630.00	7,904.85	7,694.70	120.35	37.54	91.43	-8,085.00	3,167.27	3,956.48	3,801.91	154.57	25.597		
15,700.00	7,630.00	7,906.03	7,695.87	121.40	37.54	91.47	-8,085.01	3,167.33	3,865.59	3,710.13	155.46	24.866		
15,800.00	7,630.00	7,907.19	7,697.04	122.48	37.54	91.51	-8,085.03	3,167.39	3,775.16	3,618.78	156.39	24.140		
15,900.00	7,630.00	7,908.36	7,698.20	123.58	37.55	91.55	-8,085.04	3,167.45	3,685.23	3,527.88	157.35	23.420		
16,000.00	7,630.00	7,909.52	7,699.36	124.71	37.55	91.59	-8,085.05	3,167.51	3,595.83	3,437.46	158.37	22.706		
16,100.00	7,630.00	7,910.67	7,700.51	125.87	37.56	91.63	-8,085.07	3,167.57	3,507.00	3,347.57	159.42	21.998		
16,200.00	7,630.00	7,911.82	7,701.66	127.05	37.56	91.67	-8,085.08	3,167.63	3,418.78	3,258.26	160.53	21.297		
16,300.00	7,630.00	7,912.97	7,702.81	128.26	37.56	91.72	-8,085.10	3,167.69	3,331.23	3,169.55	161.68	20.604		
16,400.00	7,630.00	7,914.11	7,703.95	129.48	37.57	91.76	-8,085.11	3,167.75	3,244.41	3,081.52	162.88	19.918		
16,500.00	7,630.00	7,915.25	7,705.08	130.73	37.57	91.80	-8,085.13	3,167.81	3,158.36	2,994.21	164.14	19.242		
16,600.00	7,630.00	7,916.38	7,706.22	132.00	37.57	91.83	-8,085.14	3,167.87	3,073.15	2,907.70	165.45	18.574		
16,700.00	7,630.00	7,917.51	7,707.35	133.29	37.58	91.87	-8,085.15	3,167.92	2,988.86	2,822.04	166.82	17.917		
16,800.00	7,630.00	7,918.64	7,708.47	134.59	37.58	91.91	-8,085.17	3,167.98	2,905.57	2,737.32	168.24	17.270		
16,900.00	7,630.00	7,919.76	7,709.59	135.91	37.59	91.95	-8,085.18	3,168.04	2,823.36	2,653.63	169.73	16.635		
17,000.00	7,630.00	7,920.88	7,710.71	137.25	37.59	91.99	-8,085.19	3,168.10	2,742.33	2,571.07	171.26	16.012		
17,100.00	7,630.00	7,921.99	7,711.82	138.61	37.59	92.03	-8,085.21	3,168.15	2,662.59	2,489.73	172.86	15.403		
17,200.00	7,630.00	7,923.10	7,712.92	139.97	37.60	92.07	-8,085.22	3,168.21	2,584.26	2,409.76	174.51	14.809		
17,300.00	7,630.00	7,924.21	7,714.03	141.36	37.60	92.11	-8,085.24	3,168.27	2,507.48	2,331.27	176.21	14.230		
17,400.00	7,630.00	7,925.31	7,715.13	142.75	37.60	92.15	-8,085.25	3,168.32	2,432.38	2,254.43	177.95	13.669		
17,500.00	7,630.00	7,926.40	7,716.22	144.16	37.61	92.19	-8,085.26	3,168.38	2,359.13	2,179.39	179.73	13.126		
17,600.00	7,630.00	7,927.50	7,717.32	145.58	37.61	92.23	-8,085.28	3,168.43	2,287.90	2,106.36	181.54	12.603		
17,700.00	7,630.00	7,928.59	7,718.40	147.01	37.61	92.26	-8,085.29	3,168.49	2,218.90	2,035.53	183.37	12.101		
17,800.00	7,630.00	7,929.67	7,719.49	148.45	37.62	92.30	-8,085.30	3,168.54	2,152.33	1,967.14	185.19	11.622		
17,900.00	7,630.00	7,930.75	7,720.57	149.91	37.62	92.34	-8,085.31	3,168.60	2,088.42	1,901.44	186.98	11.169		
18,000.00	7,630.00	7,931.52	7,721.33	151.37	37.62	92.37	-8,085.33	3,168.64	2,027.44	1,838.71	188.73	10.743		
18,100.00	7,630.00	7,932.62	7,722.43	152.84	37.63	92.41	-8,085.34	3,168.69	1,969.65	1,779.25	190.40	10.345		
18,200.00	7,630.00	7,933.72	7,723.53	154.32	37.63	92.44	-8,085.35	3,168.75	1,915.34	1,723.39	191.95	9.978		
18,300.00	7,630.00	7,934.84	7,724.65	155.81	37.63	92.48	-8,085.37	3,168.80	1,864.81	1,671.46	193.34	9.645		
18,400.00	7,630.00	7,935.96	7,725.77	157.31	37.64	92.52	-8,085.38	3,168.86	1,818.38	1,623.84	194.53	9.347		
18,500.00	7,630.00	7,937.10	7,726.91	158.81	37.64	92.56	-8,085.40	3,168.92	1,776.37	1,580.89	195.48	9.087		
18,600.00	7,630.00	7,938.25	7,728.05	160.32	37.64	92.60	-8,085.41	3,168.97	1,739.10	1,542.98	196.12	8.868		
18,700.00	7,630.00	7,939.40	7,729.21	161.84	37.65	92.64	-8,085.43	3,169.03	1,706.88	1,510.47	196.41	8.690		
18,800.00	7,630.00	7,940.57	7,730.37	163.37	37.65	92.68	-8,085.44	3,169.09	1,680.01	1,483.70	196.31	8.558		
18,900.00	7,630.00	7,941.75	7,731.55	164.90	37.65	92.73	-8,085.46	3,169.15	1,658.74	1,462.95	195.78	8.472		
19,000.00	7,630.00	7,942.94	7,732.74	166.43	37.66	92.77	-8,085.47	3,169.21	1,643.28	1,448.48	194.81	8.435 SF		
19,100.00	7,630.00	7,944.14	7,733.94	167.98	37.66	92.81	-8,085.49	3,169.27	1,633.81	1,440.44	193.37	8.449		
19,200.00	7,630.00	7,945.36	7,735.15	169.53	37.67	92.85	-8,085.51	3,169.33	1,630.43	1,438.95	191.48	8.515 ES		
19,205.18	7,630.00	7,945.42	7,735.22	169.61	37.67	92.86	-8,085.51	3,169.33	1,630.43	1,439.05	191.37	8.520 CC		
19,300.00	7,630.00	7,946.58	7,736.38	171.08	37.67	92.90	-8,085.52	3,169.39	1,633.18	1,444.01	189.17	8.633		
19,400.00	7,630.00	7,947.82	7,737.61	172.64	37.67	92.94	-8,085.54	3,169.45	1,642.02	1,455.54	186.48	8.805		
19,500.00	7,630.00	7,949.07	7,738.86	174.21	37.68	92.98	-8,085.56	3,169.51	1,656.86	1,473.40	183.46	9.031		
19,518.56	7,630.00	7,949.30	7,739.09	174.50	37.68	92.99	-8,085.56	3,169.53	1,660.27	1,477.39	182.87	9.079		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis 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	12.35	12.35	0.00	0.02	163.80	-7,163.65	2,081.87	7,460.04					
100.00	100.00	65.55	65.54	0.13	0.14	163.79	-7,163.83	2,082.16	7,460.51	7,460.24	0.27	N/A		
200.00	200.00	135.00	134.99	0.49	0.39	163.79	-7,164.34	2,083.29	7,461.62	7,460.74	0.88	8,502.136		
300.00	300.00	180.74	180.71	0.85	0.55	163.78	-7,164.82	2,084.45	7,463.25	7,461.85	1.40	5,325.703		
400.00	400.00	227.00	226.94	1.21	0.72	163.77	-7,165.42	2,085.88	7,465.46	7,463.53	1.93	3,874.925		
500.00	499.98	266.57	266.47	1.56	0.86	96.97	-7,166.13	2,087.53	7,468.65	7,466.22	2.43	3,079.429		
600.00	599.84	318.00	317.79	1.92	1.05	96.89	-7,167.47	2,090.61	7,473.27	7,470.30	2.97	2,518.308		
700.00	699.45	318.00	317.79	2.29	1.05	96.77	-7,167.47	2,090.61	7,479.09	7,475.75	3.33	2,243.769		
800.00	798.70	351.64	351.32	2.67	1.18	96.64	-7,168.70	2,093.12	7,486.33	7,482.50	3.84	1,950.478		
900.00	897.47	375.72	375.29	3.07	1.27	96.49	-7,169.83	2,095.10	7,495.01	7,490.69	4.33	1,732.064		
1,000.00	995.62	410.00	409.37	3.50	1.41	96.32	-7,171.80	2,098.16	7,505.12	7,500.24	4.88	1,538.160		
1,100.00	1,093.06	410.00	409.37	3.96	1.41	96.09	-7,171.80	2,098.16	7,516.61	7,511.27	5.34	1,408.777		
1,200.00	1,189.64	454.72	453.79	4.46	1.58	95.89	-7,175.00	2,102.29	7,529.31	7,523.32	6.00	1,255.453		
1,300.00	1,285.27	502.00	500.69	5.00	1.77	95.70	-7,179.13	2,106.55	7,543.46	7,536.75	6.71	1,124.256		
1,400.00	1,379.82	502.00	500.69	5.60	1.77	95.39	-7,179.13	2,106.55	7,558.74	7,551.45	7.29	1,037.058		
1,500.00	1,473.17	538.58	536.94	6.25	1.93	95.14	-7,182.86	2,109.75	7,575.33	7,567.27	8.06	940.226		
1,600.00	1,565.21	594.00	591.78	6.95	2.16	94.93	-7,189.38	2,114.41	7,593.37	7,584.42	8.95	848.392		
1,700.00	1,655.84	594.00	591.78	7.72	2.16	94.54	-7,189.38	2,114.41	7,612.28	7,602.60	9.69	785.879		
1,800.00	1,744.94	627.39	624.77	8.55	2.30	94.24	-7,193.77	2,117.03	7,632.55	7,621.94	10.61	719.440		
1,900.00	1,832.39	661.52	658.48	9.45	2.44	93.92	-7,198.55	2,119.46	7,653.92	7,642.33	11.59	660.147		
2,000.00	1,918.11	686.00	682.64	10.41	2.55	93.55	-7,202.17	2,121.04	7,676.41	7,663.81	12.60	609.094		
2,100.00	2,001.97	686.00	682.64	11.45	2.55	93.06	-7,202.17	2,121.04	7,700.24	7,686.66	13.58	567.154		
2,200.00	2,083.88	726.48	722.52	12.56	2.72	92.72	-7,208.70	2,123.43	7,724.99	7,710.21	14.77	522.925		
2,300.00	2,163.74	743.34	739.08	13.74	2.80	92.26	-7,211.66	2,124.35	7,751.08	7,735.15	15.94	486.361		
2,400.00	2,241.45	778.00	773.08	14.99	2.95	91.86	-7,218.19	2,126.10	7,778.45	7,761.21	17.24	451.300		
2,421.22	2,257.65	778.00	773.08	15.26	2.95	91.74	-7,218.19	2,126.10	7,784.35	7,766.86	17.49	445.112		
2,500.00	2,317.63	778.00	773.08	16.29	2.95	91.74	-7,218.19	2,126.10	7,806.73	7,788.29	18.44	423.450		
2,600.00	2,393.75	778.00	773.08	17.62	2.95	91.74	-7,218.19	2,126.10	7,836.18	7,816.54	19.64	398.948		
2,700.00	2,469.88	778.00	773.08	18.95	2.95	91.74	-7,218.19	2,126.10	7,866.80	7,845.95	20.85	377.346		
2,800.00	2,546.01	820.39	814.50	20.30	3.15	91.95	-7,226.99	2,127.99	7,898.02	7,875.78	22.23	355.258		
2,900.00	2,622.13	855.00	848.18	21.65	3.31	92.13	-7,234.85	2,129.35	7,930.59	7,907.00	23.58	336.309		
3,000.00	2,698.26	855.00	848.18	23.01	3.31	92.13	-7,234.85	2,129.35	7,963.92	7,939.14	24.78	321.438		
3,100.00	2,774.38	855.00	848.18	24.37	3.31	92.13	-7,234.85	2,129.35	7,998.36	7,972.40	25.96	308.074		
3,200.00	2,850.51	886.93	879.15	25.74	3.47	92.29	-7,242.53	2,130.56	8,033.67	8,006.39	27.29	294.414		
3,300.00	2,926.64	906.47	898.07	27.11	3.57	92.39	-7,247.38	2,131.36	8,069.94	8,041.39	28.55	282.687		
3,400.00	3,002.76	942.00	932.37	28.49	3.75	92.57	-7,256.49	2,132.92	8,107.16	8,077.29	29.87	271.381		
3,500.00	3,078.89	942.00	932.37	29.87	3.75	92.57	-7,256.49	2,132.92	8,145.16	8,114.14	31.02	262.542		
3,600.00	3,155.02	970.90	960.20	31.25	3.90	92.71	-7,264.13	2,134.32	8,184.07	8,151.76	32.31	253.277		
3,700.00	3,231.14	995.58	983.93	32.63	4.03	92.84	-7,270.78	2,135.63	8,223.80	8,190.24	33.56	245.027		
3,800.00	3,307.27	1,031.00	1,017.92	34.01	4.22	93.01	-7,280.54	2,137.71	8,264.37	8,229.51	34.86	237.089		
3,900.00	3,383.39	1,050.19	1,036.31	35.40	4.33	93.11	-7,285.92	2,138.92	8,305.68	8,269.61	36.06	230.302		
4,000.00	3,459.52	1,084.18	1,068.82	36.79	4.52	93.27	-7,295.53	2,141.19	8,347.73	8,310.39	37.34	223.553		
4,100.00	3,535.65	1,121.60	1,104.57	38.18	4.73	93.45	-7,306.26	2,143.87	8,390.47	8,351.84	38.63	217.195		
4,200.00	3,611.77	1,206.53	1,186.71	39.57	5.23	93.86	-7,330.68	2,149.65	8,433.67	8,393.50	40.18	209.923		
4,300.00	3,687.90	1,230.52	1,208.62	40.96	5.37	93.98	-7,337.63	2,151.19	8,477.39	8,436.02	41.38	204.887		
4,400.00	3,764.02	1,256.13	1,233.04	42.35	5.52	94.10	-7,345.18	2,152.86	8,521.85	8,479.28	42.58	200.157		
4,500.00	3,840.15	1,291.00	1,266.22	43.74	5.73	94.27	-7,355.64	2,155.17	8,567.06	8,523.24	43.82	195.508		
4,600.00	3,916.28	1,291.00	1,266.22	45.13	5.73	94.27	-7,355.64	2,155.17	8,613.00	8,568.15	44.85	192.039		
4,700.00	3,992.40	1,340.01	1,312.74	46.53	6.03	94.50	-7,370.68	2,158.54	8,659.54	8,613.38	46.16	187.598		
4,800.00	4,068.53	1,378.00	1,348.72	47.92	6.27	94.68	-7,382.56	2,161.29	8,706.79	8,659.39	47.40	183.699		
4,900.00	4,144.66	1,400.28	1,369.79	49.32	6.41	94.78	-7,389.62	2,162.98	8,754.68	8,706.15	48.53	180.395		
5,000.00	4,220.78	1,430.75	1,398.55	50.71	6.61	94.93	-7,399.37	2,165.43	8,803.22	8,753.51	49.71	177.106		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	1,466.00	1,431.75	52.11	6.83	95.09	-7,410.81	2,168.48	8,852.39	8,801.48	50.90	173.908		
5,200.00	4,373.03	1,466.00	1,431.75	53.51	6.83	95.09	-7,410.81	2,168.48	8,902.25	8,850.39	51.86	171.652		
5,300.00	4,449.16	1,466.00	1,431.75	54.90	6.83	95.09	-7,410.81	2,168.48	8,952.95	8,900.14	52.81	169.540		
5,400.00	4,525.29	1,512.33	1,475.22	56.30	7.14	95.30	-7,426.31	2,172.60	9,003.98	8,949.92	54.05	166.584		
5,500.00	4,601.41	1,553.00	1,513.16	57.70	7.42	95.48	-7,440.51	2,176.17	9,056.05	9,000.80	55.25	163.913		
5,600.00	4,677.54	1,553.00	1,513.16	59.10	7.42	95.48	-7,440.51	2,176.17	9,108.54	9,052.38	56.16	162.192		
5,700.00	4,753.66	1,553.00	1,513.16	60.49	7.42	95.48	-7,440.51	2,176.17	9,161.83	9,104.77	57.05	160.580		
5,800.00	4,829.79	1,553.00	1,513.16	61.89	7.42	95.48	-7,440.51	2,176.17	9,215.89	9,157.95	57.94	159.069		
5,900.00	4,905.92	1,597.85	1,554.80	63.29	7.73	95.69	-7,456.73	2,179.94	9,270.32	9,211.19	59.13	156.786		
6,000.00	4,982.04	1,640.00	1,593.77	64.69	8.03	95.88	-7,472.46	2,183.21	9,325.62	9,265.33	60.29	154.676		
6,100.00	5,058.17	1,640.00	1,593.77	66.09	8.03	95.88	-7,472.46	2,183.21	9,381.33	9,320.19	61.14	153.442		
6,200.00	5,134.30	1,640.00	1,593.77	67.49	8.03	95.88	-7,472.46	2,183.21	9,437.76	9,375.79	61.97	152.288		
6,300.00	5,210.42	1,681.49	1,632.00	68.89	8.33	96.07	-7,488.30	2,186.21	9,494.68	9,431.57	63.11	150.457		
6,400.00	5,286.55	1,728.00	1,674.74	70.29	8.67	96.28	-7,506.36	2,189.37	9,552.23	9,487.97	64.27	148.629		
6,500.00	5,362.67	1,734.79	1,680.97	71.69	8.72	96.31	-7,509.02	2,189.81	9,610.19	9,545.07	65.12	147.570		
6,600.00	5,438.80	2,457.25	2,353.61	73.09	13.81	99.48	-7,767.34	2,237.35	9,664.55	9,593.24	71.32	135.519		
6,700.00	5,514.93	6,700.00	2,440.28	74.49	41.99	99.88	-7,797.44	2,242.04	9,718.84	9,627.77	91.07	106.716		
6,800.00	5,591.05	2,681.57	2,565.63	75.89	15.29	100.44	-7,839.80	2,248.02	9,772.77	9,698.19	74.58	131.034		
6,900.00	5,667.18	2,714.39	2,596.71	77.29	15.51	100.58	-7,850.26	2,249.32	9,827.00	9,751.35	75.65	129.900		
7,000.00	5,743.30	2,744.44	2,625.10	78.69	15.71	100.71	-7,859.97	2,250.86	9,881.73	9,805.04	76.69	128.849		
7,100.00	5,819.43	2,775.00	2,653.91	80.09	15.91	100.84	-7,869.99	2,252.77	9,936.97	9,859.24	77.73	127.839		
7,200.00	5,895.56	2,865.29	2,738.92	81.49	16.53	101.20	-7,899.72	2,259.27	9,992.50	9,913.29	79.22	126.144		
10,300.00	7,630.00	7,955.61	7,676.01	106.84	39.68	90.52	-8,783.28	2,377.02	9,905.40	9,777.69	127.70	77.566		
10,400.00	7,630.00	7,955.86	7,676.27	106.59	39.68	90.53	-8,783.28	2,377.02	9,808.45	9,680.54	127.91	76.683		
10,500.00	7,630.00	7,956.12	7,676.53	106.35	39.68	90.53	-8,783.28	2,377.03	9,711.57	9,583.45	128.12	75.800		
10,600.00	7,630.00	7,956.39	7,676.79	106.13	39.68	90.54	-8,783.28	2,377.03	9,614.75	9,486.42	128.34	74.917		
10,700.00	7,630.00	7,956.65	7,677.06	105.92	39.68	90.55	-8,783.29	2,377.04	9,518.00	9,389.44	128.56	74.035		
10,800.00	7,630.00	7,956.92	7,677.33	105.72	39.68	90.55	-8,783.29	2,377.04	9,421.32	9,292.53	128.79	73.153		
10,900.00	7,630.00	7,957.19	7,677.59	105.54	39.68	90.56	-8,783.29	2,377.05	9,324.70	9,195.68	129.02	72.271		
11,000.00	7,630.00	7,957.46	7,677.87	105.37	39.68	90.57	-8,783.29	2,377.05	9,228.16	9,098.90	129.26	71.390		
11,100.00	7,630.00	7,957.73	7,678.14	105.21	39.68	90.57	-8,783.29	2,377.06	9,131.70	9,002.19	129.51	70.509		
11,200.00	7,630.00	7,958.01	7,678.41	105.06	39.68	90.58	-8,783.29	2,377.06	9,035.31	8,905.54	129.76	69.629		
11,300.00	7,630.00	7,958.28	7,678.69	104.93	39.68	90.58	-8,783.29	2,377.07	8,938.99	8,808.97	130.02	68.749		
11,400.00	7,630.00	7,958.56	7,678.97	104.82	39.68	90.59	-8,783.29	2,377.07	8,842.76	8,712.47	130.29	67.870		
11,500.00	7,630.00	7,958.84	7,679.25	104.72	39.68	90.60	-8,783.29	2,377.08	8,746.62	8,616.06	130.56	66.991		
11,600.00	7,630.00	7,959.13	7,679.53	104.63	39.69	90.60	-8,783.29	2,377.08	8,650.56	8,519.72	130.85	66.113		
11,700.00	7,630.00	7,959.41	7,679.82	104.55	39.69	90.61	-8,783.29	2,377.09	8,554.60	8,423.46	131.14	65.235		
11,800.00	7,630.00	7,959.70	7,680.11	104.50	39.69	90.62	-8,783.29	2,377.09	8,458.72	8,327.29	131.43	64.358		
11,900.00	7,630.00	7,959.99	7,680.40	104.45	39.69	90.63	-8,783.29	2,377.10	8,362.95	8,231.21	131.74	63.482		
12,000.00	7,630.00	7,960.28	7,680.69	104.43	39.69	90.63	-8,783.29	2,377.10	8,267.27	8,135.22	132.05	62.606		
12,100.00	7,630.00	7,960.58	7,680.98	104.42	39.69	90.64	-8,783.29	2,377.11	8,171.70	8,039.32	132.37	61.732		
12,200.00	7,630.00	7,960.87	7,681.28	104.42	39.69	90.65	-8,783.30	2,377.11	8,076.23	7,943.52	132.71	60.858		
12,300.00	7,630.00	7,961.17	7,681.58	104.45	39.69	90.65	-8,783.30	2,377.12	7,980.87	7,847.83	133.05	59.985		
12,400.00	7,630.00	7,961.47	7,681.88	104.49	39.69	90.66	-8,783.30	2,377.12	7,885.63	7,752.24	133.40	59.114		
12,500.00	7,630.00	7,961.78	7,682.18	104.55	39.69	90.67	-8,783.30	2,377.13	7,790.51	7,656.76	133.76	58.243		
12,600.00	7,630.00	7,962.08	7,682.49	104.63	39.69	90.67	-8,783.30	2,377.14	7,695.52	7,561.39	134.13	57.373		
12,700.00	7,630.00	7,962.39	7,682.80	104.73	39.69	90.68	-8,783.30	2,377.14	7,600.65	7,466.14	134.51	56.505		
12,800.00	7,630.00	7,962.70	7,683.11	104.85	39.69	90.69	-8,783.30	2,377.15	7,505.91	7,371.01	134.91	55.638		
12,900.00	7,630.00	7,963.02	7,683.42	104.99	39.70	90.70	-8,783.30	2,377.15	7,411.32	7,276.00	135.31	54.772		
13,000.00	7,630.00	7,963.33	7,683.74	105.15	39.70	90.70	-8,783.30	2,377.16	7,316.86	7,181.13	135.73	53.908		
13,100.00	7,630.00	7,963.65	7,684.06	105.34	39.70	90.71	-8,783.30	2,377.17	7,222.56	7,086.40	136.16	53.045		
13,200.00	7,630.00	7,963.97	7,684.38	105.56	39.70	90.72	-8,783.30	2,377.17	7,128.41	6,991.81	136.60	52.184		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
13,300.00	7,630.00	7,964.30	7,684.71	105.80	39.70	90.73	-8,783.30	2,377.18	7,034.42	6,897.36	137.06	51.324		
13,400.00	7,630.00	7,964.63	7,685.03	106.06	39.70	90.74	-8,783.30	2,377.19	6,940.60	6,803.07	137.53	50.466		
13,500.00	7,630.00	7,964.96	7,685.36	106.36	39.70	90.74	-8,783.31	2,377.19	6,846.96	6,708.94	138.02	49.610		
13,600.00	7,630.00	7,965.29	7,685.69	106.68	39.70	90.75	-8,783.31	2,377.20	6,753.50	6,614.98	138.52	48.756		
13,700.00	7,630.00	7,965.62	7,686.03	107.03	39.70	90.76	-8,783.31	2,377.20	6,660.22	6,521.19	139.03	47.904		
13,800.00	7,630.00	7,965.96	7,686.37	107.42	39.70	90.77	-8,783.31	2,377.21	6,567.15	6,427.58	139.57	47.054		
13,900.00	7,630.00	7,966.30	7,686.71	107.83	39.70	90.77	-8,783.31	2,377.22	6,474.28	6,334.17	140.12	46.207		
14,000.00	7,630.00	7,966.65	7,687.05	108.28	39.70	90.78	-8,783.31	2,377.22	6,381.63	6,240.95	140.68	45.362		
14,100.00	7,630.00	7,966.99	7,687.40	108.77	39.71	90.79	-8,783.31	2,377.23	6,289.20	6,147.93	141.27	44.519		
14,200.00	7,630.00	7,967.34	7,687.75	109.29	39.71	90.80	-8,783.31	2,377.24	6,197.01	6,055.13	141.88	43.679		
14,300.00	7,630.00	7,967.70	7,688.10	109.84	39.71	90.81	-8,783.31	2,377.25	6,105.06	5,962.56	142.50	42.842		
14,400.00	7,630.00	7,968.05	7,688.46	110.43	39.71	90.82	-8,783.31	2,377.25	6,013.37	5,870.23	143.15	42.008		
14,500.00	7,630.00	7,968.41	7,688.82	111.06	39.71	90.82	-8,783.31	2,377.26	5,921.95	5,778.14	143.82	41.177		
14,600.00	7,630.00	7,968.77	7,689.18	111.72	39.71	90.83	-8,783.32	2,377.27	5,830.82	5,686.31	144.51	40.350		
14,700.00	7,630.00	7,969.14	7,689.54	112.42	39.71	90.84	-8,783.32	2,377.27	5,739.97	5,594.75	145.22	39.526		
14,800.00	7,630.00	7,969.51	7,689.91	113.16	39.71	90.85	-8,783.32	2,377.28	5,649.44	5,503.48	145.96	38.706		
14,900.00	7,630.00	7,969.88	7,690.28	113.94	39.71	90.86	-8,783.32	2,377.29	5,559.23	5,412.51	146.72	37.890		
15,000.00	7,630.00	7,970.25	7,690.66	114.75	39.71	90.87	-8,783.32	2,377.30	5,469.36	5,321.85	147.51	37.077		
15,100.00	7,630.00	7,970.63	7,691.04	115.60	39.71	90.88	-8,783.32	2,377.31	5,379.85	5,231.52	148.33	36.270		
15,200.00	7,630.00	7,971.01	7,691.42	116.48	39.72	90.89	-8,783.32	2,377.31	5,290.71	5,141.54	149.17	35.467		
15,300.00	7,630.00	7,971.40	7,691.80	117.40	39.72	90.90	-8,783.32	2,377.32	5,201.97	5,051.92	150.05	34.668		
15,400.00	7,630.00	7,971.79	7,692.19	118.35	39.72	90.90	-8,783.32	2,377.33	5,113.65	4,962.69	150.96	33.875		
15,500.00	7,630.00	7,972.18	7,692.58	119.34	39.72	90.91	-8,783.32	2,377.34	5,025.76	4,873.86	151.89	33.087		
15,600.00	7,630.00	7,972.57	7,692.98	120.35	39.72	90.92	-8,783.33	2,377.35	4,938.33	4,785.46	152.87	32.305		
15,700.00	7,630.00	7,972.97	7,693.38	121.40	39.72	90.93	-8,783.33	2,377.35	4,851.39	4,697.52	153.87	31.529		
15,800.00	7,630.00	7,973.38	7,693.78	122.48	39.72	90.94	-8,783.33	2,377.36	4,764.96	4,610.05	154.91	30.759		
15,900.00	7,630.00	7,973.78	7,694.19	123.58	39.72	90.95	-8,783.33	2,377.37	4,679.07	4,523.08	155.99	29.996		
16,000.00	7,630.00	7,974.19	7,694.60	124.71	39.72	90.96	-8,783.33	2,377.38	4,593.75	4,436.65	157.10	29.240		
16,100.00	7,630.00	7,974.61	7,695.01	125.87	39.72	90.97	-8,783.33	2,377.39	4,509.04	4,350.78	158.26	28.491		
16,200.00	7,630.00	7,975.03	7,695.43	127.05	39.73	90.98	-8,783.33	2,377.40	4,424.96	4,265.51	159.45	27.751		
16,300.00	7,630.00	7,975.45	7,695.85	128.26	39.73	90.99	-8,783.33	2,377.41	4,341.56	4,180.87	160.69	27.018		
16,400.00	7,630.00	7,975.87	7,696.28	129.48	39.73	91.00	-8,783.33	2,377.42	4,258.88	4,096.91	161.97	26.294		
16,500.00	7,630.00	7,976.30	7,696.71	130.73	39.73	91.01	-8,783.34	2,377.42	4,176.95	4,013.66	163.29	25.579		
16,600.00	7,630.00	7,976.74	7,697.14	132.00	39.73	91.02	-8,783.34	2,377.43	4,095.82	3,931.16	164.66	24.874		
16,700.00	7,630.00	7,977.18	7,697.58	133.29	39.73	91.03	-8,783.34	2,377.44	4,015.55	3,849.48	166.07	24.179		
16,800.00	7,630.00	7,977.62	7,698.02	134.59	39.73	91.04	-8,783.34	2,377.45	3,936.18	3,768.65	167.53	23.495		
16,900.00	7,630.00	7,978.07	7,698.47	135.91	39.73	91.05	-8,783.34	2,377.46	3,857.77	3,688.73	169.03	22.822		
17,000.00	7,630.00	7,978.52	7,698.92	137.25	39.73	91.06	-8,783.34	2,377.47	3,780.37	3,609.79	170.58	22.161		
17,100.00	7,630.00	7,978.97	7,699.38	138.61	39.74	91.08	-8,783.34	2,377.48	3,704.06	3,531.88	172.18	21.513		
17,200.00	7,630.00	7,979.43	7,699.84	139.97	39.74	91.09	-8,783.34	2,377.49	3,628.91	3,455.08	173.82	20.877		
17,300.00	7,630.00	7,979.90	7,700.30	141.36	39.74	91.10	-8,783.35	2,377.50	3,554.97	3,379.46	175.51	20.255		
17,400.00	7,630.00	7,980.37	7,700.77	142.75	39.74	91.11	-8,783.35	2,377.51	3,482.34	3,305.10	177.23	19.648		
17,500.00	7,630.00	7,980.84	7,701.24	144.16	39.74	91.12	-8,783.35	2,377.52	3,411.09	3,232.09	179.00	19.056		
17,600.00	7,630.00	7,981.32	7,701.72	145.58	39.74	91.13	-8,783.35	2,377.54	3,341.32	3,160.51	180.81	18.480		
17,700.00	7,630.00	7,981.80	7,702.21	147.01	39.74	91.14	-8,783.35	2,377.55	3,273.11	3,090.47	182.64	17.921		
17,800.00	7,630.00	7,982.29	7,702.69	148.45	39.74	91.15	-8,783.35	2,377.56	3,206.58	3,022.07	184.51	17.379		
17,900.00	7,630.00	7,982.79	7,703.19	149.91	39.74	91.17	-8,783.36	2,377.57	3,141.82	2,955.42	186.40	16.855		
18,000.00	7,630.00	7,983.28	7,703.69	151.37	39.75	91.18	-8,783.36	2,377.58	3,078.94	2,890.63	188.30	16.351		
18,100.00	7,630.00	7,983.79	7,704.19	152.84	39.75	91.19	-8,783.36	2,377.59	3,018.07	2,827.85	190.22	15.866		
18,200.00	7,630.00	7,984.30	7,704.70	154.32	39.75	91.20	-8,783.36	2,377.60	2,959.32	2,767.20	192.13	15.403		
18,300.00	7,630.00	7,984.81	7,705.21	155.81	39.75	91.21	-8,783.36	2,377.62	2,902.83	2,708.81	194.02	14.961		
18,400.00	7,630.00	7,985.33	7,705.73	157.31	39.75	91.23	-8,783.36	2,377.63	2,848.74	2,652.85	195.89	14.542		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
18,500.00	7,630.00	7,985.85	7,706.26	158.81	39.75	91.24	-8,783.36	2,377.64	2,797.17	2,599.45	197.72	14.147	
18,600.00	7,630.00	7,986.38	7,706.79	160.32	39.75	91.25	-8,783.37	2,377.65	2,748.28	2,548.78	199.50	13.776	
18,700.00	7,630.00	7,986.92	7,707.32	161.84	39.76	91.26	-8,783.37	2,377.66	2,702.20	2,501.00	201.20	13.430	
18,800.00	7,630.00	7,987.46	7,707.86	163.37	39.76	91.28	-8,783.37	2,377.68	2,659.09	2,456.28	202.81	13.111	
18,900.00	7,630.00	7,988.01	7,708.41	164.90	39.76	91.29	-8,783.37	2,377.69	2,619.09	2,414.77	204.31	12.819	
19,000.00	7,630.00	7,988.56	7,708.96	166.43	39.76	91.30	-8,783.37	2,377.70	2,582.34	2,376.65	205.68	12.555	
19,100.00	7,630.00	7,989.12	7,709.52	167.98	39.76	91.32	-8,783.38	2,377.72	2,548.99	2,342.08	206.90	12.320	
19,200.00	7,630.00	7,989.69	7,710.09	169.53	39.76	91.33	-8,783.38	2,377.73	2,519.16	2,311.21	207.96	12.114	
19,300.00	7,630.00	7,990.26	7,710.66	171.08	39.76	91.34	-8,783.38	2,377.74	2,493.00	2,284.18	208.82	11.939	
19,400.00	7,630.00	7,990.84	7,711.24	172.64	39.76	91.36	-8,783.38	2,377.76	2,470.61	2,261.13	209.47	11.794	
19,500.00	7,630.00	7,991.42	7,711.82	174.21	39.77	91.37	-8,783.38	2,377.77	2,452.09	2,242.19	209.91	11.682	
19,518.56	7,630.00	7,991.53	7,711.93	174.50	39.77	91.37	-8,783.38	2,377.78	2,449.09	2,239.13	209.96	11.664 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	163.65	-7,118.47	2,087.74	7,418.34					
100.00	100.00	44.21	44.21	0.13	0.08	163.65	-7,118.59	2,088.18	7,418.97	7,418.77	0.20	N/A		
200.00	200.00	74.00	73.98	0.49	0.14	163.65	-7,118.80	2,088.99	7,420.49	7,419.88	0.61	N/A		
300.00	300.00	119.72	119.67	0.85	0.29	163.63	-7,119.38	2,090.69	7,422.82	7,421.69	1.13	6,564.223		
400.00	400.00	166.00	165.89	1.21	0.45	163.62	-7,120.33	2,092.76	7,425.99	7,424.34	1.66	4,480.849		
500.00	499.98	222.18	221.98	1.56	0.66	96.81	-7,121.73	2,095.75	7,430.04	7,427.82	2.22	3,349.718		
600.00	599.84	307.92	307.49	1.92	0.98	96.71	-7,123.81	2,101.50	7,434.88	7,431.99	2.89	2,572.282		
700.00	699.45	349.00	348.43	2.29	1.14	96.60	-7,124.65	2,104.81	7,440.39	7,436.98	3.41	2,182.908		
800.00	798.70	410.59	409.75	2.67	1.38	96.49	-7,126.16	2,110.32	7,446.87	7,442.85	4.02	1,851.309		
900.00	897.47	440.00	439.02	3.07	1.49	96.35	-7,127.13	2,113.15	7,454.68	7,450.14	4.53	1,644.044		
1,000.00	995.62	477.11	475.89	3.50	1.65	96.19	-7,128.58	2,117.08	7,463.74	7,458.63	5.11	1,461.701		
1,100.00	1,093.06	533.00	531.28	3.96	1.88	96.04	-7,131.29	2,124.04	7,474.27	7,468.48	5.78	1,292.325		
1,200.00	1,189.64	545.64	543.78	4.46	1.93	95.82	-7,131.96	2,125.77	7,485.78	7,479.45	6.33	1,182.653		
1,300.00	1,285.27	625.00	622.14	5.00	2.27	95.67	-7,135.95	2,137.64	7,498.21	7,491.01	7.19	1,042.236		
1,400.00	1,379.82	680.60	676.88	5.60	2.53	95.48	-7,138.66	2,147.02	7,511.43	7,503.41	8.02	936.639		
1,500.00	1,473.17	737.25	732.46	6.25	2.79	95.29	-7,141.55	2,157.60	7,525.67	7,516.77	8.91	844.968		
1,600.00	1,565.21	805.00	798.57	6.95	3.12	95.09	-7,144.67	2,172.03	7,540.59	7,530.68	9.91	760.847		
1,700.00	1,655.84	842.86	835.36	7.72	3.32	94.83	-7,146.42	2,180.83	7,556.48	7,545.63	10.84	696.801		
1,800.00	1,744.94	893.00	883.90	8.55	3.59	94.59	-7,149.20	2,193.05	7,573.63	7,561.73	11.90	636.401		
1,900.00	1,832.39	911.93	902.18	9.45	3.69	94.26	-7,150.36	2,197.85	7,591.77	7,578.91	12.87	590.035		
2,000.00	1,918.11	962.03	950.36	10.41	3.97	93.98	-7,153.42	2,211.23	7,610.95	7,596.88	14.06	541.147		
2,100.00	2,001.97	1,002.47	989.03	11.45	4.21	93.67	-7,155.93	2,222.77	7,631.05	7,615.76	15.28	499.311		
2,200.00	2,083.88	1,031.00	1,016.18	12.56	4.38	93.31	-7,157.78	2,231.35	7,652.18	7,635.68	16.50	463.678		
2,300.00	2,163.74	1,075.73	1,058.58	13.74	4.67	92.97	-7,160.89	2,245.26	7,674.31	7,656.41	17.90	428.831		
2,400.00	2,241.45	1,152.55	1,131.25	14.99	5.16	92.73	-7,166.64	2,269.50	7,697.30	7,677.74	19.56	393.479		
2,421.22	2,257.65	1,177.52	1,154.91	15.26	5.32	92.71	-7,168.52	2,277.24	7,702.21	7,682.23	19.98	385.504		
2,500.00	2,317.63	1,183.00	1,160.11	16.29	5.36	92.72	-7,168.93	2,278.94	7,720.76	7,699.78	20.98	367.923		
2,600.00	2,393.75	1,237.35	1,211.48	17.62	5.72	92.89	-7,173.25	2,296.15	7,744.86	7,722.28	22.58	342.962		
2,700.00	2,469.88	1,270.00	1,242.17	18.95	5.94	92.99	-7,176.08	2,306.93	7,769.91	7,745.87	24.04	323.185		
2,800.00	2,546.01	1,528.51	1,484.36	20.30	7.77	93.74	-7,195.96	2,395.06	7,794.67	7,767.55	27.13	287.351		
2,900.00	2,622.13	1,575.57	1,528.36	21.65	8.11	93.87	-7,199.05	2,411.50	7,818.68	7,789.95	28.73	272.132		
3,000.00	2,698.26	1,621.62	1,571.32	23.01	8.45	93.99	-7,202.31	2,427.74	7,843.37	7,813.04	30.33	258.593		
3,100.00	2,774.38	1,731.43	1,673.52	24.37	9.27	94.29	-7,210.02	2,467.15	7,868.30	7,835.87	32.43	242.645		
3,200.00	2,850.51	1,812.88	1,749.25	25.74	9.88	94.51	-7,215.70	2,496.59	7,893.39	7,859.07	34.32	230.013		
3,300.00	2,926.64	1,903.88	1,833.82	27.11	10.57	94.75	-7,222.03	2,529.61	7,918.65	7,882.36	36.29	218.211		
3,400.00	3,002.76	1,968.00	1,893.34	28.49	11.06	94.91	-7,226.49	2,553.02	7,944.14	7,906.09	38.05	208.765		
3,500.00	3,078.89	2,026.01	1,947.14	29.87	11.51	95.06	-7,230.73	2,574.30	7,970.12	7,930.35	39.77	200.403		
3,600.00	3,155.02	2,090.34	2,006.76	31.25	12.01	95.23	-7,235.80	2,597.93	7,996.69	7,955.16	41.54	192.517		
3,700.00	3,231.14	2,179.07	2,089.09	32.63	12.69	95.46	-7,242.91	2,630.24	8,023.50	7,980.00	43.50	184.445		
3,800.00	3,307.27	2,230.00	2,136.46	34.01	13.09	95.59	-7,247.08	2,648.47	8,050.57	8,005.42	45.15	178.304		
3,900.00	3,383.39	2,287.72	2,190.16	35.40	13.53	95.75	-7,252.09	2,669.02	8,078.18	8,031.33	46.85	172.426		
4,000.00	3,459.52	4,000.00	2,274.40	36.79	26.76	95.98	-7,260.35	2,701.54	8,106.28	8,045.71	60.57	133.826		
4,100.00	3,535.65	2,492.00	2,379.84	38.18	15.11	96.27	-7,270.16	2,742.69	8,134.13	8,083.13	51.00	159.507		
4,200.00	3,611.77	2,531.78	2,416.76	39.57	15.41	96.38	-7,273.71	2,757.07	8,162.43	8,109.89	52.54	155.349		
4,300.00	3,687.90	2,579.00	2,460.68	40.96	15.78	96.50	-7,278.39	2,773.78	8,191.50	8,137.36	54.15	151.286		
4,400.00	3,764.02	2,691.35	2,565.23	42.35	16.64	96.79	-7,289.51	2,813.36	8,220.78	8,164.49	56.29	146.040		
4,500.00	3,840.15	2,754.00	2,623.44	43.74	17.12	96.95	-7,295.67	2,835.69	8,250.19	8,192.16	58.02	142.194		
4,600.00	3,916.28	2,868.20	2,729.24	45.13	18.02	97.24	-7,306.68	2,877.25	8,279.68	8,219.47	60.21	137.518		
4,700.00	3,992.40	2,960.39	2,814.49	46.53	18.75	97.46	-7,315.44	2,911.24	8,309.24	8,247.04	62.21	133.573		
4,800.00	4,068.53	3,103.61	2,947.59	47.92	19.87	97.82	-7,328.78	2,962.39	8,338.62	8,273.98	64.64	129.003		
4,900.00	4,144.66	3,175.58	3,014.16	49.32	20.44	97.99	-7,335.18	2,988.99	8,367.91	8,301.44	66.47	125.895		
5,000.00	4,220.78	3,285.94	3,116.28	50.71	21.32	98.26	-7,345.03	3,029.63	8,397.34	8,328.71	68.63	122.348		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,296.91	3,348.11	3,173.88	52.11	21.81	98.40	-7,350.63	3,052.36	8,426.92	8,356.55	70.37	119.758		
5,200.00	4,373.03	3,398.17	3,220.12	53.51	22.21	98.52	-7,355.26	3,070.99	8,456.93	8,384.95	71.99	117.480		
5,300.00	4,449.16	3,452.00	3,269.86	54.90	22.64	98.65	-7,360.58	3,090.85	8,487.55	8,413.92	73.64	115.262		
5,400.00	4,525.29	3,489.53	3,304.57	56.30	22.94	98.74	-7,364.51	3,104.57	8,518.74	8,443.61	75.13	113.393		
5,500.00	4,601.41	3,500.00	3,494.22	57.70	39.15	99.22	-7,385.34	3,180.16	8,550.11	8,458.04	92.07	92.865		
5,600.00	4,677.54	3,772.51	3,565.92	59.10	25.21	99.39	-7,392.36	3,209.41	8,580.46	8,500.41	80.05	107.188		
5,700.00	4,753.66	3,802.00	3,593.04	60.49	25.45	99.46	-7,395.13	3,220.64	8,611.39	8,529.92	81.47	105.703		
5,800.00	4,829.79	3,837.90	3,626.05	61.89	25.75	99.54	-7,398.75	3,234.28	8,643.01	8,560.07	82.94	104.213		
5,900.00	4,905.92	3,889.00	3,673.07	63.29	26.17	99.65	-7,404.56	3,253.43	8,675.55	8,591.00	84.54	102.616		
6,000.00	4,982.04	4,849.00	4,586.69	64.69	32.43	102.24	-7,470.42	3,533.55	8,702.28	8,609.19	93.09	93.481		
6,100.00	5,058.17	4,894.11	4,630.92	66.09	32.64	102.38	-7,471.93	3,542.25	8,726.51	8,631.96	94.55	92.295		
6,200.00	5,134.30	5,173.97	4,906.79	67.49	33.84	103.33	-7,479.16	3,588.56	8,750.10	8,652.94	97.16	90.061		
6,300.00	5,210.42	5,295.55	5,027.37	68.89	34.28	103.76	-7,481.13	3,603.89	8,772.97	8,674.08	98.89	88.712		
6,400.00	5,286.55	5,348.40	5,079.93	70.29	34.46	103.95	-7,482.05	3,609.31	8,796.09	8,695.77	100.31	87.689		
6,500.00	5,362.67	5,397.87	5,129.18	71.69	34.61	104.14	-7,483.11	3,613.83	8,819.80	8,718.10	101.70	86.726		
6,600.00	5,438.80	5,444.17	5,175.33	73.09	34.75	104.31	-7,484.32	3,617.44	8,844.15	8,741.10	103.05	85.820		
6,700.00	5,514.93	5,647.03	5,377.96	74.49	35.25	105.12	-7,489.00	3,625.06	8,868.42	8,763.58	104.83	84.595		
6,800.00	5,591.05	5,764.11	5,495.02	75.89	35.50	105.60	-7,490.74	3,626.25	8,892.35	8,786.04	106.31	83.644		
6,900.00	5,667.18	5,854.34	5,585.24	77.29	35.68	105.97	-7,491.87	3,626.83	8,916.51	8,808.80	107.71	82.786		
7,000.00	5,743.30	5,967.22	5,698.12	78.69	35.91	106.44	-7,493.00	3,627.40	8,940.90	8,831.75	109.14	81.918		
7,100.00	5,819.43	6,100.51	5,831.39	80.09	36.18	106.98	-7,493.60	3,627.79	8,965.24	8,854.62	110.62	81.044		
7,200.00	5,895.56	6,162.57	5,893.46	81.49	36.29	107.23	-7,493.80	3,627.73	8,989.88	8,877.96	111.92	80.327		
7,300.00	5,971.68	6,237.07	5,967.96	82.90	36.44	107.54	-7,494.02	3,627.44	9,014.91	8,901.68	113.23	79.616		
7,400.00	6,047.81	7,400.00	6,103.48	84.30	38.65	108.09	-7,493.61	3,626.82	9,039.71	8,923.05	116.67	77.484		
7,500.00	6,123.94	6,528.93	6,259.80	85.70	37.00	108.72	-7,492.23	3,626.32	9,064.57	8,948.42	116.15	78.042		
7,600.00	6,200.06	6,626.41	6,357.28	87.10	37.20	109.11	-7,490.92	3,626.07	9,089.55	8,972.05	117.50	77.359		
7,700.00	6,276.19	6,733.23	6,464.09	88.50	37.42	109.54	-7,489.18	3,626.03	9,114.69	8,995.83	118.86	76.682		
7,800.00	6,352.31	6,849.20	6,580.03	89.90	37.66	110.00	-7,486.86	3,626.25	9,139.94	9,019.69	120.25	76.011		
7,900.00	6,428.44	6,970.13	6,700.92	91.31	37.92	110.47	-7,483.88	3,626.60	9,165.20	9,043.56	121.63	75.353		
8,000.00	6,504.57	7,033.43	6,764.20	92.71	38.07	110.72	-7,482.27	3,627.01	9,190.76	9,067.87	122.89	74.790		
8,100.00	6,580.69	7,107.48	6,838.23	94.11	38.23	111.00	-7,480.42	3,627.77	9,216.70	9,092.54	124.16	74.234		
8,200.00	6,656.82	7,186.46	6,917.17	95.51	38.41	111.31	-7,478.45	3,628.82	9,243.02	9,117.58	125.44	73.685		
8,300.00	6,732.95	7,266.44	6,997.12	96.91	38.60	111.61	-7,476.45	3,629.99	9,269.67	9,142.95	126.72	73.153		
8,400.00	6,809.07	7,329.04	7,059.69	98.32	38.75	111.85	-7,474.91	3,630.99	9,296.70	9,168.76	127.94	72.662		
8,500.00	6,885.20	7,382.54	7,113.17	99.72	38.89	112.05	-7,473.73	3,631.96	9,324.27	9,195.13	129.14	72.203		
8,600.00	6,961.32	7,436.12	7,166.73	101.12	39.02	112.25	-7,472.70	3,633.05	9,352.38	9,222.05	130.33	71.761		
8,700.00	7,037.45	7,490.36	7,220.95	102.52	39.16	112.45	-7,471.80	3,634.27	9,381.02	9,249.52	131.51	71.334		
8,732.15	7,061.92	7,508.09	7,238.67	102.97	39.20	112.52	-7,471.54	3,634.70	9,390.34	9,258.46	131.89	71.200		
8,750.00	7,075.57	7,517.97	7,248.55	103.22	39.23	110.50	-7,471.40	3,634.94	9,395.28	9,263.18	132.10	71.123		
8,800.00	7,114.27	7,546.01	7,276.57	103.91	39.30	104.57	-7,471.03	3,635.66	9,406.32	9,273.62	132.70	70.882		
8,850.00	7,153.47	7,574.40	7,304.95	104.58	39.38	98.36	-7,470.69	3,636.42	9,413.22	9,279.90	133.32	70.605		
8,900.00	7,192.85	7,602.94	7,333.48	105.21	39.45	92.05	-7,470.39	3,637.21	9,415.94	9,281.99	133.94	70.297		
8,950.00	7,232.12	7,643.00	7,373.52	105.80	39.56	85.89	-7,470.04	3,638.40	9,414.46	9,279.86	134.60	69.944		
9,000.00	7,270.99	7,659.44	7,389.95	106.35	39.60	79.95	-7,469.91	3,638.90	9,408.77	9,273.59	135.17	69.605		
9,050.00	7,309.16	7,686.80	7,417.30	106.85	39.67	74.51	-7,469.73	3,639.72	9,398.94	9,263.17	135.77	69.228		
9,100.00	7,346.32	7,713.44	7,443.93	107.30	39.75	69.62	-7,469.59	3,640.53	9,385.03	9,248.69	136.34	68.837		
9,150.00	7,382.22	7,739.19	7,469.66	107.69	39.82	65.33	-7,469.48	3,641.30	9,367.13	9,230.25	136.88	68.435		
9,200.00	7,416.56	7,763.84	7,494.30	108.02	39.88	61.66	-7,469.41	3,642.04	9,345.38	9,207.99	137.38	68.024		
9,250.00	7,449.09	7,787.21	7,517.67	108.29	39.95	58.59	-7,469.36	3,642.74	9,319.92	9,182.07	137.85	67.607		
9,300.00	7,479.56	7,817.00	7,547.44	108.51	40.03	56.14	-7,469.34	3,643.62	9,290.95	9,152.63	138.31	67.174		
9,350.00	7,507.74	7,839.24	7,569.67	108.68	40.09	54.23	-7,469.33	3,644.27	9,258.63	9,119.92	138.71	66.749		
9,400.00	7,533.41	7,872.15	7,602.57	108.79	40.18	52.95	-7,469.29	3,645.19	9,223.18	9,084.08	139.10	66.305		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	7,901.45	7,631.86	108.86	40.26	52.24	-7,469.23	3,645.97	9,184.87	9,045.42	139.45	65.865		
9,500.00	7,576.48	7,926.94	7,657.34	108.88	40.32	52.19	-7,469.16	3,646.62	9,143.97	9,004.22	139.75	65.431		
9,550.00	7,593.55	7,948.46	7,678.85	108.86	40.38	52.92	-7,469.09	3,647.15	9,100.78	8,960.78	140.00	65.004		
9,600.00	7,607.46	7,965.87	7,696.26	108.80	40.43	54.72	-7,469.02	3,647.56	9,055.64	8,915.43	140.21	64.586		
9,650.00	7,618.11	7,979.07	7,709.46	108.71	40.46	58.17	-7,468.96	3,647.87	9,008.87	8,868.50	140.38	64.177		
9,700.00	7,625.41	7,988.00	7,718.38	108.59	40.49	64.66	-7,468.92	3,648.07	8,960.83	8,820.33	140.50	63.778		
9,750.00	7,629.30	7,994.76	7,725.14	108.45	40.51	77.85	-7,468.89	3,648.22	8,911.87	8,771.27	140.59	63.388		
9,781.81	7,630.00	7,997.76	7,728.14	108.35	40.52	93.68	-7,468.87	3,648.28	8,880.41	8,739.77	140.64	63.144		
9,800.00	7,630.00	7,997.21	7,727.59	108.29	40.51	93.66	-7,468.87	3,648.27	8,862.37	8,721.72	140.65	63.009		
9,900.00	7,630.00	7,994.35	7,724.73	107.97	40.51	93.51	-7,468.89	3,648.21	8,763.23	8,622.49	140.74	62.266		
10,000.00	7,630.00	7,991.94	7,722.32	107.67	40.50	93.39	-7,468.90	3,648.15	8,664.11	8,523.28	140.83	61.522		
10,100.00	7,630.00	7,991.33	7,721.71	107.38	40.50	93.36	-7,468.90	3,648.14	8,565.01	8,424.08	140.93	60.775		
10,200.00	7,630.00	7,990.72	7,721.10	107.10	40.50	93.33	-7,468.91	3,648.13	8,465.93	8,324.90	141.03	60.029		
10,300.00	7,630.00	7,990.12	7,720.50	106.84	40.49	93.30	-7,468.91	3,648.11	8,366.88	8,225.74	141.14	59.283		
10,400.00	7,630.00	7,989.52	7,719.90	106.59	40.49	93.28	-7,468.91	3,648.10	8,267.84	8,126.60	141.24	58.536		
10,500.00	7,630.00	7,988.93	7,719.31	106.35	40.49	93.25	-7,468.92	3,648.09	8,168.83	8,027.48	141.35	57.790		
10,600.00	7,630.00	7,988.34	7,718.72	106.13	40.49	93.22	-7,468.92	3,648.07	8,069.85	7,928.38	141.47	57.043		
10,700.00	7,630.00	7,987.75	7,718.14	105.92	40.49	93.19	-7,468.92	3,648.06	7,970.89	7,829.30	141.59	56.297		
10,800.00	7,630.00	7,987.17	7,717.55	105.72	40.49	93.16	-7,468.92	3,648.05	7,871.95	7,730.25	141.71	55.551		
10,900.00	7,630.00	7,986.59	7,716.98	105.54	40.49	93.13	-7,468.93	3,648.04	7,773.05	7,631.22	141.83	54.805		
11,000.00	7,630.00	7,986.02	7,716.40	105.37	40.48	93.10	-7,468.93	3,648.02	7,674.17	7,532.21	141.96	54.059		
11,100.00	7,630.00	7,985.45	7,715.83	105.21	40.48	93.07	-7,468.93	3,648.01	7,575.32	7,433.23	142.09	53.313		
11,200.00	7,630.00	7,984.88	7,715.26	105.06	40.48	93.04	-7,468.93	3,648.00	7,476.50	7,334.28	142.23	52.568		
11,300.00	7,630.00	7,984.32	7,714.70	104.93	40.48	93.02	-7,468.94	3,647.98	7,377.72	7,235.35	142.37	51.822		
11,400.00	7,630.00	7,983.76	7,714.14	104.82	40.48	92.99	-7,468.94	3,647.97	7,278.96	7,136.45	142.51	51.077		
11,500.00	7,630.00	7,983.20	7,713.59	104.72	40.48	92.96	-7,468.94	3,647.96	7,180.24	7,037.59	142.66	50.332		
11,600.00	7,630.00	7,982.65	7,713.03	104.63	40.47	92.93	-7,468.94	3,647.95	7,081.56	6,938.75	142.81	49.587		
11,700.00	7,630.00	7,982.10	7,712.48	104.55	40.47	92.91	-7,468.95	3,647.93	6,982.91	6,839.95	142.97	48.843		
11,800.00	7,630.00	7,981.56	7,711.94	104.50	40.47	92.88	-7,468.95	3,647.92	6,884.31	6,741.18	143.13	48.098		
11,900.00	7,630.00	7,981.01	7,711.40	104.45	40.47	92.85	-7,468.95	3,647.91	6,785.74	6,642.44	143.30	47.354		
12,000.00	7,630.00	7,980.47	7,710.86	104.43	40.47	92.83	-7,468.95	3,647.90	6,687.22	6,543.75	143.47	46.610		
12,100.00	7,630.00	7,979.94	7,710.32	104.42	40.47	92.80	-7,468.96	3,647.89	6,588.74	6,445.09	143.65	45.867		
12,200.00	7,630.00	7,979.41	7,709.79	104.42	40.47	92.77	-7,468.96	3,647.87	6,490.31	6,346.47	143.83	45.124		
12,300.00	7,630.00	7,978.88	7,709.26	104.45	40.46	92.75	-7,468.96	3,647.86	6,391.92	6,247.90	144.02	44.381		
12,400.00	7,630.00	7,978.35	7,708.74	104.49	40.46	92.72	-7,468.96	3,647.85	6,293.59	6,149.37	144.22	43.639		
12,500.00	7,630.00	7,977.83	7,708.21	104.55	40.46	92.69	-7,468.97	3,647.84	6,195.31	6,050.89	144.42	42.897		
12,600.00	7,630.00	7,977.31	7,707.69	104.63	40.46	92.67	-7,468.97	3,647.83	6,097.09	5,952.45	144.63	42.156		
12,700.00	7,630.00	7,976.79	7,707.18	104.73	40.46	92.64	-7,468.97	3,647.81	5,998.92	5,854.07	144.85	41.415		
12,800.00	7,630.00	7,976.28	7,706.67	104.85	40.46	92.62	-7,468.97	3,647.80	5,900.82	5,755.74	145.07	40.674		
12,900.00	7,630.00	7,975.77	7,706.16	104.99	40.46	92.59	-7,468.98	3,647.79	5,802.78	5,657.47	145.31	39.935		
13,000.00	7,630.00	7,975.27	7,705.65	105.15	40.45	92.57	-7,468.98	3,647.78	5,704.81	5,559.26	145.55	39.195		
13,100.00	7,630.00	7,974.76	7,705.15	105.34	40.45	92.54	-7,468.98	3,647.77	5,606.91	5,461.11	145.80	38.457		
13,200.00	7,630.00	7,974.26	7,704.65	105.56	40.45	92.52	-7,468.98	3,647.76	5,509.08	5,363.03	146.06	37.719		
13,300.00	7,630.00	7,973.76	7,704.15	105.80	40.45	92.49	-7,468.99	3,647.75	5,411.34	5,265.02	146.33	36.982		
13,400.00	7,630.00	7,973.27	7,703.65	106.06	40.45	92.47	-7,468.99	3,647.73	5,313.68	5,167.08	146.60	36.245		
13,500.00	7,630.00	7,972.78	7,703.16	106.36	40.45	92.44	-7,468.99	3,647.72	5,216.11	5,069.22	146.89	35.510		
13,600.00	7,630.00	7,972.29	7,702.67	106.68	40.45	92.42	-7,468.99	3,647.71	5,118.63	4,971.44	147.19	34.775		
13,700.00	7,630.00	7,971.80	7,702.19	107.03	40.45	92.40	-7,468.99	3,647.70	5,021.25	4,873.75	147.51	34.041		
13,800.00	7,630.00	7,971.32	7,701.71	107.42	40.44	92.37	-7,469.00	3,647.69	4,923.98	4,776.15	147.83	33.308		
13,900.00	7,630.00	7,970.84	7,701.23	107.83	40.44	92.35	-7,469.00	3,647.68	4,826.82	4,678.65	148.17	32.577		
14,000.00	7,630.00	7,970.36	7,700.75	108.28	40.44	92.32	-7,469.00	3,647.67	4,729.77	4,581.25	148.52	31.846		
14,100.00	7,630.00	7,969.89	7,700.28	108.77	40.44	92.30	-7,469.00	3,647.66	4,632.85	4,483.97	148.89	31.117		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,630.00	7,969.42	7,699.81	109.29	40.44	92.28	-7,469.00	3,647.64	4,536.07	4,386.80	149.27	30.389		
14,300.00	7,630.00	7,968.95	7,699.34	109.84	40.44	92.25	-7,469.01	3,647.63	4,439.43	4,289.76	149.67	29.662		
14,400.00	7,630.00	7,968.48	7,698.87	110.43	40.44	92.23	-7,469.01	3,647.62	4,342.94	4,192.85	150.08	28.937		
14,500.00	7,630.00	7,968.02	7,698.41	111.06	40.43	92.21	-7,469.01	3,647.61	4,246.61	4,096.09	150.52	28.214		
14,600.00	7,630.00	7,967.56	7,697.95	111.72	40.43	92.18	-7,469.01	3,647.60	4,150.45	3,999.48	150.97	27.492		
14,700.00	7,630.00	7,967.10	7,697.49	112.42	40.43	92.16	-7,469.01	3,647.59	4,054.48	3,903.04	151.44	26.772		
14,800.00	7,630.00	7,966.65	7,697.03	113.16	40.43	92.14	-7,469.02	3,647.58	3,958.72	3,806.78	151.94	26.054		
14,900.00	7,630.00	7,966.20	7,696.58	113.94	40.43	92.12	-7,469.02	3,647.57	3,863.16	3,710.70	152.46	25.339		
15,000.00	7,630.00	7,965.75	7,696.13	114.75	40.43	92.09	-7,469.02	3,647.56	3,767.84	3,614.83	153.01	24.625		
15,100.00	7,630.00	7,965.30	7,695.69	115.60	40.43	92.07	-7,469.02	3,647.55	3,672.76	3,519.18	153.58	23.915		
15,200.00	7,630.00	7,964.85	7,695.24	116.48	40.43	92.05	-7,469.02	3,647.54	3,577.96	3,423.78	154.18	23.206		
15,300.00	7,630.00	7,964.41	7,694.80	117.40	40.43	92.03	-7,469.03	3,647.53	3,483.44	3,328.63	154.81	22.501		
15,400.00	7,630.00	7,963.97	7,694.36	118.35	40.42	92.01	-7,469.03	3,647.52	3,389.24	3,233.76	155.47	21.799		
15,500.00	7,630.00	7,963.53	7,693.92	119.34	40.42	91.98	-7,469.03	3,647.51	3,295.38	3,139.21	156.17	21.101		
15,600.00	7,630.00	7,963.10	7,693.49	120.35	40.42	91.96	-7,469.03	3,647.50	3,201.89	3,044.98	156.91	20.406		
15,700.00	7,630.00	7,962.67	7,693.05	121.40	40.42	91.94	-7,469.03	3,647.49	3,108.81	2,951.13	157.68	19.716		
15,800.00	7,630.00	7,962.24	7,692.62	122.48	40.42	91.92	-7,469.03	3,647.48	3,016.17	2,857.67	158.50	19.030		
15,900.00	7,630.00	7,961.81	7,692.20	123.58	40.42	91.90	-7,469.04	3,647.47	2,924.01	2,764.65	159.36	18.349		
16,000.00	7,630.00	7,961.38	7,691.77	124.71	40.42	91.88	-7,469.04	3,647.46	2,832.39	2,672.12	160.27	17.673		
16,100.00	7,630.00	7,960.96	7,691.35	125.87	40.42	91.86	-7,469.04	3,647.45	2,741.35	2,580.13	161.23	17.003		
16,200.00	7,630.00	7,960.54	7,690.93	127.05	40.41	91.84	-7,469.04	3,647.44	2,650.96	2,488.72	162.24	16.340		
16,300.00	7,630.00	7,960.12	7,690.51	128.26	40.41	91.81	-7,469.04	3,647.43	2,561.28	2,397.98	163.30	15.684		
16,400.00	7,630.00	7,959.71	7,690.10	129.48	40.41	91.79	-7,469.04	3,647.42	2,472.40	2,307.97	164.43	15.036		
16,500.00	7,630.00	7,959.29	7,689.68	130.73	40.41	91.77	-7,469.05	3,647.41	2,384.39	2,218.77	165.62	14.397		
16,600.00	7,630.00	7,958.88	7,689.27	132.00	40.41	91.75	-7,469.05	3,647.40	2,297.37	2,130.50	166.87	13.767		
16,700.00	7,630.00	7,958.47	7,688.86	133.29	40.41	91.73	-7,469.05	3,647.39	2,211.44	2,043.26	168.18	13.149		
16,800.00	7,630.00	7,958.07	7,688.46	134.59	40.41	91.71	-7,469.05	3,647.38	2,126.75	1,957.18	169.56	12.542		
16,900.00	7,630.00	7,957.66	7,688.05	135.91	40.41	91.69	-7,469.05	3,647.37	2,043.44	1,872.43	171.01	11.949		
17,000.00	7,630.00	7,957.26	7,687.65	137.25	40.41	91.67	-7,469.05	3,647.36	1,961.69	1,789.18	172.51	11.371		
17,100.00	7,630.00	7,956.86	7,687.25	138.61	40.40	91.65	-7,469.06	3,647.35	1,881.70	1,707.63	174.06	10.810		
17,200.00	7,630.00	7,956.46	7,686.85	139.97	40.40	91.63	-7,469.06	3,647.34	1,803.71	1,628.05	175.66	10.268		
17,300.00	7,630.00	7,956.07	7,686.45	141.36	40.40	91.61	-7,469.06	3,647.33	1,727.99	1,550.71	177.28	9.747		
17,400.00	7,630.00	7,955.67	7,686.06	142.75	40.40	91.59	-7,469.06	3,647.32	1,654.85	1,475.94	178.91	9.250		
17,500.00	7,630.00	7,955.28	7,685.67	144.16	40.40	91.57	-7,469.06	3,647.31	1,584.64	1,404.14	180.50	8.779		
17,600.00	7,630.00	7,954.89	7,685.28	145.58	40.40	91.55	-7,469.06	3,647.30	1,517.79	1,335.77	182.02	8.339		
17,700.00	7,630.00	7,954.50	7,684.89	147.01	40.40	91.54	-7,469.07	3,647.30	1,454.73	1,271.32	183.41	7.932		
17,800.00	7,630.00	7,954.12	7,684.51	148.45	40.40	91.52	-7,469.07	3,647.29	1,396.00	1,211.40	184.60	7.562		
17,900.00	7,630.00	7,953.73	7,684.12	149.91	40.40	91.50	-7,469.07	3,647.28	1,342.16	1,156.66	185.51	7.235		
18,000.00	7,630.00	7,953.35	7,683.74	151.37	40.40	91.48	-7,469.07	3,647.27	1,293.82	1,107.78	186.04	6.955		
18,100.00	7,630.00	7,952.97	7,683.36	152.84	40.39	91.46	-7,469.07	3,647.26	1,251.62	1,065.53	186.09	6.726		
18,200.00	7,630.00	7,952.60	7,682.99	154.32	40.39	91.44	-7,469.07	3,647.25	1,216.19	1,030.62	185.57	6.554		
18,300.00	7,630.00	7,952.22	7,682.61	155.81	40.39	91.42	-7,469.07	3,647.24	1,188.15	1,003.75	184.40	6.443		
18,400.00	7,630.00	7,951.85	7,682.24	157.31	40.39	91.40	-7,469.08	3,647.23	1,168.02	985.49	182.53	6.399 SF		
18,500.00	7,630.00	7,951.48	7,681.87	158.81	40.39	91.38	-7,469.08	3,647.22	1,156.22	976.24	179.97	6.424		
18,587.14	7,630.00	7,951.15	7,681.54	160.13	40.39	91.37	-7,469.08	3,647.22	1,152.93	975.71	177.22	6.506 CC, ES		
18,600.00	7,630.00	7,951.11	7,681.50	160.32	40.39	91.37	-7,469.08	3,647.21	1,153.00	976.23	176.77	6.522		
18,700.00	7,630.00	7,950.74	7,681.13	161.84	40.39	91.35	-7,469.08	3,647.21	1,158.44	985.40	173.04	6.695		
18,800.00	7,630.00	7,950.37	7,680.76	163.37	40.39	91.33	-7,469.08	3,647.20	1,172.41	1,003.50	168.91	6.941		
18,900.00	7,630.00	7,950.01	7,680.40	164.90	40.39	91.31	-7,469.08	3,647.19	1,194.62	1,030.07	164.55	7.260		
19,000.00	7,630.00	7,949.65	7,680.04	166.43	40.39	91.29	-7,469.08	3,647.18	1,224.62	1,064.51	160.11	7.649		
19,100.00	7,630.00	7,949.29	7,679.68	167.98	40.38	91.28	-7,469.08	3,647.17	1,261.85	1,106.12	155.73	8.103		
19,200.00	7,630.00	7,948.93	7,679.32	169.53	40.38	91.26	-7,469.09	3,647.16	1,305.70	1,154.17	151.53	8.617		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,300.00	7,630.00	7,948.57	7,678.96	171.08	40.38	91.24	-7,469.09	3,647.15	1,355.51	1,207.93	147.58	9.185	
19,400.00	7,630.00	7,948.22	7,678.61	172.64	40.38	91.22	-7,469.09	3,647.15	1,410.67	1,266.71	143.96	9.799	
19,500.00	7,630.00	7,947.87	7,678.26	174.21	40.38	91.21	-7,469.09	3,647.14	1,470.56	1,329.89	140.67	10.454	
19,518.56	7,630.00	7,947.80	7,678.19	174.50	40.38	91.20	-7,469.09	3,647.14	1,482.16	1,342.05	140.10	10.579	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	162.55	-5,369.55	1,688.22	5,628.70					
100.00	100.00	51.45	51.45	0.13	0.08	162.55	-5,369.80	1,688.09	5,629.05	5,628.83	0.22	N/A		
200.00	200.00	160.89	160.88	0.49	0.39	162.56	-5,371.27	1,687.07	5,630.08	5,629.20	0.88	6,362.303		
300.00	300.00	254.01	253.98	0.85	0.73	162.58	-5,372.16	1,685.86	5,630.62	5,629.04	1.58	3,570.363		
400.00	400.00	348.27	348.22	1.21	1.07	162.59	-5,373.33	1,684.63	5,631.41	5,629.14	2.27	2,475.865		
500.00	499.98	410.59	410.53	1.56	1.29	95.87	-5,374.37	1,683.53	5,632.68	5,629.83	2.85	1,973.556		
600.00	599.84	456.00	455.90	1.92	1.46	95.86	-5,375.64	1,682.22	5,635.12	5,631.74	3.37	1,670.229		
700.00	699.45	510.88	510.69	2.29	1.66	95.86	-5,377.85	1,680.10	5,638.78	5,634.84	3.94	1,430.923		
800.00	798.70	549.00	548.72	2.67	1.80	95.83	-5,379.85	1,678.29	5,643.78	5,639.32	4.46	1,265.274		
900.00	897.47	598.60	598.15	3.07	1.99	95.81	-5,383.04	1,675.63	5,650.13	5,645.08	5.05	1,119.680		
1,000.00	995.62	640.00	639.35	3.50	2.15	95.77	-5,386.22	1,673.20	5,657.88	5,652.25	5.63	1,005.490		
1,100.00	1,093.06	681.18	680.28	3.96	2.31	95.72	-5,389.86	1,670.57	5,667.04	5,660.80	6.24	907.918		
1,200.00	1,189.64	732.00	730.72	4.46	2.51	95.69	-5,394.99	1,667.02	5,677.65	5,670.71	6.93	819.194		
1,300.00	1,285.27	759.85	758.31	5.00	2.62	95.56	-5,398.12	1,664.92	5,689.64	5,682.07	7.57	751.109		
1,400.00	1,379.82	796.82	794.88	5.60	2.78	95.45	-5,402.63	1,661.95	5,703.12	5,694.82	8.30	687.031		
1,500.00	1,473.17	825.00	822.72	6.25	2.89	95.28	-5,406.34	1,659.55	5,718.10	5,709.06	9.04	632.475		
1,600.00	1,565.21	871.50	868.54	6.95	3.10	95.18	-5,412.95	1,655.24	5,734.51	5,724.59	9.91	578.444		
1,700.00	1,655.84	919.00	915.21	7.72	3.30	95.08	-5,420.32	1,650.37	5,752.41	5,741.56	10.85	530.376		
1,800.00	1,744.94	949.17	944.78	8.55	3.44	94.87	-5,425.28	1,647.02	5,771.70	5,759.94	11.77	490.517		
1,900.00	1,832.39	990.92	985.62	9.45	3.64	94.71	-5,432.44	1,642.08	5,792.40	5,779.61	12.80	452.654		
2,000.00	1,918.11	1,012.00	1,006.19	10.41	3.74	94.40	-5,436.18	1,639.45	5,814.55	5,800.76	13.79	421.579		
2,100.00	2,001.97	1,055.60	1,048.64	11.45	3.95	94.21	-5,444.28	1,633.66	5,838.12	5,823.16	14.96	390.273		
2,200.00	2,083.88	1,106.00	1,097.48	12.56	4.20	94.06	-5,454.35	1,626.32	5,863.37	5,847.15	16.22	361.592		
2,300.00	2,163.74	1,115.99	1,107.13	13.74	4.25	93.59	-5,466.42	1,624.80	5,889.91	5,872.57	17.34	339.674		
2,400.00	2,241.45	1,200.74	1,188.99	14.99	4.70	93.67	-5,473.84	1,611.44	5,917.70	5,898.80	18.90	313.164		
2,421.22	2,257.65	1,218.05	1,205.70	15.26	4.79	93.69	-5,477.37	1,608.63	5,923.71	5,904.48	19.23	308.029		
2,500.00	2,317.63	1,217.88	1,205.53	16.29	4.79	93.69	-5,477.40	1,608.69	5,946.67	5,926.52	20.15	295.058		
2,600.00	2,393.75	1,239.65	1,226.51	17.62	4.91	93.86	-5,482.07	1,605.26	5,977.01	5,955.57	21.44	278.807		
2,700.00	2,469.88	1,278.50	1,263.98	18.95	5.11	94.17	-5,490.51	1,599.45	6,008.54	5,985.73	22.81	263.468		
2,800.00	2,546.01	1,388.52	1,370.42	20.30	5.70	95.02	-5,514.19	1,584.79	6,041.05	6,016.51	24.53	246.249		
2,900.00	2,622.13	1,471.50	1,450.91	21.65	6.14	95.65	-5,531.33	1,574.15	6,073.82	6,047.70	26.12	232.577		
3,000.00	2,698.26	1,518.69	1,496.64	23.01	6.40	96.01	-5,541.06	1,567.76	6,107.39	6,079.88	27.51	222.001		
3,100.00	2,774.38	1,555.94	1,532.68	24.37	6.60	96.30	-5,548.88	1,562.50	6,142.04	6,113.19	28.85	212.925		
3,200.00	2,850.51	1,584.00	1,559.79	25.74	6.75	96.52	-5,554.87	1,558.43	6,177.76	6,147.64	30.12	205.095		
3,300.00	2,926.64	1,624.38	1,598.75	27.11	6.98	96.83	-5,563.66	1,552.48	6,214.54	6,183.09	31.45	197.580		
3,400.00	3,002.76	1,656.85	1,630.04	28.49	7.16	97.07	-5,570.87	1,547.70	6,252.41	6,219.68	32.73	191.032		
3,500.00	3,078.89	1,708.36	1,679.65	29.87	7.45	97.47	-5,582.51	1,540.13	6,291.31	6,257.21	34.10	184.512		
3,600.00	3,155.02	1,944.61	1,908.09	31.25	8.76	99.24	-5,632.77	1,507.04	6,330.40	6,293.95	36.45	173.665		
3,700.00	3,231.14	2,118.70	2,077.43	32.63	9.69	100.51	-5,665.36	1,483.17	6,368.25	6,329.81	38.44	165.653		
3,800.00	3,307.27	2,147.00	2,104.99	34.01	9.84	100.72	-5,670.46	1,479.27	6,406.75	6,367.10	39.66	161.562		
3,900.00	3,383.39	2,195.27	2,151.95	35.40	10.10	101.07	-5,679.31	1,472.49	6,446.14	6,405.18	40.96	157.375		
4,000.00	3,459.52	2,240.00	2,195.38	36.79	10.34	101.40	-5,687.85	1,466.03	6,486.66	6,444.43	42.23	153.594		
4,100.00	3,535.65	2,258.55	2,213.38	38.18	10.44	101.53	-5,691.48	1,463.34	6,528.10	6,484.75	43.35	150.594		
4,200.00	3,611.77	2,299.86	2,253.47	39.57	10.66	101.83	-5,699.65	1,457.63	6,570.48	6,525.91	44.57	147.407		
4,300.00	3,687.90	2,352.31	2,304.40	40.96	10.95	102.20	-5,710.20	1,450.86	6,613.71	6,567.87	45.85	144.260		
4,400.00	3,764.02	2,479.55	2,428.01	42.35	11.63	103.10	-5,735.23	1,434.01	6,657.40	6,609.89	47.51	140.123		
4,500.00	3,840.15	2,550.28	2,496.85	43.74	12.01	103.59	-5,748.58	1,424.83	6,701.16	6,652.30	48.86	137.159		
4,600.00	3,916.28	2,584.67	2,530.30	45.13	12.20	103.83	-5,755.17	1,420.31	6,745.77	6,695.78	49.99	134.940		
4,700.00	3,992.40	2,621.52	2,566.10	46.53	12.39	104.08	-5,762.38	1,415.38	6,791.25	6,740.12	51.12	132.838		
4,800.00	4,068.53	2,680.91	2,623.77	47.92	12.72	104.49	-5,774.06	1,407.30	6,837.45	6,785.08	52.37	130.562		
4,900.00	4,144.66	3,051.36	2,985.51	49.32	14.63	106.98	-5,838.35	1,360.27	6,882.03	6,826.76	55.27	124.518		
5,000.00	4,220.78	3,084.00	3,017.53	50.71	14.79	107.19	-5,843.38	1,356.45	6,926.67	6,870.32	56.35	122.922		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	3,118.71	3,051.56	52.11	14.96	107.42	-5,848.88	1,352.42	6,972.15	6,914.72	57.43	121.407		
5,200.00	4,373.03	3,139.69	3,072.11	53.51	15.07	107.55	-5,852.38	1,349.98	7,018.60	6,960.18	58.42	120.144		
5,300.00	4,449.16	3,178.00	3,109.56	54.90	15.26	107.80	-5,859.08	1,345.53	7,066.05	7,006.56	59.49	118.783		
5,400.00	4,525.29	3,178.00	3,109.56	56.30	15.26	107.80	-5,859.08	1,345.53	7,114.27	7,053.93	60.33	117.916		
5,500.00	4,601.41	3,218.72	3,149.31	57.70	15.47	108.06	-5,866.51	1,340.75	7,163.35	7,101.97	61.39	116.689		
5,600.00	4,677.54	3,253.69	3,183.41	59.10	15.65	108.28	-5,873.03	1,336.60	7,213.19	7,150.80	62.40	115.599		
5,700.00	4,753.66	3,291.36	3,220.11	60.49	15.85	108.52	-5,880.17	1,332.02	7,263.76	7,200.35	63.41	114.550		
5,800.00	4,829.79	3,331.63	3,259.30	61.89	16.07	108.78	-5,887.87	1,326.82	7,315.01	7,250.59	64.43	113.540		
5,900.00	4,905.92	3,365.00	3,291.73	63.29	16.25	108.99	-5,894.28	1,322.24	7,366.94	7,301.55	65.39	112.665		
6,000.00	4,982.04	3,404.58	3,330.16	64.69	16.46	109.25	-5,901.98	1,316.69	7,419.54	7,353.17	66.37	111.783		
6,100.00	5,058.17	3,438.77	3,363.32	66.09	16.65	109.46	-5,908.78	1,311.94	7,472.84	7,405.53	67.32	111.010		
6,200.00	5,134.30	3,459.00	3,382.94	67.49	16.76	109.59	-5,912.86	1,309.14	7,526.85	7,458.68	68.16	110.423		
6,300.00	5,210.42	3,459.00	3,382.94	68.89	16.76	109.59	-5,912.86	1,309.14	7,581.73	7,512.86	68.87	110.080		
6,400.00	5,286.55	3,504.36	3,426.86	70.29	17.02	109.88	-5,922.39	1,302.99	7,637.10	7,567.26	69.85	109.341		
6,500.00	5,362.67	5,536.77	5,429.12	71.69	25.19	120.62	-6,136.97	1,169.02	7,688.35	7,608.25	80.10	95.989		
6,600.00	5,438.80	5,621.42	5,513.76	73.09	25.39	121.00	-6,136.23	1,169.48	7,727.24	7,646.01	81.23	95.127		
6,700.00	5,514.93	5,711.81	5,604.15	74.49	25.61	121.40	-6,135.24	1,169.74	7,766.36	7,683.98	82.38	94.277		
6,800.00	5,591.05	5,820.49	5,712.82	75.89	25.88	121.88	-6,133.73	1,170.11	7,805.58	7,722.00	83.58	93.395		
6,900.00	5,667.18	5,905.21	5,797.52	77.29	26.08	122.25	-6,132.33	1,170.35	7,844.95	7,760.26	84.69	92.629		
7,000.00	5,743.30	5,991.90	5,884.20	78.69	26.30	122.63	-6,130.74	1,170.46	7,884.55	7,798.74	85.81	91.887		
7,100.00	5,819.43	6,061.30	5,953.59	80.09	26.47	122.93	-6,129.42	1,170.41	7,924.45	7,837.59	86.86	91.232		
7,200.00	5,895.56	6,140.79	6,033.06	81.49	26.67	123.28	-6,127.88	1,170.17	7,964.71	7,876.77	87.94	90.570		
7,300.00	5,971.68	6,230.06	6,122.32	82.90	26.90	123.66	-6,126.03	1,169.82	8,005.20	7,916.16	89.04	89.902		
7,400.00	6,047.81	6,312.19	6,204.43	84.30	27.11	124.01	-6,124.21	1,169.54	8,045.89	7,955.77	90.12	89.282		
7,500.00	6,123.94	6,393.98	6,286.19	85.70	27.32	124.36	-6,122.37	1,169.20	8,086.89	7,995.70	91.18	88.689		
7,600.00	6,200.06	6,498.11	6,390.29	87.10	27.59	124.80	-6,119.75	1,168.73	8,128.00	8,035.68	92.32	88.046		
7,700.00	6,276.19	6,588.92	6,481.06	88.50	27.83	125.18	-6,117.27	1,168.55	8,169.19	8,075.79	93.40	87.468		
7,800.00	6,352.31	6,661.99	6,554.11	89.90	28.02	125.48	-6,115.35	1,168.76	8,210.64	8,116.22	94.41	86.965		
7,900.00	6,428.44	6,721.48	6,613.58	91.31	28.17	125.72	-6,113.92	1,169.03	8,252.49	8,157.11	95.38	86.524		
8,000.00	6,504.57	6,793.18	6,685.26	92.71	28.36	126.01	-6,112.32	1,169.37	8,294.74	8,198.36	96.38	86.066		
8,100.00	6,580.69	6,861.03	6,753.10	94.11	28.54	126.28	-6,110.83	1,169.70	8,337.29	8,239.94	97.36	85.637		
8,200.00	6,656.82	6,918.16	6,810.22	95.51	28.69	126.51	-6,109.67	1,169.88	8,380.27	8,281.98	98.29	85.260		
8,300.00	6,732.95	7,027.74	6,919.77	96.91	28.98	126.94	-6,107.46	1,170.41	8,423.50	8,324.10	99.40	84.740		
8,400.00	6,809.07	7,103.12	6,995.13	98.32	29.18	127.23	-6,105.87	1,171.03	8,466.82	8,366.42	100.39	84.338		
8,500.00	6,885.20	7,192.07	7,084.06	99.72	29.42	127.58	-6,103.95	1,171.81	8,510.34	8,408.92	101.42	83.910		
8,600.00	6,961.32	7,263.02	7,154.98	101.12	29.61	127.85	-6,102.40	1,172.51	8,554.07	8,451.68	102.38	83.550		
8,700.00	7,037.45	7,344.81	7,236.76	102.52	29.83	128.16	-6,100.74	1,173.43	8,598.11	8,494.73	103.38	83.173		
8,732.15	7,061.92	7,381.09	7,273.02	102.97	29.93	128.29	-6,099.96	1,173.88	8,612.28	8,508.55	103.73	83.025		
8,750.00	7,075.57	7,402.15	7,294.08	103.22	29.99	126.07	-6,099.49	1,174.16	8,619.91	8,515.98	103.93	82.938		
8,800.00	7,114.27	7,495.68	7,387.56	103.91	30.24	119.79	-6,097.16	1,175.68	8,638.63	8,533.99	104.64	82.558		
8,850.00	7,153.47	7,552.08	7,443.93	104.58	30.39	113.24	-6,095.63	1,176.89	8,653.39	8,548.16	105.23	82.232		
8,900.00	7,192.85	7,607.27	7,499.09	105.21	30.53	106.70	-6,094.12	1,178.34	8,664.17	8,558.34	105.84	81.863		
8,950.00	7,232.12	7,658.89	7,550.65	105.80	30.67	100.36	-6,092.72	1,179.91	8,670.93	8,564.49	106.44	81.462		
9,000.00	7,270.99	7,708.11	7,599.83	106.35	30.80	94.42	-6,091.39	1,181.56	8,673.64	8,566.60	107.04	81.030		
9,050.00	7,309.16	7,754.38	7,646.06	106.85	30.93	89.03	-6,090.07	1,183.09	8,672.30	8,564.67	107.63	80.577		
9,100.00	7,346.32	7,776.00	7,667.66	107.30	30.98	84.18	-6,089.43	1,183.78	8,666.97	8,558.85	108.12	80.163		
9,150.00	7,382.22	7,800.14	7,691.77	107.69	31.05	80.05	-6,088.74	1,184.50	8,657.75	8,549.15	108.60	79.721		
9,200.00	7,416.56	7,815.05	7,706.68	108.02	31.09	76.58	-6,088.33	1,184.89	8,644.76	8,535.73	109.03	79.285		
9,250.00	7,449.09	8,124.22	8,015.41	108.29	31.92	75.37	-6,076.65	1,195.20	8,628.22	8,517.75	110.48	78.099		
9,300.00	7,479.56	8,142.40	8,033.54	108.51	31.96	73.42	-6,075.73	1,196.07	8,606.93	8,496.05	110.88	77.622		
9,350.00	7,507.74	8,156.00	8,047.11	108.68	32.00	72.13	-6,075.06	1,196.72	8,582.28	8,471.03	111.25	77.147		
9,400.00	7,533.41	8,156.00	8,047.11	108.79	32.00	71.44	-6,075.06	1,196.72	8,554.45	8,442.92	111.53	76.698		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,556.39	8,156.00	8,047.11	108.86	32.00	71.46	-6,075.06	1,196.72	8,523.66	8,411.87	111.79	76.245		
9,500.00	7,576.48	8,183.00	8,074.06	108.88	32.07	72.43	-6,073.77	1,197.90	8,490.00	8,377.88	112.12	75.724		
9,550.00	7,593.55	8,188.96	8,080.01	108.86	32.09	74.09	-6,073.50	1,198.14	8,453.86	8,341.51	112.34	75.251		
9,600.00	7,607.46	8,193.65	8,084.69	108.80	32.10	76.70	-6,073.28	1,198.33	8,415.42	8,302.89	112.53	74.781		
9,650.00	7,618.11	8,197.03	8,088.06	108.71	32.11	80.43	-6,073.13	1,198.46	8,374.96	8,262.27	112.70	74.314		
9,700.00	7,625.41	8,199.07	8,090.10	108.59	32.11	85.50	-6,073.04	1,198.53	8,332.77	8,219.94	112.83	73.850		
9,750.00	7,629.30	8,199.76	8,090.78	108.45	32.12	92.18	-6,073.01	1,198.56	8,289.14	8,176.20	112.95	73.390		
9,781.81	7,630.00	8,199.48	8,090.51	108.35	32.11	97.37	-6,073.02	1,198.55	8,260.78	8,147.78	113.01	73.100		
9,800.00	7,630.00	8,199.17	8,090.19	108.29	32.11	97.37	-6,073.04	1,198.54	8,244.45	8,131.41	113.04	72.935		
9,900.00	7,630.00	8,197.42	8,088.45	107.97	32.11	97.34	-6,073.11	1,198.47	8,154.82	8,041.60	113.21	72.030		
10,000.00	7,630.00	8,195.66	8,086.69	107.67	32.10	97.31	-6,073.19	1,198.40	8,065.43	7,952.03	113.40	71.124		
10,100.00	7,630.00	8,193.89	8,084.92	107.38	32.10	97.28	-6,073.27	1,198.34	7,976.29	7,862.70	113.59	70.220		
10,200.00	7,630.00	8,192.10	8,083.13	107.10	32.09	97.26	-6,073.35	1,198.27	7,887.42	7,773.63	113.79	69.317		
10,300.00	7,630.00	8,190.30	8,081.34	106.84	32.09	97.23	-6,073.44	1,198.20	7,798.81	7,684.81	113.99	68.414		
10,400.00	7,630.00	8,188.48	8,079.52	106.59	32.08	97.20	-6,073.52	1,198.13	7,710.48	7,596.27	114.21	67.513		
10,500.00	7,630.00	8,186.65	8,077.70	106.35	32.08	97.17	-6,073.60	1,198.05	7,622.43	7,508.00	114.43	66.612		
10,600.00	7,630.00	8,184.80	8,075.85	106.13	32.08	97.14	-6,073.69	1,197.98	7,534.68	7,420.02	114.66	65.713		
10,700.00	7,630.00	8,182.94	8,074.00	105.92	32.07	97.11	-6,073.77	1,197.90	7,447.24	7,332.34	114.90	64.815		
10,800.00	7,630.00	8,181.07	8,072.13	105.72	32.07	97.08	-6,073.86	1,197.83	7,360.12	7,244.98	115.15	63.919		
10,900.00	7,630.00	8,156.00	8,047.11	105.54	32.00	96.69	-6,075.06	1,196.72	7,273.42	7,158.11	115.31	63.075		
11,000.00	7,630.00	8,156.00	8,047.11	105.37	32.00	96.69	-6,075.06	1,196.72	7,186.96	7,071.37	115.59	62.177		
11,100.00	7,630.00	8,156.00	8,047.11	105.21	32.00	96.69	-6,075.06	1,196.72	7,100.85	6,984.98	115.87	61.282		
11,200.00	7,630.00	8,156.00	8,047.11	105.06	32.00	96.69	-6,075.06	1,196.72	7,015.12	6,898.95	116.17	60.388		
11,300.00	7,630.00	8,156.00	8,047.11	104.93	32.00	96.69	-6,075.06	1,196.72	6,929.76	6,813.29	116.47	59.496		
11,400.00	7,630.00	8,156.00	8,047.11	104.82	32.00	96.69	-6,075.06	1,196.72	6,844.80	6,728.01	116.79	58.607		
11,500.00	7,630.00	8,156.00	8,047.11	104.72	32.00	96.69	-6,075.06	1,196.72	6,760.25	6,643.13	117.12	57.720		
11,600.00	7,630.00	8,156.00	8,047.11	104.63	32.00	96.69	-6,075.06	1,196.72	6,676.13	6,558.67	117.46	56.836		
11,700.00	7,630.00	8,156.00	8,047.11	104.55	32.00	96.69	-6,075.06	1,196.72	6,592.46	6,474.64	117.82	55.955		
11,800.00	7,630.00	8,156.00	8,047.11	104.50	32.00	96.69	-6,075.06	1,196.72	6,509.24	6,391.05	118.18	55.077		
11,900.00	7,630.00	8,156.00	8,047.11	104.45	32.00	96.69	-6,075.06	1,196.72	6,426.50	6,307.93	118.57	54.202		
12,000.00	7,630.00	8,156.00	8,047.11	104.43	32.00	96.69	-6,075.06	1,196.72	6,344.26	6,225.30	118.96	53.331		
12,100.00	7,630.00	8,156.00	8,047.11	104.42	32.00	96.69	-6,075.06	1,196.72	6,262.54	6,143.17	119.37	52.463		
12,200.00	7,630.00	8,156.00	8,047.11	104.42	32.00	96.69	-6,075.06	1,196.72	6,181.35	6,061.55	119.79	51.600		
12,300.00	7,630.00	8,156.00	8,047.11	104.45	32.00	96.69	-6,075.06	1,196.72	6,100.72	5,980.49	120.23	50.740		
12,400.00	7,630.00	8,144.63	8,035.76	104.49	31.97	96.51	-6,075.62	1,196.18	6,020.66	5,900.02	120.64	49.907		
12,500.00	7,630.00	8,141.17	8,032.32	104.55	31.96	96.46	-6,075.79	1,196.01	5,941.21	5,820.11	121.09	49.063		
12,600.00	7,630.00	8,137.68	8,028.84	104.63	31.95	96.40	-6,075.97	1,195.85	5,862.38	5,740.81	121.57	48.224		
12,700.00	7,630.00	8,134.16	8,025.33	104.73	31.94	96.35	-6,076.15	1,195.68	5,784.20	5,662.15	122.05	47.390		
12,800.00	7,630.00	8,130.61	8,021.78	104.85	31.93	96.29	-6,076.32	1,195.51	5,706.71	5,584.15	122.56	46.563		
12,900.00	7,630.00	8,127.03	8,018.21	104.99	31.92	96.23	-6,076.51	1,195.33	5,629.91	5,506.83	123.08	45.741		
13,000.00	7,630.00	8,123.41	8,014.60	105.15	31.91	96.18	-6,076.69	1,195.16	5,553.86	5,430.23	123.62	44.925		
13,100.00	7,630.00	8,119.76	8,010.96	105.34	31.90	96.12	-6,076.88	1,194.98	5,478.57	5,354.39	124.18	44.117		
13,200.00	7,630.00	8,116.08	8,007.28	105.56	31.89	96.06	-6,077.07	1,194.80	5,404.08	5,279.32	124.76	43.315		
13,300.00	7,630.00	8,112.36	8,003.57	105.80	31.88	96.00	-6,077.26	1,194.62	5,330.42	5,205.06	125.36	42.521		
13,400.00	7,630.00	8,108.60	7,999.83	106.06	31.87	95.94	-6,077.46	1,194.44	5,257.63	5,131.65	125.98	41.735		
13,500.00	7,630.00	8,104.81	7,996.05	106.36	31.86	95.88	-6,077.65	1,194.25	5,185.73	5,059.12	126.61	40.957		
13,600.00	7,630.00	8,100.99	7,992.23	106.68	31.85	95.82	-6,077.85	1,194.06	5,114.78	4,987.52	127.27	40.189		
13,700.00	7,630.00	8,097.13	7,988.38	107.03	31.84	95.76	-6,078.06	1,193.87	5,044.82	4,916.87	127.95	39.429		
13,800.00	7,630.00	8,093.23	7,984.49	107.42	31.83	95.70	-6,078.26	1,193.68	4,975.87	4,847.23	128.64	38.680		
13,900.00	7,630.00	8,089.29	7,980.57	107.83	31.82	95.64	-6,078.47	1,193.49	4,907.99	4,778.63	129.36	37.941		
14,000.00	7,630.00	7,872.00	7,763.60	108.28	31.24	92.21	-6,086.97	1,186.03	4,841.29	4,712.45	128.84	37.576		
14,100.00	7,630.00	7,872.00	7,763.60	108.77	31.24	92.21	-6,086.97	1,186.03	4,775.50	4,645.90	129.60	36.847		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,630.00	7,872.00	7,763.60	109.29	31.24	92.21	-6,086.97	1,186.03	4,710.92	4,580.53	130.39	36.129		
14,300.00	7,630.00	7,872.00	7,763.60	109.84	31.24	92.21	-6,086.97	1,186.03	4,647.59	4,516.39	131.20	35.425		
14,400.00	7,630.00	7,872.00	7,763.60	110.43	31.24	92.21	-6,086.97	1,186.03	4,585.56	4,453.54	132.02	34.734		
14,500.00	7,630.00	7,872.00	7,763.60	111.06	31.24	92.21	-6,086.97	1,186.03	4,524.90	4,392.04	132.86	34.057		
14,600.00	7,630.00	7,872.00	7,763.60	111.72	31.24	92.21	-6,086.97	1,186.03	4,465.65	4,331.93	133.73	33.394		
14,700.00	7,630.00	7,855.06	7,746.67	112.42	31.20	91.94	-6,087.35	1,185.75	4,407.82	4,273.33	134.49	32.775		
14,800.00	7,630.00	7,853.82	7,745.42	113.16	31.20	91.92	-6,087.38	1,185.73	4,351.57	4,216.19	135.37	32.145		
14,900.00	7,630.00	7,852.56	7,744.16	113.94	31.19	91.90	-6,087.40	1,185.71	4,296.90	4,160.63	136.27	31.532		
15,000.00	7,630.00	7,851.29	7,742.90	114.75	31.19	91.88	-6,087.43	1,185.68	4,243.89	4,106.71	137.18	30.937		
15,100.00	7,630.00	7,850.01	7,741.61	115.60	31.18	91.86	-6,087.46	1,185.66	4,192.59	4,054.49	138.10	30.359		
15,200.00	7,630.00	7,848.71	7,740.32	116.48	31.18	91.84	-6,087.49	1,185.64	4,143.08	4,004.05	139.03	29.800		
15,300.00	7,630.00	7,847.41	7,739.01	117.40	31.18	91.82	-6,087.52	1,185.61	4,095.40	3,955.44	139.96	29.260		
15,400.00	7,630.00	7,846.09	7,737.70	118.35	31.17	91.80	-6,087.56	1,185.58	4,049.63	3,908.73	140.90	28.741		
15,500.00	7,630.00	7,844.75	7,736.36	119.34	31.17	91.78	-6,087.59	1,185.56	4,005.84	3,864.00	141.84	28.242		
15,600.00	7,630.00	7,843.41	7,735.02	120.35	31.17	91.76	-6,087.62	1,185.53	3,964.08	3,821.30	142.78	27.764		
15,700.00	7,630.00	7,842.05	7,733.66	121.40	31.16	91.74	-6,087.65	1,185.50	3,924.43	3,780.72	143.71	27.308		
15,800.00	7,630.00	7,840.67	7,732.29	122.48	31.16	91.71	-6,087.69	1,185.48	3,886.94	3,742.31	144.63	26.875		
15,900.00	7,630.00	7,839.29	7,730.90	123.58	31.16	91.69	-6,087.72	1,185.45	3,851.69	3,706.15	145.54	26.464		
16,000.00	7,630.00	7,837.88	7,729.50	124.71	31.15	91.67	-6,087.75	1,185.42	3,818.73	3,672.29	146.44	26.078		
16,100.00	7,630.00	7,836.47	7,728.08	125.87	31.15	91.65	-6,087.79	1,185.39	3,788.12	3,640.81	147.31	25.715		
16,200.00	7,630.00	7,835.04	7,726.65	127.05	31.14	91.62	-6,087.82	1,185.36	3,759.92	3,611.76	148.16	25.377		
16,300.00	7,630.00	7,833.59	7,725.21	128.26	31.14	91.60	-6,087.86	1,185.33	3,734.19	3,585.21	148.98	25.065		
16,400.00	7,630.00	7,832.13	7,723.75	129.48	31.14	91.58	-6,087.89	1,185.29	3,710.98	3,561.20	149.77	24.777		
16,500.00	7,630.00	7,830.66	7,722.27	130.73	31.13	91.56	-6,087.93	1,185.26	3,690.32	3,539.79	150.53	24.516		
16,600.00	7,630.00	7,829.17	7,720.78	132.00	31.13	91.53	-6,087.97	1,185.23	3,672.28	3,521.03	151.24	24.281		
16,700.00	7,630.00	7,827.66	7,719.28	133.29	31.12	91.51	-6,088.01	1,185.19	3,656.88	3,504.96	151.92	24.072		
16,800.00	7,630.00	7,826.14	7,717.75	134.59	31.12	91.48	-6,088.05	1,185.16	3,644.16	3,491.61	152.54	23.890		
16,900.00	7,630.00	7,824.60	7,716.22	135.91	31.12	91.46	-6,088.09	1,185.12	3,634.14	3,481.02	153.12	23.734		
17,000.00	7,630.00	7,823.04	7,714.66	137.25	31.11	91.43	-6,088.13	1,185.09	3,626.86	3,473.21	153.64	23.606		
17,100.00	7,630.00	7,821.47	7,713.09	138.61	31.11	91.41	-6,088.17	1,185.05	3,622.32	3,468.21	154.11	23.505		
17,200.00	7,630.00	7,819.88	7,711.50	139.97	31.10	91.38	-6,088.21	1,185.01	3,620.53	3,466.01	154.52	23.430		
17,214.58	7,630.00	7,819.64	7,711.27	140.18	31.10	91.38	-6,088.21	1,185.01	3,620.50	3,465.93	154.58	23.422 CC, ES		
17,300.00	7,630.00	7,818.27	7,709.90	141.36	31.10	91.36	-6,088.25	1,184.97	3,621.51	3,466.64	154.88	23.383		
17,400.00	7,630.00	7,816.65	7,708.27	142.75	31.09	91.33	-6,088.29	1,184.93	3,625.25	3,470.08	155.17	23.363 SF		
17,500.00	7,630.00	7,815.00	7,706.63	144.16	31.09	91.31	-6,088.33	1,184.89	3,631.73	3,476.33	155.40	23.369		
17,600.00	7,630.00	7,813.34	7,704.97	145.58	31.08	91.28	-6,088.38	1,184.85	3,640.95	3,485.37	155.58	23.403		
17,700.00	7,630.00	7,811.66	7,703.29	147.01	31.08	91.25	-6,088.42	1,184.81	3,652.89	3,497.19	155.69	23.462		
17,800.00	7,630.00	7,809.97	7,701.60	148.45	31.08	91.23	-6,088.47	1,184.76	3,667.51	3,511.76	155.75	23.548		
17,900.00	7,630.00	7,808.25	7,699.88	149.91	31.07	91.20	-6,088.52	1,184.72	3,684.79	3,529.04	155.74	23.659		
18,000.00	7,630.00	7,806.51	7,698.14	151.37	31.07	91.17	-6,088.56	1,184.67	3,704.68	3,549.00	155.69	23.796		
18,100.00	7,630.00	7,804.76	7,696.39	152.84	31.06	91.15	-6,088.61	1,184.63	3,727.15	3,571.58	155.57	23.958		
18,200.00	7,630.00	7,802.98	7,694.61	154.32	31.06	91.12	-6,088.66	1,184.58	3,752.16	3,596.75	155.41	24.144		
18,300.00	7,630.00	7,801.18	7,692.82	155.81	31.05	91.09	-6,088.71	1,184.53	3,779.64	3,624.45	155.19	24.355		
18,400.00	7,630.00	7,799.36	7,691.00	157.31	31.05	91.06	-6,088.76	1,184.48	3,809.55	3,654.62	154.93	24.589		
18,500.00	7,630.00	7,797.52	7,689.16	158.81	31.04	91.03	-6,088.81	1,184.43	3,841.82	3,687.20	154.62	24.846		
18,600.00	7,630.00	7,795.66	7,687.30	160.32	31.04	91.00	-6,088.86	1,184.38	3,876.41	3,722.13	154.28	25.126		
18,700.00	7,630.00	7,793.78	7,685.42	161.84	31.03	90.97	-6,088.92	1,184.32	3,913.25	3,759.36	153.89	25.428		
18,800.00	7,630.00	7,791.88	7,683.52	163.37	31.03	90.94	-6,088.97	1,184.27	3,952.27	3,798.80	153.48	25.752		
18,900.00	7,630.00	7,789.95	7,681.59	164.90	31.02	90.91	-6,089.02	1,184.21	3,993.42	3,840.39	153.03	26.096		
19,000.00	7,630.00	7,788.00	7,679.64	166.43	31.02	90.88	-6,089.08	1,184.15	4,036.62	3,884.07	152.55	26.461		
19,100.00	7,630.00	7,786.02	7,677.67	167.98	31.01	90.85	-6,089.14	1,184.09	4,081.81	3,929.77	152.05	26.846		
19,200.00	7,630.00	7,776.00	7,667.66	169.53	30.98	90.69	-6,089.43	1,183.78	4,128.94	3,977.47	151.48	27.258		

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

Anticollision Report

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

Offset Design		SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		92-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,630.00	7,776.00	7,667.66	171.08	30.98	90.69	-6,089.43	1,183.78	4,177.92	4,026.97	150.95	27.678	
19,400.00	7,630.00	7,776.00	7,667.66	172.64	30.98	90.69	-6,089.43	1,183.78	4,228.69	4,078.29	150.40	28.116	
19,500.00	7,630.00	7,776.00	7,667.66	174.21	30.98	90.69	-6,089.43	1,183.78	4,281.20	4,131.36	149.84	28.571	
19,518.56	7,630.00	7,776.00	7,667.66	174.50	30.98	90.69	-6,089.43	1,183.78	4,291.13	4,141.40	149.74	28.658	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	162.58	-5,380.48	1,688.22	5,639.12					
100.00	100.00	110.19	110.19	0.13	0.21	162.58	-5,380.27	1,688.15	5,638.92	5,638.58	0.34	N/A		
177.57	177.57	172.56	172.56	0.41	0.42	162.58	-5,380.14	1,688.28	5,638.82	5,637.98	0.84	6,735.164		
200.00	200.00	185.00	185.00	0.49	0.47	162.58	-5,380.13	1,688.34	5,638.83	5,637.87	0.96	5,865.282		
300.00	300.00	227.92	227.92	0.85	0.62	162.57	-5,380.25	1,688.83	5,639.48	5,638.01	1.47	3,832.587		
400.00	400.00	274.00	273.98	1.21	0.78	162.56	-5,380.77	1,689.96	5,641.21	5,639.22	1.99	2,832.118		
500.00	499.98	308.09	308.04	1.56	0.91	95.78	-5,381.39	1,691.24	5,644.16	5,641.69	2.47	2,286.168		
600.00	599.84	365.00	364.84	1.92	1.11	95.70	-5,382.84	1,694.34	5,648.60	5,645.57	3.03	1,866.318		
700.00	699.45	365.00	364.84	2.29	1.11	95.58	-5,382.84	1,694.34	5,654.43	5,651.03	3.39	1,666.793		
800.00	798.70	422.73	422.39	2.67	1.32	95.47	-5,385.00	1,698.43	5,661.55	5,657.57	3.98	1,421.836		
900.00	897.47	456.00	455.51	3.07	1.45	95.33	-5,386.62	1,701.11	5,670.23	5,665.73	4.50	1,259.634		
1,000.00	995.62	501.23	500.46	3.50	1.62	95.18	-5,389.13	1,705.39	5,680.29	5,675.20	5.10	1,114.520		
1,100.00	1,093.06	549.00	547.82	3.96	1.81	95.02	-5,392.01	1,710.97	5,691.70	5,685.96	5.73	993.021		
1,200.00	1,189.64	580.16	578.64	4.46	1.94	94.81	-5,394.08	1,715.07	5,704.43	5,698.08	6.35	898.870		
1,300.00	1,285.27	640.00	637.70	5.00	2.19	94.64	-5,398.70	1,723.53	5,718.68	5,711.57	7.12	803.674		
1,400.00	1,379.82	640.00	637.70	5.60	2.19	94.33	-5,398.70	1,723.53	5,734.09	5,726.40	7.69	745.497		
1,500.00	1,473.17	691.37	688.25	6.25	2.42	94.11	-5,403.32	1,731.38	5,750.87	5,742.34	8.53	674.131		
1,600.00	1,565.21	732.00	728.14	6.95	2.60	93.86	-5,407.37	1,737.97	5,769.01	5,759.63	9.38	615.205		
1,700.00	1,655.84	762.01	757.54	7.72	2.75	93.55	-5,410.60	1,743.10	5,788.46	5,778.22	10.24	565.223		
1,800.00	1,744.94	794.46	789.22	8.55	2.90	93.24	-5,414.33	1,748.98	5,809.26	5,798.09	11.17	519.968		
1,900.00	1,832.39	825.00	818.97	9.45	3.05	92.89	-5,418.06	1,754.83	5,831.39	5,819.23	12.15	479.801		
2,000.00	1,918.11	863.88	856.72	10.41	3.25	92.56	-5,423.09	1,762.65	5,854.77	5,841.52	13.24	442.076		
2,100.00	2,001.97	919.00	910.05	11.45	3.54	92.28	-5,430.71	1,774.30	5,879.41	5,864.94	14.47	406.205		
2,200.00	2,083.88	946.72	936.80	12.56	3.69	91.87	-5,434.71	1,780.37	5,905.06	5,889.42	15.64	377.535		
2,300.00	2,163.74	1,013.00	1,000.65	13.74	4.05	91.62	-5,444.46	1,795.23	5,931.69	5,914.63	17.07	347.553		
2,400.00	2,241.45	1,052.62	1,038.76	14.99	4.28	91.24	-5,450.46	1,804.26	5,959.18	5,940.76	18.42	323.478		
2,421.22	2,257.65	1,062.70	1,048.45	15.26	4.34	91.17	-5,452.02	1,806.56	5,965.14	5,946.42	18.73	318.538		
2,500.00	2,317.63	1,106.00	1,090.05	16.29	4.58	91.39	-5,458.87	1,816.43	5,987.63	5,967.72	19.90	300.837		
2,600.00	2,393.75	1,151.95	1,134.17	17.62	4.85	91.62	-5,466.36	1,826.87	6,016.91	5,995.55	21.35	281.788		
2,700.00	2,469.88	1,200.00	1,180.27	18.95	5.13	91.86	-5,474.43	1,837.73	6,046.99	6,024.17	22.82	265.006		
2,800.00	2,546.01	1,340.87	1,315.63	20.30	5.95	92.58	-5,498.45	1,868.48	6,077.67	6,052.85	24.81	244.923		
2,900.00	2,622.13	1,423.65	1,395.52	21.65	6.43	93.00	-5,512.00	1,885.38	6,107.80	6,081.32	26.48	230.648		
3,000.00	2,698.26	1,462.85	1,433.36	23.01	6.65	93.20	-5,518.69	1,893.13	6,138.80	6,110.90	27.90	220.044		
3,100.00	2,774.38	1,490.00	1,459.56	24.37	6.81	93.34	-5,523.50	1,898.41	6,170.78	6,141.54	29.24	211.036		
3,200.00	2,850.51	1,532.98	1,500.99	25.74	7.05	93.57	-5,531.44	1,906.63	6,203.72	6,173.05	30.66	202.309		
3,300.00	2,926.64	1,584.00	1,550.10	27.11	7.35	93.84	-5,541.46	1,916.17	6,237.75	6,205.62	32.13	194.139		
3,400.00	3,002.76	1,602.41	1,567.80	28.49	7.46	93.93	-5,545.22	1,919.56	6,272.64	6,239.25	33.39	187.836		
3,500.00	3,078.89	1,645.05	1,608.77	29.87	7.71	94.16	-5,554.08	1,927.39	6,308.48	6,273.69	34.79	181.313		
3,600.00	3,155.02	1,694.83	1,656.54	31.25	8.00	94.42	-5,564.73	1,936.48	6,345.15	6,308.92	36.23	175.145		
3,700.00	3,231.14	3,700.00	1,778.41	32.63	19.65	95.08	-5,591.83	1,958.60	6,382.18	6,335.43	46.75	136.509		
3,800.00	3,307.27	2,188.27	2,134.31	34.01	10.72	97.02	-5,660.23	2,013.62	6,416.24	6,374.86	41.38	155.064		
3,900.00	3,383.39	2,240.00	2,184.76	35.40	10.99	97.30	-5,669.24	2,020.63	6,450.48	6,407.67	42.81	150.668		
4,000.00	3,459.52	2,299.70	2,242.94	36.79	11.30	97.61	-5,679.83	2,028.84	6,485.44	6,441.15	44.29	146.443		
4,100.00	3,535.65	2,363.86	2,305.47	38.18	11.63	97.94	-5,691.08	2,037.75	6,520.73	6,474.96	45.78	142.440		
4,200.00	3,611.77	2,405.99	2,346.52	39.57	11.86	98.16	-5,698.70	2,043.46	6,556.83	6,509.69	47.14	139.105		
4,300.00	3,687.90	2,499.38	2,437.48	40.96	12.34	98.65	-5,715.91	2,055.71	6,593.61	6,544.82	48.78	135.167		
4,400.00	3,764.02	2,569.89	2,506.20	42.35	12.71	99.01	-5,728.67	2,064.97	6,630.50	6,580.21	50.29	131.846		
4,500.00	3,840.15	2,615.00	2,550.12	43.74	12.95	99.24	-5,736.94	2,071.19	6,668.04	6,616.40	51.64	129.122		
4,600.00	3,916.28	2,660.69	2,594.51	45.13	13.20	99.47	-5,745.51	2,077.81	6,706.34	6,653.34	52.99	126.547		
4,700.00	3,992.40	4,700.00	2,680.42	46.53	24.73	99.90	-5,762.51	2,092.01	6,745.36	6,681.54	63.81	105.703		
4,800.00	4,068.53	2,860.65	2,788.10	47.92	14.32	100.43	-5,783.08	2,110.76	6,784.15	6,727.75	56.40	120.283		
4,900.00	4,144.66	2,917.67	2,843.38	49.32	14.64	100.70	-5,793.68	2,119.94	6,823.36	6,765.55	57.82	118.013		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	2,986.53	2,910.12	50.71	15.02	101.03	-5,806.62	2,130.90	6,863.07	6,803.77	59.30	115.728		
5,100.00	4,296.91	3,074.29	2,995.19	52.11	15.51	101.44	-5,823.12	2,144.76	6,903.12	6,842.21	60.91	113.338		
5,200.00	4,373.03	3,137.77	3,056.78	53.51	15.86	101.74	-5,835.06	2,154.46	6,943.50	6,881.16	62.34	111.383		
5,300.00	4,449.16	3,194.90	3,112.24	54.90	16.17	102.01	-5,845.96	2,162.73	6,984.41	6,920.69	63.72	109.614		
5,400.00	4,525.29	3,246.64	3,162.43	56.30	16.46	102.25	-5,856.01	2,170.30	7,025.91	6,960.86	65.05	108.003		
5,500.00	4,601.41	3,297.41	3,211.61	57.70	16.74	102.49	-5,866.06	2,177.92	7,068.02	7,001.65	66.37	106.488		
5,600.00	4,677.54	3,347.00	3,259.61	59.10	17.02	102.72	-5,876.06	2,185.36	7,110.74	7,043.07	67.68	105.066		
5,700.00	4,753.66	3,483.24	3,391.48	60.49	17.79	103.34	-5,903.23	2,206.17	7,153.58	7,083.99	69.59	102.797		
5,800.00	4,829.79	3,539.09	3,445.49	61.89	18.10	103.58	-5,914.25	2,215.13	7,196.53	7,125.60	70.93	101.453		
5,900.00	4,905.92	3,553.00	3,458.93	63.29	18.18	103.64	-5,917.03	2,217.41	7,240.18	7,168.21	71.97	100.605		
6,000.00	4,982.04	3,606.10	3,510.16	64.69	18.49	103.88	-5,927.93	2,226.14	7,284.42	7,211.15	73.28	99.409		
6,100.00	5,058.17	3,647.00	3,549.53	66.09	18.73	104.05	-5,936.74	2,232.84	7,329.55	7,255.07	74.49	98.401		
6,200.00	5,134.30	3,713.85	3,613.74	67.49	19.14	104.34	-5,951.37	2,244.37	7,375.25	7,299.35	75.90	97.174		
6,300.00	5,210.42	5,531.75	5,401.49	68.89	26.77	112.41	-6,134.94	2,416.82	7,420.05	7,333.56	86.49	85.791		
6,400.00	5,286.55	5,598.68	5,468.39	70.29	26.91	112.74	-6,133.18	2,416.07	7,448.08	7,360.32	87.76	84.868		
6,500.00	5,362.67	5,664.93	5,534.62	71.69	27.05	113.06	-6,131.47	2,415.11	7,476.64	7,387.62	89.02	83.992		
6,600.00	5,438.80	5,743.47	5,613.12	73.09	27.22	113.45	-6,129.53	2,413.81	7,505.74	7,415.45	90.29	83.130		
6,700.00	5,514.93	5,833.07	5,702.68	74.49	27.41	113.88	-6,127.12	2,412.45	7,535.11	7,443.53	91.58	82.279		
6,800.00	5,591.05	5,901.10	5,770.68	75.89	27.56	114.21	-6,125.31	2,411.47	7,564.96	7,472.15	92.81	81.512		
6,900.00	5,667.18	6,009.82	5,879.34	77.29	27.80	114.73	-6,122.22	2,409.92	7,595.10	7,500.97	94.13	80.689		
7,000.00	5,743.30	6,102.05	5,971.52	78.69	28.01	115.17	-6,119.32	2,408.64	7,625.45	7,530.06	95.40	79.934		
7,100.00	5,819.43	6,205.10	6,074.49	80.09	28.24	115.65	-6,115.81	2,407.36	7,656.02	7,559.34	96.68	79.186		
7,200.00	5,895.56	6,295.99	6,165.32	81.49	28.45	116.08	-6,112.41	2,406.32	7,686.75	7,588.82	97.93	78.490		
7,300.00	5,971.68	6,358.56	6,227.84	82.90	28.59	116.37	-6,110.12	2,405.67	7,717.94	7,618.84	99.10	77.879		
7,400.00	6,047.81	6,435.10	6,304.33	84.30	28.78	116.72	-6,107.43	2,405.11	7,749.62	7,649.32	100.30	77.265		
7,500.00	6,123.94	6,509.85	6,379.04	85.70	28.96	117.06	-6,104.86	2,404.95	7,781.70	7,680.21	101.49	76.676		
7,600.00	6,200.06	6,574.94	6,444.09	87.10	29.12	117.36	-6,102.72	2,405.18	7,814.22	7,711.58	102.64	76.130		
7,700.00	6,276.19	6,628.08	6,497.21	88.50	29.25	117.59	-6,101.14	2,405.52	7,847.32	7,743.56	103.76	75.631		
7,800.00	6,352.31	6,697.56	6,566.67	89.90	29.43	117.90	-6,099.26	2,406.05	7,880.98	7,776.07	104.91	75.121		
7,900.00	6,428.44	6,787.03	6,656.09	91.31	29.66	118.30	-6,096.76	2,406.44	7,914.98	7,808.87	106.11	74.593		
8,000.00	6,504.57	6,884.26	6,753.28	92.71	29.90	118.73	-6,093.61	2,405.89	7,949.16	7,841.85	107.31	74.077		
8,100.00	6,580.69	6,961.28	6,830.24	94.11	30.09	119.07	-6,090.87	2,404.92	7,983.58	7,875.14	108.43	73.626		
8,200.00	6,656.82	7,023.98	6,892.89	95.51	30.25	119.36	-6,088.65	2,403.81	8,018.47	7,908.96	109.51	73.223		
8,300.00	6,732.95	7,100.06	6,968.91	96.91	30.43	119.70	-6,086.01	2,402.39	8,053.80	7,943.20	110.61	72.816		
8,400.00	6,809.07	7,164.10	7,032.90	98.32	30.59	119.98	-6,083.84	2,401.28	8,089.54	7,977.88	111.66	72.447		
8,500.00	6,885.20	7,232.70	7,101.45	99.72	30.76	120.28	-6,081.64	2,400.05	8,125.78	8,013.06	112.72	72.088		
8,600.00	6,961.32	7,320.95	7,189.65	101.12	30.99	120.67	-6,078.78	2,398.81	8,162.30	8,048.47	113.83	71.706		
8,700.00	7,037.45	7,381.39	7,250.05	102.52	31.14	120.93	-6,076.87	2,398.03	8,199.21	8,084.36	114.85	71.390		
8,732.15	7,061.92	7,400.00	7,268.66	102.97	31.19	121.01	-6,076.31	2,397.77	8,211.18	8,096.01	115.17	71.293		
8,750.00	7,075.57	7,411.55	7,280.20	103.22	31.22	118.89	-6,075.96	2,397.61	8,217.60	8,102.24	115.36	71.235		
8,800.00	7,114.27	7,442.01	7,310.65	103.91	31.30	112.72	-6,075.07	2,397.18	8,232.93	8,117.04	115.88	71.045		
8,850.00	7,153.47	7,472.73	7,341.35	104.58	31.37	106.34	-6,074.19	2,396.73	8,244.29	8,127.87	116.43	70.811		
8,900.00	7,192.85	7,503.49	7,372.09	105.21	31.45	99.93	-6,073.34	2,396.26	8,251.62	8,134.64	116.98	70.538		
8,950.00	7,232.12	7,534.07	7,402.66	105.80	31.53	93.68	-6,072.52	2,395.76	8,254.86	8,137.33	117.54	70.231		
9,000.00	7,270.99	7,564.21	7,432.78	106.35	31.61	87.79	-6,071.73	2,395.24	8,254.01	8,135.92	118.09	69.893		
9,050.00	7,309.16	7,593.57	7,462.13	106.85	31.69	82.40	-6,070.99	2,394.70	8,249.07	8,130.43	118.64	69.531		
9,100.00	7,346.32	7,621.62	7,490.17	107.30	31.76	77.62	-6,070.31	2,394.20	8,240.09	8,120.92	119.17	69.147		
9,150.00	7,382.22	7,648.74	7,517.28	107.69	31.83	73.50	-6,069.69	2,393.76	8,227.13	8,107.46	119.68	68.745		
9,200.00	7,416.56	7,674.72	7,543.24	108.02	31.90	70.05	-6,069.14	2,393.38	8,210.29	8,090.14	120.16	68.329		
9,250.00	7,449.09	7,730.75	7,699.22	108.29	32.35	68.01	-6,065.76	2,394.61	8,189.53	8,068.45	121.08	67.640		
9,300.00	7,479.56	9,300.00	7,683.64	108.51	36.60	65.70	-6,066.04	2,395.31	8,164.53	8,038.62	125.92	64.841		
9,350.00	7,507.74	7,960.84	7,829.16	108.68	32.74	65.07	-6,062.41	2,399.99	8,136.31	8,014.07	122.23	66.564		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	7,990.00	7,858.28	108.79	32.82	64.44	-6,061.53	2,401.15	8,104.70	7,982.06	122.63	66.088		
9,450.00	7,556.39	8,013.69	7,881.94	108.86	32.89	64.51	-6,060.78	2,402.03	8,070.11	7,947.13	122.99	65.619		
9,500.00	7,576.48	8,034.00	7,902.23	108.88	32.95	65.37	-6,060.13	2,402.72	8,032.80	7,909.51	123.29	65.152		
9,550.00	7,593.55	8,050.84	7,919.05	108.86	33.00	67.16	-6,059.57	2,403.27	7,993.04	7,869.48	123.56	64.691		
9,600.00	7,607.46	8,064.11	7,932.30	108.80	33.04	70.09	-6,059.12	2,403.67	7,951.11	7,827.33	123.78	64.236		
9,650.00	7,618.11	8,071.32	7,939.51	108.71	33.07	74.46	-6,058.87	2,403.88	7,907.33	7,783.37	123.96	63.792		
9,700.00	7,625.41	8,076.20	7,944.38	108.59	33.08	80.87	-6,058.71	2,404.02	7,862.00	7,737.90	124.10	63.353		
9,750.00	7,629.30	8,078.12	7,946.30	108.45	33.08	90.01	-6,058.64	2,404.08	7,815.46	7,691.25	124.21	62.921		
9,781.81	7,630.00	8,077.80	7,945.99	108.35	33.08	97.62	-6,058.65	2,404.07	7,785.39	7,661.12	124.27	62.651		
9,800.00	7,630.00	8,077.28	7,945.46	108.29	33.08	97.60	-6,058.67	2,404.05	7,768.10	7,643.80	124.30	62.497		
9,900.00	7,630.00	8,074.40	7,942.58	107.97	33.07	97.54	-6,058.77	2,403.97	7,673.14	7,548.69	124.46	61.654		
10,000.00	7,630.00	8,071.52	7,939.71	107.67	33.07	97.47	-6,058.87	2,403.89	7,578.32	7,453.70	124.62	60.811		
10,100.00	7,630.00	8,070.31	7,938.50	107.38	33.06	97.44	-6,058.91	2,403.85	7,483.62	7,358.83	124.80	59.966		
10,200.00	7,630.00	8,066.81	7,935.00	107.10	33.05	97.36	-6,059.03	2,403.75	7,389.07	7,264.10	124.97	59.126		
10,300.00	7,630.00	8,063.33	7,931.52	106.84	33.04	97.28	-6,059.15	2,403.65	7,294.66	7,169.51	125.15	58.286		
10,400.00	7,630.00	8,059.88	7,928.08	106.59	33.03	97.19	-6,059.26	2,403.54	7,200.41	7,075.07	125.34	57.448		
10,500.00	7,630.00	8,056.46	7,924.66	106.35	33.02	97.11	-6,059.38	2,403.44	7,106.30	6,980.77	125.53	56.611		
10,600.00	7,630.00	8,053.07	7,921.28	106.13	33.01	97.03	-6,059.49	2,403.34	7,012.36	6,886.63	125.73	55.774		
10,700.00	7,630.00	8,049.71	7,917.92	105.92	33.00	96.95	-6,059.61	2,403.23	6,918.58	6,792.65	125.93	54.939		
10,800.00	7,630.00	8,046.37	7,914.59	105.72	32.99	96.88	-6,059.72	2,403.13	6,824.99	6,698.84	126.14	54.104		
10,900.00	7,630.00	8,043.07	7,911.28	105.54	32.98	96.80	-6,059.83	2,403.02	6,731.57	6,605.21	126.36	53.271		
11,000.00	7,630.00	8,039.79	7,908.01	105.37	32.97	96.72	-6,059.94	2,402.91	6,638.34	6,511.75	126.59	52.439		
11,100.00	7,630.00	8,036.53	7,904.76	105.21	32.96	96.64	-6,060.04	2,402.81	6,545.31	6,418.49	126.83	51.609		
11,200.00	7,630.00	8,033.31	7,901.54	105.06	32.95	96.57	-6,060.15	2,402.70	6,452.49	6,325.43	127.07	50.780		
11,300.00	7,630.00	8,030.11	7,898.34	104.93	32.94	96.49	-6,060.25	2,402.59	6,359.89	6,232.57	127.32	49.953		
11,400.00	7,630.00	8,026.93	7,895.17	104.82	32.93	96.42	-6,060.36	2,402.49	6,267.51	6,139.93	127.58	49.127		
11,500.00	7,630.00	8,023.79	7,892.02	104.72	32.92	96.34	-6,060.46	2,402.38	6,175.36	6,047.52	127.85	48.303		
11,600.00	7,630.00	8,020.66	7,888.91	104.63	32.91	96.27	-6,060.56	2,402.27	6,083.47	5,955.34	128.12	47.481		
11,700.00	7,630.00	8,017.57	7,885.81	104.55	32.91	96.20	-6,060.66	2,402.16	5,991.83	5,863.41	128.41	46.661		
11,800.00	7,630.00	8,014.49	7,882.74	104.50	32.90	96.12	-6,060.76	2,402.06	5,900.46	5,771.75	128.71	45.843		
11,900.00	7,630.00	8,011.44	7,879.70	104.45	32.89	96.05	-6,060.85	2,401.95	5,809.37	5,680.35	129.02	45.027		
12,000.00	7,630.00	8,008.42	7,876.68	104.43	32.88	95.98	-6,060.95	2,401.84	5,718.58	5,589.24	129.34	44.214		
12,100.00	7,630.00	8,005.42	7,873.68	104.42	32.87	95.91	-6,061.05	2,401.73	5,628.10	5,498.43	129.67	43.403		
12,200.00	7,630.00	8,002.44	7,870.71	104.42	32.86	95.84	-6,061.14	2,401.62	5,537.94	5,407.93	130.01	42.595		
12,300.00	7,630.00	7,999.49	7,867.76	104.45	32.85	95.77	-6,061.23	2,401.51	5,448.13	5,317.76	130.37	41.790		
12,400.00	7,630.00	7,996.56	7,864.83	104.49	32.84	95.70	-6,061.32	2,401.40	5,358.68	5,227.94	130.74	40.989		
12,500.00	7,630.00	7,993.65	7,861.92	104.55	32.83	95.63	-6,061.41	2,401.29	5,269.60	5,138.48	131.12	40.190		
12,600.00	7,630.00	7,990.76	7,859.04	104.63	32.83	95.56	-6,061.50	2,401.18	5,180.92	5,049.41	131.51	39.395		
12,700.00	7,630.00	7,987.90	7,856.18	104.73	32.82	95.49	-6,061.59	2,401.07	5,092.66	4,960.74	131.92	38.604		
12,800.00	7,630.00	7,985.06	7,853.34	104.85	32.81	95.43	-6,061.68	2,400.96	5,004.84	4,872.49	132.35	37.816		
12,900.00	7,630.00	7,982.24	7,850.53	104.99	32.80	95.36	-6,061.77	2,400.85	4,917.48	4,784.70	132.78	37.033		
13,000.00	7,630.00	7,983.44	7,851.72	105.15	32.80	95.39	-6,061.73	2,400.91	4,830.60	4,697.34	133.26	36.249		
13,100.00	7,630.00	7,979.72	7,848.01	105.34	32.79	95.30	-6,061.84	2,400.76	4,744.25	4,610.52	133.73	35.477		
13,200.00	7,630.00	7,976.06	7,844.36	105.56	32.78	95.21	-6,061.95	2,400.61	4,658.44	4,524.23	134.21	34.709		
13,300.00	7,630.00	7,972.46	7,840.76	105.80	32.77	95.13	-6,062.06	2,400.47	4,573.21	4,438.49	134.71	33.947		
13,400.00	7,630.00	7,968.90	7,837.21	106.06	32.76	95.04	-6,062.17	2,400.32	4,488.58	4,353.35	135.23	33.191		
13,500.00	7,630.00	7,965.40	7,833.71	106.36	32.75	94.96	-6,062.28	2,400.18	4,404.60	4,268.82	135.77	32.441		
13,600.00	7,630.00	7,961.95	7,830.27	106.68	32.74	94.88	-6,062.38	2,400.04	4,321.29	4,184.96	136.33	31.698		
13,700.00	7,630.00	7,958.55	7,826.87	107.03	32.73	94.80	-6,062.48	2,399.90	4,238.70	4,101.80	136.90	30.961		
13,800.00	7,630.00	7,955.20	7,823.53	107.42	32.72	94.72	-6,062.58	2,399.76	4,156.88	4,019.38	137.50	30.232		
13,900.00	7,630.00	7,951.90	7,820.23	107.83	32.71	94.64	-6,062.67	2,399.63	4,075.86	3,937.75	138.12	29.510		
14,000.00	7,630.00	7,948.65	7,816.98	108.28	32.70	94.56	-6,062.77	2,399.49	3,995.71	3,856.95	138.75	28.797		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,945.44	7,813.77	108.77	32.69	94.49	-6,062.86	2,399.36	3,916.46	3,777.05	139.41	28.093		
14,200.00	7,630.00	7,942.27	7,810.61	109.29	32.68	94.41	-6,062.95	2,399.23	3,838.18	3,698.09	140.08	27.399		
14,300.00	7,630.00	7,939.15	7,807.49	109.84	32.67	94.34	-6,063.04	2,399.10	3,760.92	3,620.14	140.78	26.715		
14,400.00	7,630.00	7,936.07	7,804.42	110.43	32.66	94.27	-6,063.12	2,398.97	3,684.76	3,543.27	141.50	26.041		
14,500.00	7,630.00	7,933.04	7,801.39	111.06	32.65	94.19	-6,063.21	2,398.84	3,609.76	3,467.53	142.23	25.379		
14,600.00	7,630.00	7,930.04	7,798.40	111.72	32.64	94.12	-6,063.29	2,398.71	3,536.00	3,393.01	142.98	24.730		
14,700.00	7,630.00	7,927.09	7,795.45	112.42	32.63	94.05	-6,063.37	2,398.59	3,463.55	3,319.79	143.75	24.093		
14,800.00	7,630.00	7,924.17	7,792.54	113.16	32.62	93.98	-6,063.45	2,398.46	3,392.50	3,247.96	144.54	23.471		
14,900.00	7,630.00	7,921.30	7,789.66	113.94	32.61	93.91	-6,063.53	2,398.34	3,322.93	3,177.59	145.34	22.863		
15,000.00	7,630.00	7,918.46	7,786.83	114.75	32.61	93.85	-6,063.61	2,398.22	3,254.95	3,108.80	146.15	22.271		
15,100.00	7,630.00	7,915.66	7,784.03	115.60	32.60	93.78	-6,063.68	2,398.10	3,188.65	3,041.69	146.97	21.696		
15,200.00	7,630.00	7,912.90	7,781.27	116.48	32.59	93.72	-6,063.75	2,397.98	3,124.15	2,976.36	147.79	21.139		
15,300.00	7,630.00	7,910.17	7,778.55	117.40	32.58	93.65	-6,063.83	2,397.86	3,061.55	2,912.94	148.61	20.601		
15,400.00	7,630.00	15,400.00	7,701.83	118.35	54.87	91.83	-6,065.64	2,395.59	3,000.94	2,829.99	170.94	17.555		
15,500.00	7,630.00	15,500.00	7,699.61	119.34	55.17	91.77	-6,065.69	2,395.56	2,942.45	2,770.43	172.02	17.105		
15,600.00	7,630.00	15,600.00	7,697.40	120.35	55.48	91.72	-6,065.74	2,395.52	2,886.25	2,713.17	173.08	16.675		
15,700.00	7,630.00	15,700.00	7,695.18	121.40	55.78	91.67	-6,065.79	2,395.49	2,832.46	2,658.33	174.13	16.267		
15,800.00	7,630.00	15,800.00	7,692.97	122.48	56.09	91.62	-6,065.84	2,395.46	2,781.22	2,606.08	175.14	15.880		
15,900.00	7,630.00	15,900.00	7,690.75	123.58	56.39	91.56	-6,065.88	2,395.42	2,732.69	2,556.57	176.12	15.516		
16,000.00	7,630.00	16,000.00	7,688.53	124.71	56.70	91.51	-6,065.93	2,395.39	2,686.99	2,509.94	177.05	15.176		
16,100.00	7,630.00	16,100.00	7,686.32	125.87	57.01	91.46	-6,065.98	2,395.35	2,644.29	2,466.36	177.93	14.861		
16,200.00	7,630.00	16,200.00	7,684.10	127.05	57.31	91.41	-6,066.03	2,395.32	2,604.73	2,425.98	178.75	14.572		
16,300.00	7,630.00	16,300.00	7,681.89	128.26	57.62	91.35	-6,066.08	2,395.28	2,568.45	2,388.95	179.50	14.309		
16,400.00	7,630.00	16,400.00	7,679.67	129.48	57.93	91.30	-6,066.13	2,395.25	2,535.60	2,355.43	180.17	14.073 SF		
16,500.00	7,630.00	7,906.57	7,774.94	130.73	32.56	93.57	-6,063.95	2,397.92	2,507.04	2,350.66	156.39	16.031		
16,600.00	7,630.00	7,896.51	7,764.90	132.00	32.53	93.33	-6,064.19	2,397.38	2,481.53	2,325.05	156.48	15.859		
16,700.00	7,630.00	7,886.61	7,755.02	133.29	32.51	93.09	-6,064.43	2,396.88	2,459.81	2,303.36	156.46	15.722		
16,800.00	7,630.00	7,876.87	7,745.29	134.59	32.48	92.86	-6,064.67	2,396.41	2,441.99	2,285.67	156.31	15.622		
16,900.00	7,630.00	7,867.28	7,735.72	135.91	32.45	92.63	-6,064.90	2,395.99	2,428.15	2,272.10	156.05	15.560		
17,000.00	7,630.00	7,857.85	7,726.29	137.25	32.42	92.41	-6,065.12	2,395.59	2,418.35	2,262.70	155.66	15.536		
17,100.00	7,630.00	7,848.56	7,717.01	138.61	32.40	92.19	-6,065.34	2,395.23	2,412.66	2,257.52	155.14	15.551		
17,187.82	7,630.00	7,840.52	7,708.98	139.81	32.37	92.00	-6,065.53	2,394.94	2,411.06	2,256.48	154.59	15.597 CC, ES		
17,200.00	7,630.00	7,839.41	7,707.87	139.97	32.37	91.97	-6,065.56	2,394.90	2,411.10	2,256.59	154.50	15.605		
17,300.00	7,630.00	7,830.41	7,698.88	141.36	32.34	91.76	-6,065.76	2,394.60	2,413.67	2,259.92	153.75	15.699		
17,400.00	7,630.00	7,821.54	7,690.02	142.75	32.32	91.55	-6,065.97	2,394.33	2,420.36	2,267.48	152.88	15.832		
17,500.00	7,630.00	7,812.81	7,681.29	144.16	32.29	91.34	-6,066.17	2,394.09	2,431.15	2,279.24	151.91	16.004		
17,600.00	7,630.00	7,804.21	7,672.69	145.58	32.27	91.13	-6,066.36	2,393.88	2,445.97	2,295.12	150.85	16.215		
17,700.00	7,630.00	7,795.74	7,664.23	147.01	32.24	90.93	-6,066.55	2,393.69	2,464.76	2,315.05	149.71	16.464		
17,800.00	7,630.00	7,787.39	7,655.89	148.45	32.22	90.73	-6,066.74	2,393.52	2,487.42	2,338.92	148.50	16.750		
17,900.00	7,630.00	7,779.17	7,647.67	149.91	32.20	90.54	-6,066.92	2,393.38	2,513.84	2,366.61	147.24	17.074		
18,000.00	7,630.00	7,771.07	7,639.57	151.37	32.17	90.35	-6,067.10	2,393.26	2,543.92	2,397.99	145.93	17.432		
18,100.00	7,630.00	7,763.08	7,631.59	152.84	32.15	90.16	-6,067.28	2,393.16	2,577.53	2,432.93	144.60	17.825		
18,200.00	7,630.00	7,755.22	7,623.72	154.32	32.13	89.97	-6,067.45	2,393.08	2,614.52	2,471.27	143.25	18.252		
18,300.00	7,630.00	7,747.46	7,615.97	155.81	32.11	89.79	-6,067.62	2,393.03	2,654.76	2,512.87	141.89	18.709		
18,400.00	7,630.00	7,739.82	7,608.33	157.31	32.08	89.60	-6,067.78	2,392.99	2,698.10	2,557.56	140.54	19.198		
18,500.00	7,630.00	7,732.29	7,600.80	158.81	32.06	89.42	-6,067.94	2,392.97	2,744.40	2,605.19	139.21	19.714		
18,600.00	7,630.00	7,724.86	7,593.37	160.32	32.04	89.25	-6,068.10	2,392.96	2,793.50	2,655.61	137.90	20.258		
18,700.00	7,630.00	7,717.53	7,586.05	161.84	32.02	89.07	-6,068.25	2,392.98	2,845.27	2,708.66	136.61	20.827		
18,800.00	7,630.00	7,710.31	7,578.83	163.37	32.00	88.90	-6,068.40	2,393.01	2,899.56	2,764.19	135.36	21.421		
18,900.00	7,630.00	7,703.19	7,571.71	164.90	31.98	88.73	-6,068.55	2,393.05	2,956.23	2,822.07	134.15	22.036		
19,000.00	7,630.00	7,696.17	7,564.69	166.43	31.96	88.57	-6,068.70	2,393.11	3,015.14	2,882.16	132.99	22.673		
19,100.00	7,630.00	7,689.24	7,557.77	167.98	31.94	88.40	-6,068.84	2,393.18	3,076.18	2,944.32	131.86	23.329		

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

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,682.77	7,551.29	169.53	31.92	88.25	-6,068.97	2,393.27	3,139.21	3,008.42	130.79	24.002	
19,300.00	7,630.00	7,680.09	7,548.62	171.08	31.91	88.19	-6,069.02	2,393.30	3,204.12	3,074.32	129.80	24.685	
19,400.00	7,630.00	7,677.38	7,545.91	172.64	31.91	88.12	-6,069.08	2,393.34	3,270.80	3,141.95	128.85	25.384	
19,500.00	7,630.00	7,674.63	7,543.16	174.21	31.90	88.06	-6,069.14	2,393.38	3,339.14	3,211.19	127.95	26.097	
19,518.56	7,630.00	7,674.12	7,542.64	174.50	31.90	88.04	-6,069.15	2,393.39	3,352.00	3,224.21	127.79	26.231	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	149.21	-5,442.26	3,242.58	6,335.06					
100.00	100.00	60.63	60.63	0.13	0.09	149.21	-5,442.41	3,242.49	6,335.13	6,334.90	0.22	N/A		
200.00	200.00	165.00	164.99	0.49	0.44	149.23	-5,442.98	3,241.43	6,335.07	6,334.14	0.93	6,813.891		
210.56	210.56	188.12	188.10	0.53	0.52	149.23	-5,443.14	3,241.05	6,334.99	6,333.94	1.05	6,032.834		
300.00	300.00	224.77	224.75	0.85	0.65	149.23	-5,443.59	3,240.60	6,335.37	6,333.87	1.50	4,218.098		
400.00	400.00	255.00	254.98	1.21	0.76	149.24	-5,444.13	3,240.40	6,336.70	6,334.73	1.97	3,217.662		
500.00	499.98	301.55	301.52	1.56	0.93	82.48	-5,445.30	3,240.38	6,338.74	6,336.25	2.49	2,547.019		
600.00	599.84	349.00	348.93	1.92	1.10	82.46	-5,446.97	3,240.75	6,341.36	6,338.35	3.01	2,105.765		
700.00	699.45	386.23	386.12	2.29	1.23	82.44	-5,448.54	3,241.27	6,344.42	6,340.91	3.51	1,808.860		
800.00	798.70	441.00	440.82	2.67	1.43	82.43	-5,451.10	3,242.30	6,347.80	6,343.72	4.08	1,555.957		
900.00	897.47	480.53	480.29	3.07	1.57	82.42	-5,453.22	3,243.20	6,351.56	6,346.94	4.62	1,375.042		
1,000.00	995.62	536.00	535.62	3.50	1.77	82.43	-5,456.76	3,244.65	6,355.82	6,350.58	5.24	1,212.426		
1,100.00	1,093.06	536.00	535.62	3.96	1.77	82.34	-5,456.76	3,244.65	6,360.63	6,354.93	5.70	1,116.299		
1,200.00	1,189.64	586.74	586.18	4.46	1.97	82.35	-5,460.70	3,246.23	6,365.90	6,359.52	6.38	998.431		
1,300.00	1,285.27	623.00	622.27	5.00	2.10	82.33	-5,464.01	3,247.55	6,371.92	6,364.88	7.04	904.745		
1,400.00	1,379.82	660.42	659.47	5.60	2.25	82.32	-5,467.75	3,249.03	6,378.50	6,370.74	7.76	821.590		
1,500.00	1,473.17	711.00	709.72	6.25	2.44	82.35	-5,473.13	3,251.16	6,385.51	6,376.93	8.58	743.855		
1,600.00	1,565.21	739.94	738.44	6.95	2.56	82.30	-5,476.38	3,252.55	6,393.02	6,383.64	9.38	681.465		
1,700.00	1,655.84	771.53	769.76	7.72	2.69	82.26	-5,480.08	3,254.37	6,401.18	6,390.93	10.25	624.736		
1,800.00	1,744.94	798.00	795.98	8.55	2.79	82.19	-5,483.31	3,256.13	6,409.98	6,398.83	11.15	574.756		
1,900.00	1,832.39	839.77	837.29	9.45	2.97	82.19	-5,488.64	3,259.19	6,419.37	6,407.19	12.18	526.927		
2,000.00	1,918.11	885.00	881.96	10.41	3.16	82.19	-5,494.78	3,262.73	6,429.38	6,416.09	13.29	483.734		
2,100.00	2,001.97	885.00	881.96	11.45	3.16	81.98	-5,494.78	3,262.73	6,440.07	6,425.78	14.29	450.677		
2,200.00	2,083.88	930.79	927.10	12.56	3.35	81.98	-5,501.43	3,266.70	6,451.30	6,435.76	15.54	415.182		
2,300.00	2,163.74	973.00	968.58	13.74	3.54	81.97	-5,507.99	3,270.84	6,463.40	6,446.56	16.84	383.805		
2,400.00	2,241.45	996.87	992.02	14.99	3.65	81.85	-5,511.83	3,273.30	6,476.07	6,457.93	18.14	357.032		
2,421.22	2,257.65	1,011.00	1,005.89	15.26	3.71	81.87	-5,514.11	3,274.76	6,478.82	6,460.36	18.46	350.994		
2,500.00	2,317.63	1,060.00	1,053.97	16.29	3.93	82.15	-5,522.07	3,279.77	6,489.29	6,469.64	19.65	330.249		
2,600.00	2,393.75	1,103.73	1,096.86	17.62	4.13	82.40	-5,529.32	3,284.28	6,503.38	6,482.28	21.10	308.278		
2,700.00	2,469.88	1,180.75	1,172.33	18.95	4.49	82.83	-5,542.40	3,292.36	6,518.41	6,495.71	22.69	287.228		
2,800.00	2,546.01	1,355.84	1,344.23	20.30	5.31	83.81	-5,570.39	3,310.31	6,533.16	6,508.42	24.73	264.165		
2,900.00	2,622.13	1,396.25	1,383.94	21.65	5.50	84.04	-5,576.78	3,314.23	6,548.30	6,522.12	26.19	250.042		
3,000.00	2,698.26	1,444.12	1,430.94	23.01	5.73	84.31	-5,584.65	3,318.82	6,564.46	6,536.77	27.68	237.147		
3,100.00	2,774.38	1,503.04	1,488.75	24.37	6.01	84.64	-5,594.54	3,324.43	6,581.44	6,552.22	29.22	225.208		
3,200.00	2,850.51	1,543.65	1,528.56	25.74	6.20	84.87	-5,601.51	3,328.30	6,599.32	6,568.63	30.68	215.077		
3,300.00	2,926.64	1,595.00	1,578.85	27.11	6.45	85.16	-5,610.65	3,333.27	6,618.23	6,586.04	32.19	205.594		
3,400.00	3,002.76	1,626.77	1,609.93	28.49	6.61	85.33	-5,616.47	3,336.36	6,638.09	6,604.49	33.60	197.543		
3,500.00	3,078.89	1,682.00	1,663.92	29.87	6.88	85.64	-5,626.86	3,341.62	6,658.90	6,623.78	35.12	189.585		
3,600.00	3,155.02	1,739.26	1,719.85	31.25	7.17	85.97	-5,637.79	3,347.11	6,680.51	6,643.86	36.65	182.273		
3,700.00	3,231.14	1,877.78	1,855.27	32.63	7.86	86.74	-5,663.58	3,360.76	6,702.48	6,663.91	38.58	173.743		
3,800.00	3,307.27	2,163.94	2,136.22	34.01	9.24	88.29	-5,709.64	3,389.31	6,722.51	6,681.29	41.22	163.108		
3,900.00	3,383.39	2,206.00	2,177.60	35.40	9.43	88.52	-5,716.04	3,393.28	6,742.94	6,700.26	42.68	158.005		
4,000.00	3,459.52	2,252.57	2,223.38	36.79	9.66	88.77	-5,723.38	3,397.59	6,764.29	6,720.13	44.15	153.206		
4,100.00	3,535.65	2,293.00	2,263.10	38.18	9.85	88.99	-5,729.91	3,401.41	6,786.53	6,740.94	45.59	148.857		
4,200.00	3,611.77	2,347.88	2,316.96	39.57	10.12	89.28	-5,738.96	3,406.78	6,809.63	6,762.53	47.10	144.587		
4,300.00	3,687.90	2,501.53	2,467.84	40.96	10.86	90.10	-5,763.43	3,422.44	6,832.83	6,783.73	49.10	139.162		
4,400.00	3,764.02	2,555.00	2,520.36	42.35	11.11	90.38	-5,771.96	3,427.73	6,856.52	6,805.93	50.59	135.523		
4,500.00	3,840.15	2,555.00	2,520.36	43.74	11.11	90.38	-5,771.96	3,427.73	6,881.17	6,829.37	51.80	132.835		
4,600.00	3,916.28	2,592.28	2,556.91	45.13	11.30	90.58	-5,778.28	3,431.40	6,906.85	6,853.65	53.19	129.843		
4,700.00	3,992.40	2,643.00	2,606.51	46.53	11.55	90.85	-5,787.62	3,436.43	6,933.83	6,879.19	54.65	126.881		
4,800.00	4,068.53	2,643.00	2,606.51	47.92	11.55	90.85	-5,787.62	3,436.43	6,961.55	6,905.74	55.82	124.722		
4,900.00	4,144.66	2,843.24	2,802.48	49.32	12.55	91.90	-5,823.40	3,456.69	6,989.08	6,931.00	58.08	120.337		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	4,220.78	2,896.43	2,854.56	50.71	12.82	92.17	-5,832.55	3,462.47	7,016.97	6,957.44	59.53	117.865		
5,100.00	4,296.91	2,947.23	2,904.25	52.11	13.07	92.43	-5,841.43	3,468.10	7,045.61	6,984.64	60.97	115.562		
5,200.00	4,373.03	3,003.50	2,959.27	53.51	13.36	92.72	-5,851.51	3,474.29	7,075.00	7,012.57	62.43	113.336		
5,300.00	4,449.16	3,132.49	3,085.58	54.90	14.00	93.39	-5,874.72	3,486.31	7,104.74	7,040.45	64.28	110.526		
5,400.00	4,525.29	3,220.54	3,171.93	56.30	14.43	93.84	-5,890.09	3,494.03	7,134.43	7,068.53	65.90	108.260		
5,500.00	4,601.41	3,303.72	3,253.48	57.70	14.84	94.27	-5,904.56	3,501.74	7,164.63	7,097.14	67.49	106.159		
5,600.00	4,677.54	3,381.13	3,329.40	59.10	15.22	94.66	-5,917.89	3,508.88	7,195.16	7,126.12	69.04	104.219		
5,700.00	4,753.66	3,471.47	3,418.07	60.49	15.66	95.13	-5,933.70	3,515.91	7,226.22	7,155.57	70.65	102.278		
5,800.00	4,829.79	3,572.54	3,517.22	61.89	16.16	95.63	-5,950.61	3,525.77	7,257.32	7,184.99	72.33	100.337		
5,900.00	4,905.92	3,647.06	3,590.33	63.29	16.52	96.00	-5,963.00	3,533.16	7,288.85	7,215.00	73.85	98.699		
6,000.00	4,982.04	3,860.21	3,799.98	64.69	17.54	97.05	-5,996.52	3,551.87	7,319.80	7,243.66	76.15	96.128		
6,100.00	5,058.17	3,945.38	3,883.93	66.09	17.93	97.47	-6,009.30	3,558.47	7,350.75	7,273.05	77.71	94.595		
6,200.00	5,134.30	3,997.59	3,935.34	67.49	18.18	97.73	-6,017.10	3,563.15	7,382.20	7,303.12	79.08	93.348		
6,300.00	5,210.42	4,056.18	3,992.97	68.89	18.45	98.01	-6,026.03	3,568.81	7,414.35	7,333.86	80.49	92.119		
6,400.00	5,286.55	4,127.00	4,062.63	70.29	18.79	98.35	-6,036.77	3,575.70	7,446.87	7,364.92	81.96	90.865		
6,500.00	5,362.67	4,168.91	4,103.86	71.69	18.99	98.55	-6,043.26	3,579.52	7,480.06	7,396.82	83.24	89.858		
6,600.00	5,438.80	5,179.12	5,106.54	73.09	23.04	103.46	-6,145.45	3,627.00	7,510.19	7,420.92	89.26	84.134		
6,700.00	5,514.93	5,399.33	5,326.63	74.49	23.73	104.54	-6,152.26	3,628.84	7,534.29	7,443.05	91.24	82.575		
6,800.00	5,591.05	5,513.84	5,441.11	75.89	24.08	105.11	-6,154.55	3,627.98	7,558.02	7,465.23	92.79	81.449		
6,900.00	5,667.18	5,652.43	5,579.67	77.29	24.46	105.80	-6,156.44	3,625.52	7,581.76	7,487.37	94.39	80.320		
7,000.00	5,743.30	5,934.50	5,861.61	78.69	25.19	107.20	-6,154.91	3,617.87	7,604.22	7,507.85	96.37	78.906		
7,100.00	5,819.43	6,017.32	5,944.40	80.09	25.40	107.61	-6,153.41	3,615.86	7,626.58	7,528.83	97.75	78.018		
7,200.00	5,895.56	6,103.88	6,030.92	81.49	25.61	108.04	-6,151.73	3,613.94	7,649.36	7,550.22	99.14	77.157		
7,300.00	5,971.68	6,192.76	6,119.77	82.90	25.84	108.47	-6,149.86	3,612.25	7,672.51	7,571.98	100.52	76.326		
7,400.00	6,047.81	6,285.63	6,212.59	84.30	26.08	108.91	-6,147.72	3,610.71	7,695.99	7,594.08	101.91	75.517		
7,500.00	6,123.94	6,380.32	6,307.25	85.70	26.32	109.37	-6,145.31	3,609.19	7,719.78	7,616.49	103.29	74.737		
7,600.00	6,200.06	6,447.56	6,374.45	87.10	26.49	109.69	-6,143.53	3,608.19	7,743.97	7,639.38	104.59	74.041		
7,700.00	6,276.19	6,509.58	6,436.45	88.50	26.66	109.98	-6,142.00	3,607.49	7,768.76	7,662.90	105.86	73.385		
7,800.00	6,352.31	6,572.15	6,499.00	89.90	26.82	110.27	-6,140.58	3,606.99	7,794.15	7,687.02	107.13	72.756		
7,900.00	6,428.44	6,655.94	6,582.77	91.31	27.05	110.66	-6,138.72	3,606.75	7,820.02	7,711.56	108.45	72.106		
8,000.00	6,504.57	6,740.62	6,667.42	92.71	27.28	111.05	-6,136.78	3,607.05	7,846.25	7,736.48	109.77	71.478		
8,100.00	6,580.69	6,815.95	6,742.74	94.11	27.49	111.39	-6,135.03	3,607.63	7,872.88	7,761.82	111.06	70.890		
8,200.00	6,656.82	6,890.72	6,817.48	95.51	27.70	111.73	-6,133.33	3,608.28	7,899.96	7,787.63	112.33	70.326		
8,300.00	6,732.95	6,965.35	6,892.09	96.91	27.91	112.06	-6,131.66	3,609.00	7,927.48	7,813.88	113.60	69.785		
8,400.00	6,809.07	7,039.91	6,966.63	98.32	28.12	112.39	-6,130.01	3,609.78	7,955.43	7,840.58	114.86	69.264		
8,500.00	6,885.20	7,114.34	7,041.03	99.72	28.33	112.72	-6,128.40	3,610.63	7,983.82	7,867.72	116.10	68.764		
8,600.00	6,961.32	7,188.22	7,114.89	101.12	28.55	113.05	-6,126.84	3,611.53	8,012.64	7,895.30	117.34	68.284		
8,700.00	7,037.45	7,262.17	7,188.83	102.52	28.76	113.37	-6,125.31	3,612.49	8,041.89	7,923.32	118.57	67.823		
8,732.15	7,061.92	7,286.20	7,212.84	102.97	28.83	113.48	-6,124.83	3,612.81	8,051.38	7,932.42	118.97	67.679		
8,750.00	7,075.57	7,299.63	7,226.27	103.22	28.87	111.47	-6,124.55	3,612.97	8,056.41	7,937.22	119.18	67.596		
8,800.00	7,114.27	7,337.55	7,264.18	103.91	28.98	105.58	-6,123.77	3,613.34	8,067.70	7,947.89	119.81	67.338		
8,850.00	7,153.47	7,375.69	7,302.32	104.58	29.09	99.42	-6,122.99	3,613.60	8,074.84	7,954.39	120.45	67.041		
8,900.00	7,192.85	7,413.76	7,340.38	105.21	29.20	93.17	-6,122.20	3,613.76	8,077.77	7,956.69	121.09	66.710		
8,950.00	7,232.12	7,451.47	7,378.08	105.80	29.31	87.03	-6,121.41	3,613.80	8,076.49	7,954.77	121.73	66.350		
9,000.00	7,270.99	7,486.13	7,412.72	106.35	29.41	81.19	-6,120.69	3,613.79	8,071.02	7,948.68	122.34	65.971		
9,050.00	7,309.16	7,520.46	7,447.05	106.85	29.50	75.82	-6,120.00	3,613.77	8,061.40	7,938.45	122.94	65.570		
9,100.00	7,346.32	7,553.80	7,480.38	107.30	29.60	71.02	-6,119.33	3,613.72	8,047.69	7,924.17	123.52	65.153		
9,150.00	7,382.22	7,585.89	7,512.47	107.69	29.69	66.84	-6,118.70	3,613.67	8,030.01	7,905.94	124.07	64.723		
9,200.00	7,416.56	7,616.51	7,543.08	108.02	29.78	63.28	-6,118.12	3,613.59	8,008.47	7,883.88	124.58	64.282		
9,250.00	7,449.09	7,646.80	7,573.37	108.29	29.87	60.36	-6,117.54	3,613.53	7,983.22	7,858.16	125.07	63.832		
9,300.00	7,479.56	7,675.27	7,601.83	108.51	29.95	58.04	-6,117.02	3,613.50	7,954.46	7,828.94	125.51	63.376		
9,350.00	7,507.74	7,701.55	7,628.11	108.68	30.03	56.32	-6,116.54	3,613.49	7,922.37	7,796.45	125.92	62.918		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	7,533.41	7,725.44	7,651.99	108.79	30.10	55.19	-6,116.11	3,613.50	7,887.18	7,760.91	126.28	62.460		
9,450.00	7,556.39	7,746.75	7,673.30	108.86	30.16	54.69	-6,115.73	3,613.53	7,849.16	7,722.57	126.59	62.002		
9,500.00	7,576.48	7,765.30	7,691.85	108.88	30.21	54.89	-6,115.40	3,613.57	7,808.58	7,681.71	126.87	61.548		
9,550.00	7,593.55	7,780.94	7,707.49	108.86	30.26	55.96	-6,115.13	3,613.62	7,765.71	7,638.61	127.10	61.098		
9,600.00	7,607.46	7,793.57	7,720.11	108.80	30.30	58.19	-6,114.91	3,613.66	7,720.89	7,593.59	127.29	60.654		
9,650.00	7,618.11	7,803.42	7,729.96	108.71	30.33	62.21	-6,114.75	3,613.69	7,674.43	7,546.98	127.45	60.215		
9,700.00	7,625.41	7,809.89	7,736.43	108.59	30.34	69.31	-6,114.63	3,613.71	7,626.66	7,499.09	127.57	59.785		
9,750.00	7,629.30	7,812.95	7,739.49	108.45	30.35	82.39	-6,114.58	3,613.72	7,577.95	7,450.30	127.65	59.364		
9,781.81	7,630.00	7,813.10	7,739.64	108.35	30.35	96.31	-6,114.58	3,613.72	7,546.64	7,418.95	127.69	59.102		
9,800.00	7,630.00	7,812.79	7,739.33	108.29	30.35	96.29	-6,114.58	3,613.72	7,528.67	7,400.97	127.71	58.953		
9,900.00	7,630.00	7,811.07	7,737.61	107.97	30.35	96.21	-6,114.61	3,613.71	7,429.96	7,302.16	127.80	58.135		
10,000.00	7,630.00	7,809.36	7,735.90	107.67	30.34	96.13	-6,114.64	3,613.71	7,331.29	7,203.38	127.91	57.318		
10,100.00	7,630.00	7,807.65	7,734.19	107.38	30.34	96.05	-6,114.67	3,613.70	7,232.65	7,104.64	128.01	56.501		
10,200.00	7,630.00	7,805.93	7,732.47	107.10	30.33	95.97	-6,114.70	3,613.70	7,134.05	7,005.93	128.12	55.683		
10,300.00	7,630.00	7,804.22	7,730.76	106.84	30.33	95.89	-6,114.73	3,613.69	7,035.49	6,907.26	128.23	54.866		
10,400.00	7,630.00	7,802.51	7,729.05	106.59	30.32	95.80	-6,114.76	3,613.69	6,936.97	6,808.62	128.35	54.049		
10,500.00	7,630.00	7,800.79	7,727.33	106.35	30.32	95.72	-6,114.79	3,613.68	6,838.49	6,710.02	128.46	53.233		
10,600.00	7,630.00	7,799.08	7,725.62	106.13	30.31	95.64	-6,114.82	3,613.67	6,740.05	6,611.47	128.59	52.416		
10,700.00	7,630.00	7,797.37	7,723.91	105.92	30.31	95.56	-6,114.85	3,613.67	6,641.66	6,512.95	128.71	51.600		
10,800.00	7,630.00	7,795.65	7,722.19	105.72	30.30	95.48	-6,114.88	3,613.66	6,543.32	6,414.48	128.85	50.784		
10,900.00	7,630.00	7,793.94	7,720.48	105.54	30.30	95.40	-6,114.91	3,613.66	6,445.04	6,316.05	128.98	49.968		
11,000.00	7,630.00	7,792.24	7,718.79	105.37	30.29	95.32	-6,114.94	3,613.65	6,346.80	6,217.68	129.12	49.153		
11,100.00	7,630.00	7,790.57	7,717.11	105.21	30.29	95.24	-6,114.97	3,613.65	6,248.62	6,119.35	129.27	48.338		
11,200.00	7,630.00	7,788.90	7,715.44	105.06	30.28	95.16	-6,114.99	3,613.64	6,150.50	6,021.08	129.42	47.523		
11,300.00	7,630.00	7,787.22	7,713.76	104.93	30.28	95.08	-6,115.02	3,613.63	6,052.44	5,922.86	129.58	46.709		
11,400.00	7,630.00	7,785.53	7,712.08	104.82	30.27	95.00	-6,115.05	3,613.63	5,954.44	5,824.70	129.74	45.895		
11,500.00	7,630.00	7,783.85	7,710.39	104.72	30.27	94.91	-6,115.08	3,613.62	5,856.51	5,726.60	129.91	45.082		
11,600.00	7,630.00	7,782.16	7,708.70	104.63	30.26	94.83	-6,115.11	3,613.62	5,758.65	5,628.56	130.08	44.269		
11,700.00	7,630.00	7,780.46	7,707.01	104.55	30.26	94.75	-6,115.14	3,613.61	5,660.86	5,530.60	130.26	43.457		
11,800.00	7,630.00	7,778.77	7,705.31	104.50	30.25	94.67	-6,115.17	3,613.61	5,563.15	5,432.70	130.45	42.645		
11,900.00	7,630.00	7,777.06	7,703.61	104.45	30.25	94.59	-6,115.20	3,613.60	5,465.53	5,334.88	130.65	41.834		
12,000.00	7,630.00	7,775.36	7,701.91	104.43	30.24	94.51	-6,115.23	3,613.60	5,367.99	5,237.14	130.85	41.024		
12,100.00	7,630.00	7,773.65	7,700.20	104.42	30.24	94.43	-6,115.26	3,613.59	5,270.55	5,139.49	131.06	40.215		
12,200.00	7,630.00	7,771.94	7,698.49	104.42	30.23	94.35	-6,115.29	3,613.59	5,173.20	5,041.92	131.28	39.406		
12,300.00	7,630.00	7,770.22	7,696.77	104.45	30.23	94.26	-6,115.32	3,613.59	5,075.95	4,944.44	131.51	38.599		
12,400.00	7,630.00	7,768.51	7,695.05	104.49	30.22	94.18	-6,115.35	3,613.58	4,978.81	4,847.07	131.74	37.792		
12,500.00	7,630.00	7,766.78	7,693.33	104.55	30.22	94.10	-6,115.38	3,613.58	4,881.79	4,749.80	131.99	36.986		
12,600.00	7,630.00	7,765.06	7,691.60	104.63	30.21	94.02	-6,115.41	3,613.57	4,784.89	4,652.64	132.25	36.182		
12,700.00	7,630.00	7,763.33	7,689.87	104.73	30.21	93.93	-6,115.44	3,613.57	4,688.12	4,555.60	132.51	35.378		
12,800.00	7,630.00	7,761.59	7,688.14	104.85	30.20	93.85	-6,115.47	3,613.56	4,591.48	4,458.69	132.79	34.576		
12,900.00	7,630.00	7,759.86	7,686.40	104.99	30.20	93.77	-6,115.50	3,613.56	4,494.99	4,361.91	133.08	33.775		
13,000.00	7,630.00	7,758.11	7,684.66	105.15	30.19	93.68	-6,115.53	3,613.56	4,398.66	4,265.27	133.39	32.976		
13,100.00	7,630.00	7,756.37	7,682.92	105.34	30.19	93.60	-6,115.56	3,613.55	4,302.50	4,168.79	133.71	32.179		
13,200.00	7,630.00	7,754.62	7,681.17	105.56	30.18	93.52	-6,115.59	3,613.55	4,206.51	4,072.47	134.04	31.383		
13,300.00	7,630.00	7,752.87	7,679.42	105.80	30.18	93.43	-6,115.62	3,613.55	4,110.71	3,976.33	134.39	30.589		
13,400.00	7,630.00	7,751.11	7,677.66	106.06	30.17	93.35	-6,115.65	3,613.54	4,015.12	3,880.37	134.75	29.796		
13,500.00	7,630.00	7,749.35	7,675.90	106.36	30.17	93.26	-6,115.68	3,613.54	3,919.75	3,784.62	135.13	29.007		
13,600.00	7,630.00	7,747.59	7,674.14	106.68	30.16	93.18	-6,115.71	3,613.54	3,824.61	3,689.08	135.53	28.219		
13,700.00	7,630.00	7,745.82	7,672.37	107.03	30.16	93.09	-6,115.74	3,613.53	3,729.73	3,593.78	135.95	27.434		
13,800.00	7,630.00	7,744.05	7,670.60	107.42	30.15	93.01	-6,115.77	3,613.53	3,635.12	3,498.73	136.39	26.652		
13,900.00	7,630.00	7,742.27	7,668.82	107.83	30.15	92.92	-6,115.81	3,613.53	3,540.81	3,403.95	136.86	25.872		
14,000.00	7,630.00	7,740.49	7,667.04	108.28	30.14	92.84	-6,115.84	3,613.52	3,446.81	3,309.47	137.35	25.096		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,738.71	7,665.26	108.77	30.14	92.75	-6,115.87	3,613.52	3,353.16	3,215.30	137.86	24.323		
14,200.00	7,630.00	7,736.92	7,663.48	109.29	30.13	92.67	-6,115.90	3,613.52	3,259.89	3,121.49	138.40	23.555		
14,300.00	7,630.00	7,735.13	7,661.68	109.84	30.13	92.58	-6,115.93	3,613.52	3,167.03	3,028.06	138.97	22.790		
14,400.00	7,630.00	7,733.34	7,659.89	110.43	30.12	92.50	-6,115.96	3,613.51	3,074.61	2,935.05	139.57	22.030		
14,500.00	7,630.00	7,731.54	7,658.09	111.06	30.12	92.41	-6,116.00	3,613.51	2,982.68	2,842.48	140.20	21.275		
14,600.00	7,630.00	7,729.74	7,656.29	111.72	30.11	92.32	-6,116.03	3,613.51	2,891.29	2,750.42	140.87	20.525		
14,700.00	7,630.00	7,727.93	7,654.48	112.42	30.10	92.24	-6,116.06	3,613.51	2,800.49	2,658.91	141.57	19.781		
14,800.00	7,630.00	7,726.12	7,652.67	113.16	30.10	92.15	-6,116.09	3,613.51	2,710.33	2,568.01	142.32	19.045		
14,900.00	7,630.00	7,724.31	7,650.86	113.94	30.09	92.06	-6,116.13	3,613.50	2,620.88	2,477.78	143.10	18.315		
15,000.00	7,630.00	7,722.49	7,649.04	114.75	30.09	91.97	-6,116.16	3,613.50	2,532.22	2,388.29	143.93	17.593		
15,100.00	7,630.00	7,720.67	7,647.22	115.60	30.08	91.89	-6,116.19	3,613.50	2,444.44	2,299.63	144.81	16.881		
15,200.00	7,630.00	7,718.84	7,645.39	116.48	30.08	91.80	-6,116.22	3,613.50	2,357.62	2,211.90	145.73	16.178		
15,300.00	7,630.00	7,717.01	7,643.56	117.40	30.07	91.71	-6,116.26	3,613.50	2,271.90	2,125.20	146.70	15.487		
15,400.00	7,630.00	7,715.18	7,641.73	118.35	30.07	91.62	-6,116.29	3,613.50	2,187.38	2,039.66	147.72	14.808		
15,500.00	7,630.00	7,713.34	7,639.89	119.34	30.06	91.53	-6,116.32	3,613.49	2,104.22	1,955.43	148.79	14.142		
15,600.00	7,630.00	7,711.49	7,638.05	120.35	30.06	91.45	-6,116.36	3,613.49	2,022.58	1,872.67	149.90	13.493		
15,700.00	7,630.00	7,709.65	7,636.20	121.40	30.05	91.36	-6,116.39	3,613.49	1,942.65	1,791.59	151.06	12.860		
15,800.00	7,630.00	7,707.80	7,634.35	122.48	30.05	91.27	-6,116.42	3,613.49	1,864.67	1,712.41	152.26	12.247		
15,900.00	7,630.00	7,705.94	7,632.50	123.58	30.04	91.18	-6,116.46	3,613.49	1,788.87	1,635.40	153.48	11.656		
16,000.00	7,630.00	7,704.08	7,630.64	124.71	30.03	91.09	-6,116.49	3,613.49	1,715.56	1,560.85	154.71	11.089		
16,100.00	7,630.00	7,702.22	7,628.78	125.87	30.03	91.00	-6,116.52	3,613.49	1,645.05	1,489.13	155.93	10.550		
16,200.00	7,630.00	7,700.35	7,626.91	127.05	30.02	90.91	-6,116.56	3,613.49	1,577.74	1,420.63	157.11	10.042		
16,300.00	7,630.00	7,698.48	7,625.04	128.26	30.02	90.82	-6,116.59	3,613.49	1,514.04	1,355.82	158.21	9.570		
16,400.00	7,630.00	7,696.61	7,623.17	129.48	30.01	90.73	-6,116.62	3,613.49	1,454.42	1,295.23	159.19	9.136		
16,500.00	7,630.00	7,694.73	7,621.29	130.73	30.01	90.64	-6,116.66	3,613.49	1,399.42	1,239.43	159.99	8.747		
16,600.00	7,630.00	7,692.84	7,619.40	132.00	30.00	90.55	-6,116.69	3,613.49	1,349.60	1,189.06	160.54	8.407		
16,700.00	7,630.00	7,690.96	7,617.52	133.29	30.00	90.46	-6,116.73	3,613.49	1,305.54	1,144.77	160.76	8.121		
16,800.00	7,630.00	7,689.06	7,615.62	134.59	29.99	90.37	-6,116.76	3,613.49	1,267.85	1,107.27	160.58	7.895		
16,900.00	7,630.00	7,687.17	7,613.73	135.91	29.99	90.28	-6,116.80	3,613.49	1,237.11	1,077.18	159.93	7.735		
17,000.00	7,630.00	7,685.27	7,611.83	137.25	29.98	90.18	-6,116.83	3,613.49	1,213.86	1,055.11	158.75	7.646		
17,100.00	7,630.00	7,683.36	7,609.92	138.61	29.97	90.09	-6,116.87	3,613.49	1,198.52	1,041.50	157.02	7.633 SF		
17,200.00	7,630.00	7,681.45	7,608.01	139.97	29.97	90.00	-6,116.90	3,613.49	1,191.40	1,036.66	154.74	7.699 ES		
17,235.09	7,630.00	7,680.78	7,607.34	140.46	29.97	89.97	-6,116.91	3,613.49	1,190.88	1,037.06	153.83	7.742 CC		
17,300.00	7,630.00	7,679.54	7,606.10	141.36	29.96	89.91	-6,116.94	3,613.49	1,192.65	1,040.67	151.98	7.847		
17,400.00	7,630.00	7,677.62	7,604.18	142.75	29.96	89.82	-6,116.97	3,613.49	1,202.24	1,053.42	148.82	8.078		
17,500.00	7,630.00	7,675.70	7,602.26	144.16	29.95	89.72	-6,117.01	3,613.50	1,219.98	1,074.59	145.39	8.391		
17,600.00	7,630.00	7,673.77	7,600.34	145.58	29.95	89.63	-6,117.04	3,613.50	1,245.52	1,103.71	141.81	8.783		
17,700.00	7,630.00	7,671.84	7,598.41	147.01	29.94	89.54	-6,117.08	3,613.50	1,278.38	1,140.17	138.22	9.249		
17,800.00	7,630.00	7,669.91	7,596.47	148.45	29.94	89.45	-6,117.11	3,613.50	1,318.03	1,183.30	134.73	9.783		
17,900.00	7,630.00	7,667.97	7,594.53	149.91	29.93	89.35	-6,117.15	3,613.50	1,363.87	1,232.44	131.43	10.377		
18,000.00	7,630.00	7,666.03	7,592.59	151.37	29.92	89.26	-6,117.19	3,613.50	1,415.30	1,286.91	128.39	11.023		
18,100.00	7,630.00	7,664.08	7,590.64	152.84	29.92	89.16	-6,117.22	3,613.51	1,471.73	1,346.09	125.65	11.713		
18,200.00	7,630.00	7,662.12	7,588.69	154.32	29.91	89.07	-6,117.26	3,613.51	1,532.62	1,409.41	123.21	12.439		
18,300.00	7,630.00	7,660.17	7,586.73	155.81	29.91	88.98	-6,117.29	3,613.51	1,597.44	1,476.36	121.08	13.193		
18,400.00	7,630.00	7,658.21	7,584.77	157.31	29.90	88.88	-6,117.33	3,613.51	1,665.75	1,546.51	119.24	13.970		
18,500.00	7,630.00	7,656.24	7,582.80	158.81	29.90	88.79	-6,117.37	3,613.51	1,737.13	1,619.46	117.67	14.762		
18,600.00	7,630.00	7,654.27	7,580.83	160.32	29.89	88.69	-6,117.40	3,613.52	1,811.22	1,694.87	116.35	15.567		
18,700.00	7,630.00	7,652.29	7,578.86	161.84	29.88	88.60	-6,117.44	3,613.52	1,887.69	1,772.45	115.24	16.380		
18,800.00	7,630.00	7,650.32	7,576.88	163.37	29.88	88.50	-6,117.48	3,613.52	1,966.28	1,851.95	114.33	17.199		
18,900.00	7,630.00	7,648.33	7,574.90	164.90	29.87	88.41	-6,117.52	3,613.53	2,046.73	1,933.16	113.58	18.021		
19,000.00	7,630.00	7,646.34	7,572.91	166.43	29.87	88.31	-6,117.55	3,613.53	2,128.84	2,015.88	112.97	18.845		
19,100.00	7,630.00	7,644.35	7,570.92	167.98	29.86	88.22	-6,117.59	3,613.53	2,212.43	2,099.95	112.48	19.669		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	7,642.35	7,568.92	169.53	29.86	88.12	-6,117.63	3,613.54	2,297.32	2,185.22	112.10	20.494	
19,300.00	7,630.00	7,640.35	7,566.92	171.08	29.85	88.02	-6,117.66	3,613.54	2,383.38	2,271.58	111.80	21.318	
19,400.00	7,630.00	7,638.34	7,564.91	172.64	29.84	87.93	-6,117.70	3,613.54	2,470.49	2,358.91	111.58	22.141	
19,500.00	7,630.00	7,636.33	7,562.90	174.21	29.84	87.83	-6,117.74	3,613.55	2,558.54	2,447.13	111.42	22.964	
19,518.56	7,630.00	7,635.96	7,562.53	174.50	29.84	87.81	-6,117.75	3,613.55	2,574.99	2,463.59	111.39	23.116	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	161.88	-5,370.28	1,756.84	5,650.36					
100.00	100.00	67.29	67.29	0.13	0.11	161.89	-5,370.41	1,756.79	5,650.48	5,650.24	0.24	N/A		
200.00	200.00	175.30	175.29	0.49	0.42	161.89	-5,370.87	1,756.65	5,650.85	5,649.93	0.92	6,157.085		
300.00	300.00	316.09	316.09	0.85	0.91	161.89	-5,370.63	1,756.53	5,650.66	5,648.90	1.76	3,204.177		
400.00	400.00	422.25	422.24	1.21	1.28	161.89	-5,369.97	1,756.54	5,650.07	5,647.58	2.49	2,270.185		
500.00	499.98	578.14	578.12	1.56	1.83	95.20	-5,368.27	1,757.15	5,649.44	5,646.05	3.39	1,665.667		
600.00	599.84	670.40	670.36	1.92	2.16	95.26	-5,366.37	1,757.86	5,648.21	5,644.14	4.07	1,386.425		
700.00	699.45	756.07	756.02	2.29	2.46	95.33	-5,364.94	1,758.58	5,647.68	5,642.93	4.74	1,190.453		
757.92	756.99	809.13	809.06	2.50	2.65	95.39	-5,364.12	1,759.02	5,647.60	5,642.44	5.15	1,096.038		
800.00	798.70	846.81	846.74	2.67	2.78	95.43	-5,363.56	1,759.37	5,647.64	5,642.19	5.45	1,036.607		
900.00	897.47	923.85	923.77	3.07	3.06	95.53	-5,362.49	1,760.22	5,648.17	5,642.05	6.12	922.228		
1,000.00	995.62	982.52	982.43	3.50	3.27	95.60	-5,362.00	1,761.05	5,649.69	5,642.93	6.76	835.528		
1,100.00	1,093.06	1,057.42	1,057.32	3.96	3.53	95.71	-5,361.78	1,762.35	5,652.20	5,644.71	7.49	754.745		
1,200.00	1,189.64	1,154.28	1,154.17	4.46	3.87	95.88	-5,361.66	1,764.25	5,655.37	5,647.04	8.33	678.714		
1,300.00	1,285.27	1,269.26	1,269.13	5.00	4.28	96.14	-5,361.48	1,765.67	5,658.80	5,649.51	9.29	609.432		
1,400.00	1,379.82	1,360.20	1,360.07	5.60	4.60	96.36	-5,361.37	1,766.07	5,662.56	5,652.37	10.20	555.319		
1,500.00	1,473.17	1,454.72	1,454.59	6.25	4.93	96.61	-5,361.50	1,766.13	5,667.05	5,655.88	11.17	507.510		
1,600.00	1,565.21	1,567.93	1,567.80	6.95	5.31	96.96	-5,361.43	1,766.01	5,671.97	5,659.71	12.26	462.796		
1,700.00	1,655.84	1,663.21	1,663.08	7.72	5.65	97.26	-5,361.09	1,765.88	5,677.32	5,663.97	13.35	425.332		
1,800.00	1,744.94	1,746.18	1,746.05	8.55	5.93	97.51	-5,360.88	1,765.61	5,683.49	5,669.03	14.46	393.110		
1,900.00	1,832.39	1,861.42	1,861.29	9.45	6.33	97.94	-5,360.74	1,764.55	5,690.53	5,674.79	15.74	361.512		
2,000.00	1,918.11	1,956.70	1,956.55	10.41	6.66	98.30	-5,360.14	1,763.08	5,697.88	5,680.86	17.02	334.760		
2,100.00	2,001.97	2,031.15	2,030.99	11.45	6.92	98.54	-5,359.81	1,761.88	5,706.38	5,688.09	18.29	311.919		
2,200.00	2,083.88	2,111.67	2,111.49	12.56	7.20	98.82	-5,359.57	1,760.31	5,716.01	5,696.35	19.66	290.815		
2,300.00	2,163.74	2,194.02	2,193.83	13.74	7.49	99.12	-5,359.31	1,758.61	5,726.75	5,705.67	21.09	271.557		
2,400.00	2,241.45	2,271.73	2,271.52	14.99	7.76	99.38	-5,359.03	1,757.01	5,738.69	5,716.12	22.57	254.243		
2,421.22	2,257.65	2,287.87	2,287.66	15.26	7.82	99.43	-5,358.97	1,756.67	5,741.38	5,718.49	22.89	250.795		
2,500.00	2,317.63	2,351.58	2,351.35	16.29	8.04	99.85	-5,358.73	1,755.32	5,751.70	5,727.59	24.11	238.574		
2,600.00	2,393.75	2,440.84	2,440.59	17.62	8.35	100.44	-5,358.29	1,753.19	5,765.35	5,739.66	25.69	224.423		
2,700.00	2,469.88	2,522.20	2,521.91	18.95	8.64	100.97	-5,357.76	1,750.64	5,779.50	5,752.25	27.25	212.115		
2,800.00	2,546.01	2,577.89	2,577.57	20.30	8.84	101.34	-5,357.47	1,749.09	5,794.53	5,765.81	28.71	201.800		
2,900.00	2,622.13	2,628.20	2,627.87	21.65	9.01	101.67	-5,357.33	1,748.00	5,810.54	5,780.38	30.16	192.654		
3,000.00	2,698.26	2,674.75	2,674.41	23.01	9.18	101.97	-5,357.42	1,747.10	5,827.62	5,796.03	31.59	184.481		
3,100.00	2,774.38	2,750.96	2,750.60	24.37	9.44	102.46	-5,357.82	1,745.78	5,845.68	5,812.56	33.12	176.492		
3,200.00	2,850.51	2,978.61	2,978.22	25.74	10.25	103.91	-5,355.68	1,742.92	5,863.44	5,828.24	35.20	166.580		
3,300.00	2,926.64	3,059.18	3,058.76	27.11	10.53	104.42	-5,353.69	1,742.26	5,880.67	5,843.93	36.74	160.056		
3,400.00	3,002.76	3,120.24	3,119.80	28.49	10.75	104.80	-5,352.30	1,741.51	5,898.69	5,860.48	38.21	154.387		
3,500.00	3,078.89	3,172.16	3,171.70	29.87	10.94	105.13	-5,351.32	1,740.71	5,917.64	5,878.01	39.63	149.313		
3,600.00	3,155.02	3,220.90	3,220.43	31.25	11.11	105.44	-5,350.61	1,739.79	5,937.57	5,896.53	41.04	144.689		
3,700.00	3,231.14	3,265.73	3,265.24	32.63	11.27	105.72	-5,350.20	1,738.65	5,958.52	5,916.11	42.42	140.477		
3,800.00	3,307.27	3,327.23	3,326.71	34.01	11.49	106.11	-5,349.97	1,736.58	5,980.50	5,936.65	43.85	136.397		
3,900.00	3,383.39	3,424.05	3,423.46	35.40	11.83	106.73	-5,349.33	1,732.94	6,002.91	5,957.52	45.40	132.232		
4,000.00	3,459.52	3,484.25	3,483.61	36.79	12.05	107.11	-5,348.94	1,730.65	6,026.03	5,979.23	46.80	128.755		
4,100.00	3,535.65	3,568.50	3,567.80	38.18	12.35	107.65	-5,348.46	1,727.59	6,049.87	6,001.58	48.29	125.290		
4,200.00	3,611.77	3,655.27	3,654.54	39.57	12.66	108.19	-5,347.74	1,724.94	6,074.16	6,024.39	49.77	122.041		
4,300.00	3,687.90	3,734.21	3,733.45	40.96	12.94	108.67	-5,346.97	1,723.14	6,098.97	6,047.76	51.22	119.079		
4,400.00	3,764.02	3,807.29	3,806.51	42.35	13.20	109.12	-5,346.26	1,721.64	6,124.41	6,071.77	52.63	116.364		
4,500.00	3,840.15	3,881.14	3,880.35	43.74	13.46	109.56	-5,345.59	1,721.11	6,150.46	6,096.43	54.04	113.823		
4,600.00	3,916.28	3,969.83	3,969.04	45.13	13.77	110.08	-5,344.76	1,721.73	6,177.04	6,121.55	55.48	111.329		
4,700.00	3,992.40	4,045.93	4,045.13	46.53	14.03	110.52	-5,343.91	1,722.00	6,204.04	6,147.16	56.88	109.077		
4,800.00	4,068.53	4,118.22	4,117.42	47.92	14.29	110.94	-5,343.17	1,721.78	6,231.67	6,173.43	58.25	106.990		
4,900.00	4,144.66	4,213.73	4,212.92	49.32	14.63	111.50	-5,342.04	1,721.15	6,259.76	6,200.07	59.69	104.868		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,417.15	4,416.24	50.71	15.36	112.69	-5,337.36	1,717.34	6,287.80	6,226.28	61.52	102.200		
5,100.00	4,296.91	4,473.75	4,472.81	52.11	15.56	113.02	-5,335.60	1,716.67	6,315.53	6,252.72	62.80	100.562		
5,200.00	4,373.03	4,564.76	4,563.78	53.51	15.88	113.54	-5,332.76	1,716.26	6,343.77	6,279.58	64.20	98.818		
5,300.00	4,449.16	4,730.01	4,728.90	54.90	16.47	114.46	-5,326.26	1,716.10	6,371.89	6,306.04	65.85	96.766		
5,400.00	4,525.29	4,817.82	4,816.60	56.30	16.78	114.95	-5,321.99	1,715.45	6,399.85	6,332.64	67.21	95.227		
5,500.00	4,601.41	4,873.14	4,871.86	57.70	16.98	115.26	-5,319.36	1,714.81	6,428.44	6,360.01	68.44	93.933		
5,600.00	4,677.54	4,926.21	4,924.87	59.10	17.17	115.56	-5,317.01	1,714.11	6,457.81	6,388.17	69.65	92.725		
5,700.00	4,753.66	4,977.14	4,975.75	60.49	17.35	115.84	-5,314.93	1,713.36	6,487.99	6,417.15	70.83	91.595		
5,800.00	4,829.79	5,000.00	4,998.59	61.89	17.43	115.97	-5,314.07	1,713.00	6,519.05	6,447.15	71.90	90.665		
5,900.00	4,905.92	5,044.81	5,043.38	63.29	17.59	116.22	-5,312.65	1,712.21	6,551.03	6,477.99	73.04	89.693		
6,000.00	4,982.04	5,100.00	5,098.54	64.69	17.79	116.53	-5,311.57	1,711.08	6,584.23	6,510.03	74.20	88.735		
6,100.00	5,058.17	5,104.41	5,102.95	66.09	17.81	116.55	-5,311.51	1,710.98	6,618.18	6,543.03	75.15	88.067		
6,200.00	5,134.30	5,169.68	5,168.20	67.49	18.04	116.91	-5,310.75	1,709.65	6,653.03	6,576.71	76.32	87.167		
6,300.00	5,210.42	5,235.81	5,234.32	68.89	18.28	117.27	-5,310.13	1,708.64	6,688.46	6,610.97	77.49	86.313		
6,400.00	5,286.55	5,305.49	5,303.99	70.29	18.52	117.64	-5,309.77	1,708.61	6,724.44	6,645.78	78.66	85.485		
6,500.00	5,362.67	5,407.35	5,405.85	71.69	18.87	118.16	-5,309.28	1,709.56	6,760.72	6,680.77	79.95	84.558		
6,600.00	5,438.80	5,478.63	5,477.13	73.09	19.12	118.53	-5,308.77	1,709.91	6,797.31	6,716.20	81.11	83.800		
6,700.00	5,514.93	5,571.19	5,569.69	74.49	19.45	119.01	-5,307.86	1,709.43	6,834.28	6,751.93	82.35	82.990		
6,800.00	5,591.05	5,636.47	5,634.95	75.89	19.68	119.35	-5,307.00	1,708.58	6,871.54	6,788.08	83.46	82.332		
6,900.00	5,667.18	5,687.03	5,685.49	77.29	19.86	119.62	-5,306.41	1,707.50	6,909.47	6,824.97	84.50	81.771		
7,000.00	5,743.30	5,785.57	5,784.00	78.69	20.21	120.13	-5,305.24	1,705.02	6,947.90	6,862.18	85.72	81.054		
7,100.00	5,819.43	5,849.60	5,848.01	80.09	20.44	120.46	-5,304.39	1,703.57	6,986.57	6,899.78	86.79	80.500		
7,200.00	5,895.56	5,912.49	5,910.88	81.49	20.67	120.79	-5,303.71	1,702.13	7,025.84	6,938.00	87.84	79.981		
7,300.00	5,971.68	6,058.55	6,056.91	82.90	21.19	121.52	-5,301.96	1,700.25	7,065.28	6,976.04	89.24	79.171		
7,400.00	6,047.81	6,216.23	6,214.55	84.30	21.75	122.29	-5,298.48	1,700.18	7,103.94	7,013.27	90.68	78.344		
7,500.00	6,123.94	6,261.54	6,259.84	85.70	21.91	122.51	-5,297.38	1,700.15	7,142.93	7,051.29	91.64	77.947		
7,600.00	6,200.06	6,334.44	6,332.73	87.10	22.17	122.86	-5,295.86	1,699.86	7,182.59	7,089.88	92.70	77.479		
7,700.00	6,276.19	6,451.58	6,449.83	88.50	22.59	123.42	-5,292.74	1,699.51	7,222.11	7,128.17	93.94	76.880		
7,800.00	6,352.31	6,515.26	6,513.49	89.90	22.81	123.72	-5,291.22	1,700.09	7,261.97	7,167.02	94.95	76.481		
7,900.00	6,428.44	6,561.74	6,559.96	91.31	22.97	123.93	-5,290.35	1,700.76	7,302.44	7,206.56	95.88	76.163		
8,000.00	6,504.57	6,600.00	6,598.03	92.71	27.96	124.38	-5,288.79	1,702.75	7,343.31	7,241.65	101.66	72.232		
8,100.00	6,580.69	6,738.71	6,736.86	94.11	23.59	124.72	-5,287.33	1,704.43	7,384.22	7,286.15	98.07	75.294		
8,200.00	6,656.82	6,773.33	6,771.47	95.51	23.71	124.88	-5,286.74	1,704.88	7,425.79	7,326.87	98.92	75.067		
8,300.00	6,732.95	6,814.15	6,812.29	96.91	23.85	125.06	-5,286.19	1,705.09	7,468.10	7,368.31	99.79	74.842		
8,400.00	6,809.07	6,878.64	6,876.77	98.32	24.08	125.35	-5,285.51	1,705.43	7,510.94	7,410.19	100.74	74.556		
8,500.00	6,885.20	7,012.13	7,010.24	99.72	24.55	125.94	-5,284.04	1,706.78	7,553.97	7,451.97	102.00	74.061		
8,600.00	6,961.32	7,085.32	7,083.42	101.12	24.80	126.25	-5,283.09	1,707.93	7,596.94	7,493.96	102.98	73.771		
8,700.00	7,037.45	7,157.52	7,155.60	102.52	25.06	126.56	-5,282.17	1,709.16	7,640.20	7,536.24	103.95	73.497		
8,732.15	7,061.92	7,180.08	7,178.16	102.97	25.13	126.66	-5,281.87	1,709.46	7,654.18	7,549.92	104.26	73.414		
8,750.00	7,075.57	7,192.62	7,190.70	103.22	25.18	124.43	-5,281.70	1,709.62	7,661.72	7,557.29	104.43	73.366		
8,800.00	7,114.27	7,220.13	7,218.20	103.91	25.27	117.98	-5,281.34	1,709.92	7,680.33	7,575.44	104.89	73.221		
8,850.00	7,153.47	7,245.79	7,243.86	104.58	25.36	111.37	-5,281.04	1,710.18	7,695.19	7,589.82	105.37	73.034		
8,900.00	7,192.85	7,271.51	7,269.58	105.21	25.45	104.76	-5,280.79	1,710.43	7,706.19	7,600.34	105.85	72.802		
8,950.00	7,232.12	7,300.00	7,298.07	105.80	25.55	98.37	-5,280.56	1,710.69	7,713.28	7,606.93	106.36	72.523		
9,000.00	7,270.99	7,334.60	7,332.67	106.35	25.67	92.39	-5,280.31	1,710.99	7,716.38	7,609.49	106.89	72.189		
9,050.00	7,309.16	7,372.85	7,370.91	106.85	25.81	86.97	-5,280.03	1,711.28	7,715.45	7,608.01	107.44	71.812		
9,100.00	7,346.32	7,409.58	7,407.64	107.30	25.94	82.18	-5,279.74	1,711.53	7,710.49	7,602.52	107.97	71.413		
9,150.00	7,382.22	7,443.96	7,442.02	107.69	26.06	78.07	-5,279.48	1,711.78	7,701.57	7,593.09	108.48	70.997		
9,200.00	7,416.56	7,476.90	7,474.95	108.02	26.17	74.66	-5,279.26	1,712.05	7,688.76	7,579.80	108.96	70.564		
9,250.00	7,449.09	7,508.54	7,506.60	108.29	26.28	71.94	-5,279.06	1,712.34	7,672.16	7,562.74	109.42	70.118		
9,300.00	7,479.56	7,539.28	7,537.33	108.51	26.39	69.89	-5,278.87	1,712.64	7,651.88	7,542.04	109.85	69.660		
9,350.00	7,507.74	7,567.71	7,565.76	108.68	26.49	68.50	-5,278.70	1,712.93	7,628.09	7,517.85	110.24	69.195		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	7,593.60	7,591.65	108.79	26.58	67.76	-5,278.56	1,713.21	7,600.95	7,490.35	110.60	68.726		
9,450.00	7,556.39	7,600.00	7,598.05	108.86	26.60	67.54	-5,278.52	1,713.28	7,570.69	7,459.85	110.84	68.304		
9,500.00	7,576.48	7,621.43	7,619.48	108.88	26.67	68.16	-5,278.43	1,713.51	7,537.50	7,426.38	111.12	67.831		
9,550.00	7,593.55	7,631.44	7,629.48	108.86	26.71	69.47	-5,278.40	1,713.62	7,501.65	7,390.33	111.33	67.384		
9,600.00	7,607.46	7,639.62	7,637.66	108.80	26.74	71.66	-5,278.38	1,713.71	7,463.38	7,351.88	111.50	66.935		
9,650.00	7,618.11	7,645.89	7,643.94	108.71	26.76	74.92	-5,278.37	1,713.77	7,422.96	7,311.31	111.65	66.487		
9,700.00	7,625.41	7,650.21	7,648.26	108.59	26.77	79.48	-5,278.37	1,713.82	7,380.65	7,268.89	111.76	66.039		
9,750.00	7,629.30	7,652.52	7,650.57	108.45	26.78	85.68	-5,278.36	1,713.84	7,336.78	7,224.92	111.85	65.592		
9,781.81	7,630.00	7,652.93	7,650.98	108.35	26.78	90.65	-5,278.36	1,713.85	7,308.19	7,196.29	111.90	65.309		
9,800.00	7,630.00	7,652.93	7,650.97	108.29	26.78	90.65	-5,278.36	1,713.85	7,291.71	7,179.79	111.93	65.148		
9,900.00	7,630.00	7,652.90	7,650.95	107.97	26.78	90.65	-5,278.36	1,713.85	7,201.28	7,089.22	112.06	64.263		
10,000.00	7,630.00	7,652.88	7,650.92	107.67	26.78	90.65	-5,278.36	1,713.85	7,111.11	6,998.91	112.20	63.379		
10,100.00	7,630.00	7,652.85	7,650.89	107.38	26.78	90.65	-5,278.36	1,713.85	7,021.20	6,908.86	112.34	62.497		
10,200.00	7,630.00	7,652.82	7,650.87	107.10	26.78	90.65	-5,278.36	1,713.85	6,931.57	6,819.08	112.50	61.616		
10,300.00	7,630.00	7,652.80	7,650.84	106.84	26.78	90.65	-5,278.36	1,713.85	6,842.23	6,729.58	112.65	60.737		
10,400.00	7,630.00	7,652.77	7,650.81	106.59	26.78	90.64	-5,278.36	1,713.85	6,753.18	6,640.37	112.82	59.860		
10,500.00	7,630.00	7,652.74	7,650.79	106.35	26.78	90.64	-5,278.36	1,713.85	6,664.45	6,551.46	112.99	58.984		
10,600.00	7,630.00	7,652.71	7,650.76	106.13	26.78	90.64	-5,278.36	1,713.85	6,576.04	6,462.88	113.16	58.111		
10,700.00	7,630.00	7,652.69	7,650.73	105.92	26.78	90.64	-5,278.36	1,713.85	6,487.97	6,374.62	113.35	57.239		
10,800.00	7,630.00	7,652.66	7,650.70	105.72	26.78	90.64	-5,278.36	1,713.85	6,400.25	6,286.71	113.54	56.370		
10,900.00	7,630.00	7,652.63	7,650.68	105.54	26.78	90.64	-5,278.36	1,713.84	6,312.89	6,199.15	113.74	55.504		
11,000.00	7,630.00	7,652.60	7,650.65	105.37	26.78	90.64	-5,278.36	1,713.84	6,225.91	6,111.96	113.95	54.639		
11,100.00	7,630.00	7,652.57	7,650.62	105.21	26.78	90.64	-5,278.36	1,713.84	6,139.33	6,025.17	114.16	53.778		
11,200.00	7,630.00	7,652.54	7,650.59	105.06	26.78	90.64	-5,278.36	1,713.84	6,053.16	5,938.78	114.38	52.919		
11,300.00	7,630.00	7,652.51	7,650.56	104.93	26.78	90.64	-5,278.36	1,713.84	5,967.43	5,852.81	114.62	52.064		
11,400.00	7,630.00	7,652.48	7,650.53	104.82	26.78	90.64	-5,278.36	1,713.84	5,882.14	5,767.28	114.86	51.211		
11,500.00	7,630.00	7,652.45	7,650.50	104.72	26.78	90.64	-5,278.36	1,713.84	5,797.33	5,682.22	115.11	50.363		
11,600.00	7,630.00	7,652.42	7,650.46	104.63	26.78	90.64	-5,278.36	1,713.84	5,713.00	5,597.63	115.37	49.517		
11,700.00	7,630.00	7,652.39	7,650.43	104.55	26.78	90.64	-5,278.36	1,713.84	5,629.19	5,513.55	115.65	48.676		
11,800.00	7,630.00	7,652.35	7,650.40	104.50	26.78	90.64	-5,278.36	1,713.84	5,545.92	5,429.99	115.93	47.839		
11,900.00	7,630.00	7,652.32	7,650.37	104.45	26.78	90.64	-5,278.36	1,713.84	5,463.21	5,346.98	116.22	47.006		
12,000.00	7,630.00	7,652.29	7,650.33	104.43	26.78	90.64	-5,278.36	1,713.84	5,381.08	5,264.55	116.53	46.178		
12,100.00	7,630.00	7,652.26	7,650.30	104.42	26.78	90.64	-5,278.36	1,713.84	5,299.57	5,182.72	116.85	45.354		
12,200.00	7,630.00	7,652.22	7,650.27	104.42	26.78	90.63	-5,278.36	1,713.84	5,218.70	5,101.52	117.18	44.536		
12,300.00	7,630.00	7,652.19	7,650.23	104.45	26.78	90.63	-5,278.36	1,713.84	5,138.51	5,020.99	117.52	43.724		
12,400.00	7,630.00	7,652.15	7,650.20	104.49	26.78	90.63	-5,278.36	1,713.84	5,059.02	4,941.14	117.88	42.917		
12,500.00	7,630.00	7,652.12	7,650.16	104.55	26.78	90.63	-5,278.36	1,713.84	4,980.27	4,862.02	118.25	42.117		
12,600.00	7,630.00	7,652.08	7,650.13	104.63	26.78	90.63	-5,278.37	1,713.84	4,902.29	4,783.66	118.63	41.323		
12,700.00	7,630.00	7,652.05	7,650.09	104.73	26.78	90.63	-5,278.37	1,713.84	4,825.13	4,706.10	119.03	40.537		
12,800.00	7,630.00	7,652.01	7,650.05	104.85	26.78	90.63	-5,278.37	1,713.84	4,748.82	4,629.38	119.44	39.758		
12,900.00	7,630.00	7,651.97	7,650.02	104.99	26.78	90.63	-5,278.37	1,713.84	4,673.41	4,553.53	119.87	38.987		
13,000.00	7,630.00	7,651.93	7,649.98	105.15	26.78	90.63	-5,278.37	1,713.84	4,598.93	4,478.61	120.32	38.224		
13,100.00	7,630.00	7,651.90	7,649.94	105.34	26.78	90.63	-5,278.37	1,713.84	4,525.43	4,404.66	120.77	37.470		
13,200.00	7,630.00	7,651.86	7,649.90	105.56	26.78	90.63	-5,278.37	1,713.84	4,452.97	4,331.72	121.25	36.726		
13,300.00	7,630.00	7,651.82	7,649.86	105.80	26.78	90.63	-5,278.37	1,713.84	4,381.59	4,259.85	121.74	35.992		
13,400.00	7,630.00	7,651.78	7,649.82	106.06	26.78	90.63	-5,278.37	1,713.84	4,311.35	4,189.11	122.24	35.269		
13,500.00	7,630.00	7,651.74	7,649.78	106.36	26.78	90.63	-5,278.37	1,713.84	4,242.31	4,119.54	122.76	34.556		
13,600.00	7,630.00	7,651.70	7,649.74	106.68	26.78	90.62	-5,278.37	1,713.84	4,174.52	4,051.21	123.30	33.856		
13,700.00	7,630.00	7,651.65	7,649.70	107.03	26.78	90.62	-5,278.37	1,713.83	4,108.04	3,984.19	123.85	33.169		
13,800.00	7,630.00	7,651.61	7,649.66	107.42	26.78	90.62	-5,278.37	1,713.83	4,042.94	3,918.53	124.42	32.495		
13,900.00	7,630.00	7,651.57	7,649.61	107.83	26.78	90.62	-5,278.37	1,713.83	3,979.30	3,854.30	125.00	31.835		
14,000.00	7,630.00	7,651.52	7,649.57	108.28	26.78	90.62	-5,278.37	1,713.83	3,917.17	3,791.58	125.59	31.190		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,651.48	7,649.52	108.77	26.78	90.62	-5,278.37	1,713.83	3,856.63	3,730.44	126.20	30.560		
14,200.00	7,630.00	7,651.43	7,649.48	109.29	26.78	90.62	-5,278.37	1,713.83	3,797.77	3,670.95	126.81	29.948		
14,300.00	7,630.00	7,651.39	7,649.43	109.84	26.78	90.62	-5,278.37	1,713.83	3,740.65	3,613.21	127.44	29.352		
14,400.00	7,630.00	7,651.34	7,649.39	110.43	26.78	90.62	-5,278.37	1,713.83	3,685.36	3,557.28	128.07	28.775		
14,500.00	7,630.00	7,651.29	7,649.34	111.06	26.78	90.62	-5,278.37	1,713.83	3,631.98	3,503.26	128.71	28.217		
14,600.00	7,630.00	7,651.25	7,649.29	111.72	26.78	90.62	-5,278.37	1,713.83	3,580.60	3,451.24	129.36	27.680		
14,700.00	7,630.00	7,651.20	7,649.24	112.42	26.78	90.62	-5,278.37	1,713.83	3,531.30	3,401.29	130.00	27.163		
14,800.00	7,630.00	7,651.15	7,649.19	113.16	26.78	90.61	-5,278.37	1,713.83	3,484.18	3,353.53	130.65	26.668		
14,900.00	7,630.00	7,651.10	7,649.14	113.94	26.78	90.61	-5,278.37	1,713.83	3,439.31	3,308.02	131.29	26.196		
15,000.00	7,630.00	7,651.05	7,649.09	114.75	26.78	90.61	-5,278.37	1,713.83	3,396.81	3,264.88	131.92	25.748		
15,100.00	7,630.00	7,650.99	7,649.04	115.60	26.78	90.61	-5,278.37	1,713.83	3,356.74	3,224.19	132.55	25.325		
15,200.00	7,630.00	7,650.94	7,648.99	116.48	26.78	90.61	-5,278.37	1,713.83	3,319.20	3,186.05	133.16	24.927		
15,300.00	7,630.00	7,650.89	7,648.93	117.40	26.78	90.61	-5,278.37	1,713.83	3,284.28	3,150.54	133.75	24.556		
15,400.00	7,630.00	7,650.83	7,648.88	118.35	26.78	90.61	-5,278.37	1,713.83	3,252.07	3,117.75	134.31	24.212		
15,500.00	7,630.00	7,650.78	7,648.82	119.34	26.77	90.61	-5,278.37	1,713.83	3,222.63	3,087.77	134.86	23.897		
15,600.00	7,630.00	7,650.72	7,648.77	120.35	26.77	90.61	-5,278.37	1,713.82	3,196.05	3,060.68	135.37	23.610		
15,700.00	7,630.00	7,650.66	7,648.71	121.40	26.77	90.61	-5,278.37	1,713.82	3,172.40	3,036.56	135.85	23.353		
15,800.00	7,630.00	7,650.60	7,648.65	122.48	26.77	90.60	-5,278.37	1,713.82	3,151.76	3,015.47	136.29	23.126		
15,900.00	7,630.00	7,650.54	7,648.59	123.58	26.77	90.60	-5,278.37	1,713.82	3,134.16	2,997.48	136.68	22.930		
16,000.00	7,630.00	7,650.48	7,648.53	124.71	26.77	90.60	-5,278.37	1,713.82	3,119.68	2,982.64	137.04	22.765		
16,100.00	7,630.00	7,650.42	7,648.47	125.87	26.77	90.60	-5,278.37	1,713.82	3,108.34	2,971.00	137.34	22.632		
16,200.00	7,630.00	7,650.36	7,648.40	127.05	26.77	90.60	-5,278.37	1,713.82	3,100.19	2,962.59	137.60	22.531		
16,300.00	7,630.00	7,650.29	7,648.34	128.26	26.77	90.60	-5,278.37	1,713.82	3,095.25	2,957.45	137.80	22.461		
16,400.00	7,630.00	7,650.23	7,648.27	129.48	26.77	90.60	-5,278.37	1,713.82	3,093.54	2,955.59	137.95	22.425		
16,402.96	7,630.00	7,650.23	7,648.27	129.52	26.77	90.60	-5,278.37	1,713.82	3,093.54	2,955.58	137.96	22.424 CC, ES		
16,500.00	7,630.00	7,650.16	7,648.21	130.73	26.77	90.60	-5,278.37	1,713.82	3,095.06	2,957.01	138.05	22.420 SF		
16,600.00	7,630.00	7,650.09	7,648.14	132.00	26.77	90.60	-5,278.37	1,713.82	3,099.81	2,961.72	138.09	22.448		
16,700.00	7,630.00	7,650.02	7,648.07	133.29	26.77	90.59	-5,278.37	1,713.82	3,107.77	2,969.69	138.08	22.507		
16,800.00	7,630.00	7,649.95	7,648.00	134.59	26.77	90.59	-5,278.37	1,713.82	3,118.92	2,980.90	138.01	22.599		
16,900.00	7,630.00	7,649.88	7,647.93	135.91	26.77	90.59	-5,278.37	1,713.82	3,133.22	2,995.32	137.90	22.722		
17,000.00	7,630.00	7,649.81	7,647.85	137.25	26.77	90.59	-5,278.37	1,713.82	3,150.63	3,012.90	137.73	22.876		
17,100.00	7,630.00	7,649.73	7,647.78	138.61	26.77	90.59	-5,278.37	1,713.81	3,171.10	3,033.58	137.51	23.060		
17,200.00	7,630.00	7,649.65	7,647.70	139.97	26.77	90.59	-5,278.37	1,713.81	3,194.57	3,057.31	137.26	23.275		
17,300.00	7,630.00	7,649.58	7,647.62	141.36	26.77	90.59	-5,278.37	1,713.81	3,220.98	3,084.02	136.96	23.518		
17,400.00	7,630.00	7,649.50	7,647.54	142.75	26.77	90.58	-5,278.37	1,713.81	3,250.25	3,113.63	136.62	23.790		
17,500.00	7,630.00	7,649.42	7,647.46	144.16	26.77	90.58	-5,278.37	1,713.81	3,282.30	3,146.05	136.25	24.091		
17,600.00	7,630.00	7,649.33	7,647.38	145.58	26.77	90.58	-5,278.37	1,713.81	3,317.06	3,181.22	135.85	24.418		
17,700.00	7,630.00	7,649.25	7,647.29	147.01	26.77	90.58	-5,278.37	1,713.81	3,354.45	3,219.03	135.42	24.771		
17,800.00	7,630.00	7,649.16	7,647.21	148.45	26.77	90.58	-5,278.37	1,713.81	3,394.37	3,259.40	134.97	25.150		
17,900.00	7,630.00	7,649.07	7,647.12	149.91	26.77	90.58	-5,278.37	1,713.81	3,436.73	3,302.24	134.50	25.553		
18,000.00	7,630.00	7,648.98	7,647.03	151.37	26.77	90.57	-5,278.37	1,713.81	3,481.46	3,347.45	134.01	25.979		
18,100.00	7,630.00	7,648.89	7,646.93	152.84	26.77	90.57	-5,278.37	1,713.81	3,528.45	3,394.94	133.51	26.428		
18,200.00	7,630.00	7,648.79	7,646.84	154.32	26.77	90.57	-5,278.37	1,713.80	3,577.62	3,444.62	133.00	26.899		
18,300.00	7,630.00	7,648.70	7,646.74	155.81	26.77	90.57	-5,278.37	1,713.80	3,628.88	3,496.39	132.49	27.391		
18,400.00	7,630.00	7,648.60	7,646.64	157.31	26.77	90.57	-5,278.37	1,713.80	3,682.14	3,550.18	131.97	27.902		
18,500.00	7,630.00	7,648.50	7,646.54	158.81	26.77	90.57	-5,278.37	1,713.80	3,737.32	3,605.88	131.44	28.433		
18,600.00	7,630.00	7,648.39	7,646.44	160.32	26.77	90.56	-5,278.37	1,713.80	3,794.34	3,663.41	130.92	28.982		
18,700.00	7,630.00	7,648.29	7,646.33	161.84	26.77	90.56	-5,278.37	1,713.80	3,853.10	3,722.70	130.40	29.547		
18,800.00	7,630.00	7,648.18	7,646.22	163.37	26.77	90.56	-5,278.37	1,713.80	3,913.54	3,783.65	129.89	30.130		
18,900.00	7,630.00	7,648.07	7,646.11	164.90	26.77	90.56	-5,278.37	1,713.80	3,975.58	3,846.20	129.38	30.728		
19,000.00	7,630.00	7,647.95	7,646.00	166.43	26.77	90.56	-5,278.37	1,713.80	4,039.14	3,910.26	128.88	31.341		
19,100.00	7,630.00	7,647.84	7,645.88	167.98	26.76	90.55	-5,278.37	1,713.79	4,104.15	3,975.76	128.39	31.967		

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

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,647.72	7,645.76	169.53	26.76	90.55	-5,278.37	1,713.79	4,170.54	4,042.64	127.90	32.608	
19,300.00	7,630.00	7,647.59	7,645.64	171.08	26.76	90.55	-5,278.37	1,713.79	4,238.26	4,110.83	127.43	33.260	
19,400.00	7,630.00	7,647.47	7,645.51	172.64	26.76	90.55	-5,278.37	1,713.79	4,307.23	4,180.27	126.96	33.925	
19,500.00	7,630.00	7,647.34	7,645.38	174.21	26.76	90.54	-5,278.37	1,713.79	4,377.40	4,250.89	126.51	34.601	
19,518.56	7,630.00	7,647.31	7,645.36	174.50	26.76	90.54	-5,278.37	1,713.79	4,390.56	4,264.13	126.43	34.728	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.76	-5,617.41	5,664.05	7,977.31					
100.00	100.00	73.00	73.00	0.13	0.56	134.76	-5,617.41	5,664.05	7,977.27	7,976.57	0.70	N/A		
200.00	200.00	173.00	173.00	0.49	2.04	134.76	-5,617.41	5,664.05	7,977.27	7,974.73	2.53	3,146.932		
300.00	300.00	273.00	273.00	0.85	3.79	134.76	-5,617.41	5,664.05	7,977.27	7,972.63	4.64	1,719.707		
400.00	400.00	373.00	373.00	1.21	5.53	134.76	-5,617.41	5,664.05	7,977.27	7,970.52	6.74	1,183.125		
500.00	499.98	472.98	472.98	1.56	7.28	68.06	-5,617.41	5,664.05	7,976.61	7,967.77	8.84	902.190		
600.00	599.84	572.84	572.84	1.92	9.02	68.13	-5,617.41	5,664.05	7,974.66	7,963.72	10.94	729.036		
700.00	699.45	672.45	672.45	2.29	10.76	68.25	-5,617.41	5,664.05	7,971.41	7,958.37	13.04	611.281		
800.00	798.70	771.70	771.70	2.67	12.49	68.42	-5,617.41	5,664.05	7,966.88	7,951.73	15.15	525.896		
900.00	897.47	870.47	870.47	3.07	14.22	68.63	-5,617.41	5,664.05	7,961.09	7,943.82	17.27	461.039		
1,000.00	995.62	968.62	968.62	3.50	15.93	68.89	-5,617.41	5,664.05	7,954.07	7,934.67	19.40	410.013		
1,100.00	1,093.06	1,066.06	1,066.06	3.96	17.63	69.19	-5,617.41	5,664.05	7,945.83	7,924.29	21.55	368.747		
1,200.00	1,189.64	1,162.64	1,162.64	4.46	19.31	69.53	-5,617.41	5,664.05	7,936.43	7,912.71	23.72	334.630		
1,300.00	1,285.27	1,258.27	1,258.27	5.00	20.98	69.92	-5,617.41	5,664.05	7,925.90	7,899.99	25.91	305.910		
1,400.00	1,379.82	1,352.82	1,352.82	5.60	22.63	70.35	-5,617.41	5,664.05	7,914.28	7,886.15	28.13	281.369		
1,500.00	1,473.17	1,446.17	1,446.17	6.25	24.26	70.83	-5,617.41	5,664.05	7,901.62	7,871.25	30.38	260.134		
1,600.00	1,565.21	1,538.21	1,538.21	6.95	25.87	71.34	-5,617.41	5,664.05	7,887.99	7,855.33	32.65	241.563		
1,700.00	1,655.84	1,628.84	1,628.84	7.72	27.45	71.88	-5,617.41	5,664.05	7,873.43	7,838.46	34.97	225.175		
1,800.00	1,744.94	1,717.94	1,717.94	8.55	29.01	72.46	-5,617.41	5,664.05	7,858.02	7,820.70	37.31	210.600		
1,900.00	1,832.39	1,805.39	1,805.39	9.45	30.53	73.08	-5,617.41	5,664.05	7,841.81	7,802.12	39.70	197.550		
2,000.00	1,918.11	1,908.89	1,908.89	10.41	32.34	73.72	-5,617.41	5,664.05	7,824.89	7,782.46	42.43	184.438		
2,100.00	2,001.97	1,974.97	1,974.97	11.45	33.49	74.39	-5,617.41	5,664.05	7,807.33	7,762.75	44.57	175.160		
2,200.00	2,083.88	2,056.88	2,056.88	12.56	34.92	75.08	-5,617.41	5,664.05	7,789.20	7,742.13	47.07	165.488		
2,300.00	2,163.74	2,136.74	2,136.74	13.74	36.32	75.80	-5,617.41	5,664.05	7,770.58	7,720.98	49.60	156.660		
2,400.00	2,241.45	2,214.45	2,214.45	14.99	37.67	76.53	-5,617.41	5,664.05	7,751.57	7,699.40	52.17	148.575		
2,421.22	2,257.65	2,230.65	2,230.65	15.26	37.95	76.69	-5,617.41	5,664.05	7,747.50	7,694.77	52.72	146.949		
2,500.00	2,317.63	2,309.37	2,290.63	16.29	39.33	76.97	-5,617.41	5,664.05	7,732.49	7,677.39	55.10	140.331		
2,600.00	2,393.75	2,366.75	2,366.75	17.62	40.33	77.34	-5,617.41	5,664.05	7,713.88	7,656.49	57.40	134.391		
2,700.00	2,469.88	2,442.88	2,442.88	18.95	41.66	77.70	-5,617.41	5,664.05	7,695.78	7,635.74	60.04	128.178		
2,800.00	2,546.01	2,519.01	2,519.01	20.30	42.99	78.07	-5,617.41	5,664.05	7,678.18	7,615.49	62.70	122.467		
2,900.00	2,622.13	2,604.87	2,595.13	21.65	44.49	78.43	-5,617.41	5,664.05	7,661.09	7,595.56	65.53	116.903		
3,000.00	2,698.26	2,671.26	2,671.26	23.01	45.64	78.80	-5,617.41	5,664.05	7,644.51	7,576.47	68.04	112.348		
3,100.00	2,774.38	2,747.38	2,747.38	24.37	46.97	79.17	-5,617.41	5,664.05	7,628.45	7,557.72	70.73	107.849		
3,200.00	2,850.51	2,823.51	2,823.51	25.74	48.30	79.54	-5,617.41	5,664.05	7,612.91	7,539.47	73.43	103.675		
3,300.00	2,926.64	2,900.36	2,899.64	27.11	49.64	79.91	-5,617.41	5,664.05	7,597.88	7,521.73	76.15	99.777		
3,400.00	3,002.76	2,975.76	2,975.76	28.49	50.96	80.28	-5,617.41	5,664.05	7,583.38	7,504.54	78.85	96.177		
3,500.00	3,078.89	3,051.89	3,051.89	29.87	52.29	80.65	-5,617.41	5,664.05	7,569.41	7,487.85	81.57	92.800		
3,600.00	3,155.02	3,128.02	3,128.02	31.25	53.62	81.02	-5,617.41	5,664.05	7,555.97	7,471.68	84.29	89.642		
3,700.00	3,231.14	3,204.14	3,204.14	32.63	54.95	81.40	-5,617.41	5,664.05	7,543.07	7,456.05	87.02	86.682		
3,800.00	3,307.27	3,280.27	3,280.27	34.01	56.27	81.77	-5,617.41	5,664.05	7,530.70	7,440.94	89.75	83.904		
3,900.00	3,383.39	3,356.39	3,356.39	35.40	57.60	82.15	-5,617.41	5,664.05	7,518.87	7,426.37	92.49	81.293		
4,000.00	3,459.52	3,432.52	3,432.52	36.79	58.93	82.52	-5,617.41	5,664.05	7,507.58	7,412.34	95.23	78.834		
4,100.00	3,535.65	3,508.65	3,508.65	38.18	60.26	82.90	-5,617.41	5,664.05	7,496.83	7,398.85	97.98	76.516		
4,200.00	3,611.77	3,584.77	3,584.77	39.57	61.59	83.27	-5,617.41	5,664.05	7,486.63	7,385.91	100.72	74.328		
4,300.00	3,687.90	3,660.90	3,660.90	40.96	62.92	83.65	-5,617.41	5,664.05	7,476.98	7,373.51	103.47	72.260		
4,400.00	3,764.02	3,737.02	3,737.02	42.35	64.25	84.03	-5,617.41	5,664.05	7,467.88	7,361.65	106.22	70.303		
4,500.00	3,840.15	3,813.15	3,813.15	43.74	65.57	84.41	-5,617.41	5,664.05	7,459.33	7,350.35	108.98	68.449		
4,600.00	3,916.28	3,889.28	3,889.28	45.13	66.90	84.79	-5,617.41	5,664.05	7,451.34	7,339.61	111.73	66.691		
4,700.00	3,992.40	3,965.40	3,965.40	46.53	68.23	85.17	-5,617.41	5,664.05	7,443.90	7,329.42	114.48	65.021		
4,800.00	4,068.53	4,041.53	4,041.53	47.92	69.56	85.55	-5,617.41	5,664.05	7,437.02	7,319.78	117.24	63.435		
4,900.00	4,144.66	4,117.66	4,117.66	49.32	70.89	85.93	-5,617.41	5,664.05	7,430.70	7,310.71	119.99	61.926		
5,000.00	4,220.78	4,206.22	4,193.78	50.71	72.43	86.31	-5,617.41	5,664.05	7,424.94	7,301.98	122.96	60.383		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,269.91	4,269.91	52.11	73.55	86.69	-5,617.41	5,664.05	7,419.75	7,294.25	125.50	59.121		
5,200.00	4,373.03	4,346.03	4,346.03	53.51	74.88	87.07	-5,617.41	5,664.05	7,415.11	7,286.86	128.25	57.816		
5,300.00	4,449.16	4,422.16	4,422.16	54.90	76.20	87.45	-5,617.41	5,664.05	7,411.04	7,280.04	131.00	56.571		
5,400.00	4,525.29	4,501.71	4,498.29	56.30	77.59	87.83	-5,617.41	5,664.05	7,407.54	7,273.73	133.81	55.357		
5,500.00	4,601.41	4,574.41	4,574.41	57.70	78.86	88.21	-5,617.41	5,664.05	7,404.60	7,268.10	136.50	54.246		
5,600.00	4,677.54	4,650.54	4,650.54	59.10	80.19	88.60	-5,617.41	5,664.05	7,402.23	7,262.99	139.25	53.160		
5,700.00	4,753.66	4,726.66	4,726.66	60.49	81.52	88.98	-5,617.41	5,664.05	7,400.43	7,258.44	141.99	52.120		
5,800.00	4,829.79	4,802.79	4,802.79	61.89	82.85	89.36	-5,617.41	5,664.05	7,399.20	7,254.47	144.73	51.125		
5,900.00	4,905.92	4,878.92	4,878.92	63.29	84.18	89.74	-5,617.41	5,664.05	7,398.53	7,251.07	147.46	50.172		
5,967.28	4,957.14	4,930.14	4,930.14	64.23	85.07	90.00	-5,617.41	5,664.05	7,398.40	7,249.10	149.30	49.554		
6,000.00	4,982.04	4,955.04	4,955.04	64.69	85.50	90.13	-5,617.41	5,664.05	7,398.43	7,248.24	150.19	49.259		
6,100.00	5,058.17	5,031.17	5,031.17	66.09	86.83	90.51	-5,617.41	5,664.05	7,398.90	7,245.98	152.92	48.383		
6,200.00	5,134.30	5,107.30	5,107.30	67.49	88.16	90.89	-5,617.41	5,664.05	7,399.94	7,244.29	155.65	47.543		
6,300.00	5,210.42	5,183.42	5,183.42	68.89	89.49	91.27	-5,617.41	5,664.05	7,401.55	7,243.18	158.37	46.737		
6,400.00	5,286.55	5,259.55	5,259.55	70.29	90.82	91.65	-5,617.41	5,664.05	7,403.72	7,242.64	161.08	45.963		
6,500.00	5,362.67	5,335.67	5,335.67	71.69	92.15	92.04	-5,617.41	5,664.05	7,406.46	7,242.67	163.79	45.219		
6,600.00	5,438.80	5,411.80	5,411.80	73.09	93.48	92.42	-5,617.41	5,664.05	7,409.77	7,243.28	166.49	44.505		
6,700.00	5,514.93	5,487.93	5,487.93	74.49	94.81	92.80	-5,617.41	5,664.05	7,413.64	7,244.45	169.19	43.818		
6,800.00	5,591.05	5,564.05	5,564.05	75.89	96.13	93.18	-5,617.41	5,664.05	7,418.08	7,246.20	171.88	43.158		
6,900.00	5,667.18	5,640.18	5,640.18	77.29	97.46	93.56	-5,617.41	5,664.05	7,423.08	7,248.51	174.57	42.522		
7,000.00	5,743.30	5,716.30	5,716.30	78.69	98.79	93.94	-5,617.41	5,664.05	7,428.65	7,251.40	177.25	41.911		
7,100.00	5,819.43	5,807.57	5,792.43	80.09	100.38	94.32	-5,617.41	5,664.05	7,434.77	7,254.59	180.19	41.262		
7,200.00	5,895.56	5,868.56	5,868.56	81.49	101.45	94.70	-5,617.41	5,664.05	7,441.46	7,258.87	182.59	40.756		
7,300.00	5,971.68	5,944.68	5,944.68	82.90	102.78	95.08	-5,617.41	5,664.05	7,448.70	7,263.46	185.25	40.210		
7,400.00	6,047.81	6,020.81	6,020.81	84.30	104.11	95.46	-5,617.41	5,664.05	7,456.50	7,268.61	187.90	39.684		
7,500.00	6,123.94	6,103.06	6,096.94	85.70	105.54	95.84	-5,617.41	5,664.05	7,464.86	7,274.21	190.65	39.156		
7,600.00	6,200.06	6,173.06	6,173.06	87.10	106.76	96.22	-5,617.41	5,664.05	7,473.77	7,280.60	193.17	38.689		
7,700.00	6,276.19	6,249.19	6,249.19	88.50	108.09	96.59	-5,617.41	5,664.05	7,483.23	7,287.43	195.80	38.218		
7,800.00	6,352.31	6,325.31	6,325.31	89.90	109.42	96.97	-5,617.41	5,664.05	7,493.24	7,294.82	198.42	37.764		
7,900.00	6,428.44	6,401.44	6,401.44	91.31	110.75	97.35	-5,617.41	5,664.05	7,503.80	7,302.77	201.03	37.327		
8,000.00	6,504.57	6,477.57	6,477.57	92.71	112.08	97.72	-5,617.41	5,664.05	7,514.90	7,311.27	203.63	36.904		
8,100.00	6,580.69	6,553.69	6,553.69	94.11	113.41	98.10	-5,617.41	5,664.05	7,526.55	7,320.32	206.23	36.497		
8,200.00	6,656.82	6,629.82	6,629.82	95.51	114.73	98.47	-5,617.41	5,664.05	7,538.73	7,329.92	208.81	36.103		
8,300.00	6,732.95	6,705.95	6,705.95	96.91	116.06	98.85	-5,617.41	5,664.05	7,551.45	7,340.07	211.38	35.724		
8,400.00	6,809.07	6,782.07	6,782.07	98.32	117.39	99.22	-5,617.41	5,664.05	7,564.71	7,350.76	213.95	35.358		
8,500.00	6,885.20	6,858.20	6,858.20	99.72	118.72	99.59	-5,617.41	5,664.05	7,578.49	7,361.99	216.50	35.004		
8,600.00	6,961.32	6,934.32	6,934.32	101.12	120.05	99.96	-5,617.41	5,664.05	7,592.81	7,373.76	219.05	34.662		
8,700.00	7,037.45	7,010.45	7,010.45	102.52	121.38	100.33	-5,617.41	5,664.05	7,607.65	7,386.07	221.59	34.333		
8,732.15	7,061.92	7,034.92	7,034.92	102.97	121.81	100.45	-5,617.41	5,664.05	7,612.54	7,390.14	222.40	34.229		
8,750.00	7,075.57	7,048.57	7,048.57	103.22	122.04	98.53	-5,617.41	5,664.05	7,615.00	7,392.15	222.85	34.171		
8,800.00	7,114.27	7,087.27	7,087.27	103.91	122.72	92.82	-5,617.41	5,664.05	7,619.06	7,394.94	224.13	33.994		
8,850.00	7,153.47	7,126.47	7,126.47	104.58	123.40	86.74	-5,617.41	5,664.05	7,618.94	7,393.53	225.41	33.801		
8,900.00	7,192.85	7,165.85	7,165.85	105.21	124.09	80.48	-5,617.41	5,664.05	7,614.62	7,387.94	226.68	33.592		
8,950.00	7,232.12	7,205.12	7,205.12	105.80	124.78	74.24	-5,617.41	5,664.05	7,606.12	7,378.19	227.93	33.370		
9,000.00	7,270.99	7,243.99	7,243.99	106.35	125.45	68.21	-5,617.41	5,664.05	7,593.51	7,364.36	229.15	33.138		
9,050.00	7,309.16	7,282.16	7,282.16	106.85	126.12	62.54	-5,617.41	5,664.05	7,576.87	7,346.54	230.32	32.896		
9,100.00	7,346.32	7,319.32	7,319.32	107.30	126.77	57.32	-5,617.41	5,664.05	7,556.31	7,324.86	231.45	32.648		
9,150.00	7,382.22	7,355.22	7,355.22	107.69	127.40	52.58	-5,617.41	5,664.05	7,531.97	7,299.46	232.51	32.395		
9,200.00	7,416.56	7,389.56	7,389.56	108.02	127.99	48.30	-5,617.41	5,664.05	7,504.02	7,270.52	233.50	32.137		
9,250.00	7,449.09	7,422.09	7,422.09	108.29	128.56	44.45	-5,617.41	5,664.05	7,472.66	7,238.25	234.41	31.878		
9,300.00	7,479.56	7,452.56	7,452.56	108.51	129.09	40.94	-5,617.41	5,664.05	7,438.12	7,202.87	235.25	31.618		
9,350.00	7,507.74	7,480.74	7,480.74	108.68	129.59	37.69	-5,617.41	5,664.05	7,400.63	7,164.63	236.00	31.359		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	7,506.41	7,506.41	108.79	130.03	34.56	-5,617.41	5,664.05	7,360.47	7,123.81	236.66	31.101		
9,450.00	7,556.39	7,529.39	7,529.39	108.86	130.44	31.39	-5,617.41	5,664.05	7,317.93	7,080.70	237.24	30.847		
9,500.00	7,576.48	7,549.48	7,549.48	108.88	130.79	27.91	-5,617.41	5,664.05	7,273.32	7,035.61	237.72	30.597		
9,550.00	7,593.55	7,566.55	7,566.55	108.86	131.08	23.62	-5,617.41	5,664.05	7,226.98	6,988.87	238.11	30.352		
9,600.00	7,607.46	7,580.46	7,580.46	108.80	131.33	17.47	-5,617.41	5,664.05	7,179.24	6,940.83	238.41	30.113		
9,650.00	7,618.11	7,608.89	7,591.11	108.71	131.82	6.75	-5,617.41	5,664.05	7,130.46	6,891.53	238.93	29.844		
9,700.00	7,625.41	7,601.59	7,598.41	108.59	131.70	-16.73	-5,617.41	5,664.05	7,081.01	6,842.22	238.79	29.653		
9,750.00	7,629.30	7,602.30	7,602.30	108.45	131.71	-63.69	-5,617.41	5,664.05	7,031.27	6,792.50	238.77	29.448		
9,781.81	7,630.00	7,603.00	7,603.00	108.35	131.72	-90.00	-5,617.41	5,664.05	6,999.65	6,760.90	238.75	29.318		
9,800.00	7,630.00	7,603.00	7,603.00	108.29	131.72	-90.00	-5,617.41	5,664.05	6,981.60	6,742.86	238.73	29.245		
9,900.00	7,630.00	7,603.00	7,603.00	107.97	131.72	-90.00	-5,617.41	5,664.05	6,882.37	6,643.75	238.61	28.843		
10,000.00	7,630.00	7,603.00	7,603.00	107.67	131.72	-90.00	-5,617.41	5,664.05	6,783.16	6,544.66	238.49	28.442		
10,100.00	7,630.00	7,603.00	7,603.00	107.38	131.72	-90.00	-5,617.41	5,664.05	6,683.97	6,445.60	238.37	28.040		
10,200.00	7,630.00	7,603.00	7,603.00	107.10	131.72	-90.00	-5,617.41	5,664.05	6,584.81	6,346.57	238.24	27.639		
10,300.00	7,630.00	7,603.00	7,603.00	106.84	131.72	-90.00	-5,617.41	5,664.05	6,485.68	6,247.56	238.11	27.238		
10,400.00	7,630.00	7,603.00	7,603.00	106.59	131.72	-90.00	-5,617.41	5,664.05	6,386.57	6,148.59	237.98	26.837		
10,500.00	7,630.00	7,603.00	7,603.00	106.35	131.72	-90.00	-5,617.41	5,664.05	6,287.49	6,049.65	237.84	26.436		
10,600.00	7,630.00	7,603.00	7,603.00	106.13	131.72	-90.00	-5,617.41	5,664.05	6,188.44	5,950.74	237.70	26.035		
10,700.00	7,630.00	7,603.00	7,603.00	105.92	131.72	-90.00	-5,617.41	5,664.05	6,089.42	5,851.87	237.55	25.634		
10,800.00	7,630.00	7,603.00	7,603.00	105.72	131.72	-90.00	-5,617.41	5,664.05	5,990.44	5,753.03	237.40	25.233		
10,900.00	7,630.00	7,603.00	7,603.00	105.54	131.72	-90.00	-5,617.41	5,664.05	5,891.49	5,654.24	237.25	24.833		
11,000.00	7,630.00	7,603.00	7,603.00	105.37	131.72	-90.00	-5,617.41	5,664.05	5,792.57	5,555.48	237.09	24.432		
11,100.00	7,630.00	7,603.00	7,603.00	105.21	131.72	-90.00	-5,617.41	5,664.05	5,693.69	5,456.77	236.92	24.032		
11,200.00	7,630.00	7,603.00	7,603.00	105.06	131.72	-90.00	-5,617.41	5,664.05	5,594.85	5,358.11	236.75	23.632		
11,300.00	7,630.00	7,603.00	7,603.00	104.93	131.72	-90.00	-5,617.41	5,664.05	5,496.06	5,259.49	236.57	23.232		
11,400.00	7,630.00	7,603.00	7,603.00	104.82	131.72	-90.00	-5,617.41	5,664.05	5,397.31	5,160.92	236.39	22.833		
11,500.00	7,630.00	7,603.00	7,603.00	104.72	131.72	-90.00	-5,617.41	5,664.05	5,298.60	5,062.41	236.20	22.433		
11,600.00	7,630.00	7,603.00	7,603.00	104.63	131.72	-90.00	-5,617.41	5,664.05	5,199.95	4,963.95	236.00	22.034		
11,700.00	7,630.00	7,603.00	7,603.00	104.55	131.72	-90.00	-5,617.41	5,664.05	5,101.35	4,865.55	235.79	21.635		
11,800.00	7,630.00	7,603.00	7,603.00	104.50	131.72	-90.00	-5,617.41	5,664.05	5,002.80	4,767.22	235.58	21.236		
11,900.00	7,630.00	7,603.00	7,603.00	104.45	131.72	-90.00	-5,617.41	5,664.05	4,904.31	4,668.95	235.36	20.837		
12,000.00	7,630.00	7,603.00	7,603.00	104.43	131.72	-90.00	-5,617.41	5,664.05	4,805.88	4,570.75	235.13	20.439		
12,100.00	7,630.00	7,603.00	7,603.00	104.42	131.72	-90.00	-5,617.41	5,664.05	4,707.52	4,472.63	234.89	20.041		
12,200.00	7,630.00	7,603.00	7,603.00	104.42	131.72	-90.00	-5,617.41	5,664.05	4,609.23	4,374.59	234.64	19.644		
12,300.00	7,630.00	7,603.00	7,603.00	104.45	131.72	-90.00	-5,617.41	5,664.05	4,511.02	4,276.64	234.38	19.246		
12,400.00	7,630.00	7,603.00	7,603.00	104.49	131.72	-90.00	-5,617.41	5,664.05	4,412.89	4,178.77	234.11	18.849		
12,500.00	7,630.00	7,603.00	7,603.00	104.55	131.72	-90.00	-5,617.41	5,664.05	4,314.84	4,081.01	233.83	18.453		
12,600.00	7,630.00	7,603.00	7,603.00	104.63	131.72	-90.00	-5,617.41	5,664.05	4,216.88	3,983.35	233.54	18.057		
12,700.00	7,630.00	7,603.00	7,603.00	104.73	131.72	-90.00	-5,617.41	5,664.05	4,119.03	3,885.80	233.23	17.661		
12,800.00	7,630.00	7,603.00	7,603.00	104.85	131.72	-90.00	-5,617.41	5,664.05	4,021.27	3,788.37	232.91	17.266		
12,900.00	7,630.00	7,603.00	7,603.00	104.99	131.72	-90.00	-5,617.41	5,664.05	3,923.63	3,691.06	232.57	16.871		
13,000.00	7,630.00	7,603.00	7,603.00	105.15	131.72	-90.00	-5,617.41	5,664.05	3,826.12	3,593.90	232.21	16.477		
13,100.00	7,630.00	7,603.00	7,603.00	105.34	131.72	-90.00	-5,617.41	5,664.05	3,728.73	3,496.89	231.84	16.083		
13,200.00	7,630.00	7,603.00	7,603.00	105.56	131.72	-90.00	-5,617.41	5,664.05	3,631.49	3,400.03	231.45	15.690		
13,300.00	7,630.00	7,603.00	7,603.00	105.80	131.72	-90.00	-5,617.41	5,664.05	3,534.40	3,303.36	231.04	15.298		
13,400.00	7,630.00	7,603.00	7,603.00	106.06	131.72	-90.00	-5,617.41	5,664.05	3,437.47	3,206.87	230.61	14.906		
13,500.00	7,630.00	7,603.00	7,603.00	106.36	131.72	-90.00	-5,617.41	5,664.05	3,340.73	3,110.58	230.15	14.515		
13,600.00	7,630.00	7,603.00	7,603.00	106.68	131.72	-90.00	-5,617.41	5,664.05	3,244.19	3,014.52	229.67	14.125		
13,700.00	7,630.00	7,603.00	7,603.00	107.03	131.72	-90.00	-5,617.41	5,664.05	3,147.86	2,918.70	229.16	13.736		
13,800.00	7,630.00	7,603.00	7,603.00	107.42	131.72	-90.00	-5,617.41	5,664.05	3,051.77	2,823.14	228.62	13.348		
13,900.00	7,630.00	7,603.00	7,603.00	107.83	131.72	-90.00	-5,617.41	5,664.05	2,955.93	2,727.88	228.06	12.961		
14,000.00	7,630.00	7,603.00	7,603.00	108.28	131.72	-90.00	-5,617.41	5,664.05	2,860.39	2,632.93	227.45	12.576		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,603.00	7,603.00	108.77	131.72	-90.00	-5,617.41	5,664.05	2,765.15	2,538.34	226.82	12.191		
14,200.00	7,630.00	7,603.00	7,603.00	109.29	131.72	-90.00	-5,617.41	5,664.05	2,670.27	2,444.13	226.14	11.808		
14,300.00	7,630.00	7,603.00	7,603.00	109.84	131.72	-90.00	-5,617.41	5,664.05	2,575.77	2,350.35	225.42	11.427		
14,400.00	7,630.00	7,603.00	7,603.00	110.43	131.72	-90.00	-5,617.41	5,664.05	2,481.71	2,257.05	224.66	11.047		
14,500.00	7,630.00	7,603.00	7,603.00	111.06	131.72	-90.00	-5,617.41	5,664.05	2,388.12	2,164.28	223.85	10.669		
14,600.00	7,630.00	7,603.00	7,603.00	111.72	131.72	-90.00	-5,617.41	5,664.05	2,295.08	2,072.09	222.99	10.292		
14,700.00	7,630.00	7,603.00	7,603.00	112.42	131.72	-90.00	-5,617.41	5,664.05	2,202.65	1,980.57	222.08	9.918		
14,800.00	7,630.00	7,603.00	7,603.00	113.16	131.72	-90.00	-5,617.41	5,664.05	2,110.91	1,889.79	221.12	9.547		
14,900.00	7,630.00	7,603.00	7,603.00	113.94	131.72	-90.00	-5,617.41	5,664.05	2,019.95	1,799.85	220.10	9.177		
15,000.00	7,630.00	7,603.00	7,603.00	114.75	131.72	-90.00	-5,617.41	5,664.05	1,929.88	1,710.85	219.03	8.811		
15,100.00	7,630.00	7,603.00	7,603.00	115.60	131.72	-90.00	-5,617.41	5,664.05	1,840.85	1,622.93	217.92	8.447		
15,200.00	7,630.00	7,603.00	7,603.00	116.48	131.72	-90.00	-5,617.41	5,664.05	1,752.99	1,536.22	216.77	8.087		
15,300.00	7,630.00	7,603.00	7,603.00	117.40	131.72	-90.00	-5,617.41	5,664.05	1,666.51	1,450.90	215.60	7.729		
15,400.00	7,630.00	7,603.00	7,603.00	118.35	131.72	-90.00	-5,617.41	5,664.05	1,581.62	1,367.17	214.44	7.375		
15,500.00	7,630.00	7,603.00	7,603.00	119.34	131.72	-90.00	-5,617.41	5,664.05	1,498.59	1,285.26	213.33	7.025		
15,600.00	7,630.00	7,603.00	7,603.00	120.35	131.72	-90.00	-5,617.41	5,664.05	1,417.76	1,205.43	212.33	6.677		
15,700.00	7,630.00	7,603.00	7,603.00	121.40	131.72	-90.00	-5,617.41	5,664.05	1,339.52	1,128.00	211.52	6.333		
15,800.00	7,630.00	7,603.00	7,603.00	122.48	131.72	-90.00	-5,617.41	5,664.05	1,264.35	1,053.32	211.03	5.991		
15,900.00	7,630.00	7,603.00	7,603.00	123.58	131.72	-90.00	-5,617.41	5,664.05	1,192.83	981.80	211.03	5.652		
16,000.00	7,630.00	7,603.00	7,603.00	124.71	131.72	-90.00	-5,617.41	5,664.05	1,125.66	913.95	211.70	5.317		
16,100.00	7,630.00	7,603.00	7,603.00	125.87	131.72	-90.00	-5,617.41	5,664.05	1,063.66	850.37	213.29	4.987		
16,200.00	7,630.00	7,603.00	7,603.00	127.05	131.72	-90.00	-5,617.41	5,664.05	1,007.79	791.79	215.99	4.666		
16,300.00	7,630.00	7,603.00	7,603.00	128.26	131.72	-90.00	-5,617.41	5,664.05	959.11	739.15	219.96	4.360		
16,400.00	7,630.00	7,603.00	7,603.00	129.48	131.72	-90.00	-5,617.41	5,664.05	918.78	693.58	225.20	4.080		
16,500.00	7,630.00	7,603.00	7,603.00	130.73	131.72	-90.00	-5,617.41	5,664.05	887.93	656.40	231.54	3.835		
16,600.00	7,630.00	7,603.00	7,603.00	132.00	131.72	-90.00	-5,617.41	5,664.05	867.58	628.98	238.60	3.636		
16,700.00	7,630.00	7,603.00	7,603.00	133.29	131.72	-90.00	-5,617.41	5,664.05	858.46	612.57	245.89	3.491		
16,728.68	7,630.00	7,603.00	7,603.00	133.66	131.72	-90.00	-5,617.41	5,664.05	857.98	610.03	247.95	3.460 CC		
16,800.00	7,630.00	7,603.00	7,603.00	134.59	131.72	-90.00	-5,617.41	5,664.05	860.94	608.07	252.88	3.405 ES		
16,900.00	7,630.00	7,603.00	7,603.00	135.91	131.72	-90.00	-5,617.41	5,664.05	874.92	615.83	259.09	3.377 SF		
17,000.00	7,630.00	7,603.00	7,603.00	137.25	131.72	-90.00	-5,617.41	5,664.05	899.86	635.61	264.25	3.405		
17,100.00	7,630.00	7,603.00	7,603.00	138.61	131.72	-90.00	-5,617.41	5,664.05	934.89	666.64	268.25	3.485		
17,200.00	7,630.00	7,603.00	7,603.00	139.97	131.72	-90.00	-5,617.41	5,664.05	978.92	707.77	271.14	3.610		
17,300.00	7,630.00	7,603.00	7,603.00	141.36	131.72	-90.00	-5,617.41	5,664.05	1,030.80	757.73	273.07	3.775		
17,400.00	7,630.00	7,603.00	7,603.00	142.75	131.72	-90.00	-5,617.41	5,664.05	1,089.41	815.20	274.21	3.973		
17,500.00	7,630.00	7,603.00	7,603.00	144.16	131.72	-90.00	-5,617.41	5,664.05	1,153.72	878.97	274.75	4.199		
17,600.00	7,630.00	7,603.00	7,603.00	145.58	131.72	-90.00	-5,617.41	5,664.05	1,222.84	947.99	274.85	4.449		
17,700.00	7,630.00	7,603.00	7,603.00	147.01	131.72	-90.00	-5,617.41	5,664.05	1,295.99	1,021.37	274.62	4.719		
17,800.00	7,630.00	7,603.00	7,603.00	148.45	131.72	-90.00	-5,617.41	5,664.05	1,372.54	1,098.36	274.18	5.006		
17,900.00	7,630.00	7,603.00	7,603.00	149.91	131.72	-90.00	-5,617.41	5,664.05	1,451.94	1,178.34	273.60	5.307		
18,000.00	7,630.00	7,603.00	7,603.00	151.37	131.72	-90.00	-5,617.41	5,664.05	1,533.75	1,260.82	272.93	5.620		
18,100.00	7,630.00	7,603.00	7,603.00	152.84	131.72	-90.00	-5,617.41	5,664.05	1,617.61	1,345.40	272.21	5.943		
18,200.00	7,630.00	7,603.00	7,603.00	154.32	131.72	-90.00	-5,617.41	5,664.05	1,703.21	1,431.75	271.46	6.274		
18,300.00	7,630.00	7,603.00	7,603.00	155.81	131.72	-90.00	-5,617.41	5,664.05	1,790.30	1,519.59	270.72	6.613		
18,400.00	7,630.00	7,603.00	7,603.00	157.31	131.72	-90.00	-5,617.41	5,664.05	1,878.68	1,608.71	269.98	6.959		
18,500.00	7,630.00	7,603.00	7,603.00	158.81	131.72	-90.00	-5,617.41	5,664.05	1,968.18	1,698.92	269.26	7.310		
18,600.00	7,630.00	7,603.00	7,603.00	160.32	131.72	-90.00	-5,617.41	5,664.05	2,058.64	1,790.07	268.56	7.665		
18,700.00	7,630.00	7,603.00	7,603.00	161.84	131.72	-90.00	-5,617.41	5,664.05	2,149.94	1,882.05	267.89	8.025		
18,800.00	7,630.00	7,603.00	7,603.00	163.37	131.72	-90.00	-5,617.41	5,664.05	2,241.99	1,974.74	267.25	8.389		
18,900.00	7,630.00	7,603.00	7,603.00	164.90	131.72	-90.00	-5,617.41	5,664.05	2,334.69	2,068.05	266.64	8.756		
19,000.00	7,630.00	7,603.00	7,603.00	166.43	131.72	-90.00	-5,617.41	5,664.05	2,427.97	2,161.92	266.06	9.126		
19,100.00	7,630.00	7,603.00	7,603.00	167.98	131.72	-90.00	-5,617.41	5,664.05	2,521.77	2,256.27	265.50	9.498		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	7,603.00	7,603.00	169.53	131.72	-90.00	-5,617.41	5,664.05	2,616.02	2,351.05	264.97	9.873	
19,300.00	7,630.00	7,603.00	7,603.00	171.08	131.72	-90.00	-5,617.41	5,664.05	2,710.69	2,446.22	264.47	10.249	
19,400.00	7,630.00	7,603.00	7,603.00	172.64	131.72	-90.00	-5,617.41	5,664.05	2,805.73	2,541.73	264.00	10.628	
19,500.00	7,630.00	7,603.00	7,603.00	174.21	131.72	-90.00	-5,617.41	5,664.05	2,901.10	2,637.55	263.54	11.008	
19,518.56	7,630.00	7,603.00	7,603.00	174.50	131.72	-90.00	-5,617.41	5,664.05	2,918.83	2,655.37	263.46	11.079	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.60	-4,823.42	4,890.64	6,869.20					
100.00	100.00	54.00	54.00	0.13	0.41	134.60	-4,823.42	4,890.64	6,869.04	6,868.49	0.55	N/A		
200.00	200.00	154.00	154.00	0.49	1.71	134.60	-4,823.42	4,890.64	6,869.04	6,866.84	2.20	3,117.584		
300.00	300.00	254.00	254.00	0.85	3.46	134.60	-4,823.42	4,890.64	6,869.04	6,864.74	4.31	1,594.810		
400.00	400.00	354.00	354.00	1.21	5.20	134.60	-4,823.42	4,890.64	6,869.04	6,862.63	6.41	1,071.459		
500.00	499.98	453.98	453.98	1.56	6.95	67.90	-4,823.42	4,890.64	6,868.39	6,859.88	8.51	807.117		
600.00	599.84	553.84	553.84	1.92	8.69	67.98	-4,823.42	4,890.64	6,866.42	6,855.81	10.61	647.346		
700.00	699.45	653.45	653.45	2.29	10.43	68.11	-4,823.42	4,890.64	6,863.15	6,850.44	12.71	540.028		
800.00	798.70	752.70	752.70	2.67	12.16	68.29	-4,823.42	4,890.64	6,858.59	6,843.78	14.82	462.871		
900.00	897.47	851.47	851.47	3.07	13.88	68.52	-4,823.42	4,890.64	6,852.77	6,835.84	16.94	404.628		
1,000.00	995.62	949.62	949.62	3.50	15.60	68.79	-4,823.42	4,890.64	6,845.71	6,826.65	19.07	359.020		
1,100.00	1,093.06	1,047.06	1,047.06	3.96	17.30	69.12	-4,823.42	4,890.64	6,837.45	6,816.24	21.22	322.272		
1,200.00	1,189.64	1,143.64	1,143.64	4.46	18.98	69.50	-4,823.42	4,890.64	6,828.03	6,804.64	23.39	291.980		
1,300.00	1,285.27	1,239.27	1,239.27	5.00	20.65	69.92	-4,823.42	4,890.64	6,817.48	6,791.90	25.58	266.541		
1,400.00	1,379.82	1,333.82	1,333.82	5.60	22.30	70.38	-4,823.42	4,890.64	6,805.87	6,778.07	27.80	244.847		
1,500.00	1,473.17	1,427.17	1,427.17	6.25	23.93	70.89	-4,823.42	4,890.64	6,793.24	6,763.19	30.04	226.107		
1,600.00	1,565.21	1,519.21	1,519.21	6.95	25.54	71.44	-4,823.42	4,890.64	6,779.66	6,747.34	32.32	209.741		
1,700.00	1,655.84	1,609.84	1,609.84	7.72	27.12	72.03	-4,823.42	4,890.64	6,765.20	6,730.56	34.64	195.317		
1,800.00	1,744.94	1,701.06	1,698.94	8.55	28.71	72.65	-4,823.42	4,890.64	6,749.92	6,712.90	37.02	182.319		
1,900.00	1,832.39	1,786.39	1,786.39	9.45	30.20	73.31	-4,823.42	4,890.64	6,733.91	6,694.54	39.37	171.038		
2,000.00	1,918.11	1,872.11	1,872.11	10.41	31.70	74.00	-4,823.42	4,890.64	6,717.24	6,675.44	41.79	160.724		
2,100.00	2,001.97	1,955.97	1,955.97	11.45	33.16	74.72	-4,823.42	4,890.64	6,699.99	6,655.74	44.26	151.395		
2,200.00	2,083.88	2,037.88	2,037.88	12.56	34.59	75.46	-4,823.42	4,890.64	6,682.26	6,635.51	46.76	142.920		
2,300.00	2,163.74	2,117.74	2,117.74	13.74	35.98	76.23	-4,823.42	4,890.64	6,664.14	6,614.85	49.29	135.191		
2,400.00	2,241.45	2,204.55	2,195.45	14.99	37.50	77.01	-4,823.42	4,890.64	6,645.72	6,593.69	52.03	127.726		
2,421.22	2,257.65	2,211.65	2,211.65	15.26	37.62	77.18	-4,823.42	4,890.64	6,641.79	6,589.36	52.42	126.695		
2,500.00	2,317.63	2,271.63	2,271.63	16.29	38.67	77.51	-4,823.42	4,890.64	6,627.33	6,572.85	54.48	121.643		
2,600.00	2,393.75	2,347.75	2,347.75	17.62	40.00	77.93	-4,823.42	4,890.64	6,609.51	6,552.40	57.11	115.725		
2,700.00	2,469.88	2,423.88	2,423.88	18.95	41.33	78.36	-4,823.42	4,890.64	6,592.28	6,532.51	59.76	110.306		
2,800.00	2,546.01	2,500.01	2,500.01	20.30	42.66	78.79	-4,823.42	4,890.64	6,575.64	6,513.21	62.43	105.331		
2,900.00	2,622.13	2,576.13	2,576.13	21.65	43.98	79.22	-4,823.42	4,890.64	6,559.60	6,494.49	65.11	100.752		
3,000.00	2,698.26	2,652.26	2,652.26	23.01	45.31	79.64	-4,823.42	4,890.64	6,544.16	6,476.36	67.79	96.529		
3,100.00	2,774.38	2,728.38	2,728.38	24.37	46.64	80.08	-4,823.42	4,890.64	6,529.33	6,458.83	70.49	92.623		
3,200.00	2,850.51	2,804.51	2,804.51	25.74	47.97	80.51	-4,823.42	4,890.64	6,515.11	6,441.91	73.20	89.003		
3,300.00	2,926.64	2,880.64	2,880.64	27.11	49.30	80.94	-4,823.42	4,890.64	6,501.51	6,425.59	75.92	85.641		
3,400.00	3,002.76	2,956.76	2,956.76	28.49	50.63	81.37	-4,823.42	4,890.64	6,488.52	6,409.89	78.64	82.512		
3,500.00	3,078.89	3,032.89	3,032.89	29.87	51.96	81.81	-4,823.42	4,890.64	6,476.16	6,394.80	81.36	79.594		
3,600.00	3,155.02	3,109.02	3,109.02	31.25	53.29	82.25	-4,823.42	4,890.64	6,464.43	6,380.33	84.10	76.869		
3,700.00	3,231.14	3,185.14	3,185.14	32.63	54.61	82.68	-4,823.42	4,890.64	6,453.33	6,366.49	86.83	74.318		
3,800.00	3,307.27	3,261.27	3,261.27	34.01	55.94	83.12	-4,823.42	4,890.64	6,442.86	6,353.28	89.57	71.927		
3,900.00	3,383.39	3,337.39	3,337.39	35.40	57.27	83.56	-4,823.42	4,890.64	6,433.03	6,340.71	92.32	69.683		
4,000.00	3,459.52	3,413.52	3,413.52	36.79	58.60	84.00	-4,823.42	4,890.64	6,423.83	6,328.77	95.07	67.573		
4,100.00	3,535.65	3,489.65	3,489.65	38.18	59.93	84.44	-4,823.42	4,890.64	6,415.28	6,317.47	97.81	65.587		
4,200.00	3,611.77	3,565.77	3,565.77	39.57	61.26	84.88	-4,823.42	4,890.64	6,407.38	6,306.81	100.56	63.715		
4,300.00	3,687.90	3,641.90	3,641.90	40.96	62.59	85.32	-4,823.42	4,890.64	6,400.12	6,296.80	103.31	61.948		
4,400.00	3,764.02	3,718.02	3,718.02	42.35	63.91	85.76	-4,823.42	4,890.64	6,393.51	6,287.44	106.07	60.278		
4,500.00	3,840.15	3,805.85	3,794.15	43.74	65.45	86.20	-4,823.42	4,890.64	6,387.55	6,278.53	109.02	58.590		
4,600.00	3,916.28	3,870.28	3,870.28	45.13	66.57	86.65	-4,823.42	4,890.64	6,382.25	6,270.68	111.57	57.205		
4,700.00	3,992.40	3,946.40	3,946.40	46.53	67.90	87.09	-4,823.42	4,890.64	6,377.60	6,263.28	114.32	55.788		
4,800.00	4,068.53	4,022.53	4,022.53	47.92	69.23	87.53	-4,823.42	4,890.64	6,373.60	6,256.54	117.07	54.444		
4,900.00	4,144.66	4,101.34	4,098.66	49.32	70.60	87.98	-4,823.42	4,890.64	6,370.27	6,250.41	119.86	53.147		
5,000.00	4,220.78	4,174.78	4,174.78	50.71	71.89	88.42	-4,823.42	4,890.64	6,367.59	6,245.03	122.56	51.956		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,250.91	4,250.91	52.11	73.21	88.86	-4,823.42	4,890.64	6,365.57	6,240.28	125.30	50.803		
5,200.00	4,373.03	4,327.03	4,327.03	53.51	74.54	89.31	-4,823.42	4,890.64	6,364.22	6,236.18	128.04	49.706		
5,300.00	4,449.16	4,403.16	4,403.16	54.90	75.87	89.75	-4,823.42	4,890.64	6,363.52	6,232.75	130.77	48.662		
5,355.47	4,491.38	4,445.38	4,445.38	55.68	76.61	90.00	-4,823.42	4,890.64	6,363.42	6,231.13	132.29	48.104		
5,400.00	4,525.29	4,479.29	4,479.29	56.30	77.20	90.20	-4,823.42	4,890.64	6,363.48	6,229.98	133.50	47.666		
5,500.00	4,601.41	4,555.41	4,555.41	57.70	78.53	90.64	-4,823.42	4,890.64	6,364.11	6,227.88	136.23	46.717		
5,600.00	4,677.54	4,631.54	4,631.54	59.10	79.86	91.09	-4,823.42	4,890.64	6,365.39	6,226.45	138.95	45.812		
5,700.00	4,753.66	4,707.66	4,707.66	60.49	81.19	91.53	-4,823.42	4,890.64	6,367.34	6,225.68	141.66	44.948		
5,800.00	4,829.79	4,783.79	4,783.79	61.89	82.52	91.98	-4,823.42	4,890.64	6,369.94	6,225.57	144.37	44.122		
5,900.00	4,905.92	4,859.92	4,859.92	63.29	83.84	92.42	-4,823.42	4,890.64	6,373.21	6,226.13	147.07	43.333		
6,000.00	4,982.04	4,936.04	4,936.04	64.69	85.17	92.86	-4,823.42	4,890.64	6,377.13	6,227.36	149.77	42.580		
6,100.00	5,058.17	5,012.17	5,012.17	66.09	86.50	93.31	-4,823.42	4,890.64	6,381.71	6,229.25	152.46	41.858		
6,200.00	5,134.30	5,088.30	5,088.30	67.49	87.83	93.75	-4,823.42	4,890.64	6,386.94	6,231.80	155.14	41.169		
6,300.00	5,210.42	5,164.42	5,164.42	68.89	89.16	94.19	-4,823.42	4,890.64	6,392.83	6,235.01	157.82	40.508		
6,400.00	5,286.55	5,240.55	5,240.55	70.29	90.49	94.63	-4,823.42	4,890.64	6,399.36	6,238.88	160.48	39.876		
6,500.00	5,362.67	5,316.67	5,316.67	71.69	91.82	95.07	-4,823.42	4,890.64	6,406.55	6,243.41	163.14	39.270		
6,600.00	5,438.80	5,407.20	5,392.80	73.09	93.40	95.51	-4,823.42	4,890.64	6,414.39	6,248.35	166.04	38.631		
6,700.00	5,514.93	5,468.93	5,468.93	74.49	94.47	95.95	-4,823.42	4,890.64	6,422.87	6,254.44	168.43	38.134		
6,800.00	5,591.05	5,545.05	5,545.05	75.89	95.80	96.39	-4,823.42	4,890.64	6,431.99	6,260.93	171.06	37.600		
6,900.00	5,667.18	5,621.18	5,621.18	77.29	97.13	96.83	-4,823.42	4,890.64	6,441.75	6,268.07	173.68	37.089		
7,000.00	5,743.30	5,702.70	5,697.30	78.69	98.55	97.27	-4,823.42	4,890.64	6,452.15	6,275.76	176.39	36.579		
7,100.00	5,819.43	5,773.43	5,773.43	80.09	99.79	97.71	-4,823.42	4,890.64	6,463.19	6,284.29	178.90	36.128		
7,200.00	5,895.56	5,849.56	5,849.56	81.49	101.12	98.14	-4,823.42	4,890.64	6,474.85	6,293.36	181.49	35.676		
7,300.00	5,971.68	5,925.68	5,925.68	82.90	102.45	98.58	-4,823.42	4,890.64	6,487.14	6,303.07	184.07	35.243		
7,400.00	6,047.81	6,001.81	6,001.81	84.30	103.77	99.01	-4,823.42	4,890.64	6,500.06	6,313.42	186.64	34.827		
7,500.00	6,123.94	6,077.94	6,077.94	85.70	105.10	99.45	-4,823.42	4,890.64	6,513.59	6,324.39	189.20	34.427		
7,600.00	6,200.06	6,154.06	6,154.06	87.10	106.43	99.88	-4,823.42	4,890.64	6,527.74	6,336.00	191.75	34.043		
7,700.00	6,276.19	6,230.19	6,230.19	88.50	107.76	100.31	-4,823.42	4,890.64	6,542.51	6,348.22	194.28	33.675		
7,800.00	6,352.31	6,306.31	6,306.31	89.90	109.09	100.74	-4,823.42	4,890.64	6,557.88	6,361.07	196.81	33.321		
7,900.00	6,428.44	6,382.44	6,382.44	91.31	110.42	101.17	-4,823.42	4,890.64	6,573.85	6,374.53	199.32	32.981		
8,000.00	6,504.57	6,458.57	6,458.57	92.71	111.75	101.59	-4,823.42	4,890.64	6,590.43	6,388.60	201.83	32.654		
8,100.00	6,580.69	6,534.69	6,534.69	94.11	113.07	102.02	-4,823.42	4,890.64	6,607.60	6,403.28	204.32	32.340		
8,200.00	6,656.82	6,610.82	6,610.82	95.51	114.40	102.44	-4,823.42	4,890.64	6,625.36	6,418.56	206.79	32.038		
8,300.00	6,732.95	6,686.95	6,686.95	96.91	115.73	102.87	-4,823.42	4,890.64	6,643.70	6,434.44	209.26	31.749		
8,400.00	6,809.07	6,763.07	6,763.07	98.32	117.06	103.29	-4,823.42	4,890.64	6,662.63	6,450.91	211.71	31.470		
8,500.00	6,885.20	6,839.20	6,839.20	99.72	118.39	103.71	-4,823.42	4,890.64	6,682.13	6,467.97	214.15	31.202		
8,600.00	6,961.32	6,915.32	6,915.32	101.12	119.72	104.13	-4,823.42	4,890.64	6,702.20	6,485.62	216.58	30.945		
8,700.00	7,037.45	7,008.55	6,991.45	102.52	121.34	104.54	-4,823.42	4,890.64	6,722.84	6,503.54	219.30	30.656		
8,732.15	7,061.92	7,015.92	7,015.92	102.97	121.47	104.68	-4,823.42	4,890.64	6,729.59	6,509.82	219.77	30.620		
8,750.00	7,075.57	7,029.57	7,029.57	103.22	121.71	102.75	-4,823.42	4,890.64	6,733.10	6,512.89	220.21	30.576		
8,800.00	7,114.27	7,068.27	7,068.27	103.91	122.39	97.06	-4,823.42	4,890.64	6,740.09	6,518.66	221.42	30.440		
8,850.00	7,153.47	7,107.47	7,107.47	104.58	123.07	91.02	-4,823.42	4,890.64	6,742.89	6,520.24	222.65	30.284		
8,900.00	7,192.85	7,146.85	7,146.85	105.21	123.76	84.83	-4,823.42	4,890.64	6,741.48	6,517.60	223.88	30.112		
8,950.00	7,232.12	7,186.12	7,186.12	105.80	124.44	78.69	-4,823.42	4,890.64	6,735.87	6,510.77	225.10	29.924		
9,000.00	7,270.99	7,224.99	7,224.99	106.35	125.12	72.81	-4,823.42	4,890.64	6,726.08	6,499.80	226.28	29.724		
9,050.00	7,309.16	7,263.16	7,263.16	106.85	125.79	67.32	-4,823.42	4,890.64	6,712.19	6,484.76	227.43	29.513		
9,100.00	7,346.32	7,300.32	7,300.32	107.30	126.44	62.33	-4,823.42	4,890.64	6,694.30	6,465.76	228.54	29.292		
9,150.00	7,382.22	7,336.22	7,336.22	107.69	127.06	57.88	-4,823.42	4,890.64	6,672.52	6,442.93	229.59	29.063		
9,200.00	7,416.56	7,370.56	7,370.56	108.02	127.66	53.97	-4,823.42	4,890.64	6,647.00	6,416.43	230.57	28.828		
9,250.00	7,449.09	7,403.09	7,403.09	108.29	128.23	50.58	-4,823.42	4,890.64	6,617.94	6,386.44	231.49	28.588		
9,300.00	7,479.56	7,433.56	7,433.56	108.51	128.76	47.66	-4,823.42	4,890.64	6,585.52	6,353.18	232.34	28.345		
9,350.00	7,507.74	7,461.74	7,461.74	108.68	129.25	45.16	-4,823.42	4,890.64	6,549.98	6,316.88	233.10	28.099		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	7,487.41	7,487.41	108.79	129.70	43.03	-4,823.42	4,890.64	6,511.57	6,277.79	233.78	27.853		
9,450.00	7,556.39	7,510.39	7,510.39	108.86	130.10	41.22	-4,823.42	4,890.64	6,470.57	6,236.19	234.38	27.607		
9,500.00	7,576.48	7,530.48	7,530.48	108.88	130.45	39.67	-4,823.42	4,890.64	6,427.27	6,192.38	234.89	27.363		
9,550.00	7,593.55	7,547.55	7,547.55	108.86	130.75	38.33	-4,823.42	4,890.64	6,381.99	6,146.68	235.31	27.122		
9,600.00	7,607.46	7,561.46	7,561.46	108.80	131.00	37.09	-4,823.42	4,890.64	6,335.05	6,099.41	235.65	26.884		
9,650.00	7,618.11	7,572.11	7,572.11	108.71	131.18	35.76	-4,823.42	4,890.64	6,286.81	6,050.91	235.90	26.651		
9,700.00	7,625.41	7,579.41	7,579.41	108.59	131.31	33.68	-4,823.42	4,890.64	6,237.61	6,001.55	236.06	26.424		
9,750.00	7,629.30	7,583.30	7,583.30	108.45	131.38	25.53	-4,823.42	4,890.64	6,187.84	5,951.69	236.15	26.203		
9,781.81	7,630.00	7,584.00	7,584.00	108.35	131.39	-90.00	-4,823.42	4,890.64	6,156.05	5,919.89	236.16	26.067		
9,800.00	7,630.00	7,584.00	7,584.00	108.29	131.39	-90.00	-4,823.42	4,890.64	6,137.85	5,901.70	236.16	25.991		
9,900.00	7,630.00	7,584.00	7,584.00	107.97	131.39	-90.00	-4,823.42	4,890.64	6,037.86	5,801.72	236.14	25.569		
10,000.00	7,630.00	7,584.00	7,584.00	107.67	131.39	-90.00	-4,823.42	4,890.64	5,937.87	5,701.74	236.13	25.147		
10,100.00	7,630.00	7,584.00	7,584.00	107.38	131.39	-90.00	-4,823.42	4,890.64	5,837.88	5,601.76	236.12	24.724		
10,200.00	7,630.00	7,584.00	7,584.00	107.10	131.39	-90.00	-4,823.42	4,890.64	5,737.89	5,501.79	236.10	24.302		
10,300.00	7,630.00	7,584.00	7,584.00	106.84	131.39	-90.00	-4,823.42	4,890.64	5,637.90	5,401.81	236.09	23.880		
10,400.00	7,630.00	7,584.00	7,584.00	106.59	131.39	-90.00	-4,823.42	4,890.64	5,537.91	5,301.83	236.08	23.458		
10,500.00	7,630.00	7,584.00	7,584.00	106.35	131.39	-90.00	-4,823.42	4,890.64	5,437.92	5,201.86	236.06	23.036		
10,600.00	7,630.00	7,584.00	7,584.00	106.13	131.39	-90.00	-4,823.42	4,890.64	5,337.93	5,101.88	236.05	22.614		
10,700.00	7,630.00	7,584.00	7,584.00	105.92	131.39	-90.00	-4,823.42	4,890.64	5,237.95	5,001.91	236.04	22.191		
10,800.00	7,630.00	7,584.00	7,584.00	105.72	131.39	-90.00	-4,823.42	4,890.64	5,137.96	4,901.94	236.02	21.769		
10,900.00	7,630.00	7,584.00	7,584.00	105.54	131.39	-90.00	-4,823.42	4,890.64	5,037.97	4,801.96	236.01	21.347		
11,000.00	7,630.00	7,584.00	7,584.00	105.37	131.39	-90.00	-4,823.42	4,890.64	4,937.99	4,701.99	235.99	20.924		
11,100.00	7,630.00	7,584.00	7,584.00	105.21	131.39	-90.00	-4,823.42	4,890.64	4,838.00	4,602.02	235.98	20.502		
11,200.00	7,630.00	7,584.00	7,584.00	105.06	131.39	-90.00	-4,823.42	4,890.64	4,738.01	4,502.05	235.96	20.080		
11,300.00	7,630.00	7,584.00	7,584.00	104.93	131.39	-90.00	-4,823.42	4,890.64	4,638.03	4,402.08	235.94	19.657		
11,400.00	7,630.00	7,584.00	7,584.00	104.82	131.39	-90.00	-4,823.42	4,890.64	4,538.04	4,302.12	235.93	19.235		
11,500.00	7,630.00	7,584.00	7,584.00	104.72	131.39	-90.00	-4,823.42	4,890.64	4,438.06	4,202.15	235.91	18.812		
11,600.00	7,630.00	7,584.00	7,584.00	104.63	131.39	-90.00	-4,823.42	4,890.64	4,338.08	4,102.19	235.89	18.390		
11,700.00	7,630.00	7,584.00	7,584.00	104.55	131.39	-90.00	-4,823.42	4,890.64	4,238.10	4,002.22	235.87	17.968		
11,800.00	7,630.00	7,584.00	7,584.00	104.50	131.39	-90.00	-4,823.42	4,890.64	4,138.12	3,902.26	235.86	17.545		
11,900.00	7,630.00	7,584.00	7,584.00	104.45	131.39	-90.00	-4,823.42	4,890.64	4,038.14	3,802.30	235.84	17.123		
12,000.00	7,630.00	7,584.00	7,584.00	104.43	131.39	-90.00	-4,823.42	4,890.64	3,938.16	3,702.34	235.81	16.700		
12,100.00	7,630.00	7,584.00	7,584.00	104.42	131.39	-90.00	-4,823.42	4,890.64	3,838.18	3,602.39	235.79	16.278		
12,200.00	7,630.00	7,584.00	7,584.00	104.42	131.39	-90.00	-4,823.42	4,890.64	3,738.20	3,502.43	235.77	15.855		
12,300.00	7,630.00	7,584.00	7,584.00	104.45	131.39	-90.00	-4,823.42	4,890.64	3,638.23	3,402.48	235.75	15.433		
12,400.00	7,630.00	7,584.00	7,584.00	104.49	131.39	-90.00	-4,823.42	4,890.64	3,538.25	3,302.53	235.72	15.010		
12,500.00	7,630.00	7,584.00	7,584.00	104.55	131.39	-90.00	-4,823.42	4,890.64	3,438.28	3,202.59	235.69	14.588		
12,600.00	7,630.00	7,584.00	7,584.00	104.63	131.39	-90.00	-4,823.42	4,890.64	3,338.31	3,102.64	235.67	14.165		
12,700.00	7,630.00	7,584.00	7,584.00	104.73	131.39	-90.00	-4,823.42	4,890.64	3,238.34	3,002.71	235.64	13.743		
12,800.00	7,630.00	7,584.00	7,584.00	104.85	131.39	-90.00	-4,823.42	4,890.64	3,138.37	2,902.77	235.60	13.321		
12,900.00	7,630.00	7,584.00	7,584.00	104.99	131.39	-90.00	-4,823.42	4,890.64	3,038.41	2,802.84	235.57	12.898		
13,000.00	7,630.00	7,584.00	7,584.00	105.15	131.39	-90.00	-4,823.42	4,890.64	2,938.45	2,702.91	235.53	12.476		
13,100.00	7,630.00	7,584.00	7,584.00	105.34	131.39	-90.00	-4,823.42	4,890.64	2,838.49	2,602.99	235.49	12.053		
13,200.00	7,630.00	7,584.00	7,584.00	105.56	131.39	-90.00	-4,823.42	4,890.64	2,738.53	2,503.08	235.45	11.631		
13,300.00	7,630.00	7,584.00	7,584.00	105.80	131.39	-90.00	-4,823.42	4,890.64	2,638.58	2,403.17	235.41	11.209		
13,400.00	7,630.00	7,584.00	7,584.00	106.06	131.39	-90.00	-4,823.42	4,890.64	2,538.63	2,303.27	235.36	10.786		
13,500.00	7,630.00	7,584.00	7,584.00	106.36	131.39	-90.00	-4,823.42	4,890.64	2,438.68	2,203.38	235.30	10.364		
13,600.00	7,630.00	7,584.00	7,584.00	106.68	131.39	-90.00	-4,823.42	4,890.64	2,338.74	2,103.49	235.25	9.942		
13,700.00	7,630.00	7,584.00	7,584.00	107.03	131.39	-90.00	-4,823.42	4,890.64	2,238.80	2,003.62	235.18	9.519		
13,800.00	7,630.00	7,584.00	7,584.00	107.42	131.39	-90.00	-4,823.42	4,890.64	2,138.87	1,903.76	235.11	9.097		
13,900.00	7,630.00	7,584.00	7,584.00	107.83	131.39	-90.00	-4,823.42	4,890.64	2,038.95	1,803.92	235.04	8.675		
14,000.00	7,630.00	7,584.00	7,584.00	108.28	131.39	-90.00	-4,823.42	4,890.64	1,939.04	1,704.09	234.95	8.253		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,584.00	7,584.00	108.77	131.39	-90.00	-4,823.42	4,890.64	1,839.13	1,604.28	234.85	7.831		
14,200.00	7,630.00	7,584.00	7,584.00	109.29	131.39	-90.00	-4,823.42	4,890.64	1,739.23	1,504.49	234.75	7.409		
14,300.00	7,630.00	7,584.00	7,584.00	109.84	131.39	-90.00	-4,823.42	4,890.64	1,639.35	1,404.73	234.62	6.987		
14,400.00	7,630.00	7,584.00	7,584.00	110.43	131.39	-90.00	-4,823.42	4,890.64	1,539.49	1,305.00	234.49	6.565		
14,500.00	7,630.00	7,584.00	7,584.00	111.06	131.39	-90.00	-4,823.42	4,890.64	1,439.64	1,205.31	234.33	6.144		
14,600.00	7,630.00	7,584.00	7,584.00	111.72	131.39	-90.00	-4,823.42	4,890.64	1,339.81	1,105.67	234.14	5.722		
14,700.00	7,630.00	7,584.00	7,584.00	112.42	131.39	-90.00	-4,823.42	4,890.64	1,240.01	1,006.08	233.93	5.301		
14,800.00	7,630.00	7,584.00	7,584.00	113.16	131.39	-90.00	-4,823.42	4,890.64	1,140.25	906.57	233.68	4.880		
14,900.00	7,630.00	7,584.00	7,584.00	113.94	131.39	-90.00	-4,823.42	4,890.64	1,040.53	807.16	233.37	4.459		
15,000.00	7,630.00	7,584.00	7,584.00	114.75	131.39	-90.00	-4,823.42	4,890.64	940.88	707.88	233.00	4.038		
15,100.00	7,630.00	7,584.00	7,584.00	115.60	131.39	-90.00	-4,823.42	4,890.64	841.30	608.76	232.54	3.618		
15,200.00	7,630.00	7,584.00	7,584.00	116.48	131.39	-90.00	-4,823.42	4,890.64	741.84	509.89	231.95	3.198		
15,300.00	7,630.00	7,584.00	7,584.00	117.40	131.39	-90.00	-4,823.42	4,890.64	642.55	411.37	231.17	2.779		
15,400.00	7,630.00	7,584.00	7,584.00	118.35	131.39	-90.00	-4,823.42	4,890.64	543.51	313.40	230.11	2.362		
15,500.00	7,630.00	7,584.00	7,584.00	119.34	131.39	-90.00	-4,823.42	4,890.64	444.91	216.33	228.58	1.946		
15,600.00	7,630.00	7,584.00	7,584.00	120.35	131.39	-90.00	-4,823.42	4,890.64	347.10	120.92	226.19	1.535		
15,700.00	7,630.00	7,584.00	7,584.00	121.40	131.39	-90.00	-4,823.42	4,890.64	251.04	28.93	222.10	1.130	Level 2	
15,800.00	7,630.00	7,584.00	7,584.00	122.48	131.39	-90.00	-4,823.42	4,890.64	159.87	-54.80	214.67	0.745	Level 1	
15,900.00	7,630.00	7,584.00	7,584.00	123.58	131.39	-90.00	-4,823.42	4,890.64	89.99	-126.70	216.69	0.415	Level 1	
15,937.31	7,630.00	7,584.00	7,584.00	124.00	131.39	-90.00	-4,823.42	4,890.64	81.89	-153.05	234.94	0.349	Level 1, CC, ES, SF	
16,000.00	7,630.00	7,584.00	7,584.00	124.71	131.39	-90.00	-4,823.42	4,890.64	103.13	-152.31	255.44	0.404	Level 1	
16,100.00	7,630.00	7,584.00	7,584.00	125.87	131.39	-90.00	-4,823.42	4,890.64	182.14	-70.99	253.13	0.720	Level 1	
16,200.00	7,630.00	7,584.00	7,584.00	127.05	131.39	-90.00	-4,823.42	4,890.64	275.16	26.39	248.77	1.106	Level 2	
16,300.00	7,630.00	7,584.00	7,584.00	128.26	131.39	-90.00	-4,823.42	4,890.64	371.82	125.75	246.07	1.511		
16,400.00	7,630.00	7,584.00	7,584.00	129.48	131.39	-90.00	-4,823.42	4,890.64	469.88	225.54	244.34	1.923		
16,500.00	7,630.00	7,584.00	7,584.00	130.73	131.39	-90.00	-4,823.42	4,890.64	568.62	325.45	243.17	2.338		
16,600.00	7,630.00	7,584.00	7,584.00	132.00	131.39	-90.00	-4,823.42	4,890.64	667.73	425.41	242.32	2.756		
16,700.00	7,630.00	7,584.00	7,584.00	133.29	131.39	-90.00	-4,823.42	4,890.64	767.08	525.39	241.68	3.174		
16,800.00	7,630.00	7,584.00	7,584.00	134.59	131.39	-90.00	-4,823.42	4,890.64	866.57	625.38	241.19	3.593		
16,900.00	7,630.00	7,584.00	7,584.00	135.91	131.39	-90.00	-4,823.42	4,890.64	966.17	725.37	240.80	4.012		
17,000.00	7,630.00	7,584.00	7,584.00	137.25	131.39	-90.00	-4,823.42	4,890.64	1,065.84	825.36	240.48	4.432		
17,100.00	7,630.00	7,584.00	7,584.00	138.61	131.39	-90.00	-4,823.42	4,890.64	1,165.57	925.36	240.22	4.852		
17,200.00	7,630.00	7,584.00	7,584.00	139.97	131.39	-90.00	-4,823.42	4,890.64	1,265.35	1,025.35	240.00	5.272		
17,300.00	7,630.00	7,584.00	7,584.00	141.36	131.39	-90.00	-4,823.42	4,890.64	1,365.15	1,125.34	239.81	5.693		
17,400.00	7,630.00	7,584.00	7,584.00	142.75	131.39	-90.00	-4,823.42	4,890.64	1,464.98	1,225.33	239.65	6.113		
17,500.00	7,630.00	7,584.00	7,584.00	144.16	131.39	-90.00	-4,823.42	4,890.64	1,564.84	1,325.32	239.51	6.533		
17,600.00	7,630.00	7,584.00	7,584.00	145.58	131.39	-90.00	-4,823.42	4,890.64	1,664.71	1,425.31	239.40	6.954		
17,700.00	7,630.00	7,584.00	7,584.00	147.01	131.39	-90.00	-4,823.42	4,890.64	1,764.60	1,525.30	239.29	7.374		
17,800.00	7,630.00	7,584.00	7,584.00	148.45	131.39	-90.00	-4,823.42	4,890.64	1,864.49	1,625.29	239.20	7.795		
17,900.00	7,630.00	7,584.00	7,584.00	149.91	131.39	-90.00	-4,823.42	4,890.64	1,964.40	1,725.28	239.12	8.215		
18,000.00	7,630.00	7,584.00	7,584.00	151.37	131.39	-90.00	-4,823.42	4,890.64	2,064.32	1,825.27	239.05	8.635		
18,100.00	7,630.00	7,584.00	7,584.00	152.84	131.39	-90.00	-4,823.42	4,890.64	2,164.24	1,925.25	238.99	9.056		
18,200.00	7,630.00	7,584.00	7,584.00	154.32	131.39	-90.00	-4,823.42	4,890.64	2,264.18	2,025.24	238.94	9.476		
18,300.00	7,630.00	7,584.00	7,584.00	155.81	131.39	-90.00	-4,823.42	4,890.64	2,364.11	2,125.23	238.89	9.896		
18,400.00	7,630.00	7,584.00	7,584.00	157.31	131.39	-90.00	-4,823.42	4,890.64	2,464.06	2,225.21	238.84	10.317		
18,500.00	7,630.00	7,584.00	7,584.00	158.81	131.39	-90.00	-4,823.42	4,890.64	2,564.00	2,325.20	238.81	10.737		
18,600.00	7,630.00	7,584.00	7,584.00	160.32	131.39	-90.00	-4,823.42	4,890.64	2,663.95	2,425.18	238.77	11.157		
18,700.00	7,630.00	7,584.00	7,584.00	161.84	131.39	-90.00	-4,823.42	4,890.64	2,763.91	2,525.17	238.74	11.577		
18,800.00	7,630.00	7,584.00	7,584.00	163.37	131.39	-90.00	-4,823.42	4,890.64	2,863.87	2,625.15	238.72	11.997		
18,900.00	7,630.00	7,584.00	7,584.00	164.90	131.39	-90.00	-4,823.42	4,890.64	2,963.83	2,725.13	238.69	12.417		
19,000.00	7,630.00	7,584.00	7,584.00	166.43	131.39	-90.00	-4,823.42	4,890.64	3,063.79	2,825.12	238.67	12.837		
19,100.00	7,630.00	7,584.00	7,584.00	167.98	131.39	-90.00	-4,823.42	4,890.64	3,163.75	2,925.10	238.66	13.257		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,584.00	7,584.00	169.53	131.39	-90.00	-4,823.42	4,890.64	3,263.72	3,025.08	238.64	13.676	
19,300.00	7,630.00	7,584.00	7,584.00	171.08	131.39	-90.00	-4,823.42	4,890.64	3,363.69	3,125.06	238.63	14.096	
19,400.00	7,630.00	7,584.00	7,584.00	172.64	131.39	-90.00	-4,823.42	4,890.64	3,463.66	3,225.04	238.62	14.515	
19,500.00	7,630.00	7,584.00	7,584.00	174.21	131.39	-90.00	-4,823.42	4,890.64	3,563.64	3,325.02	238.61	14.935	
19,518.56	7,630.00	7,584.00	7,584.00	174.50	131.39	-90.00	-4,823.42	4,890.64	3,582.19	3,343.58	238.61	15.013	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	143.09	-4,087.85	3,070.17	5,112.43					
100.00	100.00	79.00	79.00	0.13	0.61	143.09	-4,087.85	3,070.17	5,112.39	5,111.64	0.75	6,834.761		
200.00	200.00	179.00	179.00	0.49	2.16	143.09	-4,087.85	3,070.17	5,112.39	5,109.74	2.65	1,930.383		
300.00	300.00	279.00	279.00	0.85	3.90	143.09	-4,087.85	3,070.17	5,112.39	5,107.64	4.75	1,075.798		
400.00	400.00	379.00	379.00	1.21	5.65	143.09	-4,087.85	3,070.17	5,112.39	5,105.53	6.86	745.683		
500.00	499.98	478.98	478.98	1.56	7.39	76.39	-4,087.85	3,070.17	5,111.98	5,103.02	8.95	570.859		
600.00	599.84	578.84	578.84	1.92	9.13	76.47	-4,087.85	3,070.17	5,110.75	5,099.70	11.05	462.416		
700.00	699.45	678.45	678.45	2.29	10.87	76.61	-4,087.85	3,070.17	5,108.71	5,095.56	13.15	388.349		
800.00	798.70	777.70	777.70	2.67	12.60	76.80	-4,087.85	3,070.17	5,105.89	5,090.62	15.27	334.469		
900.00	897.47	876.47	876.47	3.07	14.33	77.04	-4,087.85	3,070.17	5,102.31	5,084.92	17.39	293.439		
1,000.00	995.62	974.62	974.62	3.50	16.04	77.32	-4,087.85	3,070.17	5,098.00	5,078.47	19.53	261.092		
1,100.00	1,093.06	1,072.06	1,072.06	3.96	17.74	77.66	-4,087.85	3,070.17	5,093.00	5,071.32	21.68	234.887		
1,200.00	1,189.64	1,168.64	1,168.64	4.46	19.43	78.05	-4,087.85	3,070.17	5,087.38	5,063.51	23.86	213.190		
1,300.00	1,285.27	1,264.27	1,264.27	5.00	21.10	78.48	-4,087.85	3,070.17	5,081.17	5,055.10	26.07	194.906		
1,400.00	1,379.82	1,358.82	1,358.82	5.60	22.75	78.95	-4,087.85	3,070.17	5,074.45	5,046.14	28.31	179.268		
1,500.00	1,473.17	1,452.17	1,452.17	6.25	24.38	79.47	-4,087.85	3,070.17	5,067.28	5,036.70	30.58	165.730		
1,600.00	1,565.21	1,544.21	1,544.21	6.95	25.98	80.02	-4,087.85	3,070.17	5,059.74	5,026.86	32.88	153.889		
1,700.00	1,655.84	1,634.84	1,634.84	7.72	27.56	80.60	-4,087.85	3,070.17	5,051.92	5,016.70	35.22	143.440		
1,800.00	1,744.94	1,723.94	1,723.94	8.55	29.12	81.21	-4,087.85	3,070.17	5,043.89	5,006.29	37.60	134.152		
1,900.00	1,832.39	1,811.39	1,811.39	9.45	30.65	81.85	-4,087.85	3,070.17	5,035.76	4,995.74	40.02	125.844		
2,000.00	1,918.11	1,902.89	1,897.11	10.41	32.24	82.52	-4,087.85	3,070.17	5,027.62	4,985.04	42.57	118.089		
2,100.00	2,001.97	1,980.97	1,980.97	11.45	33.61	83.19	-4,087.85	3,070.17	5,019.57	4,974.60	44.97	111.617		
2,200.00	2,083.88	2,062.88	2,062.88	12.56	35.04	83.89	-4,087.85	3,070.17	5,011.72	4,964.21	47.51	105.490		
2,300.00	2,163.74	2,142.74	2,142.74	13.74	36.43	84.58	-4,087.85	3,070.17	5,004.17	4,954.09	50.09	99.913		
2,400.00	2,241.45	2,220.45	2,220.45	14.99	37.79	85.29	-4,087.85	3,070.17	4,997.05	4,944.35	52.70	94.821		
2,421.22	2,257.65	2,236.65	2,236.65	15.26	38.07	85.44	-4,087.85	3,070.17	4,995.60	4,942.34	53.26	93.799		
2,500.00	2,317.63	2,303.37	2,296.63	16.29	39.23	85.88	-4,087.85	3,070.17	4,990.53	4,935.07	55.46	89.982		
2,600.00	2,393.75	2,372.75	2,372.75	17.62	40.44	86.45	-4,087.85	3,070.17	4,984.84	4,926.84	58.01	85.936		
2,700.00	2,469.88	2,448.88	2,448.88	18.95	41.77	87.02	-4,087.85	3,070.17	4,979.99	4,919.31	60.68	82.068		
2,800.00	2,546.01	2,525.01	2,525.01	20.30	43.10	87.58	-4,087.85	3,070.17	4,975.98	4,912.62	63.37	78.528		
2,900.00	2,622.13	2,601.13	2,601.13	21.65	44.43	88.15	-4,087.85	3,070.17	4,972.81	4,906.76	66.06	75.280		
3,000.00	2,698.26	2,677.26	2,677.26	23.01	45.76	88.72	-4,087.85	3,070.17	4,970.49	4,901.74	68.75	72.294		
3,100.00	2,774.38	2,753.38	2,753.38	24.37	47.09	89.29	-4,087.85	3,070.17	4,969.01	4,897.56	71.45	69.541		
3,200.00	2,850.51	2,829.51	2,829.51	25.74	48.42	89.86	-4,087.85	3,070.17	4,968.38	4,894.22	74.16	66.999		
3,224.76	2,869.36	2,848.36	2,848.36	26.08	48.74	90.00	-4,087.85	3,070.17	4,968.35	4,893.53	74.83	66.399		
3,300.00	2,926.64	2,905.64	2,905.64	27.11	49.74	90.43	-4,087.85	3,070.17	4,968.59	4,891.73	76.86	64.646		
3,400.00	3,002.76	2,981.76	2,981.76	28.49	51.07	91.00	-4,087.85	3,070.17	4,969.65	4,890.09	79.56	62.463		
3,500.00	3,078.89	3,057.89	3,057.89	29.87	52.40	91.57	-4,087.85	3,070.17	4,971.56	4,889.30	82.26	60.436		
3,600.00	3,155.02	3,134.02	3,134.02	31.25	53.73	92.14	-4,087.85	3,070.17	4,974.31	4,889.35	84.96	58.550		
3,700.00	3,231.14	3,210.14	3,210.14	32.63	55.06	92.70	-4,087.85	3,070.17	4,977.90	4,890.25	87.65	56.791		
3,800.00	3,307.27	3,286.27	3,286.27	34.01	56.39	93.27	-4,087.85	3,070.17	4,982.34	4,891.99	90.34	55.149		
3,900.00	3,383.39	3,362.39	3,362.39	35.40	57.72	93.84	-4,087.85	3,070.17	4,987.61	4,894.58	93.03	53.615		
4,000.00	3,459.52	3,438.52	3,438.52	36.79	59.04	94.40	-4,087.85	3,070.17	4,993.72	4,898.01	95.71	52.178		
4,100.00	3,535.65	3,514.65	3,514.65	38.18	60.37	94.97	-4,087.85	3,070.17	5,000.66	4,902.29	98.38	50.832		
4,200.00	3,611.77	3,609.23	3,590.77	39.57	62.02	95.53	-4,087.85	3,070.17	5,008.44	4,907.07	101.36	49.411		
4,300.00	3,687.90	3,666.90	3,666.90	40.96	63.03	96.10	-4,087.85	3,070.17	5,017.04	4,913.34	103.70	48.382		
4,400.00	3,764.02	3,743.02	3,743.02	42.35	64.36	96.66	-4,087.85	3,070.17	5,026.46	4,920.12	106.34	47.266		
4,500.00	3,840.15	3,819.15	3,819.15	43.74	65.69	97.22	-4,087.85	3,070.17	5,036.70	4,927.72	108.98	46.216		
4,600.00	3,916.28	3,904.72	3,895.28	45.13	67.18	97.78	-4,087.85	3,070.17	5,047.75	4,935.97	111.77	45.160		
4,700.00	3,992.40	3,971.40	3,971.40	46.53	68.35	98.34	-4,087.85	3,070.17	5,059.61	4,945.38	114.23	44.294		
4,800.00	4,068.53	4,047.53	4,047.53	47.92	69.67	98.90	-4,087.85	3,070.17	5,072.27	4,955.43	116.83	43.414		
4,900.00	4,144.66	4,123.66	4,123.66	49.32	71.00	99.45	-4,087.85	3,070.17	5,085.72	4,966.29	119.43	42.583		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,200.22	4,199.78	50.71	72.34	100.00	-4,087.85	3,070.17	5,099.97	4,977.94	122.02	41.795		
5,100.00	4,296.91	4,275.91	4,275.91	52.11	73.66	100.55	-4,087.85	3,070.17	5,114.99	4,990.41	124.59	41.056		
5,200.00	4,373.03	4,352.03	4,352.03	53.51	74.99	101.10	-4,087.85	3,070.17	5,130.80	5,003.65	127.15	40.353		
5,300.00	4,449.16	4,428.16	4,428.16	54.90	76.32	101.65	-4,087.85	3,070.17	5,147.37	5,017.67	129.69	39.689		
5,400.00	4,525.29	4,504.29	4,504.29	56.30	77.65	102.20	-4,087.85	3,070.17	5,164.70	5,032.47	132.23	39.059		
5,500.00	4,601.41	4,580.41	4,580.41	57.70	78.97	102.74	-4,087.85	3,070.17	5,182.78	5,048.03	134.75	38.463		
5,600.00	4,677.54	4,656.54	4,656.54	59.10	80.30	103.28	-4,087.85	3,070.17	5,201.61	5,064.36	137.25	37.898		
5,700.00	4,753.66	4,732.66	4,732.66	60.49	81.63	103.82	-4,087.85	3,070.17	5,221.18	5,081.43	139.75	37.361		
5,800.00	4,829.79	4,808.79	4,808.79	61.89	82.96	104.35	-4,087.85	3,070.17	5,241.48	5,099.25	142.23	36.853		
5,900.00	4,905.92	4,884.92	4,884.92	63.29	84.29	104.89	-4,087.85	3,070.17	5,262.50	5,117.80	144.69	36.370		
6,000.00	4,982.04	4,961.04	4,961.04	64.69	85.62	105.42	-4,087.85	3,070.17	5,284.23	5,137.08	147.14	35.912		
6,100.00	5,058.17	5,037.17	5,037.17	66.09	86.95	105.94	-4,087.85	3,070.17	5,306.66	5,157.08	149.58	35.477		
6,200.00	5,134.30	5,113.30	5,113.30	67.49	88.28	106.47	-4,087.85	3,070.17	5,329.79	5,177.79	152.00	35.064		
6,300.00	5,210.42	5,189.42	5,189.42	68.89	89.60	106.99	-4,087.85	3,070.17	5,353.60	5,199.19	154.41	34.672		
6,400.00	5,286.55	5,265.55	5,265.55	70.29	90.93	107.51	-4,087.85	3,070.17	5,378.09	5,221.29	156.80	34.299		
6,500.00	5,362.67	5,341.67	5,341.67	71.69	92.26	108.03	-4,087.85	3,070.17	5,403.25	5,244.07	159.18	33.945		
6,600.00	5,438.80	5,417.80	5,417.80	73.09	93.59	108.54	-4,087.85	3,070.17	5,429.06	5,267.52	161.54	33.608		
6,700.00	5,514.93	5,506.07	5,493.93	74.49	95.13	109.05	-4,087.85	3,070.17	5,455.53	5,291.43	164.10	33.245		
6,800.00	5,591.05	5,570.05	5,570.05	75.89	96.25	109.56	-4,087.85	3,070.17	5,482.63	5,316.41	166.22	32.984		
6,900.00	5,667.18	5,646.18	5,646.18	77.29	97.58	110.06	-4,087.85	3,070.17	5,510.36	5,341.82	168.54	32.694		
7,000.00	5,743.30	5,722.30	5,722.30	78.69	98.90	110.56	-4,087.85	3,070.17	5,538.72	5,367.87	170.85	32.419		
7,100.00	5,819.43	5,801.57	5,798.43	80.09	100.29	111.06	-4,087.85	3,070.17	5,567.68	5,394.49	173.19	32.148		
7,200.00	5,895.56	5,874.56	5,874.56	81.49	101.56	111.55	-4,087.85	3,070.17	5,597.25	5,421.84	175.41	31.909		
7,300.00	5,971.68	5,950.68	5,950.68	82.90	102.89	112.04	-4,087.85	3,070.17	5,627.40	5,449.73	177.67	31.673		
7,400.00	6,047.81	6,026.81	6,026.81	84.30	104.22	112.53	-4,087.85	3,070.17	5,658.14	5,478.22	179.92	31.448		
7,500.00	6,123.94	6,102.94	6,102.94	85.70	105.55	113.01	-4,087.85	3,070.17	5,689.46	5,507.30	182.15	31.234		
7,600.00	6,200.06	6,179.06	6,179.06	87.10	106.88	113.49	-4,087.85	3,070.17	5,721.33	5,536.96	184.37	31.031		
7,700.00	6,276.19	6,255.19	6,255.19	88.50	108.20	113.97	-4,087.85	3,070.17	5,753.76	5,567.19	186.58	30.838		
7,800.00	6,352.31	6,331.31	6,331.31	89.90	109.53	114.45	-4,087.85	3,070.17	5,786.74	5,597.97	188.77	30.655		
7,900.00	6,428.44	6,407.44	6,407.44	91.31	110.86	114.92	-4,087.85	3,070.17	5,820.25	5,629.30	190.95	30.480		
8,000.00	6,504.57	6,483.57	6,483.57	92.71	112.19	115.38	-4,087.85	3,070.17	5,854.29	5,661.17	193.12	30.315		
8,100.00	6,580.69	6,559.69	6,559.69	94.11	113.52	115.84	-4,087.85	3,070.17	5,888.84	5,693.58	195.27	30.158		
8,200.00	6,656.82	6,635.82	6,635.82	95.51	114.85	116.30	-4,087.85	3,070.17	5,923.91	5,726.50	197.41	30.008		
8,300.00	6,732.95	6,711.95	6,711.95	96.91	116.18	116.76	-4,087.85	3,070.17	5,959.47	5,759.93	199.54	29.867		
8,400.00	6,809.07	6,788.07	6,788.07	98.32	117.51	117.21	-4,087.85	3,070.17	5,995.52	5,793.87	201.65	29.732		
8,500.00	6,885.20	6,864.20	6,864.20	99.72	118.83	117.66	-4,087.85	3,070.17	6,032.06	5,828.30	203.75	29.605		
8,600.00	6,961.32	6,940.32	6,940.32	101.12	120.16	118.11	-4,087.85	3,070.17	6,069.07	5,863.22	205.84	29.484		
8,700.00	7,037.45	7,016.45	7,016.45	102.52	121.49	118.55	-4,087.85	3,070.17	6,106.54	5,898.61	207.92	29.369		
8,732.15	7,061.92	7,040.92	7,040.92	102.97	121.92	118.69	-4,087.85	3,070.17	6,118.68	5,910.09	208.59	29.334		
8,750.00	7,075.57	7,054.57	7,054.57	103.22	122.16	116.62	-4,087.85	3,070.17	6,125.19	5,916.23	208.96	29.313		
8,800.00	7,114.27	7,106.73	7,093.27	103.91	123.07	110.60	-4,087.85	3,070.17	6,140.76	5,930.51	210.25	29.206		
8,850.00	7,153.47	7,132.47	7,132.47	104.58	123.52	104.35	-4,087.85	3,070.17	6,152.33	5,941.23	211.10	29.144		
8,900.00	7,192.85	7,171.85	7,171.85	105.21	124.20	98.05	-4,087.85	3,070.17	6,159.83	5,947.63	212.19	29.029		
8,950.00	7,232.12	7,211.12	7,211.12	105.80	124.89	91.90	-4,087.85	3,070.17	6,163.21	5,949.92	213.28	28.897		
9,000.00	7,270.99	7,249.99	7,249.99	106.35	125.57	86.09	-4,087.85	3,070.17	6,162.46	5,948.10	214.36	28.748		
9,050.00	7,309.16	7,288.16	7,288.16	106.85	126.23	80.78	-4,087.85	3,070.17	6,157.60	5,942.18	215.42	28.584		
9,100.00	7,346.32	7,325.32	7,325.32	107.30	126.88	76.07	-4,087.85	3,070.17	6,148.67	5,932.23	216.44	28.408		
9,150.00	7,382.22	7,361.22	7,361.22	107.69	127.51	72.01	-4,087.85	3,070.17	6,135.74	5,918.31	217.42	28.220		
9,200.00	7,416.56	7,404.44	7,395.56	108.02	128.26	68.62	-4,087.85	3,070.17	6,118.91	5,900.40	218.51	28.003		
9,250.00	7,449.09	7,428.09	7,428.09	108.29	128.68	65.89	-4,087.85	3,070.17	6,098.29	5,879.07	219.23	27.817		
9,300.00	7,479.56	7,458.56	7,458.56	108.51	129.21	63.80	-4,087.85	3,070.17	6,074.06	5,854.02	220.04	27.605		
9,350.00	7,507.74	7,486.74	7,486.74	108.68	129.70	62.34	-4,087.85	3,070.17	6,046.37	5,825.59	220.78	27.387		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	7,512.41	7,512.41	108.79	130.15	61.51	-4,087.85	3,070.17	6,015.43	5,793.98	221.44	27.165		
9,450.00	7,556.39	7,535.39	7,535.39	108.86	130.55	61.34	-4,087.85	3,070.17	5,981.45	5,759.42	222.03	26.940		
9,500.00	7,576.48	7,555.48	7,555.48	108.88	130.90	61.89	-4,087.85	3,070.17	5,944.68	5,722.14	222.54	26.712		
9,550.00	7,593.55	7,572.55	7,572.55	108.86	131.20	63.27	-4,087.85	3,070.17	5,905.38	5,682.41	222.97	26.485		
9,600.00	7,607.46	7,586.46	7,586.46	108.80	131.44	65.66	-4,087.85	3,070.17	5,863.83	5,640.50	223.33	26.257		
9,650.00	7,618.11	7,602.89	7,597.11	108.71	131.73	69.37	-4,087.85	3,070.17	5,820.32	5,596.62	223.70	26.019		
9,700.00	7,625.41	7,604.41	7,604.41	108.59	131.75	74.90	-4,087.85	3,070.17	5,775.16	5,551.37	223.79	25.806		
9,750.00	7,629.30	7,608.30	7,608.30	108.45	131.82	83.02	-4,087.85	3,070.17	5,728.67	5,504.76	223.91	25.585		
9,781.81	7,630.00	7,609.00	7,609.00	108.35	131.83	90.00	-4,087.85	3,070.17	5,698.55	5,474.61	223.94	25.446		
9,800.00	7,630.00	7,609.00	7,609.00	108.29	131.83	90.00	-4,087.85	3,070.17	5,681.23	5,457.27	223.96	25.367		
9,900.00	7,630.00	7,609.00	7,609.00	107.97	131.83	90.00	-4,087.85	3,070.17	5,586.13	5,362.10	224.03	24.935		
10,000.00	7,630.00	7,609.00	7,609.00	107.67	131.83	90.00	-4,087.85	3,070.17	5,491.20	5,267.10	224.10	24.504		
10,100.00	7,630.00	7,609.00	7,609.00	107.38	131.83	90.00	-4,087.85	3,070.17	5,396.45	5,172.28	224.17	24.073		
10,200.00	7,630.00	7,609.00	7,609.00	107.10	131.83	90.00	-4,087.85	3,070.17	5,301.89	5,077.65	224.25	23.643		
10,300.00	7,630.00	7,609.00	7,609.00	106.84	131.83	90.00	-4,087.85	3,070.17	5,207.54	4,983.22	224.33	23.214		
10,400.00	7,630.00	7,609.00	7,609.00	106.59	131.83	90.00	-4,087.85	3,070.17	5,113.41	4,889.00	224.41	22.786		
10,500.00	7,630.00	7,609.00	7,609.00	106.35	131.83	90.00	-4,087.85	3,070.17	5,019.50	4,795.00	224.50	22.359		
10,600.00	7,630.00	7,609.00	7,609.00	106.13	131.83	90.00	-4,087.85	3,070.17	4,925.83	4,701.24	224.58	21.933		
10,700.00	7,630.00	7,609.00	7,609.00	105.92	131.83	90.00	-4,087.85	3,070.17	4,832.41	4,607.74	224.67	21.509		
10,800.00	7,630.00	7,609.00	7,609.00	105.72	131.83	90.00	-4,087.85	3,070.17	4,739.26	4,514.50	224.77	21.085		
10,900.00	7,630.00	7,609.00	7,609.00	105.54	131.83	90.00	-4,087.85	3,070.17	4,646.40	4,421.54	224.87	20.663		
11,000.00	7,630.00	7,609.00	7,609.00	105.37	131.83	90.00	-4,087.85	3,070.17	4,553.84	4,328.88	224.97	20.242		
11,100.00	7,630.00	7,609.00	7,609.00	105.21	131.83	90.00	-4,087.85	3,070.17	4,461.60	4,236.53	225.07	19.823		
11,200.00	7,630.00	7,609.00	7,609.00	105.06	131.83	90.00	-4,087.85	3,070.17	4,369.71	4,144.53	225.18	19.405		
11,300.00	7,630.00	7,609.00	7,609.00	104.93	131.83	90.00	-4,087.85	3,070.17	4,278.17	4,052.88	225.29	18.990		
11,400.00	7,630.00	7,609.00	7,609.00	104.82	131.83	90.00	-4,087.85	3,070.17	4,187.02	3,961.62	225.41	18.576		
11,500.00	7,630.00	7,609.00	7,609.00	104.72	131.83	90.00	-4,087.85	3,070.17	4,096.29	3,870.77	225.52	18.163		
11,600.00	7,630.00	7,609.00	7,609.00	104.63	131.83	90.00	-4,087.85	3,070.17	4,006.00	3,780.35	225.65	17.753		
11,700.00	7,630.00	7,609.00	7,609.00	104.55	131.83	90.00	-4,087.85	3,070.17	3,916.18	3,690.40	225.77	17.346		
11,800.00	7,630.00	7,609.00	7,609.00	104.50	131.83	90.00	-4,087.85	3,070.17	3,826.86	3,600.96	225.90	16.940		
11,900.00	7,630.00	7,609.00	7,609.00	104.45	131.83	90.00	-4,087.85	3,070.17	3,738.09	3,512.05	226.04	16.538		
12,000.00	7,630.00	7,609.00	7,609.00	104.43	131.83	90.00	-4,087.85	3,070.17	3,649.89	3,423.72	226.17	16.138		
12,100.00	7,630.00	7,609.00	7,609.00	104.42	131.83	90.00	-4,087.85	3,070.17	3,562.32	3,336.01	226.32	15.740		
12,200.00	7,630.00	7,609.00	7,609.00	104.42	131.83	90.00	-4,087.85	3,070.17	3,475.42	3,248.96	226.46	15.347		
12,300.00	7,630.00	7,609.00	7,609.00	104.45	131.83	90.00	-4,087.85	3,070.17	3,389.25	3,162.64	226.61	14.956		
12,400.00	7,630.00	7,609.00	7,609.00	104.49	131.83	90.00	-4,087.85	3,070.17	3,303.85	3,077.09	226.76	14.570		
12,500.00	7,630.00	7,609.00	7,609.00	104.55	131.83	90.00	-4,087.85	3,070.17	3,219.29	2,992.38	226.91	14.187		
12,600.00	7,630.00	7,609.00	7,609.00	104.63	131.83	90.00	-4,087.85	3,070.17	3,135.64	2,908.57	227.07	13.809		
12,700.00	7,630.00	7,609.00	7,609.00	104.73	131.83	90.00	-4,087.85	3,070.17	3,052.98	2,825.75	227.23	13.436		
12,800.00	7,630.00	7,609.00	7,609.00	104.85	131.83	90.00	-4,087.85	3,070.17	2,971.38	2,743.99	227.39	13.067		
12,900.00	7,630.00	7,609.00	7,609.00	104.99	131.83	90.00	-4,087.85	3,070.17	2,890.94	2,663.39	227.55	12.705		
13,000.00	7,630.00	7,609.00	7,609.00	105.15	131.83	90.00	-4,087.85	3,070.17	2,811.75	2,584.05	227.70	12.348		
13,100.00	7,630.00	7,609.00	7,609.00	105.34	131.83	90.00	-4,087.85	3,070.17	2,733.93	2,506.07	227.86	11.998		
13,200.00	7,630.00	7,609.00	7,609.00	105.56	131.83	90.00	-4,087.85	3,070.17	2,657.59	2,429.59	228.01	11.656		
13,300.00	7,630.00	7,609.00	7,609.00	105.80	131.83	90.00	-4,087.85	3,070.17	2,582.87	2,354.72	228.15	11.321		
13,400.00	7,630.00	7,609.00	7,609.00	106.06	131.83	90.00	-4,087.85	3,070.17	2,509.91	2,281.63	228.29	10.995		
13,500.00	7,630.00	7,609.00	7,609.00	106.36	131.83	90.00	-4,087.85	3,070.17	2,438.87	2,210.46	228.41	10.678		
13,600.00	7,630.00	7,609.00	7,609.00	106.68	131.83	90.00	-4,087.85	3,070.17	2,369.92	2,141.40	228.51	10.371		
13,700.00	7,630.00	7,609.00	7,609.00	107.03	131.83	90.00	-4,087.85	3,070.17	2,303.24	2,074.64	228.60	10.075		
13,800.00	7,630.00	7,609.00	7,609.00	107.42	131.83	90.00	-4,087.85	3,070.17	2,239.05	2,010.39	228.66	9.792		
13,900.00	7,630.00	7,609.00	7,609.00	107.83	131.83	90.00	-4,087.85	3,070.17	2,177.56	1,948.87	228.70	9.522		
14,000.00	7,630.00	7,609.00	7,609.00	108.28	131.83	90.00	-4,087.85	3,070.17	2,119.01	1,890.32	228.69	9.266		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,609.00	7,609.00	108.77	131.83	90.00	-4,087.85	3,070.17	2,063.64	1,834.99	228.65	9.025		
14,200.00	7,630.00	7,609.00	7,609.00	109.29	131.83	90.00	-4,087.85	3,070.17	2,011.73	1,783.17	228.56	8.802		
14,300.00	7,630.00	7,609.00	7,609.00	109.84	131.83	90.00	-4,087.85	3,070.17	1,963.54	1,735.12	228.41	8.596		
14,400.00	7,630.00	7,609.00	7,609.00	110.43	131.83	90.00	-4,087.85	3,070.17	1,919.35	1,691.14	228.21	8.410		
14,500.00	7,630.00	7,609.00	7,609.00	111.06	131.83	90.00	-4,087.85	3,070.17	1,879.45	1,651.51	227.94	8.245		
14,600.00	7,630.00	7,609.00	7,609.00	111.72	131.83	90.00	-4,087.85	3,070.17	1,844.11	1,616.51	227.60	8.103		
14,700.00	7,630.00	7,609.00	7,609.00	112.42	131.83	90.00	-4,087.85	3,070.17	1,813.61	1,586.43	227.18	7.983		
14,800.00	7,630.00	7,609.00	7,609.00	113.16	131.83	90.00	-4,087.85	3,070.17	1,788.18	1,561.49	226.69	7.888		
14,900.00	7,630.00	7,609.00	7,609.00	113.94	131.83	90.00	-4,087.85	3,070.17	1,768.05	1,541.92	226.13	7.819		
15,000.00	7,630.00	7,609.00	7,609.00	114.75	131.83	90.00	-4,087.85	3,070.17	1,753.41	1,527.90	225.51	7.775		
15,100.00	7,630.00	7,609.00	7,609.00	115.60	131.83	90.00	-4,087.85	3,070.17	1,744.38	1,519.56	224.82	7.759 SF		
15,200.00	7,630.00	7,609.00	7,609.00	116.48	131.83	90.00	-4,087.85	3,070.17	1,741.06	1,516.97	224.09	7.769 ES		
15,207.88	7,630.00	7,609.00	7,609.00	116.55	131.83	90.00	-4,087.85	3,070.17	1,741.04	1,517.01	224.03	7.771 CC		
15,300.00	7,630.00	7,609.00	7,609.00	117.40	131.83	90.00	-4,087.85	3,070.17	1,743.48	1,520.15	223.32	7.807		
15,400.00	7,630.00	7,609.00	7,609.00	118.35	131.83	90.00	-4,087.85	3,070.17	1,751.61	1,529.07	222.54	7.871		
15,500.00	7,630.00	7,609.00	7,609.00	119.34	131.83	90.00	-4,087.85	3,070.17	1,765.38	1,543.63	221.75	7.961		
15,600.00	7,630.00	7,609.00	7,609.00	120.35	131.83	90.00	-4,087.85	3,070.17	1,784.65	1,563.68	220.97	8.076		
15,700.00	7,630.00	7,609.00	7,609.00	121.40	131.83	90.00	-4,087.85	3,070.17	1,809.26	1,589.04	220.22	8.216		
15,800.00	7,630.00	7,609.00	7,609.00	122.48	131.83	90.00	-4,087.85	3,070.17	1,838.98	1,619.47	219.50	8.378		
15,900.00	7,630.00	7,609.00	7,609.00	123.58	131.83	90.00	-4,087.85	3,070.17	1,873.57	1,654.74	218.83	8.562		
16,000.00	7,630.00	7,609.00	7,609.00	124.71	131.83	90.00	-4,087.85	3,070.17	1,912.77	1,694.55	218.22	8.765		
16,100.00	7,630.00	7,609.00	7,609.00	125.87	131.83	90.00	-4,087.85	3,070.17	1,956.30	1,738.64	217.66	8.988		
16,200.00	7,630.00	7,609.00	7,609.00	127.05	131.83	90.00	-4,087.85	3,070.17	2,003.88	1,786.72	217.16	9.228		
16,300.00	7,630.00	7,609.00	7,609.00	128.26	131.83	90.00	-4,087.85	3,070.17	2,055.23	1,838.51	216.72	9.483		
16,400.00	7,630.00	7,609.00	7,609.00	129.48	131.83	90.00	-4,087.85	3,070.17	2,110.07	1,893.73	216.34	9.754		
16,500.00	7,630.00	7,609.00	7,609.00	130.73	131.83	90.00	-4,087.85	3,070.17	2,168.13	1,952.12	216.01	10.037		
16,600.00	7,630.00	7,609.00	7,609.00	132.00	131.83	90.00	-4,087.85	3,070.17	2,229.18	2,013.44	215.74	10.333		
16,700.00	7,630.00	7,609.00	7,609.00	133.29	131.83	90.00	-4,087.85	3,070.17	2,292.96	2,077.45	215.51	10.640		
16,800.00	7,630.00	7,609.00	7,609.00	134.59	131.83	90.00	-4,087.85	3,070.17	2,359.25	2,143.93	215.32	10.957		
16,900.00	7,630.00	7,609.00	7,609.00	135.91	131.83	90.00	-4,087.85	3,070.17	2,427.86	2,212.68	215.18	11.283		
17,000.00	7,630.00	7,609.00	7,609.00	137.25	131.83	90.00	-4,087.85	3,070.17	2,498.58	2,283.52	215.06	11.618		
17,100.00	7,630.00	7,609.00	7,609.00	138.61	131.83	90.00	-4,087.85	3,070.17	2,571.25	2,356.27	214.98	11.960		
17,200.00	7,630.00	7,609.00	7,609.00	139.97	131.83	90.00	-4,087.85	3,070.17	2,645.71	2,430.78	214.93	12.310		
17,300.00	7,630.00	7,609.00	7,609.00	141.36	131.83	90.00	-4,087.85	3,070.17	2,721.80	2,506.91	214.89	12.666		
17,400.00	7,630.00	7,609.00	7,609.00	142.75	131.83	90.00	-4,087.85	3,070.17	2,799.40	2,584.52	214.88	13.028		
17,500.00	7,630.00	7,609.00	7,609.00	144.16	131.83	90.00	-4,087.85	3,070.17	2,878.38	2,663.49	214.88	13.395		
17,600.00	7,630.00	7,609.00	7,609.00	145.58	131.83	90.00	-4,087.85	3,070.17	2,958.63	2,743.73	214.90	13.768		
17,700.00	7,630.00	7,609.00	7,609.00	147.01	131.83	90.00	-4,087.85	3,070.17	3,040.05	2,825.12	214.93	14.144		
17,800.00	7,630.00	7,609.00	7,609.00	148.45	131.83	90.00	-4,087.85	3,070.17	3,122.55	2,907.58	214.97	14.526		
17,900.00	7,630.00	7,609.00	7,609.00	149.91	131.83	90.00	-4,087.85	3,070.17	3,206.05	2,991.03	215.02	14.911		
18,000.00	7,630.00	7,609.00	7,609.00	151.37	131.83	90.00	-4,087.85	3,070.17	3,290.47	3,075.39	215.08	15.299		
18,100.00	7,630.00	7,609.00	7,609.00	152.84	131.83	90.00	-4,087.85	3,070.17	3,375.74	3,160.60	215.14	15.691		
18,200.00	7,630.00	7,609.00	7,609.00	154.32	131.83	90.00	-4,087.85	3,070.17	3,461.79	3,246.59	215.21	16.086		
18,300.00	7,630.00	7,609.00	7,609.00	155.81	131.83	90.00	-4,087.85	3,070.17	3,548.58	3,333.30	215.28	16.484		
18,400.00	7,630.00	7,609.00	7,609.00	157.31	131.83	90.00	-4,087.85	3,070.17	3,636.05	3,420.69	215.36	16.884		
18,500.00	7,630.00	7,609.00	7,609.00	158.81	131.83	90.00	-4,087.85	3,070.17	3,724.15	3,508.71	215.43	17.287		
18,600.00	7,630.00	7,609.00	7,609.00	160.32	131.83	90.00	-4,087.85	3,070.17	3,812.83	3,597.32	215.52	17.692		
18,700.00	7,630.00	7,609.00	7,609.00	161.84	131.83	90.00	-4,087.85	3,070.17	3,902.07	3,686.47	215.60	18.099		
18,800.00	7,630.00	7,609.00	7,609.00	163.37	131.83	90.00	-4,087.85	3,070.17	3,991.81	3,776.13	215.68	18.508		
18,900.00	7,630.00	7,609.00	7,609.00	164.90	131.83	90.00	-4,087.85	3,070.17	4,082.03	3,866.27	215.77	18.919		
19,000.00	7,630.00	7,609.00	7,609.00	166.43	131.83	90.00	-4,087.85	3,070.17	4,172.70	3,956.85	215.85	19.331		
19,100.00	7,630.00	7,609.00	7,609.00	167.98	131.83	90.00	-4,087.85	3,070.17	4,263.78	4,047.84	215.94	19.745		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	7,609.00	7,609.00	169.53	131.83	90.00	-4,087.85	3,070.17	4,355.26	4,139.23	216.02	20.161	
19,300.00	7,630.00	7,609.00	7,609.00	171.08	131.83	90.00	-4,087.85	3,070.17	4,447.10	4,230.99	216.11	20.578	
19,400.00	7,630.00	7,609.00	7,609.00	172.64	131.83	90.00	-4,087.85	3,070.17	4,539.28	4,323.09	216.19	20.996	
19,500.00	7,630.00	7,609.00	7,609.00	174.21	131.83	90.00	-4,087.85	3,070.17	4,631.80	4,415.51	216.28	21.416	
19,518.56	7,630.00	7,609.00	7,609.00	174.50	131.83	90.00	-4,087.85	3,070.17	4,649.00	4,432.71	216.30	21.494	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.83	-7,866.23	5,339.38	9,507.21					
100.00	100.00	76.00	76.00	0.13	0.58	145.83	-7,866.23	5,339.38	9,507.18	9,506.47	0.72	N/A		
200.00	200.00	176.00	176.00	0.49	2.09	145.83	-7,866.23	5,339.38	9,507.18	9,504.60	2.59	3,674.566		
300.00	300.00	276.00	276.00	0.85	3.84	145.83	-7,866.23	5,339.38	9,507.18	9,502.49	4.69	2,026.645		
400.00	400.00	376.00	376.00	1.21	5.59	145.83	-7,866.23	5,339.38	9,507.18	9,500.39	6.79	1,399.165		
500.00	499.98	475.98	475.98	1.56	7.33	79.12	-7,866.23	5,339.38	9,506.85	9,497.96	8.89	1,068.929		
600.00	599.84	575.84	575.84	1.92	9.07	79.17	-7,866.23	5,339.38	9,505.87	9,494.88	10.99	864.856		
700.00	699.45	675.45	675.45	2.29	10.81	79.26	-7,866.23	5,339.38	9,504.23	9,491.14	13.09	725.835		
800.00	798.70	774.70	774.70	2.67	12.54	79.37	-7,866.23	5,339.38	9,501.96	9,486.75	15.21	624.907		
900.00	897.47	873.47	873.47	3.07	14.27	79.52	-7,866.23	5,339.38	9,499.06	9,481.73	17.33	548.175		
1,000.00	995.62	971.62	971.62	3.50	15.98	79.70	-7,866.23	5,339.38	9,495.55	9,476.09	19.47	487.766		
1,100.00	1,093.06	1,069.06	1,069.06	3.96	17.68	79.91	-7,866.23	5,339.38	9,491.47	9,469.85	21.63	438.890		
1,200.00	1,189.64	1,165.64	1,165.64	4.46	19.37	80.15	-7,866.23	5,339.38	9,486.84	9,463.03	23.81	398.472		
1,300.00	1,285.27	1,261.27	1,261.27	5.00	21.04	80.42	-7,866.23	5,339.38	9,481.69	9,455.67	26.02	364.445		
1,400.00	1,379.82	1,355.82	1,355.82	5.60	22.69	80.72	-7,866.23	5,339.38	9,476.06	9,447.80	28.26	335.374		
1,500.00	1,473.17	1,449.17	1,449.17	6.25	24.32	81.04	-7,866.23	5,339.38	9,469.98	9,439.46	30.53	310.229		
1,600.00	1,565.21	1,541.21	1,541.21	6.95	25.92	81.38	-7,866.23	5,339.38	9,463.51	9,430.68	32.83	288.253		
1,700.00	1,655.84	1,631.84	1,631.84	7.72	27.50	81.75	-7,866.23	5,339.38	9,456.69	9,421.51	35.17	268.874		
1,800.00	1,744.94	1,720.94	1,720.94	8.55	29.06	82.13	-7,866.23	5,339.38	9,449.56	9,412.01	37.55	251.655		
1,900.00	1,832.39	1,808.39	1,808.39	9.45	30.59	82.53	-7,866.23	5,339.38	9,442.18	9,402.22	39.97	236.256		
2,000.00	1,918.11	1,905.89	1,894.11	10.41	32.29	82.95	-7,866.23	5,339.38	9,434.62	9,391.99	42.63	221.333		
2,100.00	2,001.97	1,977.97	1,977.97	11.45	33.54	83.38	-7,866.23	5,339.38	9,426.91	9,382.00	44.91	209.887		
2,200.00	2,083.88	2,059.88	2,059.88	12.56	34.97	83.82	-7,866.23	5,339.38	9,419.13	9,371.69	47.45	198.523		
2,300.00	2,163.74	2,139.74	2,139.74	13.74	36.37	84.27	-7,866.23	5,339.38	9,411.34	9,361.33	50.02	188.167		
2,400.00	2,241.45	2,217.45	2,217.45	14.99	37.72	84.72	-7,866.23	5,339.38	9,403.60	9,350.97	52.62	178.699		
2,421.22	2,257.65	2,233.65	2,233.65	15.26	38.01	84.82	-7,866.23	5,339.38	9,401.97	9,348.79	53.18	176.796		
2,500.00	2,317.63	2,306.37	2,293.63	16.29	39.28	85.05	-7,866.23	5,339.38	9,396.06	9,340.58	55.48	169.357		
2,600.00	2,393.75	2,369.75	2,369.75	17.62	40.38	85.35	-7,866.23	5,339.38	9,388.95	9,331.04	57.91	162.124		
2,700.00	2,469.88	2,445.88	2,445.88	18.95	41.71	85.66	-7,866.23	5,339.38	9,382.29	9,321.71	60.58	154.876		
2,800.00	2,546.01	2,522.01	2,522.01	20.30	43.04	85.96	-7,866.23	5,339.38	9,376.07	9,312.82	63.26	148.222		
2,900.00	2,622.13	2,601.87	2,598.13	21.65	44.43	86.26	-7,866.23	5,339.38	9,370.30	9,304.29	66.01	141.956		
3,000.00	2,698.26	2,674.26	2,674.26	23.01	45.70	86.56	-7,866.23	5,339.38	9,364.97	9,296.34	68.64	136.443		
3,100.00	2,774.38	2,750.38	2,750.38	24.37	47.03	86.86	-7,866.23	5,339.38	9,360.09	9,288.76	71.34	131.212		
3,200.00	2,850.51	2,826.51	2,826.51	25.74	48.35	87.16	-7,866.23	5,339.38	9,355.66	9,281.62	74.04	126.360		
3,300.00	2,926.64	2,902.64	2,902.64	27.11	49.68	87.47	-7,866.23	5,339.38	9,351.67	9,274.92	76.75	121.849		
3,400.00	3,002.76	2,978.76	2,978.76	28.49	51.01	87.77	-7,866.23	5,339.38	9,348.13	9,268.67	79.46	117.647		
3,500.00	3,078.89	3,054.89	3,054.89	29.87	52.34	88.07	-7,866.23	5,339.38	9,345.04	9,262.87	82.17	113.723		
3,600.00	3,155.02	3,131.02	3,131.02	31.25	53.67	88.37	-7,866.23	5,339.38	9,342.40	9,257.51	84.89	110.053		
3,700.00	3,231.14	3,207.14	3,207.14	32.63	55.00	88.68	-7,866.23	5,339.38	9,340.21	9,252.60	87.61	106.614		
3,800.00	3,307.27	3,283.27	3,283.27	34.01	56.33	88.98	-7,866.23	5,339.38	9,338.47	9,248.14	90.33	103.386		
3,900.00	3,383.39	3,359.39	3,359.39	35.40	57.66	89.28	-7,866.23	5,339.38	9,337.17	9,244.13	93.05	100.350		
4,000.00	3,459.52	3,435.52	3,435.52	36.79	58.98	89.59	-7,866.23	5,339.38	9,336.33	9,240.56	95.77	97.490		
4,100.00	3,535.65	3,511.65	3,511.65	38.18	60.31	89.89	-7,866.23	5,339.38	9,335.94	9,237.45	98.49	94.794		
4,136.94	3,563.77	3,539.77	3,539.77	38.69	60.80	90.00	-7,866.23	5,339.38	9,335.91	9,236.42	99.49	93.836		
4,200.00	3,611.77	3,587.77	3,587.77	39.57	61.64	90.19	-7,866.23	5,339.38	9,336.00	9,234.79	101.21	92.247		
4,300.00	3,687.90	3,663.90	3,663.90	40.96	62.97	90.49	-7,866.23	5,339.38	9,336.51	9,232.58	103.93	89.838		
4,400.00	3,764.02	3,740.02	3,740.02	42.35	64.30	90.80	-7,866.23	5,339.38	9,337.47	9,230.82	106.65	87.556		
4,500.00	3,840.15	3,816.15	3,816.15	43.74	65.63	91.10	-7,866.23	5,339.38	9,338.88	9,229.51	109.36	85.394		
4,600.00	3,916.28	3,907.72	3,892.28	45.13	67.23	91.40	-7,866.23	5,339.38	9,340.74	9,228.39	112.35	83.141		
4,700.00	3,992.40	3,968.40	3,968.40	46.53	68.28	91.71	-7,866.23	5,339.38	9,343.05	9,228.25	114.79	81.390		
4,800.00	4,068.53	4,044.53	4,044.53	47.92	69.61	92.01	-7,866.23	5,339.38	9,345.80	9,228.30	117.51	79.534		
4,900.00	4,144.66	4,120.66	4,120.66	49.32	70.94	92.31	-7,866.23	5,339.38	9,349.01	9,228.79	120.22	77.768		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,220.78	4,203.22	4,196.78	50.71	72.38	92.61	-7,866.23	5,339.38	9,352.67	9,229.63	123.04	76.014		
5,100.00	4,296.91	4,272.91	4,272.91	52.11	73.60	92.92	-7,866.23	5,339.38	9,356.77	9,231.14	125.63	74.478		
5,200.00	4,373.03	4,349.03	4,349.03	53.51	74.93	93.22	-7,866.23	5,339.38	9,361.32	9,232.99	128.33	72.944		
5,300.00	4,449.16	4,425.16	4,425.16	54.90	76.26	93.52	-7,866.23	5,339.38	9,366.32	9,235.29	131.04	71.479		
5,400.00	4,525.29	4,501.29	4,501.29	56.30	77.58	93.82	-7,866.23	5,339.38	9,371.77	9,238.03	133.73	70.078		
5,500.00	4,601.41	4,577.41	4,577.41	57.70	78.91	94.12	-7,866.23	5,339.38	9,377.66	9,241.23	136.43	68.738		
5,600.00	4,677.54	4,653.54	4,653.54	59.10	80.24	94.42	-7,866.23	5,339.38	9,383.99	9,244.87	139.12	67.454		
5,700.00	4,753.66	4,729.66	4,729.66	60.49	81.57	94.72	-7,866.23	5,339.38	9,390.77	9,248.96	141.80	66.224		
5,800.00	4,829.79	4,805.79	4,805.79	61.89	82.90	95.03	-7,866.23	5,339.38	9,397.99	9,253.50	144.49	65.044		
5,900.00	4,905.92	4,881.92	4,881.92	63.29	84.23	95.33	-7,866.23	5,339.38	9,405.65	9,258.48	147.17	63.912		
6,000.00	4,982.04	4,958.04	4,958.04	64.69	85.56	95.63	-7,866.23	5,339.38	9,413.75	9,263.91	149.84	62.825		
6,100.00	5,058.17	5,034.17	5,034.17	66.09	86.89	95.93	-7,866.23	5,339.38	9,422.29	9,269.78	152.51	61.781		
6,200.00	5,134.30	5,110.30	5,110.30	67.49	88.21	96.23	-7,866.23	5,339.38	9,431.27	9,276.09	155.18	60.778		
6,300.00	5,210.42	5,186.42	5,186.42	68.89	89.54	96.52	-7,866.23	5,339.38	9,440.69	9,282.85	157.84	59.813		
6,400.00	5,286.55	5,262.55	5,262.55	70.29	90.87	96.82	-7,866.23	5,339.38	9,450.54	9,290.04	160.49	58.884		
6,500.00	5,362.67	5,338.67	5,338.67	71.69	92.20	97.12	-7,866.23	5,339.38	9,460.82	9,297.68	163.15	57.990		
6,600.00	5,438.80	5,414.80	5,414.80	73.09	93.53	97.42	-7,866.23	5,339.38	9,471.54	9,305.75	165.79	57.129		
6,700.00	5,514.93	5,509.07	5,490.93	74.49	95.17	97.72	-7,866.23	5,339.38	9,482.69	9,313.94	168.75	56.194		
6,800.00	5,591.05	5,567.05	5,567.05	75.89	96.19	98.02	-7,866.23	5,339.38	9,494.27	9,323.20	171.07	55.500		
6,900.00	5,667.18	5,643.18	5,643.18	77.29	97.51	98.31	-7,866.23	5,339.38	9,506.28	9,332.58	173.70	54.729		
7,000.00	5,743.30	5,719.30	5,719.30	78.69	98.84	98.61	-7,866.23	5,339.38	9,518.71	9,342.39	176.32	53.984		
7,100.00	5,819.43	5,804.57	5,795.43	80.09	100.33	98.90	-7,866.23	5,339.38	9,531.57	9,352.47	179.10	53.219		
7,200.00	5,895.56	5,871.56	5,871.56	81.49	101.50	99.20	-7,866.23	5,339.38	9,544.86	9,363.30	181.55	52.573		
7,300.00	5,971.68	5,947.68	5,947.68	82.90	102.83	99.49	-7,866.23	5,339.38	9,558.56	9,374.40	184.16	51.903		
7,400.00	6,047.81	6,023.81	6,023.81	84.30	104.16	99.79	-7,866.23	5,339.38	9,572.68	9,385.92	186.76	51.256		
7,500.00	6,123.94	6,100.06	6,099.94	85.70	105.49	100.08	-7,866.23	5,339.38	9,587.23	9,397.87	189.36	50.630		
7,600.00	6,200.06	6,176.06	6,176.06	87.10	106.82	100.38	-7,866.23	5,339.38	9,602.18	9,410.24	191.94	50.026		
7,700.00	6,276.19	6,252.19	6,252.19	88.50	108.14	100.67	-7,866.23	5,339.38	9,617.55	9,423.03	194.53	49.441		
7,800.00	6,352.31	6,328.31	6,328.31	89.90	109.47	100.96	-7,866.23	5,339.38	9,633.34	9,436.24	197.10	48.875		
7,900.00	6,428.44	6,404.44	6,404.44	91.31	110.80	101.25	-7,866.23	5,339.38	9,649.53	9,449.86	199.67	48.327		
8,000.00	6,504.57	6,480.57	6,480.57	92.71	112.13	101.54	-7,866.23	5,339.38	9,666.13	9,463.90	202.23	47.797		
8,100.00	6,580.69	6,556.69	6,556.69	94.11	113.46	101.83	-7,866.23	5,339.38	9,683.14	9,478.35	204.79	47.284		
8,200.00	6,656.82	6,632.82	6,632.82	95.51	114.79	102.12	-7,866.23	5,339.38	9,700.55	9,493.22	207.33	46.787		
8,300.00	6,732.95	6,708.95	6,708.95	96.91	116.12	102.41	-7,866.23	5,339.38	9,718.36	9,508.49	209.88	46.305		
8,400.00	6,809.07	6,785.07	6,785.07	98.32	117.44	102.70	-7,866.23	5,339.38	9,736.57	9,524.16	212.41	45.839		
8,500.00	6,885.20	6,861.20	6,861.20	99.72	118.77	102.99	-7,866.23	5,339.38	9,755.18	9,540.25	214.94	45.386		
8,600.00	6,961.32	6,937.32	6,937.32	101.12	120.10	103.28	-7,866.23	5,339.38	9,774.19	9,556.73	217.46	44.948		
8,700.00	7,037.45	7,013.45	7,013.45	102.52	121.43	103.56	-7,866.23	5,339.38	9,793.58	9,573.61	219.97	44.522		
8,732.15	7,061.92	7,037.92	7,037.92	102.97	121.86	103.66	-7,866.23	5,339.38	9,799.90	9,579.12	220.78	44.388		
8,750.00	7,075.57	7,051.57	7,051.57	103.22	122.10	101.71	-7,866.23	5,339.38	9,803.15	9,581.93	221.22	44.313		
8,800.00	7,114.27	7,109.73	7,090.27	103.91	123.11	95.96	-7,866.23	5,339.38	9,809.42	9,586.58	222.83	44.021		
8,850.00	7,153.47	7,129.47	7,129.47	104.58	123.46	89.86	-7,866.23	5,339.38	9,811.44	9,587.67	223.77	43.845		
8,900.00	7,192.85	7,168.85	7,168.85	105.21	124.14	83.59	-7,866.23	5,339.38	9,809.22	9,584.17	225.05	43.587		
8,950.00	7,232.12	7,208.12	7,208.12	105.80	124.83	77.37	-7,866.23	5,339.38	9,802.75	9,576.44	226.31	43.315		
9,000.00	7,270.99	7,246.99	7,246.99	106.35	125.51	71.39	-7,866.23	5,339.38	9,792.10	9,564.55	227.54	43.034		
9,050.00	7,309.16	7,285.16	7,285.16	106.85	126.17	65.79	-7,866.23	5,339.38	9,777.32	9,548.58	228.74	42.745		
9,100.00	7,346.32	7,322.32	7,322.32	107.30	126.82	60.68	-7,866.23	5,339.38	9,758.52	9,528.64	229.88	42.450		
9,150.00	7,382.22	7,358.22	7,358.22	107.69	127.45	56.08	-7,866.23	5,339.38	9,735.85	9,504.88	230.97	42.153		
9,200.00	7,416.56	7,407.44	7,392.56	108.02	128.31	52.00	-7,866.23	5,339.38	9,709.45	9,477.20	232.24	41.807		
9,250.00	7,449.09	7,425.09	7,425.09	108.29	128.61	48.40	-7,866.23	5,339.38	9,679.52	9,446.59	232.93	41.555		
9,300.00	7,479.56	7,455.56	7,455.56	108.51	129.15	45.22	-7,866.23	5,339.38	9,646.27	9,412.47	233.80	41.259		
9,350.00	7,507.74	7,483.74	7,483.74	108.68	129.64	42.41	-7,866.23	5,339.38	9,609.95	9,375.37	234.58	40.967		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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-CONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,533.41	7,509.41	7,509.41	108.79	130.09	39.88	-7,866.23	5,339.38	9,570.81	9,335.54	235.28	40.679		
9,450.00	7,556.39	7,532.39	7,532.39	108.86	130.49	37.53	-7,866.23	5,339.38	9,529.15	9,293.27	235.88	40.398		
9,500.00	7,576.48	7,552.48	7,552.48	108.88	130.84	35.25	-7,866.23	5,339.38	9,485.27	9,248.87	236.40	40.124		
9,550.00	7,593.55	7,569.55	7,569.55	108.86	131.14	32.82	-7,866.23	5,339.38	9,439.50	9,202.67	236.82	39.859		
9,600.00	7,607.46	7,583.46	7,583.46	108.80	131.38	29.82	-7,866.23	5,339.38	9,392.16	9,155.01	237.15	39.604		
9,650.00	7,618.11	7,605.89	7,594.11	108.71	131.77	25.18	-7,866.23	5,339.38	9,343.63	9,106.03	237.60	39.325		
9,700.00	7,625.41	7,601.41	7,601.41	108.59	131.69	14.82	-7,866.23	5,339.38	9,294.26	9,056.72	237.55	39.126		
9,750.00	7,629.30	7,605.30	7,605.30	108.45	131.76	-29.18	-7,866.23	5,339.38	9,244.43	9,006.82	237.61	38.905		
9,781.81	7,630.00	7,606.00	7,606.00	108.35	131.77	-90.00	-7,866.23	5,339.38	9,212.67	8,975.05	237.61	38.772		
9,800.00	7,630.00	7,606.00	7,606.00	108.29	131.77	-90.00	-7,866.23	5,339.38	9,194.50	8,956.90	237.60	38.697		
9,900.00	7,630.00	7,606.00	7,606.00	107.97	131.77	-90.00	-7,866.23	5,339.38	9,094.68	8,857.13	237.55	38.286		
10,000.00	7,630.00	7,606.00	7,606.00	107.67	131.77	-90.00	-7,866.23	5,339.38	8,994.86	8,757.37	237.49	37.875		
10,100.00	7,630.00	7,606.00	7,606.00	107.38	131.77	-90.00	-7,866.23	5,339.38	8,895.04	8,657.61	237.43	37.464		
10,200.00	7,630.00	7,606.00	7,606.00	107.10	131.77	-90.00	-7,866.23	5,339.38	8,795.23	8,557.86	237.37	37.053		
10,300.00	7,630.00	7,606.00	7,606.00	106.84	131.77	-90.00	-7,866.23	5,339.38	8,695.42	8,458.11	237.31	36.642		
10,400.00	7,630.00	7,606.00	7,606.00	106.59	131.77	-90.00	-7,866.23	5,339.38	8,595.62	8,358.37	237.25	36.231		
10,500.00	7,630.00	7,606.00	7,606.00	106.35	131.77	-90.00	-7,866.23	5,339.38	8,495.82	8,258.63	237.18	35.820		
10,600.00	7,630.00	7,606.00	7,606.00	106.13	131.77	-90.00	-7,866.23	5,339.38	8,396.02	8,158.90	237.12	35.408		
10,700.00	7,630.00	7,606.00	7,606.00	105.92	131.77	-90.00	-7,866.23	5,339.38	8,296.23	8,059.18	237.05	34.997		
10,800.00	7,630.00	7,606.00	7,606.00	105.72	131.77	-90.00	-7,866.23	5,339.38	8,196.45	7,959.46	236.99	34.586		
10,900.00	7,630.00	7,606.00	7,606.00	105.54	131.77	-90.00	-7,866.23	5,339.38	8,096.67	7,859.75	236.92	34.175		
11,000.00	7,630.00	7,606.00	7,606.00	105.37	131.77	-90.00	-7,866.23	5,339.38	7,996.89	7,760.04	236.85	33.764		
11,100.00	7,630.00	7,606.00	7,606.00	105.21	131.77	-90.00	-7,866.23	5,339.38	7,897.13	7,660.35	236.78	33.352		
11,200.00	7,630.00	7,606.00	7,606.00	105.06	131.77	-90.00	-7,866.23	5,339.38	7,797.36	7,560.66	236.71	32.941		
11,300.00	7,630.00	7,606.00	7,606.00	104.93	131.77	-90.00	-7,866.23	5,339.38	7,697.61	7,460.98	236.63	32.530		
11,400.00	7,630.00	7,606.00	7,606.00	104.82	131.77	-90.00	-7,866.23	5,339.38	7,597.86	7,361.30	236.56	32.119		
11,500.00	7,630.00	7,606.00	7,606.00	104.72	131.77	-90.00	-7,866.23	5,339.38	7,498.11	7,261.64	236.48	31.707		
11,600.00	7,630.00	7,606.00	7,606.00	104.63	131.77	-90.00	-7,866.23	5,339.38	7,398.38	7,161.98	236.40	31.296		
11,700.00	7,630.00	7,606.00	7,606.00	104.55	131.77	-90.00	-7,866.23	5,339.38	7,298.65	7,062.33	236.32	30.885		
11,800.00	7,630.00	7,606.00	7,606.00	104.50	131.77	-90.00	-7,866.23	5,339.38	7,198.93	6,962.69	236.24	30.473		
11,900.00	7,630.00	7,606.00	7,606.00	104.45	131.77	-90.00	-7,866.23	5,339.38	7,099.22	6,863.06	236.15	30.062		
12,000.00	7,630.00	7,606.00	7,606.00	104.43	131.77	-90.00	-7,866.23	5,339.38	6,999.51	6,763.45	236.06	29.651		
12,100.00	7,630.00	7,606.00	7,606.00	104.42	131.77	-90.00	-7,866.23	5,339.38	6,899.81	6,663.84	235.97	29.240		
12,200.00	7,630.00	7,606.00	7,606.00	104.42	131.77	-90.00	-7,866.23	5,339.38	6,800.13	6,564.24	235.88	28.829		
12,300.00	7,630.00	7,606.00	7,606.00	104.45	131.77	-90.00	-7,866.23	5,339.38	6,700.45	6,464.66	235.79	28.417		
12,400.00	7,630.00	7,606.00	7,606.00	104.49	131.77	-90.00	-7,866.23	5,339.38	6,600.78	6,365.09	235.69	28.006		
12,500.00	7,630.00	7,606.00	7,606.00	104.55	131.77	-90.00	-7,866.23	5,339.38	6,501.12	6,265.53	235.59	27.595		
12,600.00	7,630.00	7,606.00	7,606.00	104.63	131.77	-90.00	-7,866.23	5,339.38	6,401.47	6,165.98	235.49	27.184		
12,700.00	7,630.00	7,606.00	7,606.00	104.73	131.77	-90.00	-7,866.23	5,339.38	6,301.84	6,066.45	235.38	26.773		
12,800.00	7,630.00	7,606.00	7,606.00	104.85	131.77	-90.00	-7,866.23	5,339.38	6,202.21	5,966.94	235.27	26.362		
12,900.00	7,630.00	7,606.00	7,606.00	104.99	131.77	-90.00	-7,866.23	5,339.38	6,102.60	5,867.43	235.16	25.950		
13,000.00	7,630.00	7,606.00	7,606.00	105.15	131.77	-90.00	-7,866.23	5,339.38	6,003.00	5,767.95	235.05	25.539		
13,100.00	7,630.00	7,606.00	7,606.00	105.34	131.77	-90.00	-7,866.23	5,339.38	5,903.41	5,668.48	234.93	25.128		
13,200.00	7,630.00	7,606.00	7,606.00	105.56	131.77	-90.00	-7,866.23	5,339.38	5,803.84	5,569.03	234.81	24.718		
13,300.00	7,630.00	7,606.00	7,606.00	105.80	131.77	-90.00	-7,866.23	5,339.38	5,704.28	5,469.60	234.68	24.307		
13,400.00	7,630.00	7,606.00	7,606.00	106.06	131.77	-90.00	-7,866.23	5,339.38	5,604.74	5,370.19	234.55	23.896		
13,500.00	7,630.00	7,606.00	7,606.00	106.36	131.77	-90.00	-7,866.23	5,339.38	5,505.22	5,270.80	234.41	23.485		
13,600.00	7,630.00	7,606.00	7,606.00	106.68	131.77	-90.00	-7,866.23	5,339.38	5,405.71	5,171.44	234.27	23.074		
13,700.00	7,630.00	7,606.00	7,606.00	107.03	131.77	-90.00	-7,866.23	5,339.38	5,306.22	5,072.09	234.13	22.664		
13,800.00	7,630.00	7,606.00	7,606.00	107.42	131.77	-90.00	-7,866.23	5,339.38	5,206.75	4,972.77	233.98	22.253		
13,900.00	7,630.00	7,606.00	7,606.00	107.83	131.77	-90.00	-7,866.23	5,339.38	5,107.30	4,873.48	233.82	21.843		
14,000.00	7,630.00	7,606.00	7,606.00	108.28	131.77	-90.00	-7,866.23	5,339.38	5,007.88	4,774.21	233.66	21.432		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,606.00	7,606.00	108.77	131.77	-90.00	-7,866.23	5,339.38	4,908.47	4,674.98	233.49	21.022		
14,200.00	7,630.00	7,606.00	7,606.00	109.29	131.77	-90.00	-7,866.23	5,339.38	4,809.09	4,575.77	233.32	20.612		
14,300.00	7,630.00	7,606.00	7,606.00	109.84	131.77	-90.00	-7,866.23	5,339.38	4,709.74	4,476.60	233.14	20.201		
14,400.00	7,630.00	7,606.00	7,606.00	110.43	131.77	-90.00	-7,866.23	5,339.38	4,610.42	4,377.47	232.95	19.791		
14,500.00	7,630.00	7,606.00	7,606.00	111.06	131.77	-90.00	-7,866.23	5,339.38	4,511.12	4,278.37	232.76	19.381		
14,600.00	7,630.00	7,606.00	7,606.00	111.72	131.77	-90.00	-7,866.23	5,339.38	4,411.86	4,179.31	232.55	18.972		
14,700.00	7,630.00	7,606.00	7,606.00	112.42	131.77	-90.00	-7,866.23	5,339.38	4,312.63	4,080.30	232.34	18.562		
14,800.00	7,630.00	7,606.00	7,606.00	113.16	131.77	-90.00	-7,866.23	5,339.38	4,213.44	3,981.33	232.12	18.152		
14,900.00	7,630.00	7,606.00	7,606.00	113.94	131.77	-90.00	-7,866.23	5,339.38	4,114.29	3,882.41	231.88	17.743		
15,000.00	7,630.00	7,606.00	7,606.00	114.75	131.77	-90.00	-7,866.23	5,339.38	4,015.18	3,783.54	231.64	17.334		
15,100.00	7,630.00	7,606.00	7,606.00	115.60	131.77	-90.00	-7,866.23	5,339.38	3,916.11	3,684.73	231.38	16.925		
15,200.00	7,630.00	7,606.00	7,606.00	116.48	131.77	-90.00	-7,866.23	5,339.38	3,817.10	3,585.98	231.12	16.516		
15,300.00	7,630.00	7,606.00	7,606.00	117.40	131.77	-90.00	-7,866.23	5,339.38	3,718.13	3,487.29	230.84	16.107		
15,400.00	7,630.00	7,606.00	7,606.00	118.35	131.77	-90.00	-7,866.23	5,339.38	3,619.23	3,388.68	230.55	15.699		
15,500.00	7,630.00	7,606.00	7,606.00	119.34	131.77	-90.00	-7,866.23	5,339.38	3,520.38	3,290.14	230.24	15.290		
15,600.00	7,630.00	7,606.00	7,606.00	120.35	131.77	-90.00	-7,866.23	5,339.38	3,421.60	3,191.69	229.91	14.882		
15,700.00	7,630.00	7,606.00	7,606.00	121.40	131.77	-90.00	-7,866.23	5,339.38	3,322.90	3,093.33	229.57	14.474		
15,800.00	7,630.00	7,606.00	7,606.00	122.48	131.77	-90.00	-7,866.23	5,339.38	3,224.27	2,995.06	229.21	14.067		
15,900.00	7,630.00	7,606.00	7,606.00	123.58	131.77	-90.00	-7,866.23	5,339.38	3,125.74	2,896.90	228.83	13.660		
16,000.00	7,630.00	7,606.00	7,606.00	124.71	131.77	-90.00	-7,866.23	5,339.38	3,027.29	2,798.86	228.43	13.253		
16,100.00	7,630.00	7,606.00	7,606.00	125.87	131.77	-90.00	-7,866.23	5,339.38	2,928.96	2,700.95	228.00	12.846		
16,200.00	7,630.00	7,606.00	7,606.00	127.05	131.77	-90.00	-7,866.23	5,339.38	2,830.74	2,603.18	227.56	12.440		
16,300.00	7,630.00	7,606.00	7,606.00	128.26	131.77	-90.00	-7,866.23	5,339.38	2,732.65	2,505.57	227.08	12.034		
16,400.00	7,630.00	7,606.00	7,606.00	129.48	131.77	-90.00	-7,866.23	5,339.38	2,634.70	2,408.12	226.58	11.628		
16,500.00	7,630.00	7,606.00	7,606.00	130.73	131.77	-90.00	-7,866.23	5,339.38	2,536.91	2,310.87	226.04	11.223		
16,600.00	7,630.00	7,606.00	7,606.00	132.00	131.77	-90.00	-7,866.23	5,339.38	2,439.31	2,213.83	225.47	10.819		
16,700.00	7,630.00	7,606.00	7,606.00	133.29	131.77	-90.00	-7,866.23	5,339.38	2,341.90	2,117.03	224.87	10.415		
16,800.00	7,630.00	7,606.00	7,606.00	134.59	131.77	-90.00	-7,866.23	5,339.38	2,244.72	2,020.50	224.23	10.011		
16,900.00	7,630.00	7,606.00	7,606.00	135.91	131.77	-90.00	-7,866.23	5,339.38	2,147.80	1,924.26	223.55	9.608		
17,000.00	7,630.00	7,606.00	7,606.00	137.25	131.77	-90.00	-7,866.23	5,339.38	2,051.18	1,828.36	222.82	9.205		
17,100.00	7,630.00	7,606.00	7,606.00	138.61	131.77	-90.00	-7,866.23	5,339.38	1,954.90	1,732.84	222.06	8.803		
17,200.00	7,630.00	7,606.00	7,606.00	139.97	131.77	-90.00	-7,866.23	5,339.38	1,859.01	1,637.75	221.25	8.402		
17,300.00	7,630.00	7,606.00	7,606.00	141.36	131.77	-90.00	-7,866.23	5,339.38	1,763.58	1,543.17	220.41	8.001		
17,400.00	7,630.00	7,606.00	7,606.00	142.75	131.77	-90.00	-7,866.23	5,339.38	1,668.68	1,449.15	219.53	7.601		
17,500.00	7,630.00	7,606.00	7,606.00	144.16	131.77	-90.00	-7,866.23	5,339.38	1,574.41	1,355.78	218.63	7.201		
17,600.00	7,630.00	7,606.00	7,606.00	145.58	131.77	-90.00	-7,866.23	5,339.38	1,480.89	1,263.18	217.72	6.802		
17,700.00	7,630.00	7,606.00	7,606.00	147.01	131.77	-90.00	-7,866.23	5,339.38	1,388.28	1,171.45	216.84	6.402		
17,800.00	7,630.00	7,606.00	7,606.00	148.45	131.77	-90.00	-7,866.23	5,339.38	1,296.77	1,080.74	216.03	6.003		
17,900.00	7,630.00	7,606.00	7,606.00	149.91	131.77	-90.00	-7,866.23	5,339.38	1,206.61	991.23	215.38	5.602		
18,000.00	7,630.00	7,606.00	7,606.00	151.37	131.77	-90.00	-7,866.23	5,339.38	1,118.12	903.10	215.02	5.200		
18,100.00	7,630.00	7,606.00	7,606.00	152.84	131.77	-90.00	-7,866.23	5,339.38	1,031.73	816.61	215.13	4.796		
18,200.00	7,630.00	7,606.00	7,606.00	154.32	131.77	-90.00	-7,866.23	5,339.38	948.03	732.03	215.99	4.389		
18,300.00	7,630.00	7,606.00	7,606.00	155.81	131.77	-90.00	-7,866.23	5,339.38	867.78	649.76	218.02	3.980		
18,400.00	7,630.00	7,606.00	7,606.00	157.31	131.77	-90.00	-7,866.23	5,339.38	792.04	570.32	221.72	3.572		
18,500.00	7,630.00	7,606.00	7,606.00	158.81	131.77	-90.00	-7,866.23	5,339.38	722.22	494.56	227.66	3.172		
18,600.00	7,630.00	7,606.00	7,606.00	160.32	131.77	-90.00	-7,866.23	5,339.38	660.22	423.89	236.33	2.794		
18,700.00	7,630.00	7,606.00	7,606.00	161.84	131.77	-90.00	-7,866.23	5,339.38	608.42	360.63	247.78	2.455		
18,800.00	7,630.00	7,606.00	7,606.00	163.37	131.77	-90.00	-7,866.23	5,339.38	569.61	308.27	261.34	2.180		
18,900.00	7,630.00	7,606.00	7,606.00	164.90	131.77	-90.00	-7,866.23	5,339.38	546.57	271.20	275.38	1.985		
18,978.58	7,630.00	7,606.00	7,606.00	166.10	131.77	-90.00	-7,866.23	5,339.38	540.90	255.60	285.30	1.896 CC		
19,000.00	7,630.00	7,606.00	7,606.00	166.43	131.77	-90.00	-7,866.23	5,339.38	541.32	253.64	287.68	1.882 ES		
19,100.00	7,630.00	7,606.00	7,606.00	167.98	131.77	-90.00	-7,866.23	5,339.38	554.36	257.91	296.45	1.870 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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	7,606.00	7,606.00	169.53	131.77	-90.00	-7,866.23	5,339.38	584.46	283.36	301.10	1.941	
19,300.00	7,630.00	7,606.00	7,606.00	171.08	131.77	-90.00	-7,866.23	5,339.38	629.19	326.95	302.24	2.082	
19,400.00	7,630.00	7,606.00	7,606.00	172.64	131.77	-90.00	-7,866.23	5,339.38	685.68	384.69	300.99	2.278	
19,500.00	7,630.00	7,606.00	7,606.00	174.21	131.77	-90.00	-7,866.23	5,339.38	751.30	452.89	298.40	2.518	
19,518.56	7,630.00	7,606.00	7,606.00	174.50	131.77	-90.00	-7,866.23	5,339.38	764.30	466.46	297.84	2.566	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	149.16	-5,431.33	3,242.58	6,325.67					
100.00	100.00	79.00	79.00	0.13	0.60	149.16	-5,431.33	3,242.58	6,325.63	6,324.90	0.73	8,615.562		
200.00	200.00	179.00	179.00	0.49	2.14	149.16	-5,431.33	3,242.58	6,325.63	6,323.00	2.63	2,404.335		
300.00	300.00	279.00	279.00	0.85	3.88	149.16	-5,431.33	3,242.58	6,325.63	6,320.90	4.73	1,336.008		
400.00	400.00	379.00	379.00	1.21	5.63	149.16	-5,431.33	3,242.58	6,325.63	6,318.79	6.84	924.999		
500.00	499.98	478.98	478.98	1.56	7.37	82.46	-5,431.33	3,242.58	6,325.40	6,316.47	8.94	707.739		
600.00	599.84	578.84	578.84	1.92	9.12	82.52	-5,431.33	3,242.58	6,324.72	6,313.68	11.04	573.150		
700.00	699.45	678.45	678.45	2.29	10.86	82.62	-5,431.33	3,242.58	6,323.59	6,310.45	13.14	481.312		
800.00	798.70	777.70	777.70	2.67	12.59	82.76	-5,431.33	3,242.58	6,322.02	6,306.77	15.25	414.559		
900.00	897.47	876.47	876.47	3.07	14.31	82.94	-5,431.33	3,242.58	6,320.05	6,302.68	17.37	363.763		
1,000.00	995.62	974.62	974.62	3.50	16.02	83.15	-5,431.33	3,242.58	6,317.70	6,298.18	19.51	323.744		
1,100.00	1,093.06	1,072.06	1,072.06	3.96	17.72	83.40	-5,431.33	3,242.58	6,315.00	6,293.32	21.68	291.346		
1,200.00	1,189.64	1,168.64	1,168.64	4.46	19.41	83.69	-5,431.33	3,242.58	6,311.99	6,288.13	23.86	264.543		
1,300.00	1,285.27	1,264.27	1,264.27	5.00	21.08	84.01	-5,431.33	3,242.58	6,308.71	6,282.64	26.07	241.971		
1,400.00	1,379.82	1,358.82	1,358.82	5.60	22.73	84.35	-5,431.33	3,242.58	6,305.22	6,276.91	28.31	222.683		
1,500.00	1,473.17	1,452.17	1,452.17	6.25	24.36	84.73	-5,431.33	3,242.58	6,301.57	6,270.98	30.59	205.999		
1,600.00	1,565.21	1,544.21	1,544.21	6.95	25.97	85.13	-5,431.33	3,242.58	6,297.83	6,264.92	32.90	191.418		
1,700.00	1,655.84	1,634.84	1,634.84	7.72	27.55	85.55	-5,431.33	3,242.58	6,294.04	6,258.79	35.25	178.564		
1,800.00	1,744.94	1,723.94	1,723.94	8.55	29.10	86.00	-5,431.33	3,242.58	6,290.29	6,252.66	37.63	167.148		
1,900.00	1,832.39	1,811.39	1,811.39	9.45	30.63	86.45	-5,431.33	3,242.58	6,286.65	6,246.59	40.06	156.944		
2,000.00	1,918.11	1,902.89	1,897.11	10.41	32.23	86.93	-5,431.33	3,242.58	6,283.18	6,240.56	42.62	147.424		
2,100.00	2,001.97	1,980.97	1,980.97	11.45	33.59	87.41	-5,431.33	3,242.58	6,279.97	6,234.95	45.02	139.494		
2,200.00	2,083.88	2,062.88	2,062.88	12.56	35.02	87.89	-5,431.33	3,242.58	6,277.10	6,229.54	47.56	131.986		
2,300.00	2,163.74	2,142.74	2,142.74	13.74	36.41	88.38	-5,431.33	3,242.58	6,274.66	6,224.52	50.14	125.155		
2,400.00	2,241.45	2,220.45	2,220.45	14.99	37.77	88.86	-5,431.33	3,242.58	6,272.71	6,219.97	52.75	118.920		
2,421.22	2,257.65	2,236.65	2,236.65	15.26	38.05	88.97	-5,431.33	3,242.58	6,272.37	6,219.07	53.31	117.669		
2,500.00	2,317.63	2,303.37	2,296.63	16.29	39.22	89.32	-5,431.33	3,242.58	6,271.37	6,215.87	55.50	112.989		
2,600.00	2,393.75	2,372.75	2,372.75	17.62	40.43	89.77	-5,431.33	3,242.58	6,270.70	6,212.66	58.04	108.037		
2,650.31	2,432.05	2,411.05	2,411.05	18.29	41.09	90.00	-5,431.33	3,242.58	6,270.61	6,211.23	59.38	105.595		
2,700.00	2,469.88	2,448.88	2,448.88	18.95	41.75	90.22	-5,431.33	3,242.58	6,270.70	6,209.99	60.71	103.292		
2,800.00	2,546.01	2,525.01	2,525.01	20.30	43.08	90.68	-5,431.33	3,242.58	6,271.37	6,207.98	63.38	98.945		
2,900.00	2,622.13	2,601.13	2,601.13	21.65	44.41	91.13	-5,431.33	3,242.58	6,272.70	6,206.64	66.06	94.952		
3,000.00	2,698.26	2,677.26	2,677.26	23.01	45.74	91.58	-5,431.33	3,242.58	6,274.71	6,205.97	68.75	91.274		
3,100.00	2,774.38	2,753.38	2,753.38	24.37	47.07	92.03	-5,431.33	3,242.58	6,277.39	6,205.96	71.43	87.880		
3,200.00	2,850.51	2,829.51	2,829.51	25.74	48.40	92.48	-5,431.33	3,242.58	6,280.74	6,206.62	74.12	84.738		
3,300.00	2,926.64	2,905.64	2,905.64	27.11	49.73	92.93	-5,431.33	3,242.58	6,284.75	6,207.94	76.81	81.825		
3,400.00	3,002.76	2,981.76	2,981.76	28.49	51.06	93.38	-5,431.33	3,242.58	6,289.43	6,209.94	79.49	79.118		
3,500.00	3,078.89	3,057.89	3,057.89	29.87	52.38	93.83	-5,431.33	3,242.58	6,294.77	6,212.59	82.18	76.598		
3,600.00	3,155.02	3,134.02	3,134.02	31.25	53.71	94.28	-5,431.33	3,242.58	6,300.78	6,215.92	84.86	74.247		
3,700.00	3,231.14	3,210.14	3,210.14	32.63	55.04	94.72	-5,431.33	3,242.58	6,307.45	6,219.91	87.54	72.050		
3,800.00	3,307.27	3,286.27	3,286.27	34.01	56.37	95.17	-5,431.33	3,242.58	6,314.78	6,224.56	90.22	69.993		
3,900.00	3,383.39	3,362.39	3,362.39	35.40	57.70	95.62	-5,431.33	3,242.58	6,322.76	6,229.87	92.89	68.065		
4,000.00	3,459.52	3,438.52	3,438.52	36.79	59.03	96.06	-5,431.33	3,242.58	6,331.40	6,235.84	95.56	66.255		
4,100.00	3,535.65	3,514.65	3,514.65	38.18	60.36	96.51	-5,431.33	3,242.58	6,340.69	6,242.46	98.22	64.553		
4,200.00	3,611.77	3,609.23	3,590.77	39.57	62.01	96.96	-5,431.33	3,242.58	6,350.62	6,249.42	101.20	62.751		
4,300.00	3,687.90	3,666.90	3,666.90	40.96	63.01	97.40	-5,431.33	3,242.58	6,361.21	6,257.67	103.53	61.441		
4,400.00	3,764.02	3,743.02	3,743.02	42.35	64.34	97.84	-5,431.33	3,242.58	6,372.43	6,266.25	106.18	60.016		
4,500.00	3,840.15	3,819.15	3,819.15	43.74	65.67	98.28	-5,431.33	3,242.58	6,384.29	6,275.48	108.82	58.670		
4,600.00	3,916.28	3,904.72	3,895.28	45.13	67.16	98.73	-5,431.33	3,242.58	6,396.79	6,285.18	111.61	57.312		
4,700.00	3,992.40	3,971.40	3,971.40	46.53	68.33	99.17	-5,431.33	3,242.58	6,409.93	6,295.85	114.07	56.192		
4,800.00	4,068.53	4,047.53	4,047.53	47.92	69.66	99.61	-5,431.33	3,242.58	6,423.68	6,307.00	116.69	55.050		
4,900.00	4,144.66	4,123.66	4,123.66	49.32	70.99	100.04	-5,431.33	3,242.58	6,438.07	6,318.77	119.30	53.967		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,200.22	4,199.78	50.71	72.32	100.48	-5,431.33	3,242.58	6,453.07	6,331.17	121.90	52.936		
5,100.00	4,296.91	4,275.91	4,275.91	52.11	73.64	100.92	-5,431.33	3,242.58	6,468.69	6,344.20	124.49	51.963		
5,200.00	4,373.03	4,352.03	4,352.03	53.51	74.97	101.35	-5,431.33	3,242.58	6,484.91	6,357.85	127.07	51.035		
5,300.00	4,449.16	4,428.16	4,428.16	54.90	76.30	101.78	-5,431.33	3,242.58	6,501.75	6,372.11	129.64	50.152		
5,400.00	4,525.29	4,504.29	4,504.29	56.30	77.63	102.21	-5,431.33	3,242.58	6,519.18	6,386.98	132.20	49.311		
5,500.00	4,601.41	4,580.41	4,580.41	57.70	78.96	102.64	-5,431.33	3,242.58	6,537.22	6,402.46	134.76	48.511		
5,600.00	4,677.54	4,656.54	4,656.54	59.10	80.29	103.07	-5,431.33	3,242.58	6,555.84	6,418.54	137.30	47.747		
5,700.00	4,753.66	4,732.66	4,732.66	60.49	81.61	103.50	-5,431.33	3,242.58	6,575.05	6,435.22	139.84	47.020		
5,800.00	4,829.79	4,808.79	4,808.79	61.89	82.94	103.93	-5,431.33	3,242.58	6,594.85	6,452.49	142.36	46.325		
5,900.00	4,905.92	4,884.92	4,884.92	63.29	84.27	104.35	-5,431.33	3,242.58	6,615.22	6,470.34	144.87	45.662		
6,000.00	4,982.04	4,961.04	4,961.04	64.69	85.60	104.77	-5,431.33	3,242.58	6,636.16	6,488.78	147.38	45.028		
6,100.00	5,058.17	5,037.17	5,037.17	66.09	86.93	105.19	-5,431.33	3,242.58	6,657.66	6,507.79	149.87	44.423		
6,200.00	5,134.30	5,113.30	5,113.30	67.49	88.26	105.61	-5,431.33	3,242.58	6,679.73	6,527.38	152.35	43.844		
6,300.00	5,210.42	5,189.42	5,189.42	68.89	89.59	106.03	-5,431.33	3,242.58	6,702.35	6,547.53	154.82	43.290		
6,400.00	5,286.55	5,265.55	5,265.55	70.29	90.92	106.45	-5,431.33	3,242.58	6,725.52	6,568.24	157.29	42.760		
6,500.00	5,362.67	5,341.67	5,341.67	71.69	92.24	106.86	-5,431.33	3,242.58	6,749.24	6,589.50	159.74	42.253		
6,600.00	5,438.80	5,417.80	5,417.80	73.09	93.57	107.27	-5,431.33	3,242.58	6,773.49	6,611.31	162.17	41.767		
6,700.00	5,514.93	5,506.07	5,493.93	74.49	95.11	107.68	-5,431.33	3,242.58	6,798.27	6,633.46	164.81	41.248		
6,800.00	5,591.05	5,570.05	5,570.05	75.89	96.23	108.09	-5,431.33	3,242.58	6,823.58	6,656.56	167.02	40.855		
6,900.00	5,667.18	5,646.18	5,646.18	77.29	97.56	108.50	-5,431.33	3,242.58	6,849.41	6,679.99	169.42	40.428		
7,000.00	5,743.30	5,722.30	5,722.30	78.69	98.89	108.90	-5,431.33	3,242.58	6,875.76	6,703.94	171.82	40.017		
7,100.00	5,819.43	5,801.57	5,798.43	80.09	100.27	109.30	-5,431.33	3,242.58	6,902.61	6,728.35	174.26	39.612		
7,200.00	5,895.56	5,874.56	5,874.56	81.49	101.54	109.71	-5,431.33	3,242.58	6,929.97	6,753.39	176.57	39.247		
7,300.00	5,971.68	5,950.68	5,950.68	82.90	102.87	110.10	-5,431.33	3,242.58	6,957.82	6,778.88	178.94	38.884		
7,400.00	6,047.81	6,026.81	6,026.81	84.30	104.20	110.50	-5,431.33	3,242.58	6,986.16	6,804.88	181.29	38.537		
7,500.00	6,123.94	6,102.94	6,102.94	85.70	105.53	110.90	-5,431.33	3,242.58	7,014.99	6,831.37	183.63	38.203		
7,600.00	6,200.06	6,179.06	6,179.06	87.10	106.86	111.29	-5,431.33	3,242.58	7,044.30	6,858.35	185.95	37.882		
7,700.00	6,276.19	6,255.19	6,255.19	88.50	108.19	111.68	-5,431.33	3,242.58	7,074.08	6,885.81	188.27	37.574		
7,800.00	6,352.31	6,331.31	6,331.31	89.90	109.52	112.07	-5,431.33	3,242.58	7,104.33	6,913.75	190.58	37.278		
7,900.00	6,428.44	6,407.44	6,407.44	91.31	110.84	112.45	-5,431.33	3,242.58	7,135.04	6,942.16	192.87	36.994		
8,000.00	6,504.57	6,483.57	6,483.57	92.71	112.17	112.84	-5,431.33	3,242.58	7,166.20	6,971.04	195.16	36.720		
8,100.00	6,580.69	6,559.69	6,559.69	94.11	113.50	113.22	-5,431.33	3,242.58	7,197.81	7,000.38	197.43	36.458		
8,200.00	6,656.82	6,635.82	6,635.82	95.51	114.83	113.60	-5,431.33	3,242.58	7,229.87	7,030.18	199.69	36.205		
8,300.00	6,732.95	6,711.95	6,711.95	96.91	116.16	113.98	-5,431.33	3,242.58	7,262.36	7,060.42	201.94	35.962		
8,400.00	6,809.07	6,788.07	6,788.07	98.32	117.49	114.35	-5,431.33	3,242.58	7,295.29	7,091.10	204.19	35.729		
8,500.00	6,885.20	6,864.20	6,864.20	99.72	118.82	114.73	-5,431.33	3,242.58	7,328.64	7,122.22	206.42	35.504		
8,600.00	6,961.32	6,940.32	6,940.32	101.12	120.15	115.10	-5,431.33	3,242.58	7,362.41	7,153.77	208.64	35.288		
8,700.00	7,037.45	7,016.45	7,016.45	102.52	121.47	115.47	-5,431.33	3,242.58	7,396.60	7,185.75	210.85	35.080		
8,732.15	7,061.92	7,040.92	7,040.92	102.97	121.90	115.58	-5,431.33	3,242.58	7,407.68	7,196.12	211.56	35.015		
8,750.00	7,075.57	7,054.57	7,054.57	103.22	122.14	113.55	-5,431.33	3,242.58	7,413.59	7,201.63	211.95	34.978		
8,800.00	7,114.27	7,106.73	7,093.27	103.91	123.05	107.60	-5,431.33	3,242.58	7,427.41	7,214.09	213.31	34.819		
8,850.00	7,153.47	7,132.47	7,132.47	104.58	123.50	101.40	-5,431.33	3,242.58	7,437.14	7,222.91	214.23	34.716		
8,900.00	7,192.85	7,171.85	7,171.85	105.21	124.19	95.13	-5,431.33	3,242.58	7,442.72	7,227.33	215.39	34.555		
8,950.00	7,232.12	7,211.12	7,211.12	105.80	124.87	88.98	-5,431.33	3,242.58	7,444.11	7,227.57	216.54	34.377		
9,000.00	7,270.99	7,249.99	7,249.99	106.35	125.55	83.16	-5,431.33	3,242.58	7,441.31	7,223.62	217.69	34.183		
9,050.00	7,309.16	7,288.16	7,288.16	106.85	126.22	77.82	-5,431.33	3,242.58	7,434.34	7,215.54	218.81	33.976		
9,100.00	7,346.32	7,325.32	7,325.32	107.30	126.86	73.05	-5,431.33	3,242.58	7,423.27	7,203.37	219.89	33.758		
9,150.00	7,382.22	7,361.22	7,361.22	107.69	127.49	68.92	-5,431.33	3,242.58	7,408.16	7,187.22	220.93	33.531		
9,200.00	7,416.56	7,404.44	7,395.56	108.02	128.25	65.43	-5,431.33	3,242.58	7,389.13	7,167.06	222.08	33.273		
9,250.00	7,449.09	7,428.09	7,428.09	108.29	128.66	62.58	-5,431.33	3,242.58	7,366.33	7,143.48	222.85	33.055		
9,300.00	7,479.56	7,458.56	7,458.56	108.51	129.19	60.36	-5,431.33	3,242.58	7,339.91	7,116.20	223.71	32.809		
9,350.00	7,507.74	7,486.74	7,486.74	108.68	129.68	58.74	-5,431.33	3,242.58	7,310.07	7,085.57	224.50	32.561		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	7,512.41	7,512.41	108.79	130.13	57.72	-5,431.33	3,242.58	7,277.02	7,051.80	225.22	32.311		
9,450.00	7,556.39	7,535.39	7,535.39	108.86	130.53	57.35	-5,431.33	3,242.58	7,240.99	7,015.14	225.85	32.061		
9,500.00	7,576.48	7,555.48	7,555.48	108.88	130.88	57.67	-5,431.33	3,242.58	7,202.25	6,975.85	226.41	31.811		
9,550.00	7,593.55	7,572.55	7,572.55	108.86	131.18	58.84	-5,431.33	3,242.58	7,161.08	6,934.20	226.88	31.564		
9,600.00	7,607.46	7,586.46	7,586.46	108.80	131.42	61.07	-5,431.33	3,242.58	7,117.76	6,890.50	227.26	31.320		
9,650.00	7,618.11	7,602.89	7,597.11	108.71	131.71	64.81	-5,431.33	3,242.58	7,072.62	6,844.96	227.67	31.066		
9,700.00	7,625.41	7,604.41	7,604.41	108.59	131.74	70.85	-5,431.33	3,242.58	7,025.98	6,798.19	227.79	30.845		
9,750.00	7,629.30	7,608.30	7,608.30	108.45	131.80	80.67	-5,431.33	3,242.58	6,978.17	6,750.24	227.93	30.616		
9,781.81	7,630.00	7,609.00	7,609.00	108.35	131.82	90.00	-5,431.33	3,242.58	6,947.32	6,719.34	227.98	30.474		
9,800.00	7,630.00	7,609.00	7,609.00	108.29	131.82	90.00	-5,431.33	3,242.58	6,929.59	6,701.59	228.00	30.393		
9,900.00	7,630.00	7,609.00	7,609.00	107.97	131.82	90.00	-5,431.33	3,242.58	6,832.21	6,604.10	228.11	29.952		
10,000.00	7,630.00	7,609.00	7,609.00	107.67	131.82	90.00	-5,431.33	3,242.58	6,734.90	6,506.69	228.22	29.511		
10,100.00	7,630.00	7,609.00	7,609.00	107.38	131.82	90.00	-5,431.33	3,242.58	6,637.68	6,409.35	228.33	29.070		
10,200.00	7,630.00	7,609.00	7,609.00	107.10	131.82	90.00	-5,431.33	3,242.58	6,540.54	6,312.08	228.45	28.630		
10,300.00	7,630.00	7,609.00	7,609.00	106.84	131.82	90.00	-5,431.33	3,242.58	6,443.48	6,214.91	228.58	28.190		
10,400.00	7,630.00	7,609.00	7,609.00	106.59	131.82	90.00	-5,431.33	3,242.58	6,346.52	6,117.82	228.70	27.750		
10,500.00	7,630.00	7,609.00	7,609.00	106.35	131.82	90.00	-5,431.33	3,242.58	6,249.65	6,020.82	228.84	27.311		
10,600.00	7,630.00	7,609.00	7,609.00	106.13	131.82	90.00	-5,431.33	3,242.58	6,152.89	5,923.91	228.97	26.872		
10,700.00	7,630.00	7,609.00	7,609.00	105.92	131.82	90.00	-5,431.33	3,242.58	6,056.22	5,827.11	229.11	26.433		
10,800.00	7,630.00	7,609.00	7,609.00	105.72	131.82	90.00	-5,431.33	3,242.58	5,959.67	5,730.41	229.26	25.995		
10,900.00	7,630.00	7,609.00	7,609.00	105.54	131.82	90.00	-5,431.33	3,242.58	5,863.24	5,633.83	229.41	25.558		
11,000.00	7,630.00	7,609.00	7,609.00	105.37	131.82	90.00	-5,431.33	3,242.58	5,766.92	5,537.35	229.57	25.121		
11,100.00	7,630.00	7,609.00	7,609.00	105.21	131.82	90.00	-5,431.33	3,242.58	5,670.74	5,441.00	229.73	24.684		
11,200.00	7,630.00	7,609.00	7,609.00	105.06	131.82	90.00	-5,431.33	3,242.58	5,574.68	5,344.78	229.90	24.248		
11,300.00	7,630.00	7,609.00	7,609.00	104.93	131.82	90.00	-5,431.33	3,242.58	5,478.77	5,248.70	230.08	23.813		
11,400.00	7,630.00	7,609.00	7,609.00	104.82	131.82	90.00	-5,431.33	3,242.58	5,383.01	5,152.75	230.26	23.378		
11,500.00	7,630.00	7,609.00	7,609.00	104.72	131.82	90.00	-5,431.33	3,242.58	5,287.40	5,056.96	230.45	22.944		
11,600.00	7,630.00	7,609.00	7,609.00	104.63	131.82	90.00	-5,431.33	3,242.58	5,191.96	4,961.32	230.64	22.511		
11,700.00	7,630.00	7,609.00	7,609.00	104.55	131.82	90.00	-5,431.33	3,242.58	5,096.70	4,865.85	230.85	22.078		
11,800.00	7,630.00	7,609.00	7,609.00	104.50	131.82	90.00	-5,431.33	3,242.58	5,001.62	4,770.56	231.06	21.647		
11,900.00	7,630.00	7,609.00	7,609.00	104.45	131.82	90.00	-5,431.33	3,242.58	4,906.73	4,675.46	231.28	21.216		
12,000.00	7,630.00	7,609.00	7,609.00	104.43	131.82	90.00	-5,431.33	3,242.58	4,812.06	4,580.55	231.50	20.786		
12,100.00	7,630.00	7,609.00	7,609.00	104.42	131.82	90.00	-5,431.33	3,242.58	4,717.60	4,485.85	231.74	20.357		
12,200.00	7,630.00	7,609.00	7,609.00	104.42	131.82	90.00	-5,431.33	3,242.58	4,623.37	4,391.38	231.99	19.929		
12,300.00	7,630.00	7,609.00	7,609.00	104.45	131.82	90.00	-5,431.33	3,242.58	4,529.39	4,297.15	232.25	19.503		
12,400.00	7,630.00	7,609.00	7,609.00	104.49	131.82	90.00	-5,431.33	3,242.58	4,435.68	4,203.17	232.51	19.077		
12,500.00	7,630.00	7,609.00	7,609.00	104.55	131.82	90.00	-5,431.33	3,242.58	4,342.25	4,109.45	232.79	18.653		
12,600.00	7,630.00	7,609.00	7,609.00	104.63	131.82	90.00	-5,431.33	3,242.58	4,249.11	4,016.03	233.08	18.230		
12,700.00	7,630.00	7,609.00	7,609.00	104.73	131.82	90.00	-5,431.33	3,242.58	4,156.30	3,922.91	233.39	17.809		
12,800.00	7,630.00	7,609.00	7,609.00	104.85	131.82	90.00	-5,431.33	3,242.58	4,063.82	3,830.12	233.70	17.389		
12,900.00	7,630.00	7,609.00	7,609.00	104.99	131.82	90.00	-5,431.33	3,242.58	3,971.71	3,737.68	234.03	16.971		
13,000.00	7,630.00	7,609.00	7,609.00	105.15	131.82	90.00	-5,431.33	3,242.58	3,879.99	3,645.62	234.38	16.555		
13,100.00	7,630.00	7,609.00	7,609.00	105.34	131.82	90.00	-5,431.33	3,242.58	3,788.69	3,553.96	234.74	16.140		
13,200.00	7,630.00	7,609.00	7,609.00	105.56	131.82	90.00	-5,431.33	3,242.58	3,697.84	3,462.73	235.11	15.728		
13,300.00	7,630.00	7,609.00	7,609.00	105.80	131.82	90.00	-5,431.33	3,242.58	3,607.48	3,371.98	235.50	15.318		
13,400.00	7,630.00	7,609.00	7,609.00	106.06	131.82	90.00	-5,431.33	3,242.58	3,517.63	3,281.72	235.91	14.911		
13,500.00	7,630.00	7,609.00	7,609.00	106.36	131.82	90.00	-5,431.33	3,242.58	3,428.35	3,192.01	236.34	14.506		
13,600.00	7,630.00	7,609.00	7,609.00	106.68	131.82	90.00	-5,431.33	3,242.58	3,339.68	3,102.89	236.78	14.104		
13,700.00	7,630.00	7,609.00	7,609.00	107.03	131.82	90.00	-5,431.33	3,242.58	3,251.66	3,014.41	237.25	13.706		
13,800.00	7,630.00	7,609.00	7,609.00	107.42	131.82	90.00	-5,431.33	3,242.58	3,164.35	2,926.62	237.73	13.310		
13,900.00	7,630.00	7,609.00	7,609.00	107.83	131.82	90.00	-5,431.33	3,242.58	3,077.82	2,839.58	238.24	12.919		
14,000.00	7,630.00	7,609.00	7,609.00	108.28	131.82	90.00	-5,431.33	3,242.58	2,992.13	2,753.36	238.77	12.531		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	7,609.00	7,609.00	108.77	131.82	90.00	-5,431.33	3,242.58	2,907.35	2,668.03	239.32	12.148		
14,200.00	7,630.00	7,609.00	7,609.00	109.29	131.82	90.00	-5,431.33	3,242.58	2,823.56	2,583.67	239.89	11.770		
14,300.00	7,630.00	7,609.00	7,609.00	109.84	131.82	90.00	-5,431.33	3,242.58	2,740.87	2,500.39	240.48	11.397		
14,400.00	7,630.00	7,609.00	7,609.00	110.43	131.82	90.00	-5,431.33	3,242.58	2,659.36	2,418.27	241.10	11.030		
14,500.00	7,630.00	7,609.00	7,609.00	111.06	131.82	90.00	-5,431.33	3,242.58	2,579.16	2,337.43	241.73	10.669		
14,600.00	7,630.00	7,609.00	7,609.00	111.72	131.82	90.00	-5,431.33	3,242.58	2,500.38	2,258.00	242.39	10.316		
14,700.00	7,630.00	7,609.00	7,609.00	112.42	131.82	90.00	-5,431.33	3,242.58	2,423.17	2,180.12	243.05	9.970		
14,800.00	7,630.00	7,609.00	7,609.00	113.16	131.82	90.00	-5,431.33	3,242.58	2,347.68	2,103.94	243.74	9.632		
14,900.00	7,630.00	7,609.00	7,609.00	113.94	131.82	90.00	-5,431.33	3,242.58	2,274.08	2,029.65	244.43	9.304		
15,000.00	7,630.00	7,609.00	7,609.00	114.75	131.82	90.00	-5,431.33	3,242.58	2,202.57	1,957.45	245.12	8.986		
15,100.00	7,630.00	7,609.00	7,609.00	115.60	131.82	90.00	-5,431.33	3,242.58	2,133.34	1,887.53	245.81	8.679		
15,200.00	7,630.00	7,609.00	7,609.00	116.48	131.82	90.00	-5,431.33	3,242.58	2,066.64	1,820.16	246.48	8.385		
15,300.00	7,630.00	7,609.00	7,609.00	117.40	131.82	90.00	-5,431.33	3,242.58	2,002.71	1,755.58	247.12	8.104		
15,400.00	7,630.00	7,609.00	7,609.00	118.35	131.82	90.00	-5,431.33	3,242.58	1,941.83	1,694.10	247.73	7.839		
15,500.00	7,630.00	7,609.00	7,609.00	119.34	131.82	90.00	-5,431.33	3,242.58	1,884.29	1,636.01	248.27	7.590		
15,600.00	7,630.00	7,609.00	7,609.00	120.35	131.82	90.00	-5,431.33	3,242.58	1,830.40	1,581.66	248.74	7.359		
15,700.00	7,630.00	7,609.00	7,609.00	121.40	131.82	90.00	-5,431.33	3,242.58	1,780.51	1,531.40	249.11	7.148		
15,800.00	7,630.00	7,609.00	7,609.00	122.48	131.82	90.00	-5,431.33	3,242.58	1,734.96	1,485.60	249.35	6.958		
15,900.00	7,630.00	7,609.00	7,609.00	123.58	131.82	90.00	-5,431.33	3,242.58	1,694.08	1,444.64	249.45	6.791		
16,000.00	7,630.00	7,609.00	7,609.00	124.71	131.82	90.00	-5,431.33	3,242.58	1,658.24	1,408.87	249.37	6.650		
16,100.00	7,630.00	7,609.00	7,609.00	125.87	131.82	90.00	-5,431.33	3,242.58	1,627.76	1,378.66	249.10	6.535		
16,200.00	7,630.00	7,609.00	7,609.00	127.05	131.82	90.00	-5,431.33	3,242.58	1,602.95	1,354.34	248.62	6.447		
16,300.00	7,630.00	7,609.00	7,609.00	128.26	131.82	90.00	-5,431.33	3,242.58	1,584.08	1,336.17	247.91	6.390		
16,400.00	7,630.00	7,609.00	7,609.00	129.48	131.82	90.00	-5,431.33	3,242.58	1,571.36	1,324.37	246.98	6.362 SF		
16,500.00	7,630.00	7,609.00	7,609.00	130.73	131.82	90.00	-5,431.33	3,242.58	1,564.93	1,319.10	245.83	6.366		
16,550.76	7,630.00	7,609.00	7,609.00	131.37	131.82	90.00	-5,431.33	3,242.58	1,564.11	1,318.94	245.17	6.380 CC, ES		
16,600.00	7,630.00	7,609.00	7,609.00	132.00	131.82	90.00	-5,431.33	3,242.58	1,564.88	1,320.40	244.48	6.401		
16,700.00	7,630.00	7,609.00	7,609.00	133.29	131.82	90.00	-5,431.33	3,242.58	1,571.21	1,328.26	242.95	6.467		
16,800.00	7,630.00	7,609.00	7,609.00	134.59	131.82	90.00	-5,431.33	3,242.58	1,583.84	1,342.56	241.28	6.564		
16,900.00	7,630.00	7,609.00	7,609.00	135.91	131.82	90.00	-5,431.33	3,242.58	1,602.62	1,363.11	239.51	6.691		
17,000.00	7,630.00	7,609.00	7,609.00	137.25	131.82	90.00	-5,431.33	3,242.58	1,627.34	1,389.66	237.68	6.847		
17,100.00	7,630.00	7,609.00	7,609.00	138.61	131.82	90.00	-5,431.33	3,242.58	1,657.74	1,421.91	235.83	7.029		
17,200.00	7,630.00	7,609.00	7,609.00	139.97	131.82	90.00	-5,431.33	3,242.58	1,693.50	1,459.50	234.00	7.237		
17,300.00	7,630.00	7,609.00	7,609.00	141.36	131.82	90.00	-5,431.33	3,242.58	1,734.30	1,502.08	232.22	7.468		
17,400.00	7,630.00	7,609.00	7,609.00	142.75	131.82	90.00	-5,431.33	3,242.58	1,779.78	1,549.27	230.51	7.721		
17,500.00	7,630.00	7,609.00	7,609.00	144.16	131.82	90.00	-5,431.33	3,242.58	1,829.61	1,600.71	228.91	7.993		
17,600.00	7,630.00	7,609.00	7,609.00	145.58	131.82	90.00	-5,431.33	3,242.58	1,883.44	1,656.03	227.41	8.282		
17,700.00	7,630.00	7,609.00	7,609.00	147.01	131.82	90.00	-5,431.33	3,242.58	1,940.92	1,714.89	226.03	8.587		
17,800.00	7,630.00	7,609.00	7,609.00	148.45	131.82	90.00	-5,431.33	3,242.58	2,001.75	1,776.98	224.77	8.906		
17,900.00	7,630.00	7,609.00	7,609.00	149.91	131.82	90.00	-5,431.33	3,242.58	2,065.64	1,842.00	223.64	9.237		
18,000.00	7,630.00	7,609.00	7,609.00	151.37	131.82	90.00	-5,431.33	3,242.58	2,132.30	1,909.69	222.62	9.578		
18,100.00	7,630.00	7,609.00	7,609.00	152.84	131.82	90.00	-5,431.33	3,242.58	2,201.49	1,979.78	221.71	9.930		
18,200.00	7,630.00	7,609.00	7,609.00	154.32	131.82	90.00	-5,431.33	3,242.58	2,272.97	2,052.07	220.90	10.290		
18,300.00	7,630.00	7,609.00	7,609.00	155.81	131.82	90.00	-5,431.33	3,242.58	2,346.54	2,126.35	220.19	10.657		
18,400.00	7,630.00	7,609.00	7,609.00	157.31	131.82	90.00	-5,431.33	3,242.58	2,422.00	2,202.43	219.57	11.031		
18,500.00	7,630.00	7,609.00	7,609.00	158.81	131.82	90.00	-5,431.33	3,242.58	2,499.19	2,280.16	219.03	11.410		
18,600.00	7,630.00	7,609.00	7,609.00	160.32	131.82	90.00	-5,431.33	3,242.58	2,577.95	2,359.39	218.56	11.795		
18,700.00	7,630.00	7,609.00	7,609.00	161.84	131.82	90.00	-5,431.33	3,242.58	2,658.13	2,439.98	218.15	12.185		
18,800.00	7,630.00	7,609.00	7,609.00	163.37	131.82	90.00	-5,431.33	3,242.58	2,739.62	2,521.81	217.81	12.578		
18,900.00	7,630.00	7,609.00	7,609.00	164.90	131.82	90.00	-5,431.33	3,242.58	2,822.29	2,604.79	217.51	12.976		
19,000.00	7,630.00	7,609.00	7,609.00	166.43	131.82	90.00	-5,431.33	3,242.58	2,906.06	2,688.80	217.26	13.376		
19,100.00	7,630.00	7,609.00	7,609.00	167.98	131.82	90.00	-5,431.33	3,242.58	2,990.83	2,773.78	217.05	13.780		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	7,609.00	7,609.00	169.53	131.82	90.00	-5,431.33	3,242.58	3,076.51	2,859.63	216.87	14.186	
19,300.00	7,630.00	7,609.00	7,609.00	171.08	131.82	90.00	-5,431.33	3,242.58	3,163.03	2,946.30	216.73	14.595	
19,400.00	7,630.00	7,609.00	7,609.00	172.64	131.82	90.00	-5,431.33	3,242.58	3,250.32	3,033.71	216.61	15.005	
19,500.00	7,630.00	7,609.00	7,609.00	174.21	131.82	90.00	-5,431.33	3,242.58	3,338.33	3,121.81	216.52	15.418	
19,518.56	7,630.00	7,609.00	7,609.00	174.50	131.82	90.00	-5,431.33	3,242.58	3,354.74	3,138.23	216.50	15.495	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.46	-5,559.12	5,664.04	7,936.41					
100.00	100.00	62.00	62.00	0.13	0.51	134.46	-5,559.12	5,664.04	7,936.32	7,935.67	0.65	N/A		
200.00	200.00	162.00	162.00	0.49	1.91	134.46	-5,559.12	5,664.04	7,936.32	7,933.91	2.40	3,301.249		
300.00	300.00	262.00	262.00	0.85	3.66	134.46	-5,559.12	5,664.04	7,936.32	7,931.81	4.51	1,760.561		
400.00	400.00	362.00	362.00	1.21	5.40	134.46	-5,559.12	5,664.04	7,936.32	7,929.71	6.61	1,200.356		
500.00	499.98	461.98	461.98	1.56	7.15	67.76	-5,559.12	5,664.04	7,935.66	7,926.95	8.71	911.046		
600.00	599.84	561.84	561.84	1.92	8.89	67.84	-5,559.12	5,664.04	7,933.68	7,922.87	10.81	734.074		
700.00	699.45	661.45	661.45	2.29	10.63	67.95	-5,559.12	5,664.04	7,930.39	7,917.48	12.91	614.303		
800.00	798.70	760.70	760.70	2.67	12.36	68.12	-5,559.12	5,664.04	7,925.80	7,910.78	15.02	527.748		
900.00	897.47	859.47	859.47	3.07	14.08	68.33	-5,559.12	5,664.04	7,919.93	7,902.80	17.14	462.166		
1,000.00	995.62	957.62	957.62	3.50	15.80	68.59	-5,559.12	5,664.04	7,912.82	7,893.55	19.27	410.668		
1,100.00	1,093.06	1,055.06	1,055.06	3.96	17.50	68.90	-5,559.12	5,664.04	7,904.48	7,883.06	21.42	369.084		
1,200.00	1,189.64	1,151.64	1,151.64	4.46	19.18	69.25	-5,559.12	5,664.04	7,894.95	7,871.36	23.58	334.747		
1,300.00	1,285.27	1,247.27	1,247.27	5.00	20.85	69.64	-5,559.12	5,664.04	7,884.27	7,858.50	25.78	305.871		
1,400.00	1,379.82	1,341.82	1,341.82	5.60	22.50	70.07	-5,559.12	5,664.04	7,872.50	7,844.50	27.99	281.218		
1,500.00	1,473.17	1,435.17	1,435.17	6.25	24.13	70.55	-5,559.12	5,664.04	7,859.67	7,829.43	30.24	259.902		
1,600.00	1,565.21	1,527.21	1,527.21	6.95	25.74	71.06	-5,559.12	5,664.04	7,845.85	7,813.33	32.52	241.272		
1,700.00	1,655.84	1,617.84	1,617.84	7.72	27.32	71.61	-5,559.12	5,664.04	7,831.09	7,796.26	34.83	224.841		
1,800.00	1,744.94	1,706.94	1,706.94	8.55	28.88	72.20	-5,559.12	5,664.04	7,815.45	7,778.28	37.18	210.234		
1,900.00	1,832.39	1,805.61	1,794.39	9.45	30.60	72.82	-5,559.12	5,664.04	7,799.02	7,759.27	39.75	196.191		
2,000.00	1,918.11	1,880.11	1,880.11	10.41	31.90	73.47	-5,559.12	5,664.04	7,781.85	7,739.88	41.98	185.392		
2,100.00	2,001.97	1,963.97	1,963.97	11.45	33.36	74.14	-5,559.12	5,664.04	7,764.03	7,719.60	44.43	174.743		
2,200.00	2,083.88	2,045.88	2,045.88	12.56	34.79	74.84	-5,559.12	5,664.04	7,745.63	7,698.70	46.93	165.063		
2,300.00	2,163.74	2,125.74	2,125.74	13.74	36.18	75.57	-5,559.12	5,664.04	7,726.73	7,677.27	49.46	156.230		
2,400.00	2,241.45	2,203.45	2,203.45	14.99	37.54	76.31	-5,559.12	5,664.04	7,707.43	7,655.40	52.03	148.143		
2,421.22	2,257.65	2,219.65	2,219.65	15.26	37.82	76.47	-5,559.12	5,664.04	7,703.28	7,650.71	52.58	146.516		
2,500.00	2,317.63	2,279.63	2,279.63	16.29	38.87	76.75	-5,559.12	5,664.04	7,688.04	7,633.41	54.63	140.736		
2,600.00	2,393.75	2,355.75	2,355.75	17.62	40.20	77.12	-5,559.12	5,664.04	7,669.13	7,611.88	57.25	133.958		
2,700.00	2,469.88	2,431.88	2,431.88	18.95	41.53	77.48	-5,559.12	5,664.04	7,650.72	7,590.83	59.89	127.746		
2,800.00	2,546.01	2,508.01	2,508.01	20.30	42.86	77.85	-5,559.12	5,664.04	7,632.83	7,570.28	62.54	122.038		
2,900.00	2,622.13	2,584.13	2,584.13	21.65	44.19	78.22	-5,559.12	5,664.04	7,615.44	7,550.23	65.21	116.779		
3,000.00	2,698.26	2,660.26	2,660.26	23.01	45.51	78.59	-5,559.12	5,664.04	7,598.56	7,530.67	67.89	111.923		
3,100.00	2,774.38	2,736.38	2,736.38	24.37	46.84	78.96	-5,559.12	5,664.04	7,582.21	7,511.63	70.58	107.428		
3,200.00	2,850.51	2,812.51	2,812.51	25.74	48.17	79.33	-5,559.12	5,664.04	7,566.37	7,493.09	73.28	103.258		
3,300.00	2,926.64	2,888.64	2,888.64	27.11	49.50	79.70	-5,559.12	5,664.04	7,551.06	7,475.07	75.98	99.380		
3,400.00	3,002.76	2,964.76	2,964.76	28.49	50.83	80.08	-5,559.12	5,664.04	7,536.27	7,457.58	78.69	95.767		
3,500.00	3,078.89	3,040.89	3,040.89	29.87	52.16	80.45	-5,559.12	5,664.04	7,522.01	7,440.60	81.41	92.394		
3,600.00	3,155.02	3,117.02	3,117.02	31.25	53.49	80.83	-5,559.12	5,664.04	7,508.29	7,424.15	84.14	89.240		
3,700.00	3,231.14	3,206.86	3,193.14	32.63	55.05	81.20	-5,559.12	5,664.04	7,495.10	7,408.00	87.10	86.047		
3,800.00	3,307.27	3,269.27	3,269.27	34.01	56.14	81.58	-5,559.12	5,664.04	7,482.45	7,392.85	89.60	83.510		
3,900.00	3,383.39	3,345.39	3,345.39	35.40	57.47	81.96	-5,559.12	5,664.04	7,470.35	7,378.01	92.34	80.903		
4,000.00	3,459.52	3,421.52	3,421.52	36.79	58.80	82.33	-5,559.12	5,664.04	7,458.78	7,363.70	95.08	78.449		
4,100.00	3,535.65	3,502.35	3,497.65	38.18	60.21	82.71	-5,559.12	5,664.04	7,447.77	7,349.86	97.91	76.071		
4,200.00	3,611.77	3,573.77	3,573.77	39.57	61.46	83.09	-5,559.12	5,664.04	7,437.30	7,336.73	100.57	73.951		
4,300.00	3,687.90	3,649.90	3,649.90	40.96	62.79	83.47	-5,559.12	5,664.04	7,427.38	7,324.06	103.32	71.887		
4,400.00	3,764.02	3,726.02	3,726.02	42.35	64.12	83.85	-5,559.12	5,664.04	7,418.02	7,311.95	106.07	69.934		
4,500.00	3,840.15	3,802.15	3,802.15	43.74	65.44	84.23	-5,559.12	5,664.04	7,409.21	7,300.39	108.83	68.084		
4,600.00	3,916.28	3,878.28	3,878.28	45.13	66.77	84.61	-5,559.12	5,664.04	7,400.96	7,289.38	111.58	66.329		
4,700.00	3,992.40	3,954.40	3,954.40	46.53	68.10	85.00	-5,559.12	5,664.04	7,393.27	7,278.94	114.33	64.664		
4,800.00	4,068.53	4,030.53	4,030.53	47.92	69.43	85.38	-5,559.12	5,664.04	7,386.14	7,269.05	117.09	63.081		
4,900.00	4,144.66	4,106.66	4,106.66	49.32	70.76	85.76	-5,559.12	5,664.04	7,379.58	7,259.73	119.85	61.576		
5,000.00	4,220.78	4,182.78	4,182.78	50.71	72.09	86.14	-5,559.12	5,664.04	7,373.58	7,250.98	122.60	60.143		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,258.91	4,258.91	52.11	73.42	86.53	-5,559.12	5,664.04	7,368.14	7,242.79	125.36	58.778		
5,200.00	4,373.03	4,335.03	4,335.03	53.51	74.74	86.91	-5,559.12	5,664.04	7,363.27	7,235.16	128.11	57.476		
5,300.00	4,449.16	4,411.16	4,411.16	54.90	76.07	87.30	-5,559.12	5,664.04	7,358.97	7,228.11	130.86	56.235		
5,400.00	4,525.29	4,487.29	4,487.29	56.30	77.40	87.68	-5,559.12	5,664.04	7,355.24	7,221.63	133.61	55.049		
5,500.00	4,601.41	4,563.41	4,563.41	57.70	78.73	88.06	-5,559.12	5,664.04	7,352.08	7,215.72	136.36	53.916		
5,600.00	4,677.54	4,639.54	4,639.54	59.10	80.06	88.45	-5,559.12	5,664.04	7,349.49	7,210.39	139.11	52.833		
5,700.00	4,753.66	4,715.66	4,715.66	60.49	81.39	88.83	-5,559.12	5,664.04	7,347.47	7,205.62	141.85	51.797		
5,800.00	4,829.79	4,808.21	4,791.79	61.89	83.00	89.22	-5,559.12	5,664.04	7,346.03	7,201.15	144.88	50.705		
5,900.00	4,905.92	4,867.92	4,867.92	63.29	84.04	89.60	-5,559.12	5,664.04	7,345.15	7,197.82	147.33	49.856		
6,000.00	4,982.04	4,944.04	4,944.04	64.69	85.37	89.99	-5,559.12	5,664.04	7,344.85	7,194.79	150.06	48.945		
6,002.79	4,984.16	4,946.16	4,946.16	64.73	85.41	90.00	-5,559.12	5,664.04	7,344.85	7,194.71	150.14	48.921		
6,100.00	5,058.17	5,020.17	5,020.17	66.09	86.70	90.37	-5,559.12	5,664.04	7,345.12	7,192.33	152.79	48.073		
6,200.00	5,134.30	5,103.70	5,096.30	67.49	88.16	90.76	-5,559.12	5,664.04	7,345.96	7,190.32	155.65	47.196		
6,300.00	5,210.42	5,172.42	5,172.42	68.89	89.36	91.14	-5,559.12	5,664.04	7,347.38	7,189.14	158.24	46.432		
6,400.00	5,286.55	5,248.55	5,248.55	70.29	90.69	91.53	-5,559.12	5,664.04	7,349.36	7,188.41	160.95	45.661		
6,500.00	5,362.67	5,324.67	5,324.67	71.69	92.02	91.91	-5,559.12	5,664.04	7,351.92	7,188.26	163.66	44.921		
6,600.00	5,438.80	5,400.80	5,400.80	73.09	93.35	92.30	-5,559.12	5,664.04	7,355.05	7,188.68	166.37	44.209		
6,700.00	5,514.93	5,425.00	5,425.00	74.49	93.77	92.42	-5,559.12	5,664.04	7,358.93	7,190.78	168.15	43.763		
6,800.00	5,591.05	5,425.00	5,425.00	75.89	93.77	92.42	-5,559.12	5,664.04	7,364.13	7,194.64	169.49	43.449		
6,900.00	5,667.18	5,425.00	5,425.00	77.29	93.77	92.42	-5,559.12	5,664.04	7,370.68	7,199.88	170.80	43.154		
7,000.00	5,743.30	5,425.00	5,425.00	78.69	93.77	92.42	-5,559.12	5,664.04	7,378.59	7,206.50	172.09	42.877		
7,100.00	5,819.43	5,425.00	5,425.00	80.09	93.77	92.42	-5,559.12	5,664.04	7,387.83	7,214.49	173.34	42.619		
7,200.00	5,895.56	5,425.00	5,425.00	81.49	93.77	92.42	-5,559.12	5,664.04	7,398.42	7,223.84	174.58	42.379		
7,300.00	5,971.68	5,425.00	5,425.00	82.90	93.77	92.42	-5,559.12	5,664.04	7,410.34	7,234.56	175.78	42.157		
7,400.00	6,047.81	5,425.00	5,425.00	84.30	93.77	92.42	-5,559.12	5,664.04	7,423.59	7,246.63	176.96	41.951		
7,500.00	6,123.94	5,425.00	5,425.00	85.70	93.77	92.42	-5,559.12	5,664.04	7,438.16	7,260.05	178.11	41.763		
7,600.00	6,200.06	5,425.00	5,425.00	87.10	93.77	92.42	-5,559.12	5,664.04	7,454.04	7,274.82	179.23	41.590		
7,700.00	6,276.19	5,425.00	5,425.00	88.50	93.77	92.42	-5,559.12	5,664.04	7,471.23	7,290.91	180.32	41.434		
7,800.00	6,352.31	5,425.00	5,425.00	89.90	93.77	92.42	-5,559.12	5,664.04	7,489.72	7,308.33	181.38	41.293		
7,900.00	6,428.44	5,425.00	5,425.00	91.31	93.77	92.42	-5,559.12	5,664.04	7,509.49	7,327.07	182.42	41.167		
8,000.00	6,504.57	5,425.00	5,425.00	92.71	93.77	92.42	-5,559.12	5,664.04	7,530.53	7,347.11	183.42	41.056		
8,100.00	6,580.69	5,425.00	5,425.00	94.11	93.77	92.42	-5,559.12	5,664.04	7,552.84	7,368.45	184.40	40.959		
8,200.00	6,656.82	5,425.00	5,425.00	95.51	93.77	92.42	-5,559.12	5,664.04	7,576.41	7,391.06	185.35	40.877		
8,300.00	6,732.95	5,425.00	5,425.00	96.91	93.77	92.42	-5,559.12	5,664.04	7,601.22	7,414.95	186.27	40.808		
8,400.00	6,809.07	5,425.00	5,425.00	98.32	93.77	92.42	-5,559.12	5,664.04	7,627.26	7,440.10	187.16	40.753		
8,500.00	6,885.20	5,425.00	5,425.00	99.72	93.77	92.42	-5,559.12	5,664.04	7,654.52	7,466.50	188.02	40.712		
8,600.00	6,961.32	5,425.00	5,425.00	101.12	93.77	92.42	-5,559.12	5,664.04	7,682.98	7,494.13	188.85	40.683		
8,700.00	7,037.45	5,425.00	5,425.00	102.52	93.77	92.42	-5,559.12	5,664.04	7,712.63	7,522.97	189.66	40.666		
8,732.15	7,061.92	5,425.00	5,425.00	102.97	93.77	92.42	-5,559.12	5,664.04	7,722.42	7,532.51	189.91	40.663		
8,750.00	7,075.57	5,425.00	5,425.00	103.22	93.77	90.55	-5,559.12	5,664.04	7,727.65	7,537.60	190.05	40.661		
8,800.00	7,114.27	5,425.00	5,425.00	103.91	93.77	84.94	-5,559.12	5,664.04	7,739.75	7,549.32	190.43	40.643		
8,850.00	7,153.47	5,425.00	5,425.00	104.58	93.77	78.90	-5,559.12	5,664.04	7,748.05	7,557.25	190.80	40.609		
8,900.00	7,192.85	5,425.00	5,425.00	105.21	93.77	72.63	-5,559.12	5,664.04	7,752.49	7,561.34	191.14	40.559		
8,950.00	7,232.12	5,425.00	5,425.00	105.80	93.77	66.33	-5,559.12	5,664.04	7,753.04	7,561.58	191.46	40.495		
9,000.00	7,270.99	5,425.00	5,425.00	106.35	93.77	60.19	-5,559.12	5,664.04	7,749.71	7,557.96	191.74	40.417		
9,050.00	7,309.16	5,425.00	5,425.00	106.85	93.77	54.37	-5,559.12	5,664.04	7,742.50	7,550.51	191.99	40.328		
9,100.00	7,346.32	5,425.00	5,425.00	107.30	93.77	48.95	-5,559.12	5,664.04	7,731.48	7,539.28	192.20	40.227		
9,150.00	7,382.22	5,425.00	5,425.00	107.69	93.77	43.96	-5,559.12	5,664.04	7,716.70	7,524.33	192.36	40.115		
9,200.00	7,416.56	5,425.00	5,425.00	108.02	93.77	39.40	-5,559.12	5,664.04	7,698.25	7,505.76	192.49	39.993		
9,250.00	7,449.09	5,425.00	5,425.00	108.29	93.77	35.20	-5,559.12	5,664.04	7,676.25	7,483.69	192.57	39.862		
9,300.00	7,479.56	5,425.00	5,425.00	108.51	93.77	31.32	-5,559.12	5,664.04	7,650.85	7,458.24	192.61	39.722		
9,350.00	7,507.74	5,425.00	5,425.00	108.68	93.77	27.64	-5,559.12	5,664.04	7,622.18	7,429.57	192.61	39.573		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,425.00	5,425.00	108.79	93.77	24.09	-5,559.12	5,664.04	7,590.45	7,397.88	192.58	39.416		
9,450.00	7,556.39	5,425.00	5,425.00	108.86	93.77	20.52	-5,559.12	5,664.04	7,555.86	7,363.35	192.51	39.250		
9,500.00	7,576.48	5,425.00	5,425.00	108.88	93.77	16.81	-5,559.12	5,664.04	7,518.62	7,326.21	192.41	39.076		
9,550.00	7,593.55	5,425.00	5,425.00	108.86	93.77	12.75	-5,559.12	5,664.04	7,478.99	7,286.71	192.29	38.895		
9,600.00	7,607.46	5,425.00	5,425.00	108.80	93.77	8.08	-5,559.12	5,664.04	7,437.23	7,245.09	192.14	38.707		
9,650.00	7,618.11	5,425.00	5,425.00	108.71	93.77	2.42	-5,559.12	5,664.04	7,393.63	7,201.65	191.99	38.511		
9,700.00	7,625.41	5,425.00	5,425.00	108.59	93.77	-4.74	-5,559.12	5,664.04	7,348.49	7,156.68	191.82	38.310		
9,750.00	7,629.30	5,425.00	5,425.00	108.45	93.77	-14.13	-5,559.12	5,664.04	7,302.13	7,110.48	191.65	38.102		
9,781.81	7,630.00	5,425.00	5,425.00	108.35	93.77	-21.60	-5,559.12	5,664.04	7,272.15	7,080.62	191.54	37.967		
9,800.00	7,630.00	5,425.00	5,425.00	108.29	93.77	-21.60	-5,559.12	5,664.04	7,254.92	7,063.44	191.48	37.889		
9,900.00	7,630.00	5,425.00	5,425.00	107.97	93.77	-21.60	-5,559.12	5,664.04	7,160.29	6,969.17	191.13	37.464		
10,000.00	7,630.00	5,425.00	5,425.00	107.67	93.77	-21.60	-5,559.12	5,664.04	7,065.81	6,875.05	190.77	37.039		
10,100.00	7,630.00	5,425.00	5,425.00	107.38	93.77	-21.60	-5,559.12	5,664.04	6,971.49	6,781.09	190.40	36.616		
10,200.00	7,630.00	5,425.00	5,425.00	107.10	93.77	-21.60	-5,559.12	5,664.04	6,877.32	6,687.31	190.01	36.194		
10,300.00	7,630.00	5,425.00	5,425.00	106.84	93.77	-21.60	-5,559.12	5,664.04	6,783.32	6,593.70	189.62	35.773		
10,400.00	7,630.00	5,425.00	5,425.00	106.59	93.77	-21.60	-5,559.12	5,664.04	6,689.50	6,500.29	189.21	35.354		
10,500.00	7,630.00	5,425.00	5,425.00	106.35	93.77	-21.60	-5,559.12	5,664.04	6,595.86	6,407.06	188.79	34.937		
10,600.00	7,630.00	5,425.00	5,425.00	106.13	93.77	-21.60	-5,559.12	5,664.04	6,502.40	6,314.04	188.36	34.521		
10,700.00	7,630.00	5,425.00	5,425.00	105.92	93.77	-21.60	-5,559.12	5,664.04	6,409.15	6,221.23	187.91	34.107		
10,800.00	7,630.00	5,425.00	5,425.00	105.72	93.77	-21.60	-5,559.12	5,664.04	6,316.10	6,128.65	187.45	33.694		
10,900.00	7,630.00	5,425.00	5,425.00	105.54	93.77	-21.60	-5,559.12	5,664.04	6,223.26	6,036.29	186.98	33.284		
11,000.00	7,630.00	5,425.00	5,425.00	105.37	93.77	-21.60	-5,559.12	5,664.04	6,130.66	5,944.17	186.48	32.875		
11,100.00	7,630.00	5,425.00	5,425.00	105.21	93.77	-21.60	-5,559.12	5,664.04	6,038.28	5,852.31	185.97	32.469		
11,200.00	7,630.00	5,425.00	5,425.00	105.06	93.77	-21.60	-5,559.12	5,664.04	5,946.16	5,760.72	185.44	32.065		
11,300.00	7,630.00	5,425.00	5,425.00	104.93	93.77	-21.60	-5,559.12	5,664.04	5,854.29	5,669.39	184.90	31.663		
11,400.00	7,630.00	5,425.00	5,425.00	104.82	93.77	-21.60	-5,559.12	5,664.04	5,762.69	5,578.36	184.33	31.263		
11,500.00	7,630.00	5,425.00	5,425.00	104.72	93.77	-21.60	-5,559.12	5,664.04	5,671.38	5,487.64	183.74	30.866		
11,600.00	7,630.00	5,425.00	5,425.00	104.63	93.77	-21.60	-5,559.12	5,664.04	5,580.37	5,397.23	183.13	30.471		
11,700.00	7,630.00	5,425.00	5,425.00	104.55	93.77	-21.60	-5,559.12	5,664.04	5,489.66	5,307.16	182.50	30.080		
11,800.00	7,630.00	5,425.00	5,425.00	104.50	93.77	-21.60	-5,559.12	5,664.04	5,399.29	5,217.44	181.85	29.691		
11,900.00	7,630.00	5,425.00	5,425.00	104.45	93.77	-21.60	-5,559.12	5,664.04	5,309.26	5,128.09	181.17	29.305		
12,000.00	7,630.00	5,425.00	5,425.00	104.43	93.77	-21.60	-5,559.12	5,664.04	5,219.60	5,039.13	180.47	28.922		
12,100.00	7,630.00	5,425.00	5,425.00	104.42	93.77	-21.60	-5,559.12	5,664.04	5,130.31	4,950.57	179.74	28.543		
12,200.00	7,630.00	5,425.00	5,425.00	104.42	93.77	-21.60	-5,559.12	5,664.04	5,041.43	4,862.45	178.98	28.167		
12,300.00	7,630.00	5,425.00	5,425.00	104.45	93.77	-21.60	-5,559.12	5,664.04	4,952.97	4,774.78	178.19	27.796		
12,400.00	7,630.00	5,425.00	5,425.00	104.49	93.77	-21.60	-5,559.12	5,664.04	4,864.96	4,687.59	177.37	27.428		
12,500.00	7,630.00	5,425.00	5,425.00	104.55	93.77	-21.60	-5,559.12	5,664.04	4,777.42	4,600.90	176.52	27.064		
12,600.00	7,630.00	5,425.00	5,425.00	104.63	93.77	-21.60	-5,559.12	5,664.04	4,690.38	4,514.74	175.64	26.704		
12,700.00	7,630.00	5,425.00	5,425.00	104.73	93.77	-21.60	-5,559.12	5,664.04	4,603.87	4,429.15	174.72	26.350		
12,800.00	7,630.00	5,425.00	5,425.00	104.85	93.77	-21.60	-5,559.12	5,664.04	4,517.91	4,344.15	173.77	26.000		
12,900.00	7,630.00	5,425.00	5,425.00	104.99	93.77	-21.60	-5,559.12	5,664.04	4,432.55	4,259.77	172.78	25.655		
13,000.00	7,630.00	5,425.00	5,425.00	105.15	93.77	-21.60	-5,559.12	5,664.04	4,347.80	4,176.06	171.74	25.315		
13,100.00	7,630.00	5,425.00	5,425.00	105.34	93.77	-21.60	-5,559.12	5,664.04	4,263.72	4,093.05	170.67	24.982		
13,200.00	7,630.00	5,425.00	5,425.00	105.56	93.77	-21.60	-5,559.12	5,664.04	4,180.34	4,010.78	169.56	24.654		
13,300.00	7,630.00	5,425.00	5,425.00	105.80	93.77	-21.60	-5,559.12	5,664.04	4,097.70	3,929.30	168.40	24.333		
13,400.00	7,630.00	5,425.00	5,425.00	106.06	93.77	-21.60	-5,559.12	5,664.04	4,015.86	3,848.65	167.20	24.018		
13,500.00	7,630.00	5,425.00	5,425.00	106.36	93.77	-21.60	-5,559.12	5,664.04	3,934.85	3,768.89	165.96	23.710		
13,600.00	7,630.00	5,425.00	5,425.00	106.68	93.77	-21.60	-5,559.12	5,664.04	3,854.73	3,690.07	164.66	23.410		
13,700.00	7,630.00	5,425.00	5,425.00	107.03	93.77	-21.60	-5,559.12	5,664.04	3,775.56	3,612.24	163.32	23.117		
13,800.00	7,630.00	5,425.00	5,425.00	107.42	93.77	-21.60	-5,559.12	5,664.04	3,697.40	3,535.46	161.94	22.832		
13,900.00	7,630.00	5,425.00	5,425.00	107.83	93.77	-21.60	-5,559.12	5,664.04	3,620.32	3,459.81	160.50	22.556		
14,000.00	7,630.00	5,425.00	5,425.00	108.28	93.77	-21.60	-5,559.12	5,664.04	3,544.38	3,385.35	159.03	22.288		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,425.00	5,425.00	108.77	93.77	-21.60	-5,559.12	5,664.04	3,469.66	3,312.16	157.50	22.029		
14,200.00	7,630.00	5,425.00	5,425.00	109.29	93.77	-21.60	-5,559.12	5,664.04	3,396.24	3,240.31	155.94	21.780		
14,300.00	7,630.00	5,425.00	5,425.00	109.84	93.77	-21.60	-5,559.12	5,664.04	3,324.21	3,169.88	154.33	21.540		
14,400.00	7,630.00	5,425.00	5,425.00	110.43	93.77	-21.60	-5,559.12	5,664.04	3,253.66	3,100.97	152.69	21.309		
14,500.00	7,630.00	5,425.00	5,425.00	111.06	93.77	-21.60	-5,559.12	5,664.04	3,184.69	3,033.67	151.02	21.088		
14,600.00	7,630.00	5,425.00	5,425.00	111.72	93.77	-21.60	-5,559.12	5,664.04	3,117.40	2,968.08	149.32	20.877		
14,700.00	7,630.00	5,425.00	5,425.00	112.42	93.77	-21.60	-5,559.12	5,664.04	3,051.90	2,904.29	147.61	20.676		
14,800.00	7,630.00	5,425.00	5,425.00	113.16	93.77	-21.60	-5,559.12	5,664.04	2,988.31	2,842.43	145.88	20.484		
14,900.00	7,630.00	5,425.00	5,425.00	113.94	93.77	-21.60	-5,559.12	5,664.04	2,926.76	2,782.59	144.17	20.301		
15,000.00	7,630.00	5,425.00	5,425.00	114.75	93.77	-21.60	-5,559.12	5,664.04	2,867.38	2,724.91	142.47	20.126		
15,100.00	7,630.00	5,425.00	5,425.00	115.60	93.77	-21.60	-5,559.12	5,664.04	2,810.30	2,669.49	140.80	19.959		
15,200.00	7,630.00	5,425.00	5,425.00	116.48	93.77	-21.60	-5,559.12	5,664.04	2,755.67	2,616.48	139.19	19.798		
15,300.00	7,630.00	5,425.00	5,425.00	117.40	93.77	-21.60	-5,559.12	5,664.04	2,703.63	2,565.99	137.64	19.643		
15,400.00	7,630.00	5,425.00	5,425.00	118.35	93.77	-21.60	-5,559.12	5,664.04	2,654.34	2,518.16	136.18	19.491		
15,500.00	7,630.00	5,425.00	5,425.00	119.34	93.77	-21.60	-5,559.12	5,664.04	2,607.96	2,473.13	134.84	19.342		
15,600.00	7,630.00	5,425.00	5,425.00	120.35	93.77	-21.60	-5,559.12	5,664.04	2,564.64	2,431.01	133.63	19.192		
15,700.00	7,630.00	5,425.00	5,425.00	121.40	93.77	-21.60	-5,559.12	5,664.04	2,524.54	2,391.96	132.58	19.041		
15,800.00	7,630.00	5,425.00	5,425.00	122.48	93.77	-21.60	-5,559.12	5,664.04	2,487.82	2,356.09	131.73	18.886		
15,900.00	7,630.00	5,425.00	5,425.00	123.58	93.77	-21.60	-5,559.12	5,664.04	2,454.62	2,323.53	131.09	18.724		
16,000.00	7,630.00	5,425.00	5,425.00	124.71	93.77	-21.60	-5,559.12	5,664.04	2,425.09	2,294.38	130.71	18.553		
16,100.00	7,630.00	5,425.00	5,425.00	125.87	93.77	-21.60	-5,559.12	5,664.04	2,399.38	2,268.76	130.62	18.370		
16,200.00	7,630.00	5,425.00	5,425.00	127.05	93.77	-21.60	-5,559.12	5,664.04	2,377.59	2,246.75	130.83	18.173		
16,300.00	7,630.00	5,425.00	5,425.00	128.26	93.77	-21.60	-5,559.12	5,664.04	2,359.84	2,228.44	131.40	17.959		
16,400.00	7,630.00	5,425.00	5,425.00	129.48	93.77	-21.60	-5,559.12	5,664.04	2,346.22	2,213.89	132.34	17.729		
16,500.00	7,630.00	5,425.00	5,425.00	130.73	93.77	-21.60	-5,559.12	5,664.04	2,336.81	2,203.14	133.67	17.481		
16,600.00	7,630.00	5,425.00	5,425.00	132.00	93.77	-21.60	-5,559.12	5,664.04	2,331.66	2,196.24	135.41	17.219		
16,670.39	7,630.00	5,425.00	5,425.00	132.90	93.77	-21.60	-5,559.12	5,664.04	2,330.59	2,193.72	136.87	17.027 CC		
16,700.00	7,630.00	5,425.00	5,425.00	133.29	93.77	-21.60	-5,559.12	5,664.04	2,330.78	2,193.23	137.55	16.945 ES		
16,800.00	7,630.00	5,425.00	5,425.00	134.59	93.77	-21.60	-5,559.12	5,664.04	2,334.19	2,194.14	140.06	16.666		
16,900.00	7,630.00	5,425.00	5,425.00	135.91	93.77	-21.60	-5,559.12	5,664.04	2,341.88	2,198.97	142.91	16.388		
17,000.00	7,630.00	5,425.00	5,425.00	137.25	93.77	-21.60	-5,559.12	5,664.04	2,353.79	2,207.75	146.04	16.118		
17,100.00	7,630.00	5,425.00	5,425.00	138.61	93.77	-21.60	-5,559.12	5,664.04	2,369.86	2,220.47	149.39	15.864		
17,200.00	7,630.00	5,425.00	5,425.00	139.97	93.77	-21.60	-5,559.12	5,664.04	2,390.01	2,237.12	152.90	15.632		
17,300.00	7,630.00	5,425.00	5,425.00	141.36	93.77	-21.60	-5,559.12	5,664.04	2,414.14	2,257.64	156.50	15.426		
17,400.00	7,630.00	5,425.00	5,425.00	142.75	93.77	-21.60	-5,559.12	5,664.04	2,442.13	2,282.00	160.13	15.251		
17,500.00	7,630.00	5,425.00	5,425.00	144.16	93.77	-21.60	-5,559.12	5,664.04	2,473.85	2,310.10	163.75	15.107		
17,600.00	7,630.00	5,425.00	5,425.00	145.58	93.77	-21.60	-5,559.12	5,664.04	2,509.15	2,341.84	167.31	14.997		
17,700.00	7,630.00	5,425.00	5,425.00	147.01	93.77	-21.60	-5,559.12	5,664.04	2,547.89	2,377.12	170.77	14.920		
17,800.00	7,630.00	5,425.00	5,425.00	148.45	93.77	-21.60	-5,559.12	5,664.04	2,589.92	2,415.81	174.11	14.875		
17,900.00	7,630.00	5,425.00	5,425.00	149.91	93.77	-21.60	-5,559.12	5,664.04	2,635.07	2,457.76	177.31	14.861 SF		
18,000.00	7,630.00	5,425.00	5,425.00	151.37	93.77	-21.60	-5,559.12	5,664.04	2,683.19	2,502.84	180.35	14.877		
18,100.00	7,630.00	5,425.00	5,425.00	152.84	93.77	-21.60	-5,559.12	5,664.04	2,734.13	2,550.90	183.23	14.922		
18,200.00	7,630.00	5,425.00	5,425.00	154.32	93.77	-21.60	-5,559.12	5,664.04	2,787.72	2,601.77	185.95	14.992		
18,300.00	7,630.00	5,425.00	5,425.00	155.81	93.77	-21.60	-5,559.12	5,664.04	2,843.82	2,655.33	188.49	15.087		
18,400.00	7,630.00	5,425.00	5,425.00	157.31	93.77	-21.60	-5,559.12	5,664.04	2,902.28	2,711.41	190.87	15.205		
18,500.00	7,630.00	5,425.00	5,425.00	158.81	93.77	-21.60	-5,559.12	5,664.04	2,962.96	2,769.87	193.09	15.345		
18,600.00	7,630.00	5,425.00	5,425.00	160.32	93.77	-21.60	-5,559.12	5,664.04	3,025.73	2,830.58	195.16	15.504		
18,700.00	7,630.00	5,425.00	5,425.00	161.84	93.77	-21.60	-5,559.12	5,664.04	3,090.47	2,893.39	197.08	15.682		
18,800.00	7,630.00	5,425.00	5,425.00	163.37	93.77	-21.60	-5,559.12	5,664.04	3,157.04	2,958.19	198.85	15.876		
18,900.00	7,630.00	5,425.00	5,425.00	164.90	93.77	-21.60	-5,559.12	5,664.04	3,225.34	3,024.84	200.50	16.086		
19,000.00	7,630.00	5,425.00	5,425.00	166.43	93.77	-21.60	-5,559.12	5,664.04	3,295.26	3,093.24	202.02	16.311		
19,100.00	7,630.00	5,425.00	5,425.00	167.98	93.77	-21.60	-5,559.12	5,664.04	3,366.70	3,163.27	203.43	16.550		

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,630.00	5,425.00	5,425.00	169.53	93.77	-21.60	-5,559.12	5,664.04	3,439.56	3,234.84	204.73	16.801	
19,300.00	7,630.00	5,425.00	5,425.00	171.08	93.77	-21.60	-5,559.12	5,664.04	3,513.76	3,307.84	205.93	17.063	
19,400.00	7,630.00	5,425.00	5,425.00	172.64	93.77	-21.60	-5,559.12	5,664.04	3,589.21	3,382.18	207.03	17.336	
19,500.00	7,630.00	5,425.00	5,425.00	174.21	93.77	-21.60	-5,559.12	5,664.04	3,665.84	3,457.79	208.05	17.620	
19,518.56	7,630.00	5,425.00	5,425.00	174.50	93.77	-21.60	-5,559.12	5,664.04	3,680.19	3,471.95	208.23	17.673	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.28	-4,237.02	4,344.42	6,068.57					
100.00	100.00	66.00	66.00	0.13	0.52	134.28	-4,237.02	4,344.42	6,068.47	6,067.82	0.65	9,296.204		
200.00	200.00	166.00	166.00	0.49	1.94	134.28	-4,237.02	4,344.42	6,068.47	6,066.04	2.43	2,497.093		
300.00	300.00	266.00	266.00	0.85	3.68	134.28	-4,237.02	4,344.42	6,068.47	6,063.94	4.53	1,338.432		
400.00	400.00	366.00	366.00	1.21	5.43	134.28	-4,237.02	4,344.42	6,068.47	6,061.83	6.64	914.227		
500.00	499.98	465.98	465.98	1.56	7.17	67.59	-4,237.02	4,344.42	6,067.81	6,059.07	8.74	694.522		
600.00	599.84	565.84	565.84	1.92	8.92	67.67	-4,237.02	4,344.42	6,065.81	6,054.98	10.83	559.891		
700.00	699.45	665.45	665.45	2.29	10.65	67.81	-4,237.02	4,344.42	6,062.50	6,049.56	12.94	468.663		
800.00	798.70	764.70	764.70	2.67	12.39	68.00	-4,237.02	4,344.42	6,057.88	6,042.84	15.04	402.670		
900.00	897.47	863.47	863.47	3.07	14.11	68.24	-4,237.02	4,344.42	6,051.99	6,034.83	17.16	352.626		
1,000.00	995.62	961.62	961.62	3.50	15.82	68.54	-4,237.02	4,344.42	6,044.85	6,025.56	19.29	313.298		
1,100.00	1,093.06	1,059.06	1,059.06	3.96	17.52	68.89	-4,237.02	4,344.42	6,036.50	6,015.06	21.44	281.519		
1,200.00	1,189.64	1,155.64	1,155.64	4.46	19.21	69.29	-4,237.02	4,344.42	6,026.98	6,003.37	23.61	255.259		
1,300.00	1,285.27	1,251.27	1,251.27	5.00	20.88	69.74	-4,237.02	4,344.42	6,016.34	5,990.54	25.80	233.162		
1,400.00	1,379.82	1,345.82	1,345.82	5.60	22.53	70.24	-4,237.02	4,344.42	6,004.64	5,976.62	28.02	214.283		
1,500.00	1,473.17	1,439.17	1,439.17	6.25	24.16	70.79	-4,237.02	4,344.42	5,991.94	5,961.67	30.27	197.950		
1,600.00	1,565.21	1,531.21	1,531.21	6.95	25.76	71.38	-4,237.02	4,344.42	5,978.31	5,945.76	32.55	183.666		
1,700.00	1,655.84	1,621.84	1,621.84	7.72	27.35	72.01	-4,237.02	4,344.42	5,963.82	5,928.95	34.86	171.061		
1,800.00	1,744.94	1,710.94	1,710.94	8.55	28.90	72.68	-4,237.02	4,344.42	5,948.54	5,911.33	37.21	159.851		
1,900.00	1,832.39	1,801.61	1,798.39	9.45	30.48	73.38	-4,237.02	4,344.42	5,932.57	5,892.92	39.66	149.602		
2,000.00	1,918.11	1,884.11	1,884.11	10.41	31.92	74.12	-4,237.02	4,344.42	5,915.99	5,873.97	42.02	140.774		
2,100.00	2,001.97	1,967.97	1,967.97	11.45	33.39	74.89	-4,237.02	4,344.42	5,898.90	5,854.41	44.49	132.592		
2,200.00	2,083.88	2,049.88	2,049.88	12.56	34.82	75.68	-4,237.02	4,344.42	5,881.39	5,834.40	46.99	125.155		
2,300.00	2,163.74	2,129.74	2,129.74	13.74	36.21	76.50	-4,237.02	4,344.42	5,863.57	5,814.03	49.54	118.369		
2,400.00	2,241.45	2,207.45	2,207.45	14.99	37.57	77.33	-4,237.02	4,344.42	5,845.53	5,793.41	52.12	112.157		
2,421.22	2,257.65	2,223.65	2,223.65	15.26	37.85	77.51	-4,237.02	4,344.42	5,841.69	5,789.02	52.67	110.907		
2,500.00	2,317.63	2,283.63	2,283.63	16.29	38.90	77.88	-4,237.02	4,344.42	5,827.62	5,772.88	54.73	106.470		
2,600.00	2,393.75	2,359.75	2,359.75	17.62	40.23	78.37	-4,237.02	4,344.42	5,810.36	5,752.98	57.37	101.272		
2,700.00	2,469.88	2,435.88	2,435.88	18.95	41.55	78.85	-4,237.02	4,344.42	5,793.77	5,733.74	60.03	96.514		
2,800.00	2,546.01	2,512.01	2,512.01	20.30	42.88	79.34	-4,237.02	4,344.42	5,777.86	5,715.16	62.70	92.147		
2,900.00	2,622.13	2,588.13	2,588.13	21.65	44.21	79.83	-4,237.02	4,344.42	5,762.64	5,697.25	65.39	88.131		
3,000.00	2,698.26	2,664.26	2,664.26	23.01	45.54	80.32	-4,237.02	4,344.42	5,748.10	5,680.02	68.08	84.427		
3,100.00	2,774.38	2,740.38	2,740.38	24.37	46.87	80.81	-4,237.02	4,344.42	5,734.27	5,663.48	70.79	81.004		
3,200.00	2,850.51	2,816.51	2,816.51	25.74	48.20	81.30	-4,237.02	4,344.42	5,721.14	5,647.63	73.50	77.834		
3,300.00	2,926.64	2,902.36	2,892.64	27.11	49.78	81.79	-4,237.02	4,344.42	5,708.71	5,632.23	76.48	74.640		
3,400.00	3,002.76	2,968.76	2,968.76	28.49	50.85	82.29	-4,237.02	4,344.42	5,696.99	5,618.04	78.95	72.155		
3,500.00	3,078.89	3,044.89	3,044.89	29.87	52.18	82.78	-4,237.02	4,344.42	5,685.99	5,604.30	81.69	69.606		
3,600.00	3,155.02	3,121.02	3,121.02	31.25	53.51	83.28	-4,237.02	4,344.42	5,675.71	5,591.28	84.43	67.227		
3,700.00	3,231.14	3,202.86	3,197.14	32.63	54.94	83.78	-4,237.02	4,344.42	5,666.15	5,578.89	87.27	64.928		
3,800.00	3,307.27	3,273.27	3,273.27	34.01	56.17	84.28	-4,237.02	4,344.42	5,657.32	5,567.41	89.91	62.920		
3,900.00	3,383.39	3,349.39	3,349.39	35.40	57.50	84.78	-4,237.02	4,344.42	5,649.22	5,556.56	92.66	60.968		
4,000.00	3,459.52	3,425.52	3,425.52	36.79	58.83	85.28	-4,237.02	4,344.42	5,641.86	5,546.45	95.41	59.134		
4,100.00	3,535.65	3,501.65	3,501.65	38.18	60.16	85.78	-4,237.02	4,344.42	5,635.23	5,537.07	98.16	57.411		
4,200.00	3,611.77	3,577.77	3,577.77	39.57	61.48	86.28	-4,237.02	4,344.42	5,629.34	5,528.43	100.91	55.788		
4,300.00	3,687.90	3,653.90	3,653.90	40.96	62.81	86.78	-4,237.02	4,344.42	5,624.19	5,520.53	103.65	54.259		
4,400.00	3,764.02	3,730.02	3,730.02	42.35	64.14	87.28	-4,237.02	4,344.42	5,619.78	5,513.38	106.40	52.817		
4,500.00	3,840.15	3,806.15	3,806.15	43.74	65.47	87.79	-4,237.02	4,344.42	5,616.12	5,506.97	109.15	51.455		
4,600.00	3,916.28	3,882.28	3,882.28	45.13	66.80	88.29	-4,237.02	4,344.42	5,613.21	5,501.32	111.89	50.167		
4,700.00	3,992.40	3,958.40	3,958.40	46.53	68.13	88.79	-4,237.02	4,344.42	5,611.04	5,496.41	114.63	48.949		
4,800.00	4,068.53	4,034.53	4,034.53	47.92	69.46	89.30	-4,237.02	4,344.42	5,609.63	5,492.26	117.37	47.796		
4,900.00	4,144.66	4,110.66	4,110.66	49.32	70.78	89.80	-4,237.02	4,344.42	5,608.96	5,488.86	120.10	46.703		
4,939.02	4,174.36	4,140.36	4,140.36	49.86	71.30	90.00	-4,237.02	4,344.42	5,608.90	5,487.74	121.16	46.292		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		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)						
5,000.00	4,220.78	4,186.78	4,186.78	50.71	72.11	90.31	-4,237.02	4,344.42	5,609.04	5,486.22	122.83	45.666		
5,100.00	4,296.91	4,262.91	4,262.91	52.11	73.44	90.81	-4,237.02	4,344.42	5,609.87	5,484.32	125.55	44.683		
5,200.00	4,373.03	4,339.03	4,339.03	53.51	74.77	91.32	-4,237.02	4,344.42	5,611.45	5,483.19	128.26	43.749		
5,300.00	4,449.16	4,415.16	4,415.16	54.90	76.10	91.82	-4,237.02	4,344.42	5,613.78	5,482.81	130.98	42.861		
5,400.00	4,525.29	4,508.71	4,491.29	56.30	77.73	92.32	-4,237.02	4,344.42	5,616.86	5,482.88	133.98	41.922		
5,500.00	4,601.41	4,567.41	4,567.41	57.70	78.76	92.83	-4,237.02	4,344.42	5,620.69	5,484.31	136.37	41.215		
5,600.00	4,677.54	4,643.54	4,643.54	59.10	80.09	93.33	-4,237.02	4,344.42	5,625.25	5,486.19	139.06	40.451		
5,700.00	4,753.66	4,719.66	4,719.66	60.49	81.41	93.83	-4,237.02	4,344.42	5,630.57	5,488.82	141.74	39.724		
5,800.00	4,829.79	4,804.21	4,795.79	61.89	82.89	94.33	-4,237.02	4,344.42	5,636.62	5,492.06	144.56	38.992		
5,900.00	4,905.92	4,871.92	4,871.92	63.29	84.07	94.83	-4,237.02	4,344.42	5,643.41	5,496.34	147.07	38.371		
6,000.00	4,982.04	4,948.04	4,948.04	64.69	85.40	95.33	-4,237.02	4,344.42	5,650.94	5,501.21	149.73	37.742		
6,100.00	5,058.17	5,024.17	5,024.17	66.09	86.73	95.83	-4,237.02	4,344.42	5,659.20	5,506.83	152.37	37.141		
6,200.00	5,134.30	5,100.30	5,100.30	67.49	88.06	96.33	-4,237.02	4,344.42	5,668.19	5,513.19	155.00	36.569		
6,300.00	5,210.42	5,176.42	5,176.42	68.89	89.39	96.83	-4,237.02	4,344.42	5,677.91	5,520.29	157.62	36.022		
6,400.00	5,286.55	5,252.55	5,252.55	70.29	90.71	97.33	-4,237.02	4,344.42	5,688.35	5,528.12	160.23	35.501		
6,500.00	5,362.67	5,328.67	5,328.67	71.69	92.04	97.82	-4,237.02	4,344.42	5,699.50	5,536.68	162.83	35.003		
6,600.00	5,438.80	5,404.80	5,404.80	73.09	93.37	98.32	-4,237.02	4,344.42	5,711.38	5,545.96	165.42	34.527		
6,700.00	5,514.93	5,450.00	5,450.00	74.49	94.16	98.61	-4,237.02	4,344.42	5,724.04	5,556.60	167.44	34.186		
6,800.00	5,591.05	5,450.00	5,450.00	75.89	94.16	98.61	-4,237.02	4,344.42	5,738.25	5,569.62	168.62	34.030		
6,900.00	5,667.18	5,450.00	5,450.00	77.29	94.16	98.61	-4,237.02	4,344.42	5,754.15	5,584.39	169.77	33.895		
7,000.00	5,743.30	5,450.00	5,450.00	78.69	94.16	98.61	-4,237.02	4,344.42	5,771.75	5,600.89	170.86	33.780		
7,100.00	5,819.43	5,450.00	5,450.00	80.09	94.16	98.61	-4,237.02	4,344.42	5,791.02	5,619.10	171.92	33.685		
7,200.00	5,895.56	5,450.00	5,450.00	81.49	94.16	98.61	-4,237.02	4,344.42	5,811.94	5,639.02	172.93	33.609		
7,300.00	5,971.68	5,450.00	5,450.00	82.90	94.16	98.61	-4,237.02	4,344.42	5,834.51	5,660.62	173.89	33.553		
7,400.00	6,047.81	5,450.00	5,450.00	84.30	94.16	98.61	-4,237.02	4,344.42	5,858.69	5,683.88	174.81	33.514		
7,500.00	6,123.94	5,450.00	5,450.00	85.70	94.16	98.61	-4,237.02	4,344.42	5,884.48	5,708.79	175.69	33.493		
7,600.00	6,200.06	5,450.00	5,450.00	87.10	94.16	98.61	-4,237.02	4,344.42	5,911.84	5,735.31	176.53	33.490		
7,700.00	6,276.19	5,450.00	5,450.00	88.50	94.16	98.61	-4,237.02	4,344.42	5,940.76	5,763.44	177.32	33.503		
7,800.00	6,352.31	5,450.00	5,450.00	89.90	94.16	98.61	-4,237.02	4,344.42	5,971.22	5,793.15	178.07	33.533		
7,900.00	6,428.44	5,450.00	5,450.00	91.31	94.16	98.61	-4,237.02	4,344.42	6,003.19	5,824.41	178.78	33.578		
8,000.00	6,504.57	5,450.00	5,450.00	92.71	94.16	98.61	-4,237.02	4,344.42	6,036.64	5,857.19	179.45	33.640		
8,100.00	6,580.69	5,450.00	5,450.00	94.11	94.16	98.61	-4,237.02	4,344.42	6,071.56	5,891.48	180.08	33.716		
8,200.00	6,656.82	5,450.00	5,450.00	95.51	94.16	98.61	-4,237.02	4,344.42	6,107.92	5,927.25	180.67	33.807		
8,300.00	6,732.95	5,450.00	5,450.00	96.91	94.16	98.61	-4,237.02	4,344.42	6,145.69	5,964.46	181.22	33.912		
8,400.00	6,809.07	5,450.00	5,450.00	98.32	94.16	98.61	-4,237.02	4,344.42	6,184.84	6,003.10	181.74	34.031		
8,500.00	6,885.20	5,450.00	5,450.00	99.72	94.16	98.61	-4,237.02	4,344.42	6,225.36	6,043.14	182.22	34.164		
8,600.00	6,961.32	5,450.00	5,450.00	101.12	94.16	98.61	-4,237.02	4,344.42	6,267.21	6,084.54	182.67	34.309		
8,700.00	7,037.45	5,450.00	5,450.00	102.52	94.16	98.61	-4,237.02	4,344.42	6,310.36	6,127.28	183.08	34.468		
8,732.15	7,061.92	5,450.00	5,450.00	102.97	94.16	98.61	-4,237.02	4,344.42	6,324.51	6,141.31	183.21	34.521		
8,750.00	7,075.57	5,450.00	5,450.00	103.22	94.16	96.73	-4,237.02	4,344.42	6,332.18	6,148.90	183.27	34.550		
8,800.00	7,114.27	5,450.00	5,450.00	103.91	94.16	91.12	-4,237.02	4,344.42	6,351.20	6,167.74	183.46	34.619		
8,850.00	7,153.47	5,450.00	5,450.00	104.58	94.16	85.11	-4,237.02	4,344.42	6,366.52	6,182.89	183.63	34.670		
8,900.00	7,192.85	5,450.00	5,450.00	105.21	94.16	78.91	-4,237.02	4,344.42	6,378.06	6,194.27	183.79	34.703		
8,950.00	7,232.12	5,450.00	5,450.00	105.80	94.16	72.71	-4,237.02	4,344.42	6,385.75	6,201.82	183.93	34.719		
9,000.00	7,270.99	5,450.00	5,450.00	106.35	94.16	66.72	-4,237.02	4,344.42	6,389.54	6,205.50	184.04	34.718		
9,050.00	7,309.16	5,450.00	5,450.00	106.85	94.16	61.09	-4,237.02	4,344.42	6,389.41	6,205.29	184.12	34.702		
9,100.00	7,346.32	5,450.00	5,450.00	107.30	94.16	55.91	-4,237.02	4,344.42	6,385.37	6,201.19	184.17	34.670		
9,150.00	7,382.22	5,450.00	5,450.00	107.69	94.16	51.22	-4,237.02	4,344.42	6,377.43	6,193.24	184.19	34.624		
9,200.00	7,416.56	5,450.00	5,450.00	108.02	94.16	47.03	-4,237.02	4,344.42	6,365.64	6,181.46	184.18	34.563		
9,250.00	7,449.09	5,450.00	5,450.00	108.29	94.16	43.29	-4,237.02	4,344.42	6,350.07	6,165.94	184.13	34.488		
9,300.00	7,479.56	5,450.00	5,450.00	108.51	94.16	39.96	-4,237.02	4,344.42	6,330.81	6,146.77	184.04	34.399		
9,350.00	7,507.74	5,450.00	5,450.00	108.68	94.16	36.98	-4,237.02	4,344.42	6,307.98	6,124.05	183.93	34.296		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,450.00	5,450.00	108.79	94.16	34.28	-4,237.02	4,344.42	6,281.70	6,097.92	183.79	34.179		
9,450.00	7,556.39	5,450.00	5,450.00	108.86	94.16	31.79	-4,237.02	4,344.42	6,252.15	6,068.53	183.62	34.049		
9,500.00	7,576.48	5,450.00	5,450.00	108.88	94.16	29.44	-4,237.02	4,344.42	6,219.49	6,036.06	183.44	33.906		
9,550.00	7,593.55	5,450.00	5,450.00	108.86	94.16	27.13	-4,237.02	4,344.42	6,183.93	6,000.70	183.23	33.749		
9,600.00	7,607.46	5,450.00	5,450.00	108.80	94.16	24.77	-4,237.02	4,344.42	6,145.70	5,962.68	183.02	33.579		
9,650.00	7,618.11	5,450.00	5,450.00	108.71	94.16	22.20	-4,237.02	4,344.42	6,105.03	5,922.23	182.80	33.397		
9,700.00	7,625.41	5,450.00	5,450.00	108.59	94.16	19.20	-4,237.02	4,344.42	6,062.19	5,879.60	182.59	33.201		
9,750.00	7,629.30	5,450.00	5,450.00	108.45	94.16	15.39	-4,237.02	4,344.42	6,017.46	5,835.09	182.38	32.994		
9,781.81	7,630.00	5,450.00	5,450.00	108.35	94.16	12.26	-4,237.02	4,344.42	5,988.17	5,805.92	182.25	32.856		
9,800.00	7,630.00	5,450.00	5,450.00	108.29	94.16	12.26	-4,237.02	4,344.42	5,971.25	5,789.06	182.18	32.776		
9,900.00	7,630.00	5,450.00	5,450.00	107.97	94.16	12.26	-4,237.02	4,344.42	5,878.37	5,696.59	181.78	32.338		
10,000.00	7,630.00	5,450.00	5,450.00	107.67	94.16	12.26	-4,237.02	4,344.42	5,785.73	5,604.37	181.36	31.902		
10,100.00	7,630.00	5,450.00	5,450.00	107.38	94.16	12.26	-4,237.02	4,344.42	5,693.34	5,512.42	180.92	31.469		
10,200.00	7,630.00	5,450.00	5,450.00	107.10	94.16	12.26	-4,237.02	4,344.42	5,601.21	5,420.75	180.46	31.038		
10,300.00	7,630.00	5,450.00	5,450.00	106.84	94.16	12.26	-4,237.02	4,344.42	5,509.36	5,329.37	179.99	30.610		
10,400.00	7,630.00	5,450.00	5,450.00	106.59	94.16	12.26	-4,237.02	4,344.42	5,417.79	5,238.31	179.49	30.185		
10,500.00	7,630.00	5,450.00	5,450.00	106.35	94.16	12.26	-4,237.02	4,344.42	5,326.53	5,147.57	178.96	29.763		
10,600.00	7,630.00	5,450.00	5,450.00	106.13	94.16	12.26	-4,237.02	4,344.42	5,235.59	5,057.17	178.41	29.345		
10,700.00	7,630.00	5,450.00	5,450.00	105.92	94.16	12.26	-4,237.02	4,344.42	5,144.98	4,967.14	177.84	28.930		
10,800.00	7,630.00	5,450.00	5,450.00	105.72	94.16	12.26	-4,237.02	4,344.42	5,054.73	4,877.49	177.24	28.519		
10,900.00	7,630.00	5,450.00	5,450.00	105.54	94.16	12.26	-4,237.02	4,344.42	4,964.85	4,788.24	176.61	28.112		
11,000.00	7,630.00	5,450.00	5,450.00	105.37	94.16	12.26	-4,237.02	4,344.42	4,875.36	4,699.42	175.95	27.709		
11,100.00	7,630.00	5,450.00	5,450.00	105.21	94.16	12.26	-4,237.02	4,344.42	4,786.30	4,611.04	175.25	27.311		
11,200.00	7,630.00	5,450.00	5,450.00	105.06	94.16	12.26	-4,237.02	4,344.42	4,697.67	4,523.14	174.52	26.917		
11,300.00	7,630.00	5,450.00	5,450.00	104.93	94.16	12.26	-4,237.02	4,344.42	4,609.50	4,435.75	173.75	26.529		
11,400.00	7,630.00	5,450.00	5,450.00	104.82	94.16	12.26	-4,237.02	4,344.42	4,521.83	4,348.89	172.95	26.146		
11,500.00	7,630.00	5,450.00	5,450.00	104.72	94.16	12.26	-4,237.02	4,344.42	4,434.68	4,262.59	172.09	25.769		
11,600.00	7,630.00	5,450.00	5,450.00	104.63	94.16	12.26	-4,237.02	4,344.42	4,348.09	4,176.89	171.20	25.398		
11,700.00	7,630.00	5,450.00	5,450.00	104.55	94.16	12.26	-4,237.02	4,344.42	4,262.08	4,091.83	170.25	25.034		
11,800.00	7,630.00	5,450.00	5,450.00	104.50	94.16	12.26	-4,237.02	4,344.42	4,176.69	4,007.44	169.25	24.677		
11,900.00	7,630.00	5,450.00	5,450.00	104.45	94.16	12.26	-4,237.02	4,344.42	4,091.97	3,923.77	168.20	24.328		
12,000.00	7,630.00	5,450.00	5,450.00	104.43	94.16	12.26	-4,237.02	4,344.42	4,007.95	3,840.86	167.09	23.987		
12,100.00	7,630.00	5,450.00	5,450.00	104.42	94.16	12.26	-4,237.02	4,344.42	3,924.68	3,758.77	165.91	23.655		
12,200.00	7,630.00	5,450.00	5,450.00	104.42	94.16	12.26	-4,237.02	4,344.42	3,842.21	3,677.54	164.67	23.333		
12,300.00	7,630.00	5,450.00	5,450.00	104.45	94.16	12.26	-4,237.02	4,344.42	3,760.59	3,597.23	163.36	23.021		
12,400.00	7,630.00	5,450.00	5,450.00	104.49	94.16	12.26	-4,237.02	4,344.42	3,679.87	3,517.91	161.97	22.720		
12,500.00	7,630.00	5,450.00	5,450.00	104.55	94.16	12.26	-4,237.02	4,344.42	3,600.13	3,439.63	160.50	22.431		
12,600.00	7,630.00	5,450.00	5,450.00	104.63	94.16	12.26	-4,237.02	4,344.42	3,521.42	3,362.47	158.94	22.155		
12,700.00	7,630.00	5,450.00	5,450.00	104.73	94.16	12.26	-4,237.02	4,344.42	3,443.81	3,286.51	157.30	21.894		
12,800.00	7,630.00	5,450.00	5,450.00	104.85	94.16	12.26	-4,237.02	4,344.42	3,367.38	3,211.83	155.56	21.647		
12,900.00	7,630.00	5,450.00	5,450.00	104.99	94.16	12.26	-4,237.02	4,344.42	3,292.22	3,138.51	153.71	21.418		
13,000.00	7,630.00	5,450.00	5,450.00	105.15	94.16	12.26	-4,237.02	4,344.42	3,218.41	3,066.65	151.77	21.206		
13,100.00	7,630.00	5,450.00	5,450.00	105.34	94.16	12.26	-4,237.02	4,344.42	3,146.05	2,996.34	149.71	21.014		
13,200.00	7,630.00	5,450.00	5,450.00	105.56	94.16	12.26	-4,237.02	4,344.42	3,075.24	2,927.70	147.54	20.844		
13,300.00	7,630.00	5,450.00	5,450.00	105.80	94.16	12.26	-4,237.02	4,344.42	3,006.08	2,860.83	145.25	20.696		
13,400.00	7,630.00	5,450.00	5,450.00	106.06	94.16	12.26	-4,237.02	4,344.42	2,938.70	2,795.86	142.84	20.573		
13,500.00	7,630.00	5,450.00	5,450.00	106.36	94.16	12.26	-4,237.02	4,344.42	2,873.23	2,732.92	140.31	20.478		
13,600.00	7,630.00	5,450.00	5,450.00	106.68	94.16	12.26	-4,237.02	4,344.42	2,809.78	2,672.13	137.65	20.412		
13,700.00	7,630.00	5,450.00	5,450.00	107.03	94.16	12.26	-4,237.02	4,344.42	2,748.51	2,613.64	134.88	20.378		
13,800.00	7,630.00	5,450.00	5,450.00	107.42	94.16	12.26	-4,237.02	4,344.42	2,689.57	2,557.58	131.99	20.378		
13,900.00	7,630.00	5,450.00	5,450.00	107.83	94.16	12.26	-4,237.02	4,344.42	2,633.10	2,504.12	128.99	20.414		
14,000.00	7,630.00	5,450.00	5,450.00	108.28	94.16	12.26	-4,237.02	4,344.42	2,579.28	2,453.39	125.89	20.488		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,450.00	5,450.00	108.77	94.16	12.26	-4,237.02	4,344.42	2,528.27	2,405.55	122.72	20.602		
14,200.00	7,630.00	5,450.00	5,450.00	109.29	94.16	12.26	-4,237.02	4,344.42	2,480.24	2,360.75	119.49	20.758		
14,300.00	7,630.00	5,450.00	5,450.00	109.84	94.16	12.26	-4,237.02	4,344.42	2,435.37	2,319.15	116.22	20.954		
14,400.00	7,630.00	5,450.00	5,450.00	110.43	94.16	12.26	-4,237.02	4,344.42	2,393.84	2,280.88	112.97	21.191		
14,500.00	7,630.00	5,450.00	5,450.00	111.06	94.16	12.26	-4,237.02	4,344.42	2,355.83	2,246.07	109.76	21.463		
14,600.00	7,630.00	5,450.00	5,450.00	111.72	94.16	12.26	-4,237.02	4,344.42	2,321.50	2,214.85	106.66	21.766		
14,700.00	7,630.00	5,450.00	5,450.00	112.42	94.16	12.26	-4,237.02	4,344.42	2,291.03	2,187.31	103.72	22.088		
14,800.00	7,630.00	5,450.00	5,450.00	113.16	94.16	12.26	-4,237.02	4,344.42	2,264.57	2,163.54	101.03	22.414		
14,900.00	7,630.00	5,450.00	5,450.00	113.94	94.16	12.26	-4,237.02	4,344.42	2,242.26	2,143.58	98.68	22.722		
15,000.00	7,630.00	5,450.00	5,450.00	114.75	94.16	12.26	-4,237.02	4,344.42	2,224.23	2,127.46	96.77	22.985		
15,100.00	7,630.00	5,450.00	5,450.00	115.60	94.16	12.26	-4,237.02	4,344.42	2,210.57	2,115.16	95.41	23.168		
15,200.00	7,630.00	5,450.00	5,450.00	116.48	94.16	12.26	-4,237.02	4,344.42	2,201.38	2,106.65	94.73	23.239		
15,300.00	7,630.00	5,450.00	5,450.00	117.40	94.16	12.26	-4,237.02	4,344.42	2,196.71	2,101.91	94.80	23.171		
15,352.75	7,630.00	5,450.00	5,450.00	117.90	94.16	12.26	-4,237.02	4,344.42	2,196.08	2,100.91	95.17	23.076 CC		
15,400.00	7,630.00	5,450.00	5,450.00	118.35	94.16	12.26	-4,237.02	4,344.42	2,196.58	2,100.90	95.69	22.956 ES		
15,500.00	7,630.00	5,450.00	5,450.00	119.34	94.16	12.26	-4,237.02	4,344.42	2,201.01	2,103.64	97.36	22.606		
15,600.00	7,630.00	5,450.00	5,450.00	120.35	94.16	12.26	-4,237.02	4,344.42	2,209.95	2,110.20	99.76	22.154		
15,700.00	7,630.00	5,450.00	5,450.00	121.40	94.16	12.26	-4,237.02	4,344.42	2,223.36	2,120.62	102.74	21.640		
15,800.00	7,630.00	5,450.00	5,450.00	122.48	94.16	12.26	-4,237.02	4,344.42	2,241.16	2,134.97	106.18	21.107		
15,900.00	7,630.00	5,450.00	5,450.00	123.58	94.16	12.26	-4,237.02	4,344.42	2,263.24	2,153.29	109.95	20.585		
16,000.00	7,630.00	5,450.00	5,450.00	124.71	94.16	12.26	-4,237.02	4,344.42	2,289.47	2,175.56	113.91	20.098		
16,100.00	7,630.00	5,450.00	5,450.00	125.87	94.16	12.26	-4,237.02	4,344.42	2,319.73	2,201.74	117.99	19.661		
16,200.00	7,630.00	5,450.00	5,450.00	127.05	94.16	12.26	-4,237.02	4,344.42	2,353.84	2,231.76	122.08	19.280		
16,300.00	7,630.00	5,450.00	5,450.00	128.26	94.16	12.26	-4,237.02	4,344.42	2,391.66	2,265.51	126.15	18.959		
16,400.00	7,630.00	5,450.00	5,450.00	129.48	94.16	12.26	-4,237.02	4,344.42	2,433.00	2,302.87	130.13	18.697		
16,500.00	7,630.00	5,450.00	5,450.00	130.73	94.16	12.26	-4,237.02	4,344.42	2,477.69	2,343.70	133.99	18.492		
16,600.00	7,630.00	5,450.00	5,450.00	132.00	94.16	12.26	-4,237.02	4,344.42	2,525.55	2,387.85	137.70	18.341		
16,700.00	7,630.00	5,450.00	5,450.00	133.29	94.16	12.26	-4,237.02	4,344.42	2,576.40	2,435.14	141.26	18.239		
16,800.00	7,630.00	5,450.00	5,450.00	134.59	94.16	12.26	-4,237.02	4,344.42	2,630.07	2,485.43	144.64	18.184		
16,900.00	7,630.00	5,450.00	5,450.00	135.91	94.16	12.26	-4,237.02	4,344.42	2,686.40	2,538.55	147.85	18.170 SF		
17,000.00	7,630.00	5,450.00	5,450.00	137.25	94.16	12.26	-4,237.02	4,344.42	2,745.21	2,594.34	150.88	18.195		
17,100.00	7,630.00	5,450.00	5,450.00	138.61	94.16	12.26	-4,237.02	4,344.42	2,806.36	2,652.63	153.73	18.255		
17,200.00	7,630.00	5,450.00	5,450.00	139.97	94.16	12.26	-4,237.02	4,344.42	2,869.68	2,713.27	156.41	18.347		
17,300.00	7,630.00	5,450.00	5,450.00	141.36	94.16	12.26	-4,237.02	4,344.42	2,935.05	2,776.13	158.93	18.468		
17,400.00	7,630.00	5,450.00	5,450.00	142.75	94.16	12.26	-4,237.02	4,344.42	3,002.33	2,841.05	161.28	18.615		
17,500.00	7,630.00	5,450.00	5,450.00	144.16	94.16	12.26	-4,237.02	4,344.42	3,071.39	2,907.90	163.49	18.787		
17,600.00	7,630.00	5,450.00	5,450.00	145.58	94.16	12.26	-4,237.02	4,344.42	3,142.12	2,976.57	165.55	18.980		
17,700.00	7,630.00	5,450.00	5,450.00	147.01	94.16	12.26	-4,237.02	4,344.42	3,214.40	3,046.92	167.48	19.193		
17,800.00	7,630.00	5,450.00	5,450.00	148.45	94.16	12.26	-4,237.02	4,344.42	3,288.13	3,118.85	169.28	19.425		
17,900.00	7,630.00	5,450.00	5,450.00	149.91	94.16	12.26	-4,237.02	4,344.42	3,363.22	3,192.26	170.96	19.673		
18,000.00	7,630.00	5,450.00	5,450.00	151.37	94.16	12.26	-4,237.02	4,344.42	3,439.58	3,267.05	172.53	19.936		
18,100.00	7,630.00	5,450.00	5,450.00	152.84	94.16	12.26	-4,237.02	4,344.42	3,517.12	3,343.12	174.00	20.214		
18,200.00	7,630.00	5,450.00	5,450.00	154.32	94.16	12.26	-4,237.02	4,344.42	3,595.77	3,420.41	175.37	20.504		
18,300.00	7,630.00	5,450.00	5,450.00	155.81	94.16	12.26	-4,237.02	4,344.42	3,675.46	3,498.81	176.65	20.806		
18,400.00	7,630.00	5,450.00	5,450.00	157.31	94.16	12.26	-4,237.02	4,344.42	3,756.13	3,578.28	177.85	21.120		
18,500.00	7,630.00	5,450.00	5,450.00	158.81	94.16	12.26	-4,237.02	4,344.42	3,837.70	3,658.73	178.97	21.443		
18,600.00	7,630.00	5,450.00	5,450.00	160.32	94.16	12.26	-4,237.02	4,344.42	3,920.13	3,740.10	180.02	21.776		
18,700.00	7,630.00	5,450.00	5,450.00	161.84	94.16	12.26	-4,237.02	4,344.42	4,003.35	3,822.35	181.01	22.117		
18,800.00	7,630.00	5,450.00	5,450.00	163.37	94.16	12.26	-4,237.02	4,344.42	4,087.33	3,905.40	181.93	22.467		
18,900.00	7,630.00	5,450.00	5,450.00	164.90	94.16	12.26	-4,237.02	4,344.42	4,172.02	3,989.22	182.80	22.823		
19,000.00	7,630.00	5,450.00	5,450.00	166.43	94.16	12.26	-4,237.02	4,344.42	4,257.37	4,073.76	183.61	23.187		
19,100.00	7,630.00	5,450.00	5,450.00	167.98	94.16	12.26	-4,237.02	4,344.42	4,343.34	4,158.97	184.37	23.557		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	5,450.00	5,450.00	169.53	94.16	12.26	-4,237.02	4,344.42	4,429.91	4,244.82	185.09	23.934	
19,300.00	7,630.00	5,450.00	5,450.00	171.08	94.16	12.26	-4,237.02	4,344.42	4,517.03	4,331.26	185.77	24.315	
19,400.00	7,630.00	5,450.00	5,450.00	172.64	94.16	12.26	-4,237.02	4,344.42	4,604.67	4,418.27	186.40	24.703	
19,500.00	7,630.00	5,450.00	5,450.00	174.21	94.16	12.26	-4,237.02	4,344.42	4,692.81	4,505.80	187.01	25.095	
19,518.56	7,630.00	5,450.00	5,450.00	174.50	94.16	12.26	-4,237.02	4,344.42	4,709.22	4,522.11	187.11	25.168	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	141.99	-5,559.39	4,344.65	7,055.77					
100.00	100.00	67.00	67.00	0.13	0.53	141.99	-5,559.39	4,344.65	7,055.69	7,055.03	0.66	N/A		
200.00	200.00	167.00	167.00	0.49	1.95	141.99	-5,559.39	4,344.65	7,055.69	7,053.25	2.45	2,882.618		
300.00	300.00	267.00	267.00	0.85	3.70	141.99	-5,559.39	4,344.65	7,055.69	7,051.14	4.55	1,550.201		
400.00	400.00	367.00	367.00	1.21	5.45	141.99	-5,559.39	4,344.65	7,055.69	7,049.04	6.66	1,060.166		
500.00	499.98	466.98	466.98	1.56	7.19	75.29	-5,559.39	4,344.65	7,055.25	7,046.50	8.75	805.931		
600.00	599.84	566.84	566.84	1.92	8.93	75.36	-5,559.39	4,344.65	7,053.92	7,043.07	10.85	650.039		
700.00	699.45	666.45	666.45	2.29	10.67	75.47	-5,559.39	4,344.65	7,051.72	7,038.76	12.95	544.361		
800.00	798.70	765.70	765.70	2.67	12.40	75.62	-5,559.39	4,344.65	7,048.66	7,033.59	15.06	467.896		
900.00	897.47	864.47	864.47	3.07	14.13	75.82	-5,559.39	4,344.65	7,044.75	7,027.56	17.19	409.903		
1,000.00	995.62	962.62	962.62	3.50	15.84	76.06	-5,559.39	4,344.65	7,040.03	7,020.71	19.32	364.328		
1,100.00	1,093.06	1,060.06	1,060.06	3.96	17.54	76.34	-5,559.39	4,344.65	7,034.53	7,013.06	21.48	327.503		
1,200.00	1,189.64	1,156.64	1,156.64	4.46	19.23	76.66	-5,559.39	4,344.65	7,028.29	7,004.63	23.66	297.081		
1,300.00	1,285.27	1,252.27	1,252.27	5.00	20.90	77.02	-5,559.39	4,344.65	7,021.35	6,995.48	25.86	271.488		
1,400.00	1,379.82	1,346.82	1,346.82	5.60	22.55	77.41	-5,559.39	4,344.65	7,013.75	6,985.65	28.10	249.634		
1,500.00	1,473.17	1,440.17	1,440.17	6.25	24.18	77.84	-5,559.39	4,344.65	7,005.55	6,975.19	30.36	230.739		
1,600.00	1,565.21	1,532.21	1,532.21	6.95	25.78	78.30	-5,559.39	4,344.65	6,996.81	6,964.15	32.66	214.227		
1,700.00	1,655.84	1,622.84	1,622.84	7.72	27.36	78.79	-5,559.39	4,344.65	6,987.59	6,952.60	35.00	199.670		
1,800.00	1,744.94	1,711.94	1,711.94	8.55	28.92	79.31	-5,559.39	4,344.65	6,977.96	6,940.59	37.37	186.736		
1,900.00	1,832.39	1,800.61	1,799.39	9.45	30.47	79.85	-5,559.39	4,344.65	6,967.98	6,928.18	39.80	175.076		
2,000.00	1,918.11	1,885.11	1,885.11	10.41	31.94	80.41	-5,559.39	4,344.65	6,957.74	6,915.51	42.23	164.765		
2,100.00	2,001.97	1,968.97	1,968.97	11.45	33.41	80.99	-5,559.39	4,344.65	6,947.31	6,902.59	44.72	155.361		
2,200.00	2,083.88	2,050.88	2,050.88	12.56	34.83	81.59	-5,559.39	4,344.65	6,936.77	6,889.52	47.25	146.824		
2,300.00	2,163.74	2,130.74	2,130.74	13.74	36.23	82.20	-5,559.39	4,344.65	6,926.20	6,876.39	49.81	139.046		
2,400.00	2,241.45	2,208.45	2,208.45	14.99	37.58	82.81	-5,559.39	4,344.65	6,915.70	6,863.28	52.42	131.935		
2,421.22	2,257.65	2,224.65	2,224.65	15.26	37.87	82.94	-5,559.39	4,344.65	6,913.48	6,860.51	52.97	130.507		
2,500.00	2,317.63	2,284.63	2,284.63	16.29	38.91	83.26	-5,559.39	4,344.65	6,905.46	6,850.41	55.05	125.434		
2,600.00	2,393.75	2,360.75	2,360.75	17.62	40.24	83.67	-5,559.39	4,344.65	6,895.81	6,838.11	57.71	119.496		
2,700.00	2,469.88	2,436.88	2,436.88	18.95	41.57	84.08	-5,559.39	4,344.65	6,886.76	6,826.39	60.38	114.064		
2,800.00	2,546.01	2,513.01	2,513.01	20.30	42.90	84.49	-5,559.39	4,344.65	6,878.31	6,815.25	63.06	109.081		
2,900.00	2,622.13	2,589.13	2,589.13	21.65	44.23	84.90	-5,559.39	4,344.65	6,870.46	6,804.71	65.75	104.498		
3,000.00	2,698.26	2,665.26	2,665.26	23.01	45.56	85.31	-5,559.39	4,344.65	6,863.21	6,794.77	68.45	100.273		
3,100.00	2,774.38	2,741.38	2,741.38	24.37	46.89	85.72	-5,559.39	4,344.65	6,856.57	6,785.42	71.15	96.368		
3,200.00	2,850.51	2,817.51	2,817.51	25.74	48.21	86.14	-5,559.39	4,344.65	6,850.54	6,776.68	73.86	92.751		
3,300.00	2,926.64	2,906.36	2,893.64	27.11	49.77	86.55	-5,559.39	4,344.65	6,845.11	6,768.32	76.80	89.134		
3,400.00	3,002.76	2,969.76	2,969.76	28.49	50.87	86.96	-5,559.39	4,344.65	6,840.30	6,761.01	79.29	86.269		
3,500.00	3,078.89	3,045.89	3,045.89	29.87	52.20	87.38	-5,559.39	4,344.65	6,836.09	6,754.08	82.01	83.356		
3,600.00	3,155.02	3,122.02	3,122.02	31.25	53.53	87.79	-5,559.39	4,344.65	6,832.50	6,747.77	84.73	80.637		
3,700.00	3,231.14	3,201.86	3,198.14	32.63	54.92	88.20	-5,559.39	4,344.65	6,829.53	6,742.01	87.52	78.034		
3,800.00	3,307.27	3,274.27	3,274.27	34.01	56.19	88.62	-5,559.39	4,344.65	6,827.17	6,736.99	90.18	75.707		
3,900.00	3,383.39	3,350.39	3,350.39	35.40	57.52	89.03	-5,559.39	4,344.65	6,825.42	6,732.52	92.90	73.469		
4,000.00	3,459.52	3,426.52	3,426.52	36.79	58.84	89.45	-5,559.39	4,344.65	6,824.29	6,728.66	95.63	71.365		
4,100.00	3,535.65	3,502.65	3,502.65	38.18	60.17	89.86	-5,559.39	4,344.65	6,823.77	6,725.43	98.35	69.385		
4,133.52	3,561.16	3,528.16	3,528.16	38.64	60.62	90.00	-5,559.39	4,344.65	6,823.74	6,724.48	99.26	68.747		
4,200.00	3,611.77	3,578.77	3,578.77	39.57	61.50	90.28	-5,559.39	4,344.65	6,823.88	6,722.81	101.07	67.518		
4,300.00	3,687.90	3,654.90	3,654.90	40.96	62.83	90.69	-5,559.39	4,344.65	6,824.59	6,720.81	103.79	65.756		
4,400.00	3,764.02	3,731.02	3,731.02	42.35	64.16	91.10	-5,559.39	4,344.65	6,825.93	6,719.42	106.50	64.092		
4,500.00	3,840.15	3,807.15	3,807.15	43.74	65.49	91.52	-5,559.39	4,344.65	6,827.88	6,718.66	109.22	62.517		
4,600.00	3,916.28	3,883.28	3,883.28	45.13	66.82	91.93	-5,559.39	4,344.65	6,830.44	6,718.52	111.93	61.027		
4,700.00	3,992.40	3,959.40	3,959.40	46.53	68.14	92.35	-5,559.39	4,344.65	6,833.62	6,718.99	114.63	59.613		
4,800.00	4,068.53	4,035.53	4,035.53	47.92	69.47	92.76	-5,559.39	4,344.65	6,837.41	6,720.08	117.33	58.273		
4,900.00	4,144.66	4,111.66	4,111.66	49.32	70.80	93.17	-5,559.39	4,344.65	6,841.82	6,721.78	120.03	57.000		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,220.78	4,187.78	4,187.78	50.71	72.13	93.59	-5,559.39	4,344.65	6,846.83	6,724.11	122.73	55.790		
5,100.00	4,296.91	4,263.91	4,263.91	52.11	73.46	94.00	-5,559.39	4,344.65	6,852.46	6,727.04	125.41	54.639		
5,200.00	4,373.03	4,340.03	4,340.03	53.51	74.79	94.41	-5,559.39	4,344.65	6,858.69	6,730.60	128.10	53.543		
5,300.00	4,449.16	4,416.16	4,416.16	54.90	76.12	94.82	-5,559.39	4,344.65	6,865.53	6,734.76	130.77	52.499		
5,400.00	4,525.29	4,507.71	4,492.29	56.30	77.71	95.23	-5,559.39	4,344.65	6,872.98	6,739.27	133.71	51.401		
5,500.00	4,601.41	4,568.41	4,568.41	57.70	78.77	95.65	-5,559.39	4,344.65	6,881.03	6,744.92	136.11	50.555		
5,600.00	4,677.54	4,644.54	4,644.54	59.10	80.10	96.06	-5,559.39	4,344.65	6,889.68	6,750.91	138.77	49.649		
5,700.00	4,753.66	4,720.66	4,720.66	60.49	81.43	96.47	-5,559.39	4,344.65	6,898.93	6,757.51	141.42	48.784		
5,800.00	4,829.79	4,803.21	4,796.79	61.89	82.87	96.87	-5,559.39	4,344.65	6,908.77	6,764.60	144.17	47.920		
5,900.00	4,905.92	4,872.92	4,872.92	63.29	84.09	97.28	-5,559.39	4,344.65	6,919.21	6,772.52	146.70	47.166		
6,000.00	4,982.04	4,949.04	4,949.04	64.69	85.42	97.69	-5,559.39	4,344.65	6,930.24	6,780.92	149.33	46.410		
6,100.00	5,058.17	5,025.17	5,025.17	66.09	86.75	98.10	-5,559.39	4,344.65	6,941.86	6,789.91	151.95	45.686		
6,200.00	5,134.30	5,101.30	5,101.30	67.49	88.07	98.50	-5,559.39	4,344.65	6,954.07	6,799.51	154.56	44.993		
6,300.00	5,210.42	5,177.42	5,177.42	68.89	89.40	98.91	-5,559.39	4,344.65	6,966.85	6,809.69	157.16	44.329		
6,400.00	5,286.55	5,253.55	5,253.55	70.29	90.73	99.31	-5,559.39	4,344.65	6,980.22	6,820.46	159.76	43.693		
6,500.00	5,362.67	5,329.67	5,329.67	71.69	92.06	99.71	-5,559.39	4,344.65	6,994.16	6,831.81	162.34	43.082		
6,600.00	5,438.80	5,405.80	5,405.80	73.09	93.39	100.12	-5,559.39	4,344.65	7,008.67	6,843.75	164.92	42.497		
6,700.00	5,514.93	5,450.00	5,450.00	74.49	94.16	100.35	-5,559.39	4,344.65	7,023.82	6,856.90	166.92	42.079		
6,800.00	5,591.05	5,450.00	5,450.00	75.89	94.16	100.35	-5,559.39	4,344.65	7,040.23	6,872.11	168.11	41.878		
6,900.00	5,667.18	5,450.00	5,450.00	77.29	94.16	100.35	-5,559.39	4,344.65	7,058.01	6,888.73	169.27	41.696		
7,000.00	5,743.30	5,450.00	5,450.00	78.69	94.16	100.35	-5,559.39	4,344.65	7,077.16	6,906.75	170.40	41.532		
7,100.00	5,819.43	5,450.00	5,450.00	80.09	94.16	100.35	-5,559.39	4,344.65	7,097.66	6,926.16	171.50	41.385		
7,200.00	5,895.56	5,450.00	5,450.00	81.49	94.16	100.35	-5,559.39	4,344.65	7,119.52	6,946.95	172.57	41.256		
7,300.00	5,971.68	5,450.00	5,450.00	82.90	94.16	100.35	-5,559.39	4,344.65	7,142.70	6,969.10	173.61	41.143		
7,400.00	6,047.81	5,450.00	5,450.00	84.30	94.16	100.35	-5,559.39	4,344.65	7,167.21	6,992.60	174.62	41.046		
7,500.00	6,123.94	5,450.00	5,450.00	85.70	94.16	100.35	-5,559.39	4,344.65	7,193.03	7,017.43	175.59	40.965		
7,600.00	6,200.06	5,450.00	5,450.00	87.10	94.16	100.35	-5,559.39	4,344.65	7,220.13	7,043.60	176.54	40.899		
7,700.00	6,276.19	5,450.00	5,450.00	88.50	94.16	100.35	-5,559.39	4,344.65	7,248.52	7,071.07	177.45	40.848		
7,800.00	6,352.31	5,450.00	5,450.00	89.90	94.16	100.35	-5,559.39	4,344.65	7,278.17	7,099.83	178.34	40.812		
7,900.00	6,428.44	5,450.00	5,450.00	91.31	94.16	100.35	-5,559.39	4,344.65	7,309.06	7,129.87	179.19	40.789		
8,000.00	6,504.57	5,450.00	5,450.00	92.71	94.16	100.35	-5,559.39	4,344.65	7,341.19	7,161.18	180.01	40.781		
8,100.00	6,580.69	5,450.00	5,450.00	94.11	94.16	100.35	-5,559.39	4,344.65	7,374.53	7,193.72	180.81	40.786		
8,200.00	6,656.82	5,450.00	5,450.00	95.51	94.16	100.35	-5,559.39	4,344.65	7,409.08	7,227.50	181.58	40.804		
8,300.00	6,732.95	5,450.00	5,450.00	96.91	94.16	100.35	-5,559.39	4,344.65	7,444.81	7,262.49	182.31	40.835		
8,400.00	6,809.07	5,450.00	5,450.00	98.32	94.16	100.35	-5,559.39	4,344.65	7,481.70	7,298.68	183.02	40.879		
8,500.00	6,885.20	5,450.00	5,450.00	99.72	94.16	100.35	-5,559.39	4,344.65	7,519.74	7,336.04	183.70	40.934		
8,600.00	6,961.32	5,450.00	5,450.00	101.12	94.16	100.35	-5,559.39	4,344.65	7,558.92	7,374.56	184.36	41.002		
8,700.00	7,037.45	5,450.00	5,450.00	102.52	94.16	100.35	-5,559.39	4,344.65	7,599.21	7,414.22	184.98	41.080		
8,732.15	7,061.92	5,450.00	5,450.00	102.97	94.16	100.35	-5,559.39	4,344.65	7,612.39	7,427.21	185.18	41.108		
8,750.00	7,075.57	5,450.00	5,450.00	103.22	94.16	98.44	-5,559.39	4,344.65	7,619.51	7,434.22	185.29	41.123		
8,800.00	7,114.27	5,450.00	5,450.00	103.91	94.16	92.74	-5,559.39	4,344.65	7,636.92	7,451.33	185.59	41.150		
8,850.00	7,153.47	5,450.00	5,450.00	104.58	94.16	86.66	-5,559.39	4,344.65	7,650.51	7,464.62	185.89	41.157		
8,900.00	7,192.85	5,450.00	5,450.00	105.21	94.16	80.40	-5,559.39	4,344.65	7,660.20	7,474.03	186.17	41.146		
8,950.00	7,232.12	5,450.00	5,450.00	105.80	94.16	74.16	-5,559.39	4,344.65	7,665.94	7,479.50	186.44	41.116		
9,000.00	7,270.99	5,450.00	5,450.00	106.35	94.16	68.13	-5,559.39	4,344.65	7,667.69	7,481.00	186.69	41.071		
9,050.00	7,309.16	5,450.00	5,450.00	106.85	94.16	62.47	-5,559.39	4,344.65	7,665.44	7,478.52	186.92	41.009		
9,100.00	7,346.32	5,450.00	5,450.00	107.30	94.16	57.27	-5,559.39	4,344.65	7,659.20	7,472.08	187.12	40.933		
9,150.00	7,382.22	5,450.00	5,450.00	107.69	94.16	52.58	-5,559.39	4,344.65	7,649.01	7,461.73	187.28	40.842		
9,200.00	7,416.56	5,450.00	5,450.00	108.02	94.16	48.38	-5,559.39	4,344.65	7,634.93	7,447.52	187.41	40.739		
9,250.00	7,449.09	5,450.00	5,450.00	108.29	94.16	44.64	-5,559.39	4,344.65	7,617.05	7,429.54	187.51	40.622		
9,300.00	7,479.56	5,450.00	5,450.00	108.51	94.16	41.32	-5,559.39	4,344.65	7,595.48	7,407.91	187.58	40.493		
9,350.00	7,507.74	5,450.00	5,450.00	108.68	94.16	38.35	-5,559.39	4,344.65	7,570.36	7,382.75	187.61	40.352		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,450.00	5,450.00	108.79	94.16	35.66	-5,559.39	4,344.65	7,541.82	7,354.21	187.61	40.199		
9,450.00	7,556.39	5,450.00	5,450.00	108.86	94.16	33.18	-5,559.39	4,344.65	7,510.07	7,322.48	187.59	40.035		
9,500.00	7,576.48	5,450.00	5,450.00	108.88	94.16	30.84	-5,559.39	4,344.65	7,475.30	7,287.76	187.54	39.860		
9,550.00	7,593.55	5,450.00	5,450.00	108.86	94.16	28.54	-5,559.39	4,344.65	7,437.73	7,250.26	187.47	39.675		
9,600.00	7,607.46	5,450.00	5,450.00	108.80	94.16	26.14	-5,559.39	4,344.65	7,397.61	7,210.23	187.38	39.479		
9,650.00	7,618.11	5,450.00	5,450.00	108.71	94.16	23.48	-5,559.39	4,344.65	7,355.21	7,167.93	187.28	39.273		
9,700.00	7,625.41	5,450.00	5,450.00	108.59	94.16	20.25	-5,559.39	4,344.65	7,310.81	7,123.63	187.18	39.058		
9,750.00	7,629.30	5,450.00	5,450.00	108.45	94.16	15.92	-5,559.39	4,344.65	7,264.71	7,077.65	187.07	38.835		
9,781.81	7,630.00	5,450.00	5,450.00	108.35	94.16	12.13	-5,559.39	4,344.65	7,234.66	7,047.66	187.00	38.688		
9,800.00	7,630.00	5,450.00	5,450.00	108.29	94.16	12.13	-5,559.39	4,344.65	7,217.33	7,030.37	186.96	38.604		
9,900.00	7,630.00	5,450.00	5,450.00	107.97	94.16	12.13	-5,559.39	4,344.65	7,122.13	6,935.39	186.74	38.139		
10,000.00	7,630.00	5,450.00	5,450.00	107.67	94.16	12.13	-5,559.39	4,344.65	7,027.07	6,840.56	186.51	37.676		
10,100.00	7,630.00	5,450.00	5,450.00	107.38	94.16	12.13	-5,559.39	4,344.65	6,932.15	6,745.88	186.28	37.215		
10,200.00	7,630.00	5,450.00	5,450.00	107.10	94.16	12.13	-5,559.39	4,344.65	6,837.37	6,651.34	186.03	36.754		
10,300.00	7,630.00	5,450.00	5,450.00	106.84	94.16	12.13	-5,559.39	4,344.65	6,742.75	6,556.97	185.78	36.295		
10,400.00	7,630.00	5,450.00	5,450.00	106.59	94.16	12.13	-5,559.39	4,344.65	6,648.28	6,462.77	185.51	35.837		
10,500.00	7,630.00	5,450.00	5,450.00	106.35	94.16	12.13	-5,559.39	4,344.65	6,553.98	6,368.74	185.24	35.381		
10,600.00	7,630.00	5,450.00	5,450.00	106.13	94.16	12.13	-5,559.39	4,344.65	6,459.85	6,274.89	184.96	34.926		
10,700.00	7,630.00	5,450.00	5,450.00	105.92	94.16	12.13	-5,559.39	4,344.65	6,365.89	6,181.23	184.66	34.473		
10,800.00	7,630.00	5,450.00	5,450.00	105.72	94.16	12.13	-5,559.39	4,344.65	6,272.13	6,087.77	184.36	34.021		
10,900.00	7,630.00	5,450.00	5,450.00	105.54	94.16	12.13	-5,559.39	4,344.65	6,178.56	5,994.51	184.04	33.572		
11,000.00	7,630.00	5,450.00	5,450.00	105.37	94.16	12.13	-5,559.39	4,344.65	6,085.19	5,901.48	183.71	33.124		
11,100.00	7,630.00	5,450.00	5,450.00	105.21	94.16	12.13	-5,559.39	4,344.65	5,992.04	5,808.67	183.37	32.678		
11,200.00	7,630.00	5,450.00	5,450.00	105.06	94.16	12.13	-5,559.39	4,344.65	5,899.11	5,716.10	183.01	32.234		
11,300.00	7,630.00	5,450.00	5,450.00	104.93	94.16	12.13	-5,559.39	4,344.65	5,806.42	5,623.78	182.63	31.793		
11,400.00	7,630.00	5,450.00	5,450.00	104.82	94.16	12.13	-5,559.39	4,344.65	5,713.97	5,531.73	182.24	31.353		
11,500.00	7,630.00	5,450.00	5,450.00	104.72	94.16	12.13	-5,559.39	4,344.65	5,621.78	5,439.94	181.84	30.917		
11,600.00	7,630.00	5,450.00	5,450.00	104.63	94.16	12.13	-5,559.39	4,344.65	5,529.86	5,348.45	181.41	30.482		
11,700.00	7,630.00	5,450.00	5,450.00	104.55	94.16	12.13	-5,559.39	4,344.65	5,438.23	5,257.27	180.97	30.051		
11,800.00	7,630.00	5,450.00	5,450.00	104.50	94.16	12.13	-5,559.39	4,344.65	5,346.90	5,166.40	180.50	29.622		
11,900.00	7,630.00	5,450.00	5,450.00	104.45	94.16	12.13	-5,559.39	4,344.65	5,255.89	5,075.87	180.02	29.197		
12,000.00	7,630.00	5,450.00	5,450.00	104.43	94.16	12.13	-5,559.39	4,344.65	5,165.20	4,985.69	179.51	28.774		
12,100.00	7,630.00	5,450.00	5,450.00	104.42	94.16	12.13	-5,559.39	4,344.65	5,074.87	4,895.89	178.98	28.355		
12,200.00	7,630.00	5,450.00	5,450.00	104.42	94.16	12.13	-5,559.39	4,344.65	4,984.90	4,806.49	178.42	27.940		
12,300.00	7,630.00	5,450.00	5,450.00	104.45	94.16	12.13	-5,559.39	4,344.65	4,895.33	4,717.50	177.83	27.528		
12,400.00	7,630.00	5,450.00	5,450.00	104.49	94.16	12.13	-5,559.39	4,344.65	4,806.17	4,628.95	177.22	27.120		
12,500.00	7,630.00	5,450.00	5,450.00	104.55	94.16	12.13	-5,559.39	4,344.65	4,717.44	4,540.87	176.57	26.717		
12,600.00	7,630.00	5,450.00	5,450.00	104.63	94.16	12.13	-5,559.39	4,344.65	4,629.17	4,453.27	175.89	26.318		
12,700.00	7,630.00	5,450.00	5,450.00	104.73	94.16	12.13	-5,559.39	4,344.65	4,541.38	4,366.21	175.18	25.924		
12,800.00	7,630.00	5,450.00	5,450.00	104.85	94.16	12.13	-5,559.39	4,344.65	4,454.12	4,279.69	174.43	25.536		
12,900.00	7,630.00	5,450.00	5,450.00	104.99	94.16	12.13	-5,559.39	4,344.65	4,367.39	4,193.76	173.64	25.153		
13,000.00	7,630.00	5,450.00	5,450.00	105.15	94.16	12.13	-5,559.39	4,344.65	4,281.25	4,108.45	172.80	24.775		
13,100.00	7,630.00	5,450.00	5,450.00	105.34	94.16	12.13	-5,559.39	4,344.65	4,195.72	4,023.80	171.92	24.404		
13,200.00	7,630.00	5,450.00	5,450.00	105.56	94.16	12.13	-5,559.39	4,344.65	4,110.85	3,939.85	171.00	24.040		
13,300.00	7,630.00	5,450.00	5,450.00	105.80	94.16	12.13	-5,559.39	4,344.65	4,026.67	3,856.64	170.02	23.683		
13,400.00	7,630.00	5,450.00	5,450.00	106.06	94.16	12.13	-5,559.39	4,344.65	3,943.22	3,774.23	168.99	23.334		
13,500.00	7,630.00	5,450.00	5,450.00	106.36	94.16	12.13	-5,559.39	4,344.65	3,860.57	3,692.67	167.90	22.993		
13,600.00	7,630.00	5,450.00	5,450.00	106.68	94.16	12.13	-5,559.39	4,344.65	3,778.75	3,612.00	166.75	22.661		
13,700.00	7,630.00	5,450.00	5,450.00	107.03	94.16	12.13	-5,559.39	4,344.65	3,697.83	3,532.30	165.53	22.339		
13,800.00	7,630.00	5,450.00	5,450.00	107.42	94.16	12.13	-5,559.39	4,344.65	3,617.86	3,453.61	164.25	22.027		
13,900.00	7,630.00	5,450.00	5,450.00	107.83	94.16	12.13	-5,559.39	4,344.65	3,538.91	3,376.02	162.89	21.726		
14,000.00	7,630.00	5,450.00	5,450.00	108.28	94.16	12.13	-5,559.39	4,344.65	3,461.05	3,299.60	161.45	21.437		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,450.00	5,450.00	108.77	94.16	12.13	-5,559.39	4,344.65	3,384.36	3,224.42	159.93	21.161		
14,200.00	7,630.00	5,450.00	5,450.00	109.29	94.16	12.13	-5,559.39	4,344.65	3,308.90	3,150.57	158.33	20.899		
14,300.00	7,630.00	5,450.00	5,450.00	109.84	94.16	12.13	-5,559.39	4,344.65	3,234.78	3,078.15	156.64	20.652		
14,400.00	7,630.00	5,450.00	5,450.00	110.43	94.16	12.13	-5,559.39	4,344.65	3,162.09	3,007.24	154.85	20.421		
14,500.00	7,630.00	5,450.00	5,450.00	111.06	94.16	12.13	-5,559.39	4,344.65	3,090.92	2,937.96	152.96	20.208		
14,600.00	7,630.00	5,450.00	5,450.00	111.72	94.16	12.13	-5,559.39	4,344.65	3,021.38	2,870.41	150.97	20.013		
14,700.00	7,630.00	5,450.00	5,450.00	112.42	94.16	12.13	-5,559.39	4,344.65	2,953.60	2,804.72	148.87	19.839		
14,800.00	7,630.00	5,450.00	5,450.00	113.16	94.16	12.13	-5,559.39	4,344.65	2,887.68	2,741.01	146.68	19.688		
14,900.00	7,630.00	5,450.00	5,450.00	113.94	94.16	12.13	-5,559.39	4,344.65	2,823.77	2,679.40	144.37	19.559		
15,000.00	7,630.00	5,450.00	5,450.00	114.75	94.16	12.13	-5,559.39	4,344.65	2,762.01	2,620.05	141.96	19.456		
15,100.00	7,630.00	5,450.00	5,450.00	115.60	94.16	12.13	-5,559.39	4,344.65	2,702.53	2,563.08	139.45	19.381		
15,200.00	7,630.00	5,450.00	5,450.00	116.48	94.16	12.13	-5,559.39	4,344.65	2,645.49	2,508.66	136.84	19.333		
15,300.00	7,630.00	5,450.00	5,450.00	117.40	94.16	12.13	-5,559.39	4,344.65	2,591.06	2,456.93	134.14	19.317		
15,400.00	7,630.00	5,450.00	5,450.00	118.35	94.16	12.13	-5,559.39	4,344.65	2,539.41	2,408.05	131.36	19.332		
15,500.00	7,630.00	5,450.00	5,450.00	119.34	94.16	12.13	-5,559.39	4,344.65	2,490.70	2,362.17	128.52	19.379		
15,600.00	7,630.00	5,450.00	5,450.00	120.35	94.16	12.13	-5,559.39	4,344.65	2,445.11	2,319.46	125.65	19.460		
15,700.00	7,630.00	5,450.00	5,450.00	121.40	94.16	12.13	-5,559.39	4,344.65	2,402.82	2,280.06	122.76	19.573		
15,800.00	7,630.00	5,450.00	5,450.00	122.48	94.16	12.13	-5,559.39	4,344.65	2,364.00	2,244.11	119.89	19.718		
15,900.00	7,630.00	5,450.00	5,450.00	123.58	94.16	12.13	-5,559.39	4,344.65	2,328.84	2,211.74	117.09	19.889		
16,000.00	7,630.00	5,450.00	5,450.00	124.71	94.16	12.13	-5,559.39	4,344.65	2,297.49	2,183.08	114.41	20.081		
16,100.00	7,630.00	5,450.00	5,450.00	125.87	94.16	12.13	-5,559.39	4,344.65	2,270.12	2,158.20	111.92	20.284		
16,200.00	7,630.00	5,450.00	5,450.00	127.05	94.16	12.13	-5,559.39	4,344.65	2,246.87	2,137.18	109.69	20.484		
16,300.00	7,630.00	5,450.00	5,450.00	128.26	94.16	12.13	-5,559.39	4,344.65	2,227.87	2,120.05	107.82	20.664		
16,400.00	7,630.00	5,450.00	5,450.00	129.48	94.16	12.13	-5,559.39	4,344.65	2,213.23	2,106.81	106.41	20.798		
16,500.00	7,630.00	5,450.00	5,450.00	130.73	94.16	12.13	-5,559.39	4,344.65	2,203.03	2,097.44	105.59	20.864		
16,600.00	7,630.00	5,450.00	5,450.00	132.00	94.16	12.13	-5,559.39	4,344.65	2,197.35	2,091.89	105.45	20.837		
16,675.11	7,630.00	5,450.00	5,450.00	132.96	94.16	12.13	-5,559.39	4,344.65	2,196.06	2,090.23	105.83	20.750 CC		
16,700.00	7,630.00	5,450.00	5,450.00	133.29	94.16	12.13	-5,559.39	4,344.65	2,196.20	2,090.15	106.06	20.708 ES		
16,800.00	7,630.00	5,450.00	5,450.00	134.59	94.16	12.13	-5,559.39	4,344.65	2,199.61	2,092.20	107.41	20.479		
16,900.00	7,630.00	5,450.00	5,450.00	135.91	94.16	12.13	-5,559.39	4,344.65	2,207.55	2,098.10	109.45	20.170		
17,000.00	7,630.00	5,450.00	5,450.00	137.25	94.16	12.13	-5,559.39	4,344.65	2,219.97	2,107.90	112.07	19.809		
17,100.00	7,630.00	5,450.00	5,450.00	138.61	94.16	12.13	-5,559.39	4,344.65	2,236.79	2,121.65	115.14	19.427		
17,200.00	7,630.00	5,450.00	5,450.00	139.97	94.16	12.13	-5,559.39	4,344.65	2,257.92	2,139.39	118.53	19.049		
17,300.00	7,630.00	5,450.00	5,450.00	141.36	94.16	12.13	-5,559.39	4,344.65	2,283.24	2,161.11	122.13	18.695		
17,400.00	7,630.00	5,450.00	5,450.00	142.75	94.16	12.13	-5,559.39	4,344.65	2,312.61	2,186.77	125.84	18.378		
17,500.00	7,630.00	5,450.00	5,450.00	144.16	94.16	12.13	-5,559.39	4,344.65	2,345.88	2,216.30	129.58	18.104		
17,600.00	7,630.00	5,450.00	5,450.00	145.58	94.16	12.13	-5,559.39	4,344.65	2,382.88	2,249.59	133.29	17.877		
17,700.00	7,630.00	5,450.00	5,450.00	147.01	94.16	12.13	-5,559.39	4,344.65	2,423.45	2,286.51	136.94	17.698		
17,800.00	7,630.00	5,450.00	5,450.00	148.45	94.16	12.13	-5,559.39	4,344.65	2,467.40	2,326.93	140.47	17.565		
17,900.00	7,630.00	5,450.00	5,450.00	149.91	94.16	12.13	-5,559.39	4,344.65	2,514.57	2,370.69	143.88	17.477		
18,000.00	7,630.00	5,450.00	5,450.00	151.37	94.16	12.13	-5,559.39	4,344.65	2,564.77	2,417.63	147.14	17.431		
18,100.00	7,630.00	5,450.00	5,450.00	152.84	94.16	12.13	-5,559.39	4,344.65	2,617.83	2,467.59	150.24	17.424 SF		
18,200.00	7,630.00	5,450.00	5,450.00	154.32	94.16	12.13	-5,559.39	4,344.65	2,673.57	2,520.39	153.18	17.454		
18,300.00	7,630.00	5,450.00	5,450.00	155.81	94.16	12.13	-5,559.39	4,344.65	2,731.84	2,575.89	155.96	17.517		
18,400.00	7,630.00	5,450.00	5,450.00	157.31	94.16	12.13	-5,559.39	4,344.65	2,792.48	2,633.91	158.57	17.610		
18,500.00	7,630.00	5,450.00	5,450.00	158.81	94.16	12.13	-5,559.39	4,344.65	2,855.33	2,694.30	161.03	17.732		
18,600.00	7,630.00	5,450.00	5,450.00	160.32	94.16	12.13	-5,559.39	4,344.65	2,920.26	2,756.93	163.33	17.879		
18,700.00	7,630.00	5,450.00	5,450.00	161.84	94.16	12.13	-5,559.39	4,344.65	2,987.12	2,821.63	165.49	18.050		
18,800.00	7,630.00	5,450.00	5,450.00	163.37	94.16	12.13	-5,559.39	4,344.65	3,055.79	2,888.28	167.51	18.243		
18,900.00	7,630.00	5,450.00	5,450.00	164.90	94.16	12.13	-5,559.39	4,344.65	3,126.15	2,956.76	169.39	18.455		
19,000.00	7,630.00	5,450.00	5,450.00	166.43	94.16	12.13	-5,559.39	4,344.65	3,198.10	3,026.94	171.15	18.686		
19,100.00	7,630.00	5,450.00	5,450.00	167.98	94.16	12.13	-5,559.39	4,344.65	3,271.51	3,098.72	172.80	18.933		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
19,200.00	7,630.00	5,450.00	5,450.00	169.53	94.16	12.13	-5,559.39	4,344.65	3,346.31	3,171.97	174.33	19.195	
19,300.00	7,630.00	5,450.00	5,450.00	171.08	94.16	12.13	-5,559.39	4,344.65	3,422.39	3,246.62	175.77	19.471	
19,400.00	7,630.00	5,450.00	5,450.00	172.64	94.16	12.13	-5,559.39	4,344.65	3,499.68	3,322.57	177.10	19.760	
19,500.00	7,630.00	5,450.00	5,450.00	174.21	94.16	12.13	-5,559.39	4,344.65	3,578.09	3,399.73	178.35	20.062	
19,518.56	7,630.00	5,450.00	5,450.00	174.50	94.16	12.13	-5,559.39	4,344.65	3,592.76	3,414.18	178.58	20.119	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	126.80	-4,236.76	5,663.46	7,073.09					
100.00	100.00	39.00	39.00	0.13	0.31	126.80	-4,236.76	5,663.46	7,072.83	7,072.38	0.45	N/A		
200.00	200.00	139.00	139.00	0.49	1.48	126.80	-4,236.76	5,663.46	7,072.83	7,070.85	1.98	3,578.588		
300.00	300.00	239.00	239.00	0.85	3.23	126.80	-4,236.76	5,663.46	7,072.83	7,068.75	4.08	1,733.438		
400.00	400.00	339.00	339.00	1.21	4.97	126.80	-4,236.76	5,663.46	7,072.83	7,066.64	6.18	1,143.724		
500.00	499.98	438.98	438.98	1.56	6.72	60.10	-4,236.76	5,663.46	7,071.96	7,063.67	8.28	853.805		
600.00	599.84	538.84	538.84	1.92	8.46	60.18	-4,236.76	5,663.46	7,069.35	7,058.97	10.38	681.051		
700.00	699.45	638.45	638.45	2.29	10.20	60.32	-4,236.76	5,663.46	7,065.01	7,052.53	12.48	566.059		
800.00	798.70	737.70	737.70	2.67	11.93	60.51	-4,236.76	5,663.46	7,058.96	7,044.37	14.59	483.908		
900.00	897.47	836.47	836.47	3.07	13.66	60.76	-4,236.76	5,663.46	7,051.22	7,034.51	16.70	422.189		
1,000.00	995.62	934.62	934.62	3.50	15.37	61.06	-4,236.76	5,663.46	7,041.81	7,022.98	18.83	374.039		
1,100.00	1,093.06	1,032.06	1,032.06	3.96	17.07	61.41	-4,236.76	5,663.46	7,030.76	7,009.80	20.96	335.359		
1,200.00	1,189.64	1,128.64	1,128.64	4.46	18.76	61.81	-4,236.76	5,663.46	7,018.12	6,995.00	23.12	303.551		
1,300.00	1,285.27	1,224.27	1,224.27	5.00	20.43	62.27	-4,236.76	5,663.46	7,003.93	6,978.64	25.29	276.892		
1,400.00	1,379.82	1,318.82	1,318.82	5.60	22.08	62.78	-4,236.76	5,663.46	6,988.24	6,960.75	27.49	254.192		
1,500.00	1,473.17	1,412.17	1,412.17	6.25	23.70	63.34	-4,236.76	5,663.46	6,971.11	6,941.39	29.71	234.607		
1,600.00	1,565.21	1,504.21	1,504.21	6.95	25.31	63.94	-4,236.76	5,663.46	6,952.59	6,920.62	31.96	217.517		
1,700.00	1,655.84	1,605.16	1,594.84	7.72	27.07	64.60	-4,236.76	5,663.46	6,932.74	6,898.32	34.42	201.403		
1,800.00	1,744.94	1,683.94	1,683.94	8.55	28.45	65.30	-4,236.76	5,663.46	6,911.65	6,875.10	36.55	189.090		
1,900.00	1,832.39	1,771.39	1,771.39	9.45	29.97	66.05	-4,236.76	5,663.46	6,889.39	6,850.50	38.89	177.128		
2,000.00	1,918.11	1,857.11	1,857.11	10.41	31.47	66.83	-4,236.76	5,663.46	6,866.04	6,824.77	41.27	166.361		
2,100.00	2,001.97	1,940.97	1,940.97	11.45	32.93	67.66	-4,236.76	5,663.46	6,841.68	6,797.99	43.68	156.617		
2,200.00	2,083.88	2,022.88	2,022.88	12.56	34.36	68.52	-4,236.76	5,663.46	6,816.40	6,770.27	46.13	147.757		
2,300.00	2,163.74	2,102.74	2,102.74	13.74	35.76	69.42	-4,236.76	5,663.46	6,790.29	6,741.68	48.62	139.668		
2,400.00	2,241.45	2,180.45	2,180.45	14.99	37.11	70.34	-4,236.76	5,663.46	6,763.46	6,712.32	51.14	132.257		
2,421.22	2,257.65	2,203.35	2,196.65	15.26	37.51	70.54	-4,236.76	5,663.46	6,757.68	6,705.89	51.80	130.470		
2,500.00	2,317.63	2,256.63	2,256.63	16.29	38.44	70.87	-4,236.76	5,663.46	6,736.34	6,682.65	53.69	125.463		
2,600.00	2,393.75	2,332.75	2,332.75	17.62	39.77	71.28	-4,236.76	5,663.46	6,709.71	6,653.44	56.27	119.241		
2,700.00	2,469.88	2,408.88	2,408.88	18.95	41.10	71.70	-4,236.76	5,663.46	6,683.60	6,624.74	58.87	113.534		
2,800.00	2,546.01	2,485.01	2,485.01	20.30	42.43	72.11	-4,236.76	5,663.46	6,658.03	6,596.54	61.49	108.286		
2,900.00	2,622.13	2,561.13	2,561.13	21.65	43.76	72.53	-4,236.76	5,663.46	6,632.98	6,568.87	64.12	103.448		
3,000.00	2,698.26	2,637.26	2,637.26	23.01	45.09	72.95	-4,236.76	5,663.46	6,608.48	6,541.72	66.77	98.979		
3,100.00	2,774.38	2,713.38	2,713.38	24.37	46.42	73.38	-4,236.76	5,663.46	6,584.53	6,515.10	69.43	94.840		
3,200.00	2,850.51	2,789.51	2,789.51	25.74	47.74	73.80	-4,236.76	5,663.46	6,561.13	6,489.03	72.10	90.999		
3,300.00	2,926.64	2,865.64	2,865.64	27.11	49.07	74.23	-4,236.76	5,663.46	6,538.29	6,463.50	74.79	87.427		
3,400.00	3,002.76	2,941.76	2,941.76	28.49	50.40	74.65	-4,236.76	5,663.46	6,516.02	6,438.53	77.48	84.098		
3,500.00	3,078.89	3,017.89	3,017.89	29.87	51.73	75.08	-4,236.76	5,663.46	6,494.31	6,414.12	80.19	80.990		
3,600.00	3,155.02	3,105.98	3,094.02	31.25	53.27	75.52	-4,236.76	5,663.46	6,473.18	6,390.07	83.11	77.888		
3,700.00	3,231.14	3,170.14	3,170.14	32.63	54.39	75.95	-4,236.76	5,663.46	6,452.64	6,367.02	85.62	75.361		
3,800.00	3,307.27	3,246.27	3,246.27	34.01	55.72	76.38	-4,236.76	5,663.46	6,432.68	6,344.33	88.35	72.807		
3,900.00	3,383.39	3,322.39	3,322.39	35.40	57.04	76.82	-4,236.76	5,663.46	6,413.32	6,322.23	91.09	70.406		
4,000.00	3,459.52	3,401.48	3,398.52	36.79	58.42	77.26	-4,236.76	5,663.46	6,394.56	6,300.67	93.89	68.109		
4,100.00	3,535.65	3,474.65	3,474.65	38.18	59.70	77.70	-4,236.76	5,663.46	6,376.40	6,279.81	96.59	66.018		
4,200.00	3,611.77	3,550.77	3,550.77	39.57	61.03	78.14	-4,236.76	5,663.46	6,358.84	6,259.50	99.34	64.010		
4,300.00	3,687.90	3,626.90	3,626.90	40.96	62.36	78.58	-4,236.76	5,663.46	6,341.91	6,239.81	102.10	62.113		
4,400.00	3,764.02	3,703.02	3,703.02	42.35	63.69	79.03	-4,236.76	5,663.46	6,325.59	6,220.72	104.87	60.318		
4,500.00	3,840.15	3,779.15	3,779.15	43.74	65.02	79.47	-4,236.76	5,663.46	6,309.90	6,202.26	107.64	58.620		
4,600.00	3,916.28	3,855.28	3,855.28	45.13	66.34	79.92	-4,236.76	5,663.46	6,294.84	6,184.42	110.42	57.010		
4,700.00	3,992.40	3,931.40	3,931.40	46.53	67.67	80.37	-4,236.76	5,663.46	6,280.41	6,167.21	113.19	55.484		
4,800.00	4,068.53	4,007.53	4,007.53	47.92	69.00	80.82	-4,236.76	5,663.46	6,266.61	6,150.64	115.97	54.034		
4,900.00	4,144.66	4,083.66	4,083.66	49.32	70.33	81.27	-4,236.76	5,663.46	6,253.46	6,134.71	118.76	52.657		
5,000.00	4,220.78	4,159.78	4,159.78	50.71	71.66	81.72	-4,236.76	5,663.46	6,240.96	6,119.42	121.54	51.348		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,296.91	4,235.91	4,235.91	52.11	72.99	82.17	-4,236.76	5,663.46	6,229.11	6,104.78	124.33	50.101		
5,200.00	4,373.03	4,312.03	4,312.03	53.51	74.32	82.62	-4,236.76	5,663.46	6,217.90	6,090.79	127.12	48.915		
5,300.00	4,449.16	4,388.16	4,388.16	54.90	75.65	83.08	-4,236.76	5,663.46	6,207.36	6,077.46	129.91	47.784		
5,400.00	4,525.29	4,464.29	4,464.29	56.30	76.97	83.53	-4,236.76	5,663.46	6,197.48	6,064.78	132.69	46.705		
5,500.00	4,601.41	4,540.41	4,540.41	57.70	78.30	83.99	-4,236.76	5,663.46	6,188.26	6,052.78	135.48	45.676		
5,600.00	4,677.54	4,616.54	4,616.54	59.10	79.63	84.44	-4,236.76	5,663.46	6,179.71	6,041.44	138.27	44.693		
5,700.00	4,753.66	4,707.34	4,692.66	60.49	81.22	84.90	-4,236.76	5,663.46	6,171.82	6,030.51	141.31	43.676		
5,800.00	4,829.79	4,768.79	4,768.79	61.89	82.29	85.36	-4,236.76	5,663.46	6,164.61	6,020.78	143.84	42.858		
5,900.00	4,905.92	4,844.92	4,844.92	63.29	83.62	85.82	-4,236.76	5,663.46	6,158.08	6,011.46	146.62	42.001		
6,000.00	4,982.04	4,921.04	4,921.04	64.69	84.95	86.28	-4,236.76	5,663.46	6,152.22	6,002.82	149.40	41.180		
6,100.00	5,058.17	5,002.83	4,997.17	66.09	86.37	86.74	-4,236.76	5,663.46	6,147.04	5,994.76	152.27	40.369		
6,200.00	5,134.30	5,073.30	5,073.30	67.49	87.60	87.20	-4,236.76	5,663.46	6,142.53	5,987.59	154.94	39.644		
6,300.00	5,210.42	5,149.42	5,149.42	68.89	88.93	87.66	-4,236.76	5,663.46	6,138.72	5,981.00	157.71	38.924		
6,400.00	5,286.55	5,225.55	5,225.55	70.29	90.26	88.12	-4,236.76	5,663.46	6,135.58	5,975.11	160.47	38.235		
6,500.00	5,362.67	5,301.67	5,301.67	71.69	91.59	88.58	-4,236.76	5,663.46	6,133.13	5,969.90	163.23	37.574		
6,600.00	5,438.80	5,377.80	5,377.80	73.09	92.92	89.04	-4,236.76	5,663.46	6,131.36	5,965.38	165.98	36.940		
6,700.00	5,514.93	5,400.00	5,400.00	74.49	93.31	89.18	-4,236.76	5,663.46	6,130.51	5,962.74	167.78	36.540		
6,704.27	5,518.18	5,400.00	5,400.00	74.55	93.31	89.18	-4,236.76	5,663.46	6,130.51	5,962.68	167.83	36.527		
6,800.00	5,591.05	5,400.00	5,400.00	75.89	93.31	89.18	-4,236.76	5,663.46	6,131.26	5,962.11	169.15	36.247		
6,900.00	5,667.18	5,400.00	5,400.00	77.29	93.31	89.18	-4,236.76	5,663.46	6,133.64	5,963.14	170.49	35.976		
7,000.00	5,743.30	5,400.00	5,400.00	78.69	93.31	89.18	-4,236.76	5,663.46	6,137.64	5,965.84	171.80	35.726		
7,100.00	5,819.43	5,400.00	5,400.00	80.09	93.31	89.18	-4,236.76	5,663.46	6,143.27	5,970.20	173.07	35.497		
7,200.00	5,895.56	5,400.00	5,400.00	81.49	93.31	89.18	-4,236.76	5,663.46	6,150.52	5,976.22	174.30	35.287		
7,300.00	5,971.68	5,400.00	5,400.00	82.90	93.31	89.18	-4,236.76	5,663.46	6,159.39	5,983.89	175.49	35.097		
7,400.00	6,047.81	5,400.00	5,400.00	84.30	93.31	89.18	-4,236.76	5,663.46	6,169.86	5,993.21	176.65	34.927		
7,500.00	6,123.94	5,400.00	5,400.00	85.70	93.31	89.18	-4,236.76	5,663.46	6,181.94	6,004.17	177.77	34.775		
7,600.00	6,200.06	5,400.00	5,400.00	87.10	93.31	89.18	-4,236.76	5,663.46	6,195.60	6,016.75	178.85	34.642		
7,700.00	6,276.19	5,400.00	5,400.00	88.50	93.31	89.18	-4,236.76	5,663.46	6,210.85	6,030.96	179.89	34.526		
7,800.00	6,352.31	5,400.00	5,400.00	89.90	93.31	89.18	-4,236.76	5,663.46	6,227.66	6,046.77	180.89	34.428		
7,900.00	6,428.44	5,400.00	5,400.00	91.31	93.31	89.18	-4,236.76	5,663.46	6,246.03	6,064.18	181.85	34.347		
8,000.00	6,504.57	5,400.00	5,400.00	92.71	93.31	89.18	-4,236.76	5,663.46	6,265.95	6,083.17	182.77	34.283		
8,100.00	6,580.69	5,400.00	5,400.00	94.11	93.31	89.18	-4,236.76	5,663.46	6,287.39	6,103.73	183.66	34.235		
8,200.00	6,656.82	5,400.00	5,400.00	95.51	93.31	89.18	-4,236.76	5,663.46	6,310.34	6,125.84	184.50	34.203		
8,300.00	6,732.95	5,400.00	5,400.00	96.91	93.31	89.18	-4,236.76	5,663.46	6,334.79	6,149.48	185.30	34.186		
8,400.00	6,809.07	5,400.00	5,400.00	98.32	93.31	89.18	-4,236.76	5,663.46	6,360.71	6,174.64	186.07	34.185		
8,500.00	6,885.20	5,400.00	5,400.00	99.72	93.31	89.18	-4,236.76	5,663.46	6,388.10	6,201.30	186.80	34.198		
8,600.00	6,961.32	5,400.00	5,400.00	101.12	93.31	89.18	-4,236.76	5,663.46	6,416.93	6,229.44	187.49	34.226		
8,700.00	7,037.45	5,400.00	5,400.00	102.52	93.31	89.18	-4,236.76	5,663.46	6,447.18	6,259.04	188.14	34.268		
8,732.15	7,061.92	5,400.00	5,400.00	102.97	93.31	89.18	-4,236.76	5,663.46	6,457.20	6,268.86	188.34	34.284		
8,750.00	7,075.57	5,400.00	5,400.00	103.22	93.31	87.34	-4,236.76	5,663.46	6,462.58	6,274.13	188.45	34.293		
8,800.00	7,114.27	5,400.00	5,400.00	103.91	93.31	81.81	-4,236.76	5,663.46	6,475.19	6,286.45	188.75	34.306		
8,850.00	7,153.47	5,400.00	5,400.00	104.58	93.31	75.84	-4,236.76	5,663.46	6,484.13	6,295.12	189.02	34.305		
8,900.00	7,192.85	5,400.00	5,400.00	105.21	93.31	69.61	-4,236.76	5,663.46	6,489.35	6,300.10	189.26	34.289		
8,950.00	7,232.12	5,400.00	5,400.00	105.80	93.31	63.34	-4,236.76	5,663.46	6,490.82	6,301.36	189.46	34.259		
9,000.00	7,270.99	5,400.00	5,400.00	106.35	93.31	57.22	-4,236.76	5,663.46	6,488.52	6,298.89	189.63	34.217		
9,050.00	7,309.16	5,400.00	5,400.00	106.85	93.31	51.40	-4,236.76	5,663.46	6,482.47	6,292.73	189.75	34.163		
9,100.00	7,346.32	5,400.00	5,400.00	107.30	93.31	45.97	-4,236.76	5,663.46	6,472.72	6,282.89	189.83	34.098		
9,150.00	7,382.22	5,400.00	5,400.00	107.69	93.31	40.95	-4,236.76	5,663.46	6,459.30	6,269.44	189.86	34.021		
9,200.00	7,416.56	5,400.00	5,400.00	108.02	93.31	36.35	-4,236.76	5,663.46	6,442.31	6,252.46	189.85	33.934		
9,250.00	7,449.09	5,400.00	5,400.00	108.29	93.31	32.10	-4,236.76	5,663.46	6,421.85	6,232.05	189.79	33.836		
9,300.00	7,479.56	5,400.00	5,400.00	108.51	93.31	28.15	-4,236.76	5,663.46	6,398.03	6,208.34	189.69	33.729		
9,350.00	7,507.74	5,400.00	5,400.00	108.68	93.31	24.40	-4,236.76	5,663.46	6,371.01	6,181.45	189.55	33.611		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,533.41	5,400.00	5,400.00	108.79	93.31	20.76	-4,236.76	5,663.46	6,340.94	6,151.56	189.38	33.483		
9,450.00	7,556.39	5,400.00	5,400.00	108.86	93.31	17.11	-4,236.76	5,663.46	6,308.03	6,118.85	189.17	33.345		
9,500.00	7,576.48	5,400.00	5,400.00	108.88	93.31	13.33	-4,236.76	5,663.46	6,272.47	6,083.52	188.94	33.198		
9,550.00	7,593.55	5,400.00	5,400.00	108.86	93.31	9.25	-4,236.76	5,663.46	6,234.49	6,045.79	188.69	33.041		
9,600.00	7,607.46	5,400.00	5,400.00	108.80	93.31	4.65	-4,236.76	5,663.46	6,194.34	6,005.91	188.43	32.874		
9,650.00	7,618.11	5,400.00	5,400.00	108.71	93.31	-0.73	-4,236.76	5,663.46	6,152.28	5,964.13	188.15	32.699		
9,700.00	7,625.41	5,400.00	5,400.00	108.59	93.31	-7.25	-4,236.76	5,663.46	6,108.61	5,920.73	187.88	32.514		
9,750.00	7,629.30	5,400.00	5,400.00	108.45	93.31	-15.33	-4,236.76	5,663.46	6,063.62	5,876.01	187.60	32.321		
9,781.81	7,630.00	5,400.00	5,400.00	108.35	93.31	-21.46	-4,236.76	5,663.46	6,034.45	5,847.02	187.44	32.195		
9,800.00	7,630.00	5,400.00	5,400.00	108.29	93.31	-21.46	-4,236.76	5,663.46	6,017.67	5,830.33	187.34	32.121		
9,900.00	7,630.00	5,400.00	5,400.00	107.97	93.31	-21.46	-4,236.76	5,663.46	5,925.60	5,738.80	186.81	31.720		
10,000.00	7,630.00	5,400.00	5,400.00	107.67	93.31	-21.46	-4,236.76	5,663.46	5,833.80	5,647.54	186.25	31.322		
10,100.00	7,630.00	5,400.00	5,400.00	107.38	93.31	-21.46	-4,236.76	5,663.46	5,742.26	5,556.58	185.68	30.926		
10,200.00	7,630.00	5,400.00	5,400.00	107.10	93.31	-21.46	-4,236.76	5,663.46	5,651.02	5,465.93	185.08	30.533		
10,300.00	7,630.00	5,400.00	5,400.00	106.84	93.31	-21.46	-4,236.76	5,663.46	5,560.07	5,375.61	184.46	30.142		
10,400.00	7,630.00	5,400.00	5,400.00	106.59	93.31	-21.46	-4,236.76	5,663.46	5,469.44	5,285.62	183.82	29.755		
10,500.00	7,630.00	5,400.00	5,400.00	106.35	93.31	-21.46	-4,236.76	5,663.46	5,379.14	5,196.00	183.15	29.371		
10,600.00	7,630.00	5,400.00	5,400.00	106.13	93.31	-21.46	-4,236.76	5,663.46	5,289.19	5,106.74	182.45	28.990		
10,700.00	7,630.00	5,400.00	5,400.00	105.92	93.31	-21.46	-4,236.76	5,663.46	5,199.61	5,017.89	181.72	28.613		
10,800.00	7,630.00	5,400.00	5,400.00	105.72	93.31	-21.46	-4,236.76	5,663.46	5,110.41	4,929.45	180.96	28.240		
10,900.00	7,630.00	5,400.00	5,400.00	105.54	93.31	-21.46	-4,236.76	5,663.46	5,021.63	4,841.45	180.18	27.870		
11,000.00	7,630.00	5,400.00	5,400.00	105.37	93.31	-21.46	-4,236.76	5,663.46	4,933.27	4,753.91	179.36	27.505		
11,100.00	7,630.00	5,400.00	5,400.00	105.21	93.31	-21.46	-4,236.76	5,663.46	4,845.36	4,666.86	178.50	27.145		
11,200.00	7,630.00	5,400.00	5,400.00	105.06	93.31	-21.46	-4,236.76	5,663.46	4,757.93	4,580.32	177.61	26.789		
11,300.00	7,630.00	5,400.00	5,400.00	104.93	93.31	-21.46	-4,236.76	5,663.46	4,671.01	4,494.33	176.68	26.438		
11,400.00	7,630.00	5,400.00	5,400.00	104.82	93.31	-21.46	-4,236.76	5,663.46	4,584.61	4,408.91	175.71	26.093		
11,500.00	7,630.00	5,400.00	5,400.00	104.72	93.31	-21.46	-4,236.76	5,663.46	4,498.79	4,324.10	174.69	25.753		
11,600.00	7,630.00	5,400.00	5,400.00	104.63	93.31	-21.46	-4,236.76	5,663.46	4,413.56	4,239.92	173.63	25.419		
11,700.00	7,630.00	5,400.00	5,400.00	104.55	93.31	-21.46	-4,236.76	5,663.46	4,328.96	4,156.43	172.53	25.092		
11,800.00	7,630.00	5,400.00	5,400.00	104.50	93.31	-21.46	-4,236.76	5,663.46	4,245.03	4,073.66	171.37	24.771		
11,900.00	7,630.00	5,400.00	5,400.00	104.45	93.31	-21.46	-4,236.76	5,663.46	4,161.81	3,991.64	170.17	24.457		
12,000.00	7,630.00	5,400.00	5,400.00	104.43	93.31	-21.46	-4,236.76	5,663.46	4,079.34	3,910.44	168.91	24.151		
12,100.00	7,630.00	5,400.00	5,400.00	104.42	93.31	-21.46	-4,236.76	5,663.46	3,997.68	3,830.09	167.59	23.854		
12,200.00	7,630.00	5,400.00	5,400.00	104.42	93.31	-21.46	-4,236.76	5,663.46	3,916.87	3,750.65	166.22	23.565		
12,300.00	7,630.00	5,400.00	5,400.00	104.45	93.31	-21.46	-4,236.76	5,663.46	3,836.96	3,672.17	164.79	23.285		
12,400.00	7,630.00	5,400.00	5,400.00	104.49	93.31	-21.46	-4,236.76	5,663.46	3,758.01	3,594.72	163.29	23.014		
12,500.00	7,630.00	5,400.00	5,400.00	104.55	93.31	-21.46	-4,236.76	5,663.46	3,680.08	3,518.35	161.73	22.754		
12,600.00	7,630.00	5,400.00	5,400.00	104.63	93.31	-21.46	-4,236.76	5,663.46	3,603.25	3,443.14	160.11	22.505		
12,700.00	7,630.00	5,400.00	5,400.00	104.73	93.31	-21.46	-4,236.76	5,663.46	3,527.58	3,369.16	158.42	22.267		
12,800.00	7,630.00	5,400.00	5,400.00	104.85	93.31	-21.46	-4,236.76	5,663.46	3,453.14	3,296.48	156.66	22.042		
12,900.00	7,630.00	5,400.00	5,400.00	104.99	93.31	-21.46	-4,236.76	5,663.46	3,380.03	3,225.18	154.84	21.829		
13,000.00	7,630.00	5,400.00	5,400.00	105.15	93.31	-21.46	-4,236.76	5,663.46	3,308.32	3,155.36	152.96	21.629		
13,100.00	7,630.00	5,400.00	5,400.00	105.34	93.31	-21.46	-4,236.76	5,663.46	3,238.11	3,087.10	151.01	21.443		
13,200.00	7,630.00	5,400.00	5,400.00	105.56	93.31	-21.46	-4,236.76	5,663.46	3,169.51	3,020.50	149.00	21.272		
13,300.00	7,630.00	5,400.00	5,400.00	105.80	93.31	-21.46	-4,236.76	5,663.46	3,102.60	2,955.66	146.94	21.115		
13,400.00	7,630.00	5,400.00	5,400.00	106.06	93.31	-21.46	-4,236.76	5,663.46	3,037.52	2,892.69	144.83	20.973		
13,500.00	7,630.00	5,400.00	5,400.00	106.36	93.31	-21.46	-4,236.76	5,663.46	2,974.38	2,831.70	142.68	20.846		
13,600.00	7,630.00	5,400.00	5,400.00	106.68	93.31	-21.46	-4,236.76	5,663.46	2,913.30	2,772.79	140.51	20.734		
13,700.00	7,630.00	5,400.00	5,400.00	107.03	93.31	-21.46	-4,236.76	5,663.46	2,854.42	2,716.10	138.32	20.636		
13,800.00	7,630.00	5,400.00	5,400.00	107.42	93.31	-21.46	-4,236.76	5,663.46	2,797.88	2,661.74	136.14	20.552		
13,900.00	7,630.00	5,400.00	5,400.00	107.83	93.31	-21.46	-4,236.76	5,663.46	2,743.81	2,609.84	133.98	20.480		
14,000.00	7,630.00	5,400.00	5,400.00	108.28	93.31	-21.46	-4,236.76	5,663.46	2,692.38	2,560.52	131.86	20.418		

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 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,630.00	5,400.00	5,400.00	108.77	93.31	-21.46	-4,236.76	5,663.46	2,643.73	2,513.91	129.82	20.365		
14,200.00	7,630.00	5,400.00	5,400.00	109.29	93.31	-21.46	-4,236.76	5,663.46	2,598.02	2,470.14	127.88	20.316		
14,300.00	7,630.00	5,400.00	5,400.00	109.84	93.31	-21.46	-4,236.76	5,663.46	2,555.40	2,429.33	126.08	20.269		
14,400.00	7,630.00	5,400.00	5,400.00	110.43	93.31	-21.46	-4,236.76	5,663.46	2,516.04	2,391.60	124.44	20.219		
14,500.00	7,630.00	5,400.00	5,400.00	111.06	93.31	-21.46	-4,236.76	5,663.46	2,480.10	2,357.08	123.01	20.161		
14,600.00	7,630.00	5,400.00	5,400.00	111.72	93.31	-21.46	-4,236.76	5,663.46	2,447.71	2,325.87	121.83	20.090		
14,700.00	7,630.00	5,400.00	5,400.00	112.42	93.31	-21.46	-4,236.76	5,663.46	2,419.02	2,298.08	120.94	20.001		
14,800.00	7,630.00	5,400.00	5,400.00	113.16	93.31	-21.46	-4,236.76	5,663.46	2,394.17	2,273.79	120.38	19.888		
14,900.00	7,630.00	5,400.00	5,400.00	113.94	93.31	-21.46	-4,236.76	5,663.46	2,373.28	2,253.09	120.19	19.746		
15,000.00	7,630.00	5,400.00	5,400.00	114.75	93.31	-21.46	-4,236.76	5,663.46	2,356.45	2,236.04	120.40	19.571		
15,100.00	7,630.00	5,400.00	5,400.00	115.60	93.31	-21.46	-4,236.76	5,663.46	2,343.76	2,222.71	121.05	19.361		
15,200.00	7,630.00	5,400.00	5,400.00	116.48	93.31	-21.46	-4,236.76	5,663.46	2,335.30	2,213.14	122.16	19.116		
15,300.00	7,630.00	5,400.00	5,400.00	117.40	93.31	-21.46	-4,236.76	5,663.46	2,331.10	2,207.36	123.74	18.839		
15,348.04	7,630.00	5,400.00	5,400.00	117.85	93.31	-21.46	-4,236.76	5,663.46	2,330.60	2,205.95	124.65	18.697 CC		
15,400.00	7,630.00	5,400.00	5,400.00	118.35	93.31	-21.46	-4,236.76	5,663.46	2,331.18	2,205.42	125.76	18.536 ES		
15,500.00	7,630.00	5,400.00	5,400.00	119.34	93.31	-21.46	-4,236.76	5,663.46	2,335.55	2,207.34	128.22	18.216		
15,600.00	7,630.00	5,400.00	5,400.00	120.35	93.31	-21.46	-4,236.76	5,663.46	2,344.18	2,213.14	131.05	17.888		
15,700.00	7,630.00	5,400.00	5,400.00	121.40	93.31	-21.46	-4,236.76	5,663.46	2,357.03	2,222.83	134.20	17.563		
15,800.00	7,630.00	5,400.00	5,400.00	122.48	93.31	-21.46	-4,236.76	5,663.46	2,374.02	2,236.41	137.61	17.252		
15,900.00	7,630.00	5,400.00	5,400.00	123.58	93.31	-21.46	-4,236.76	5,663.46	2,395.07	2,253.87	141.20	16.962		
16,000.00	7,630.00	5,400.00	5,400.00	124.71	93.31	-21.46	-4,236.76	5,663.46	2,420.08	2,275.17	144.91	16.701		
16,100.00	7,630.00	5,400.00	5,400.00	125.87	93.31	-21.46	-4,236.76	5,663.46	2,448.91	2,300.24	148.67	16.472		
16,200.00	7,630.00	5,400.00	5,400.00	127.05	93.31	-21.46	-4,236.76	5,663.46	2,481.44	2,329.01	152.43	16.279		
16,300.00	7,630.00	5,400.00	5,400.00	128.26	93.31	-21.46	-4,236.76	5,663.46	2,517.53	2,361.39	156.14	16.124		
16,400.00	7,630.00	5,400.00	5,400.00	129.48	93.31	-21.46	-4,236.76	5,663.46	2,557.02	2,397.25	159.77	16.005		
16,500.00	7,630.00	5,400.00	5,400.00	130.73	93.31	-21.46	-4,236.76	5,663.46	2,599.76	2,436.47	163.28	15.922		
16,600.00	7,630.00	5,400.00	5,400.00	132.00	93.31	-21.46	-4,236.76	5,663.46	2,645.59	2,478.92	166.66	15.874		
16,700.00	7,630.00	5,400.00	5,400.00	133.29	93.31	-21.46	-4,236.76	5,663.46	2,694.35	2,524.45	169.90	15.859 SF		
16,800.00	7,630.00	5,400.00	5,400.00	134.59	93.31	-21.46	-4,236.76	5,663.46	2,745.89	2,572.92	172.97	15.875		
16,900.00	7,630.00	5,400.00	5,400.00	135.91	93.31	-21.46	-4,236.76	5,663.46	2,800.05	2,624.18	175.88	15.921		
17,000.00	7,630.00	5,400.00	5,400.00	137.25	93.31	-21.46	-4,236.76	5,663.46	2,856.69	2,678.08	178.62	15.993		
17,100.00	7,630.00	5,400.00	5,400.00	138.61	93.31	-21.46	-4,236.76	5,663.46	2,915.66	2,734.47	181.20	16.091		
17,200.00	7,630.00	5,400.00	5,400.00	139.97	93.31	-21.46	-4,236.76	5,663.46	2,976.82	2,793.21	183.61	16.212		
17,300.00	7,630.00	5,400.00	5,400.00	141.36	93.31	-21.46	-4,236.76	5,663.46	3,040.05	2,854.17	185.88	16.355		
17,400.00	7,630.00	5,400.00	5,400.00	142.75	93.31	-21.46	-4,236.76	5,663.46	3,105.20	2,917.21	187.99	16.518		
17,500.00	7,630.00	5,400.00	5,400.00	144.16	93.31	-21.46	-4,236.76	5,663.46	3,172.17	2,982.21	189.96	16.699		
17,600.00	7,630.00	5,400.00	5,400.00	145.58	93.31	-21.46	-4,236.76	5,663.46	3,240.84	3,049.05	191.79	16.898		
17,700.00	7,630.00	5,400.00	5,400.00	147.01	93.31	-21.46	-4,236.76	5,663.46	3,311.11	3,117.61	193.50	17.112		
17,800.00	7,630.00	5,400.00	5,400.00	148.45	93.31	-21.46	-4,236.76	5,663.46	3,382.88	3,187.79	195.08	17.341		
17,900.00	7,630.00	5,400.00	5,400.00	149.91	93.31	-21.46	-4,236.76	5,663.46	3,456.04	3,259.48	196.56	17.583		
18,000.00	7,630.00	5,400.00	5,400.00	151.37	93.31	-21.46	-4,236.76	5,663.46	3,530.53	3,332.60	197.93	17.837		
18,100.00	7,630.00	5,400.00	5,400.00	152.84	93.31	-21.46	-4,236.76	5,663.46	3,606.25	3,407.04	199.20	18.103		
18,200.00	7,630.00	5,400.00	5,400.00	154.32	93.31	-21.46	-4,236.76	5,663.46	3,683.13	3,482.74	200.39	18.380		
18,300.00	7,630.00	5,400.00	5,400.00	155.81	93.31	-21.46	-4,236.76	5,663.46	3,761.09	3,559.61	201.48	18.667		
18,400.00	7,630.00	5,400.00	5,400.00	157.31	93.31	-21.46	-4,236.76	5,663.46	3,840.08	3,637.57	202.50	18.963		
18,500.00	7,630.00	5,400.00	5,400.00	158.81	93.31	-21.46	-4,236.76	5,663.46	3,920.03	3,716.57	203.45	19.267		
18,600.00	7,630.00	5,400.00	5,400.00	160.32	93.31	-21.46	-4,236.76	5,663.46	4,000.87	3,796.54	204.33	19.580		
18,700.00	7,630.00	5,400.00	5,400.00	161.84	93.31	-21.46	-4,236.76	5,663.46	4,082.57	3,877.42	205.15	19.900		
18,800.00	7,630.00	5,400.00	5,400.00	163.37	93.31	-21.46	-4,236.76	5,663.46	4,165.07	3,959.15	205.92	20.227		
18,900.00	7,630.00	5,400.00	5,400.00	164.90	93.31	-21.46	-4,236.76	5,663.46	4,248.31	4,041.69	206.62	20.561		
19,000.00	7,630.00	5,400.00	5,400.00	166.43	93.31	-21.46	-4,236.76	5,663.46	4,332.27	4,124.99	207.28	20.900		
19,100.00	7,630.00	5,400.00	5,400.00	167.98	93.31	-21.46	-4,236.76	5,663.46	4,416.89	4,209.00	207.90	21.245		

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	7,630.00	5,400.00	5,400.00	169.53	93.31	-21.46	-4,236.76	5,663.46	4,502.15	4,293.68	208.47	21.596	
19,300.00	7,630.00	5,400.00	5,400.00	171.08	93.31	-21.46	-4,236.76	5,663.46	4,588.00	4,379.00	209.00	21.952	
19,400.00	7,630.00	5,400.00	5,400.00	172.64	93.31	-21.46	-4,236.76	5,663.46	4,674.41	4,464.91	209.50	22.312	
19,500.00	7,630.00	5,400.00	5,400.00	174.21	93.31	-21.46	-4,236.76	5,663.46	4,761.36	4,551.39	209.97	22.677	
19,518.56	7,630.00	5,400.00	5,400.00	174.50	93.31	-21.46	-4,236.76	5,663.46	4,777.55	4,567.50	210.05	22.745	

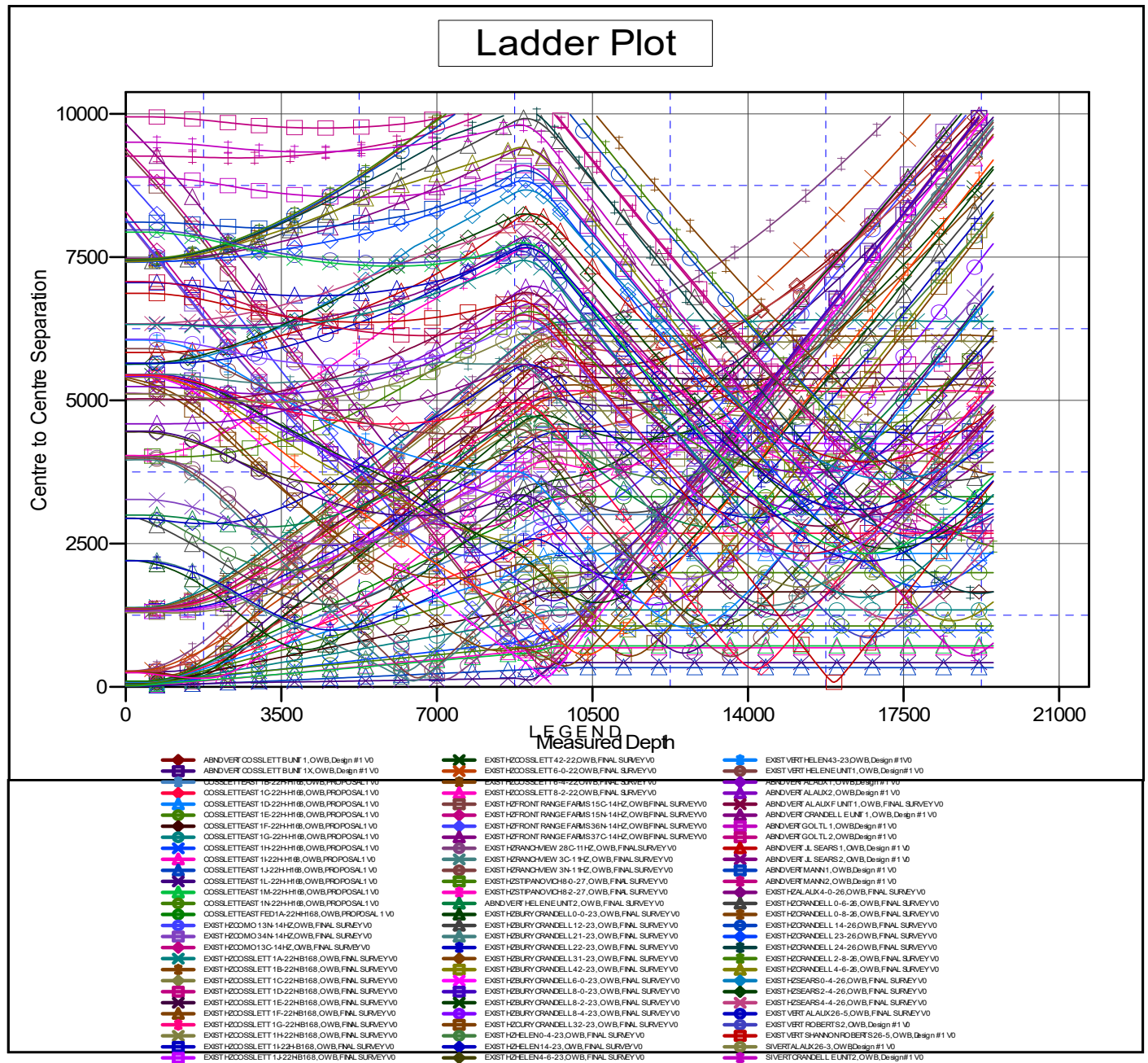
Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1K-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1K-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1K-22H-H168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°

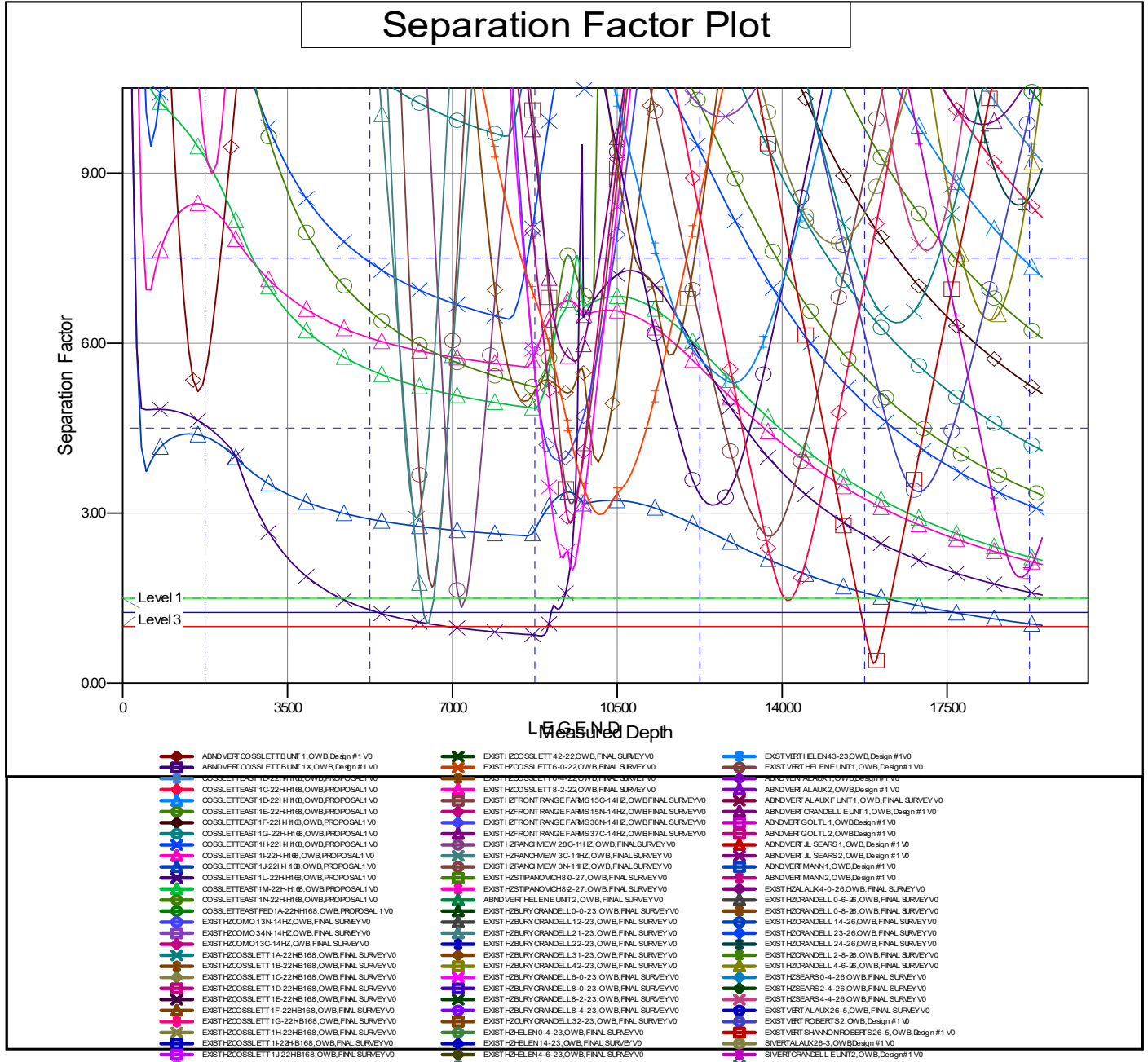


CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

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

Grid Convergence at Surface is: 0.33°



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